

ΔΗΜΟΣΙΕΥΣΕΙΣ ΤΜΗΜΑΤΟΣ ΕΠΙΣΤΗΜΗΣ ΤΩΝ ΥΛΙΚΩΝ 2011-2020

A/A	AUTHORS	TITLE	JOURNAL	VOL.	ISSUE	PAGES		ARTICLE NUMBER	YEAR
1	Topoglidis, E	Mesoporous Metal Oxide Films	COATINGS	10	7			668	2020
2	Loginos, P; Patsidis, A; Georgakilas, V	UV-Cured Poly(Ethylene Glycol) Diacrylate/Carbon Nanostructure Thin Films. Preparation, Characterization, and Electrical Properties	JOURNAL OF COMPOSITES SCIENCE	4	1			4	2020
3	Stefanatos, D; Paspalakis, E	Speeding up adiabatic passage with an optimal modified Roland-Cerf protocol	JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL	53	11			115304	2020
4	Patsidis, AC	Barium titanate/polydimethylsiloxane nano/microcomposites fabrication, morphology, dielectric response and functionality Inspection keywords Other keywords	IET NANODIELECTRICS	3	1	14	19		2020
5	Samulski, ET; Vanakaras, AG; Photinos, DJ	The twist bend nematic: a case of mistaken identity	LIQUID CRYSTALS	47	13	2092	2097		2020
6	Manika, GC; Psarras, GC	SrTiO ₃ /Epoxy Nanodielectrics as Bulk Energy Storage and Harvesting Systems: The Role of Conductivity	ACS APPLIED ENERGY MATERIALS	3	1	831	842		2020
7	Anastasiou, A; Zacharaki, EI; Alexandropoulos, D; Moustakas, K; Vainos, NA	Machine learning based technique towards smart laser fabrication of CGH	MICROELECTRONIC ENGINEERING	227				111314	2020

8	Vrettos, K; Spyrou, K; Georgakilas, V	Graphene Aerogel Growth on Functionalized Carbon Fibers	MOLECULES	25	6			1295	2020
9	Psarras, GC	Panacea: A Greek ancient myth 'living' in materials science?	EXPRESS POLYMER LETTERS	14	12	1105	1105		2020
10	Gioti, S; Stavropoulos, SG; Sanida, A; Psarras, GC	A comparative study on the thermomechanical and electrical properties of carbide/or graphite/epoxy-reinforced composites	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	142	5	1649	1657		2020
11	Vrettos, K; Angelopoulou, P; Papavasiliou, J; Avgouropoulos, G; Georgakilas, V	Sulfur-doped graphene aerogels reinforced with carbon fibers as electrode materials	JOURNAL OF MATERIALS SCIENCE	55	23	9676	9685		2020
12	Papachristopoulou, K; Vainos, NA	Systolic Nanofabrication of Super-Resolved Photonics and Biomimetics	NANOMATERIALS	10	12			2418	2020
13	Angelopoulou, P; Vrettos, K; Georgakilas, V; Avgouropoulos, G	Graphene Aerogel Modified Carbon Paper as Anode for Lithium-Ion Batteries	CHEMISTRYSELECT	5	9	2719	2724		2020
14	Alexandropoulos, D; Mazzucato, S; Karoutsos, E; Tessaro, C; Politi, C; Vainos, N	Fabrication of holographic optical elements on silver by nanosecond IR laser source	MICROELECTRONIC ENGINEERING	227				111312	2020
15	Heist, LM; Samulski, ET; Welch, C; Ahmed, Z; Mehl, GH; Vanakaras, AG; Photinos, DJ	Probing molecular ordering in the nematic phases of para-linked bimesogen dimers through NMR studies of flexible prochiral solutes	LIQUID CRYSTALS	47	13	2058	2073		2020
16	Tsikriteas, ZM; Manika, GC; Patsidis, AC; Psarras, GC	Probing the multifunctional behaviour of barium zirconate/barium titanate/epoxy resin hybrid nanodielectrics	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	142	1	231	243		2020
17	Stefanatos, D; Karanikolas, V; Iliopoulos, N; Paspalakis, E	Fast optically controlled spin initialization of a quantum dot in the Voigt geometry coupled to a transition metal dichalcogenide monolayer	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	118				113935	2020

18	Iliopoulos, N; Karanikolas, V; Thanopoulos, I; Paspalakis, E	Entanglement dynamics for quantum emitters strongly coupled with molybdenum disulfide nanodisks	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	119				113967	2020
19	Katsiaounis, S; Panidi, J; Koutselas, I; Topoglidis, E	Fully Reversible Electrically Induced Photochromic-Like Behaviour of Ag:TiO2 Thin Films	COATINGS	10	2			130	2020
20	Stefanatos, D; Karanikolas, V; Iliopoulos, N; Paspalakis, E	Rapid Optical Spin Initialization of a Quantum Dot in the Voigt Geometry Coupled to a Two-Dimensional Semiconductor	APPLIED SCIENCES-BASEL	10	3			1001	2020
21	Stefanatos, D; Karanikolas, V; Iliopoulos, N; Paspalakis, E	Fast spin initialization of a quantum dot in the Voigt configuration coupled to a graphene layer	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	117				113810	2020
22	Blekos, K; Stefanatos, D; Paspalakis, E	Performance of superadiabatic stimulated Raman adiabatic passage in the presence of dissipation and Ornstein-Uhlenbeck dephasing	PHYSICAL REVIEW A	102	2			23715	2020
23	Stefanatos, D; Paspalakis, E	Rapid biexciton-state preparation in a quantum dot using on-off pulse sequences	PHYSICAL REVIEW A	102	5			52618	2020
24	Stefanatos, D; Blekos, K; Paspalakis, E	Robustness of STIRAP Shortcuts under Ornstein-Uhlenbeck Noise in the Energy Levels	APPLIED SCIENCES-BASEL	10	5			1580	2020
25	Tourlouki, K; Tsavatopoulou, V; Alexandropoulos, D; Manariotis, ID; Mazzucato, S	A Novel Microalgae Harvesting Method Using Laser Micromachined Glass Fiber Reinforced Polymers	PHOTONICS	7	2			42	2020
26	Barnasas, A; Kanistras, N; Ntagkas, A; Anyfantis, DI; Stamatelatos, A; Kapaklis, V; Bouropoulos, N; Mystiridou, E; Pouloupoulos, P; Garoufalidis, CS; Baskoutas, S	Quantum confinement effects of thin ZnO films by experiment and theory	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	120				114072	2020

27	Stefanatos, D; Paspalakis, E	A shortcut tour of quantum control methods for modern quantum technologies	EPL	132	6			60001	2020
28	Stefanatos, D; Paspalakis, E	Dynamical blockade in a bosonic Josephson junction using optimal coupling	PHYSICAL REVIEW A	102	1			13716	2020
29	Faklaris, I; Bouropoulos, N; Vainos, NA	Sialolithiasis: Application parameters for an optimal laser therapy	JOURNAL OF BIOPHOTONICS	13	7			e202000044	2020
30	Armaos, V; Badounas, DA; Deligiannis, P; Lianos, K	Computational chemistry on quantum computers: Ground state estimation	APPLIED PHYSICS A- MATERIALS SCIENCE & PROCESSING	126	8			625	2020
31	Katsoufis, P; Katsaiti, M; Mourelas, C; Andrade, TS; Dracopoulos, V; Politis, C; Avgouropoulos, G; Lianos, P	Study of a Thin Film Aluminum-Air Battery	ENERGIES	13	6			1447	2020
32	Manika, GC; Andrikopoulos, KS; Psarras, GC	On the Ferroelectric to Paraelectric Structural Transition of BaTiO ₃ Micro-/Nanoparticles and Their Epoxy Nanocomposites	MOLECULES	25	11			2686	2020
33	Diamantopoulos, NC; Barnasas, A; Garoufalis, CS; Anyfantis, DI; Bouropoulos, N; Pouloupoulos, P; Baskoutas, S	Band Gap Measurements of Nano-Meter Sized Rutile Thin Films	NANOMATERIALS	10	12			2379	2020
34	Papavasiliou, J	Interaction of atomically dispersed gold with hydrothermally prepared copper-cerium oxide for preferential CO oxidation reaction	CATALYSIS TODAY	357		684	693		2020
35	Stefanatos, D; Smponias, A; Hamedi, HR; Paspalakis, E	Ultimate conversion efficiency bound for the forward double-Lambda atom-light coupling scheme	OPTICS LETTERS	45	21	6090	6093		2020
36	Konstantopoulou, A; Aravantinos-Zafiris, N; Sigalas, MM	Tunable bandgaps and defect states in 3D phononic hollow structures	JOURNAL OF APPLIED PHYSICS	127	7			75101	2020

37	Barnasas, A; Karavasilis, MV; Aggelopoulos, C; Tsakiroglou, CD; Poulopoulos, P	Growth and Characterization of Nanostructured Ag-ZnO for Application in Water Purification	JOURNAL OF NANO RESEARCH	62		75	86		2020
38	Plotas, P; Kagkellaris, K; Konstantopoulou, A; Makri, O; Georgakopoulos, CD	Possible protective role of contact Lens against SARS COV 2	JOURNAL FRANCAIS D OPHTALMOLOGIE	43	7	E233	E234		2020
39	Stavropoulos, SG; Sanida, A; Psarras, GC	A comparative study on the electrical properties of different forms of carbon allotropes - epoxy nanocomposites	EXPRESS POLYMER LETTERS	14	5	477	490		2020
40	Sanida, A; Stavropoulos, SG; Speliotis, T; Psarras, GC	Probing the magnetoelectric response and energy efficiency in Fe ₃ O ₄ /epoxy nanocomposites	POLYMER TESTING	88				106560	2020
41	Sanida, A; Stavropoulos, SG; Speliotis, T; Psarras, GC	Development and characterization of multifunctional yttrium iron garnet/epoxy nanodielectrics	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	142	5	1701	1708		2020
42	Papadopoulos, C; Kappis, K; Papavasiliou, J; Vakros, J; Kusmierz, M; Gac, W; Georgiou, Y; Deligiannakis, Y; Avgouropoulos, G	Copper-promoted ceria catalysts for CO oxidation reaction	CATALYSIS TODAY	355		647	653		2020
43	Deskoulidis, E; Petrouli, S; Apostolopoulos, V; Matsoukas, J; Topoglidis, E	The Use of Electrochemical Voltammetric Techniques and High-Pressure Liquid Chromatography to Evaluate Conjugation Efficiency of Multiple Sclerosis Peptide-Carrier Conjugates	BRAIN SCIENCES	10	9			577	2020
44	Umar, A; Ammar, HY; Kumar, R; Almas, T; Ibrahim, AA; AlAssiri, MS; Abaker, M; Baskoutas, S	Efficient H ₂ gas sensor based on 2D SnO ₂ disks: Experimental and theoretical studies	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	45	50	26388	26401		2020
45	Hamedi, HR; Ruseckas, J; Paspalakis, E; Juzeliunas, G	Off-axis optical vortices using double-Raman singlet and doublet light-matter schemes	PHYSICAL REVIEW A	101	6			63828	2020

46	Eleftheriadis, G; Monou, PK; Andriotis, E; Mitsouli, E; Moutafidou, N; Markopoulou, C; Bouropoulos, N; Fatouros, D	Development and Characterization of Inkjet Printed Edible Films for Buccal Delivery of B-Complex Vitamins	PHARMACEUTICALS	13	9			203	2020
47	Stamoulis, K; Georgantzinou, SK; Giannopoulos, GI	Damage characteristics in laminated composite structures subjected to low-velocity impact	INTERNATIONAL JOURNAL OF STRUCTURAL INTEGRITY	11	5	670	685		2020
48	Katsoufis, P; Mylona, V; Politis, C; Avgouropoulos, G; Lianos, P	Study of some basic operation conditions of an Al-air battery using technical grade commercial aluminum	JOURNAL OF POWER SOURCES	450				227624	2020
49	Katsoufis, P; Doukas, E; Politis, C; Avgouropoulos, G; Lianos, P	Enhanced rate of hydrogen production by corrosion of commercial aluminum	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	45	18	10729	10734		2020
50	Anyfantis, DI; Kanistras, N; Barnasas, A; Pouloupoulos, P; Papaioannou, ET; Conca, A; Trachylis, D; Politis, C	Effects of Thermal Annealing and Ni Addition on the Magnetic Properties of Co-CoO Multilayers	SPIN	10	4			2050030	2020
51	Drakopoulos, SX; Karger-Kocsis, J; Psarras, GC	The effect of micro-fibrillated cellulose upon the dielectric relaxations and DC conductivity in thermoplastic starch bio-composites	JOURNAL OF APPLIED POLYMER SCIENCE	137	48			e49573	2020
52	Hillebrand, M; Kalosakas, G; Skokos, C; Bishop, AR	Distributions of bubble lifetimes and bubble lengths in DNA	PHYSICAL REVIEW E	102	6			62114	2020
53	Nepal, S; Dhakal, R; Galanakis, I	Ab initio study of the half-metallic full-Heusler compounds Co(2)ZAI [Z = Sc, Ti, V, Cr, Mn, Fe]; the role of electronic correlations	MATERIALS TODAY COMMUNICATIONS	25				101498	2020
54	Hillebrand, M; Manda, BM; Kalosakas, G; Gerlach, E; Skokos, C	Chaotic dynamics of graphene and graphene nanoribbons	CHAOS	30	6			63150	2020

55	Eleftheriadis, GK; Katsiotis, CS; Bouropoulos, N; Koutsopoulos, S; Fatouros, DG	FDM-printed pH-responsive capsules for the oral delivery of a model macromolecular dye	PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY	25	4	517	523		2020
56	Kanidi, M; Papagiannopoulos, A; Matei, A; Dinescu, M; Pispas, S; Kandyla, M	Functional surfaces of laser-microstructured silicon coated with thermoresponsive PS/PNIPAM polymer blends: Switching reversibly between hydrophilicity and hydrophobicity	APPLIED SURFACE SCIENCE	527				146841	2020
57	Alexiou, VF; Mathioudakis, GN; Andrikopoulos, KS; Beobide, AS; Voyiatzis, GA	Poly(ethylene Terephthalate) Carbon-Based Nanocomposites: A Crystallization and Molecular Orientation Study	POLYMERS	12	11			2626	2020
58	Benmakhlouf, A; Bourourou, Y; Bouhemadou, A; Bentabet, A; Khemloul, F; Maabed, S; Bouchenafa, M; Galanakis, I	Structural, electronic and magnetic properties of the manganese telluride layers AMnTe(2) (A = K, Rb, Cs) from first-principles calculations (vol 465, pg 430, 2018)	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	498				166210	2020
59	Peroukidis, SD; Klapp, SHL; Vanakaras, AG	Field-induced anti-nematic and biaxial ordering in binary mixtures of discotic mesogens and spherical magnetic nanoparticles	SOFT MATTER	16	47	10667	10675		2020
60	Koutsopoulou, E; Koutselas, I; Christidis, GE; Papagiannopoulos, A; Marantos, I	Effect of layer charge and charge distribution on the formation of chitosan - smectite bionanocomposites	APPLIED CLAY SCIENCE	190				105583	2020
61	Kalozoumis, PA; Nikolopoulos, GM; Petrosyan, D	Coherent population oscillations and an effective spin-exchange interaction in a PT symmetric polariton mixture	EPL	129	3			37003	2020

62	Nikolaou, P; Deskoulidis, E; Topoglidis, E; Kakoulidou, AT; Tsopelas, F	Application of chemometrics for detection and modeling of adulteration of fresh cow milk with reconstituted skim milk powder using voltammetric fingerprinting on a graphite/SiO ₂ hybrid electrode	TALANTA	206				120223	2020
63	Wang, ZP; Zhang, YF; Paspalakis, E; Yu, BL	Efficient spatiotemporal-vortex four-wave mixing in a semiconductor nanostructure	PHYSICAL REVIEW A	102	6			63509	2020
64	Eleftheriadis, GK; Monou, PK; Bouropoulos, N; Boetker, J; Rantanen, J; Jacobsen, J; Vizirianakis, IS; Fatouros, DG	Fabrication of Mucoadhesive Buccal Films for Local Administration of Ketoprofen and Lidocaine Hydrochloride by Combining Fused Deposition Modeling and Inkjet Printing	JOURNAL OF PHARMACEUTICAL SCIENCES	109	9	2757	2766		2020
65	Vlassi, E; Papagiannopoulos, A; Sergides, A; Pispas, S	Block Copolymer Nanosystems Encapsulating Magnetic Nanoparticles and Drug	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	20	7	3981	3988		2020
66	Taskin, OS; Yuca, N; Papavasiliou, J; Avgouropoulos, G	Interconnected conductive gel binder for high capacity silicon anode for Li-ion batteries	MATERIALS LETTERS	273				127918	2020
67	Karanikolas, V; Thanopoulos, I; Paspalakis, E	Strong coupling in a two-dimensional semiconductor/noble metal multilayer platform	PHYSICAL REVIEW RESEARCH	2	3			33141	2020
68	Gioumouxouzis, CI; Tzimtzimis, E; Katsamenis, OL; Dourou, A; Markopoulou, C; Bouropoulos, N; Tzetzis, D; Fatouros, DG	Fabrication of an osmotic 3D printed solid dosage form for controlled release of active pharmaceutical ingredients	EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES	143				105176	2020
69	Eleftheriadis, GK; Katsiotis, CS; Andreadis, DA; Tzetzis, D; Ritzoulis, C; Bouropoulos, N; Kanellopoulou, D; Andriotis, EG; Tsibouklis, J; Fatouros, DG	Inkjet printing of a thermolabile model drug onto FDM-printed substrates: formulation and evaluation	DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY	46	8	1253	1264		2020

70	Umar, A; Harraz, FA; Ibrahim, AA; Almas, T; Kumar, R; Al-Assiri, MS; Baskoutas, S	Iron-Doped Titanium Dioxide Nanoparticles As Potential Scaffold for Hydrazine Chemical Sensor Applications	COATINGS	10	2			182	2020
71	Umar, A; Qamar, M; Kumar, R; Ibrahim, AA; Alhmami, MAM; Almas, T; Mohammed, AYA; Bouropoulos, N; Baskoutas, S; Suliman, MH; Drmosh, QA	Electrochemical Oxygen Evolution Reaction Catalyzed by Cobalt Oxide (Co3O4) Nanodisks	SCIENCE OF ADVANCED MATERIALS	12	12	1889	1895		2020
72	Fitros, M; Tombros, SF; Kokkalas, S; Kiliyas, SP; Perraki, M; Skliros, V; Simos, XC; Papaspyropoulos, K; Avgouropoulos, G; Williams-Jones, AE; Zhai, DG; Hatzipanagiotou, K	REE-enriched skarns in collisional settings: The example of Xanthi's Fe-skarn, Rhodope Metallogenic Massif, Northern Greece	LITHOS	370				105638	2020
73	Bailey, S; Sroga, GE; Hoac, B; Katsamenis, OL; Wang, ZH; Bouropoulos, N; McKee, MD; Sorensen, ES; Thurner, PJ; Vashishth, D	The role of extracellular matrix phosphorylation on energy dissipation in bone	ELIFE	9				e58184	2020
74	Taka, E; Karavasili, C; Bouropoulos, N; Moschakis, T; Andreadis, DD; Zacharis, CK; Fatouros, DG	Ocular Co-Delivery of Timolol and Brimonidine from a Self-Assembling Peptide Hydrogel for the Treatment of Glaucoma: In Vitro and Ex Vivo Evaluation	PHARMACEUTICALS	13	6			126	2020
75	Basina, G; Polychronopoulou, K; Zedan, AF; Dimos, K; Katsiotis, MS; Fotopoulos, AP; Ismail, I; Tzitzios, V	Ultrasmall Metal-Doped CeO2 Nanoparticles for Low-Temperature CO Oxidation	ACS APPLIED NANO MATERIALS	3	11	10805	10813		2020
76	Umar, A; Almas, T; Ibrahim, AA; Kumar, R; AlAssiri, MS; Baskoutas, S; Akhtar, MS	An efficient chemical sensor based on CeO2 nanoparticles for the detection of acetylacetone chemical	JOURNAL OF ELECTROANALYTICAL CHEMISTRY	864				114089	2020
77	Seremetis, L; Koukaras, EN; Alexandri, S; Michail, A; Kalosakas, G; Parthenios, J; Galiotis, C; Tsirkas, S; Grammatikopoulos, S; Papagelis, K	Thermomechanical Response of Supported Hexagonal Boron Nitride Sheets of Various Thicknesses	JOURNAL OF PHYSICAL CHEMISTRY C	124	22	12134	12143		2020

78	Kontogiannidou, E; Meikopoulos, T; Virgiliou, C; Bouropoulos, N; Gika, H; Vizirianakis, IS; Mullertz, A; Fatouros, DG	Towards the development of Self-Nano-Emulsifying Drug Delivery Systems (SNEDDS) containing trimethyl chitosan for the oral delivery of amphotericin B: In vitro assessment and cytocompatibility studies	JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY	56				101524	2020
79	Umar, A; Ibrahim, AA; Kumar, R; Almas, T; Sandal, P; Al-Assiri, MS; Mahnashi, MH; AlFarhan, BZ; Baskoutas, S	Fern shaped La ₂ O ₃ nanostructures as potential scaffold for efficient hydroquinone chemical sensing application	CERAMICS INTERNATIONAL	46	4	5141	5148		2020
80	Sharma, S; Ibhaddon, AO; Francesconi, MG; Mehta, SK; Elumalai, S; Kansal, SK; Umar, A; Baskoutas, S	Bi ₂ WO ₆ /C-Dots/TiO ₂ : A Novel Z-Scheme Photocatalyst for the Degradation of Fluoroquinolone Levofloxacin from Aqueous Medium	NANOMATERIALS	10	5			910	2020
81	Steinbauer, P; Rohatschek, A; Andriotis, O; Bouropoulos, N; Liska, R; Thurner, PJ; Baudis, S	Single-Molecule Force Spectroscopy Reveals Adhesion-by-Demand in Statherin at the Protein-Hydroxyapatite Interface	LANGMUIR	36	44	13292	13300		2020
82	Fischer, G; Zubizarreta, X; Marmodoro, A; Hoffmann, M; Buczek, P; Buczek, N; Dane, M; Hergert, W; Sasioglu, E; Galanakis, I; Ernst, A	Effect of correlation and disorder on the spin-wave spectra of Pd ₂ MnSn, Ni ₂ MnSn, and Cu ₂ MnAl Hensler alloys: A first-principles study	PHYSICAL REVIEW MATERIALS	4	6			64405	2020
83	Paulraj, P; Umar, A; Rajendran, K; Manikandan, A; Kumar, R; Manikandan, E; Pandian, K; Mahnashi, MH; Alsaiani, MA; Ibrahim, AA; Bouropoulos, N; Baskoutas, S	Solid-state synthesis of Ag-doped PANI nanocomposites for their end-use as an electrochemical sensor for hydrogen peroxide and dopamine	ELECTROCHIMICA ACTA	363				137158	2020

84	Giannopoulos, GI	Introducing bone-shaped carbon nanotubes to reinforce polymer nanocomposites: A molecular dynamics investigation	MATERIALS TODAY COMMUNICATIONS	20				100570	2019
85	Giannopoulos, GI	Linking MD and FEM to predict the mechanical behaviour of fullerene reinforced nylon-12	COMPOSITES PART B-ENGINEERING	161		455	463		2019
86	Psiachos, D; Sigalas, MM	Tailoring one-dimensional layered metamaterials to achieve unidirectional transmission and reflection	PHYSICAL REVIEW B	99	18			184110	2019
87	Ioannidis, LA; Nikolaou, P; Panagiotopoulos, A; Vassi, A; Topoglidis, E	Microperoxidase-11 modified mesoporous SnO ₂ film electrodes for the detection of antimalarial drug artemisinin	ANALYTICAL METHODS	11	24	3117	3125		2019
88	Georgitsopoulou, S; Petrai, O; Georgakilas, V	Highly conductive functionalized reduced graphene oxide	SURFACES AND INTERFACES	16		152	156		2019
89	Tsaousidou, M	Enhanced Phonon-Drag Thermopower of Ballistic Semiconducting Single-Walled Carbon Nanotubes Near the Second Subband Edge	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	256	6			1800757	2019
90	Karantagli, E; Sigalas, MM; Garoufalas, CS	Exotic nanoparticles of group IV monochalcogenides	SOLID STATE COMMUNICATIONS	295		38	42		2019
91	Kosionis, SG; Paspalakis, E	Control of Self-Kerr Nonlinearity in a Driven Coupled Semiconductor Quantum Dot-Metal Nanoparticle Structure	JOURNAL OF PHYSICAL CHEMISTRY C	123	12	7308	7317		2019

92	Paspalakis, E; Stefanatos, D	Comment on Study on the optical rectification and second-harmonic generation with position-dependent mass in a quantum well [Journal of Physics and Chemistry of Solids, 119 (2018) 50-55]	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	126		178	179		2019
93	Manika, GC; Psarras, GC	Development, dielectric response and functionality of SrTiO ₃ /epoxy nanocomposites	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	30	14	13740	13748		2019
94	Mourkioti, G; Georgiou, PD; Kamalakis, T; Alexandropoulos, D	Slow light in quantum dot vertical cavity semiconductor optical amplifiers	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	34	6			64004	2019
95	Manika, GC; Psarras, GC	Barium titanate/epoxy resin composite nanodielectrics as compact capacitive energy storing systems	EXPRESS POLYMER LETTERS	13	8	749	758		2019
96	Angelopoulou, P; Avgouropoulos, G	Effect of electrode loading on the electrochemical performance of LiAl _{0.1} Mn _{1.9} O ₄ cathode for lithium-ion batteries	MATERIALS RESEARCH BULLETIN	119				110562	2019
97	Koutsioukis, A; Belessi, V; Georgakilas, V	Fluorescent Carbon Dots Ink for Gravure Printing	C-JOURNAL OF CARBON RESEARCH	5	1			12	2019
98	Anyfantis, DI; Sarigiannidou, E; Rapenne, L; Stamatelatos, A; Ntemogiannis, D; Kapaklis, V; Pouloupoulos, P	Unexpected Development of Perpendicular Magnetic Anisotropy in Ni/NiO Multilayers After Mild Thermal Annealing	IEEE MAGNETICS LETTERS	10				6104105	2019
99	Thanopoulos, I; Karanikolas, V; Paspalakis, E	Non-Markovian spontaneous emission interference near a MoS ₂ nanodisk	OPTICS LETTERS	44	14	3510	3513		2019

100	Stefanatos, D; Paspalakis, E	Efficient generation of the triplet Bell state between coupled spins using transitionless quantum driving and optimal control	PHYSICAL REVIEW A	99	2			22327	2019
101	Sgouros, AP; Konstantopoulou, A; Kalosakas, G; Sigalas, MM	Temperature profiles and thermal conductivities of nanostructured transition metal dichalcogenides	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	140		579	586		2019
102	Stefanatos, D; Paspalakis, E	Resonant shortcuts for adiabatic rapid passage with only z-field control	PHYSICAL REVIEW A	100	1			12111	2019
103	Paspalakis, E; Stefanatos, D	Research on third-harmonic generation with position-dependent mass in a quantum well: comment	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS	36	4	837	839		2019
104	Stefanatos, D; Paspalakis, E	Relaxation dynamics in a stochastic bosonic Josephson junction	PHYSICS LETTERS A	383	20	2370	2375		2019
105	Karoutsos, V; Raptis, P; Bagiokis, E; Lorusso, A; Perrone, A; Vainos, NA	High optical quality cellulose thin films grown from raw natural cotton by pulsed laser deposition	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	125	4			268	2019
106	Chronis, AG; Sigalas, MM; Koukaras, EN	Absorption spectrum of magnesium and aluminum hydride nanoparticles	MATERIALS CHEMISTRY AND PHYSICS	228		244	253		2019
107	Nikolaou, P; Vareli, I; Deskoulidis, E; Matsoukas, J; Vassilakopoulou, A; Koutselas, I; Topoglidis, E	Graphite/SiO ₂ film electrode modified with hybrid organic-inorganic perovskites: Synthesis, optical, electrochemical properties and application in electrochemical sensing of losartan	JOURNAL OF SOLID STATE CHEMISTRY	273		17	24		2019
108	Papavasiliou, J; Schutt, C; Kolb, G; Neophytides, S; Avgouropoulos, G	Technological aspects of an auxiliary power unit with internal reforming methanol fuel cell	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	44	25	12818	12828		2019

109	Kappis, K; Papadopoulos, C; Papavasiliou, J; Vakros, J; Georgiou, Y; Deligiannakis, Y; Avgouropoulos, G	Tuning the Catalytic Properties of Copper-Promoted Nanoceria via a Hydrothermal Method	CATALYSTS	9	2			138	2019
110	Kappis, K; Papavasiliou, J	Influence of the Hydrothermal Parameters on the Physicochemical Characteristics of Cu-Ce Oxide Nanostructures	CHEMCATCHEM	11	19	4765	4776		2019
111	Karanikolas, V; Tozman, P; Paspalakis, E	Light-matter interaction of a quantum emitter near a half-space graphene nanostructure	PHYSICAL REVIEW B	100	24			245403	2019
112	Karanikolas, V; Thanopulos, I; Paspalakis, E	Strong interaction of quantum emitters with a WS ₂ layer enhanced by a gold substrate	OPTICS LETTERS	44	8	2049	2052		2019
113	Koufakis, E; Mathioudakis, GN; Patsidis, AC; Psarras, GC	ZnTiO ₃ /epoxy resin nanocomposites: Development, dielectric behaviour and functionality	POLYMER TESTING	77				105870	2019
114	Sanida, A; Stavropoulos, SG; Speliotis, T; Psarras, GC	Investigating the Effect of Zn Ferrite Nanoparticles on the Thermomechanical, Dielectric and Magnetic Properties of Polymer Nanocomposites	MATERIALS	12	18			3015	2019
115	Domenikou, N; Iliopoulos, N; Terzis, AF; Yannopapas, V; Paspalakis, E	Preservation of entanglement and quantum correlations next to periodic plasmonic nanostructures	QUANTUM INFORMATION PROCESSING	18	12			362	2019
116	Stamatelatos, A; Pouloupoulos, P; Goschew, A; Fumagalli, P; Sarigiannidou, E; Rapenne, L; Opagiste, C; Grammatikopoulos, S; Wilhelm, F; Rogalev, A	Paramagnetic gold in a highly disordered Au-Ni-O alloy	SCIENTIFIC REPORTS	9				13137	2019
117	Iliopoulos, N; Thanopulos, I; Yannopapas, V; Paspalakis, E	Quantum correlations in quantum emitters strongly coupled with metallic nanoparticles	QUANTUM INFORMATION PROCESSING	18	4			110	2019

118	Dimitrakellis, P; Patsidis, AC; Smyrnakis, A; Psarras, GC; Gogolides, E	Atmospheric Plasma Nanotexturing of Organic-Inorganic Nanocomposite Coatings for Multifunctional Surface Fabrication	ACS APPLIED NANO MATERIALS	2	5	2969	2978		2019
119	Giannopoulos, GI; Georgantzinis, SK; Tsiamakia, A; Anifantis, N	Combining FEM and MD to simulate C-60/PA-12 nanocomposites	INTERNATIONAL JOURNAL OF STRUCTURAL INTEGRITY	10	3	380	392		2019
120	Paspalakis, E; Economou, SE; Carreno, F	Adiabatically preparing quantum dot spin states in the Voigt geometry	JOURNAL OF APPLIED PHYSICS	125	2			24305	2019
121	Dogkas, L; Kamalakis, T; Alexandropoulos, D	Engineering the spectral properties of Fano-type resonances in active racetrack-waveguide coupled structures	OPTICS COMMUNICATIONS	450		39	47		2019
122	Chronis, AG; Stamatelatos, A; Grammatikopoulos, S; Sigalas, MM; Karoutsos, V; Maratos, DM; Lysandrou, SP; Trachylis, D; Politis, C; Pouloupoulos, P	Microstructure and plasmonic behavior of self-assembled silver nanoparticles and nanorings	JOURNAL OF APPLIED PHYSICS	125	2			23106	2019
123	Gac, W; Zawadzki, W; Greluk, M; Slowik, G; Machocki, A; Papavasiliou, J; Avgouropoulos, G	Investigation of the Inhibiting Role of Hydrogen in the Steam Reforming of Methanol	CHEMCATCHEM	11	14	3264	3278		2019
124	Cao, YR; Fang, YZ; Zhang, GH; Zhao, GY; Liu, YF; Zou, J; Vainos, N; Hou, JS	High quantum yield red-emission phosphor Li ₂ Ge ₄ O ₉ :Mn ⁴⁺ for WLEDs application	OPTICAL MATERIALS	98				109442	2019
125	Belessi, V; Petridis, D; Steriotis, T; Spyrou, K; Manolis, GK; Psycharis, V; Georgakilas, V	Simultaneous reduction and surface functionalization of graphene oxide for highly conductive and water dispersible graphene derivatives	SN APPLIED SCIENCES	1	1			77	2019
126	Hamedi, HR; Ruseckas, J; Paspalakis, E; Juzeliunas, G	Transfer of optical vortices in coherently prepared media	PHYSICAL REVIEW A	99	3			33812	2019

127	Hamedi, HR; Paspalakis, E; Zlabys, G; Juzeliunas, G; Ruseckas, J	Complete energy conversion between light beams carrying orbital angular momentum using coherent population trapping for a coherently driven double-Lambda atom-light-coupling scheme	PHYSICAL REVIEW A	100	2			23811	2019
128	Konstantopoulou, A; Aravantinos-Zafiris, N; Sigalas, MM	Wide Phononic Band Gaps in the Yablouovite Structure with Spheres	ACTA ACUSTICA UNITED WITH ACUSTICA	105	2	326	333		2019
129	Papagiannis, I; Doukas, E; Kalarakis, A; Avgouropoulos, G; Lianos, P	Photoelectrocatalytic H-2 and H2O2 Production Using Visible-Light-Absorbing Photoanodes	CATALYSTS	9	3			243	2019
130	Souliotis, M; Garoufalas, CS; Vouros, AP; Kavga, A	Optical study of twin-tanked ICS solar heaters combined with asymmetrical CPC-type reflectors	INTERNATIONAL JOURNAL OF ENERGY RESEARCH	43	2	884	895		2019
131	Garoufalas, CS; Zeng, Z; Bester, G; Hayrapetyan, DB; Baskoutas, S	Optical properties of zig-zag and armchair ZnO colloidal nanoribbons	CHEMICAL PHYSICS LETTERS	732				136659	2019
132	Kanidi, M; Papagiannopoulos, A; Skandalis, A; Kandyla, M; Pispas, S	Thin films of PS/PS-b-pnipam and ps/pnipam polymer blends with tunable wettability	JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS	57	11	670	679		2019
133	Fang, YZ; Tian, XP; Liu, JH; Zhang, Y; Liu, YF; Zhao, GY; Zou, J; Vainos, N; Hou, JS	Tri-chromatic Emission from a Single-phase Na5Y4(SiO4)(4)F:Eu2+,Tb3+,Eu3+ Phosphor for White-light-emitting Diodes	JOURNAL OF LUMINESCENCE	207		34	40		2019
134	Hayrapetyan, DB; Bleyan, YY; Baghdasaryan, DA; Sarkisyan, HA; Baskoutas, S; Kazaryan, EM	Biexciton, negative and positive trions in strongly oblate ellipsoidal quantum dot	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	105		47	55		2019

135	Trompeta, AFA; Koumoulos, EP; Stavropoulos, SG; Velmachos, TG; Psarras, GC; Charitidis, CA	Assessing the Critical Multifunctionality Threshold for Optimal Electrical, Thermal, and Nanomechanical Properties of Carbon Nanotubes/Epoxy Nanocomposites for Aerospace Applications	AEROSPACE	6	1			7	2019
136	Hillebrand, M; Kalosakas, G; Schwellnus, A; Skokos, C	Heterogeneity and chaos in the Peyrard-Bishop-Dauxois DNA model	PHYSICAL REVIEW E	99	2			22213	2019
137	Kaltzoglou, A; Manolis, GK; Elsenety, MM; Koutselas, I; Psycharis, V; Kontos, AG; Falaras, P	Synthesis and Characterization of Lead-Free (CH ₃) ₃ SSnI ₃ 1-D Perovskite	JOURNAL OF ELECTRONIC MATERIALS	48	11				2019
138	Tsonos, C; Zois, H; Kanapitsas, A; Soin, N; Siores, E; Peppas, GD; Pyrgioti, EC; Sanida, A; Stavropoulos, SG; Psarras, GC	Polyvinylidene fluoride/magnetite nanocomposites: Dielectric and thermal response	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	129		378	386		2019
139	Thanopoulos, I; Karanikolas, V; Iliopoulos, N; Paspalakis, E	Non-Markovian spontaneous emission dynamics of a quantum emitter near a MoS ₂ nanodisk	PHYSICAL REVIEW B	99	19			195412	2019
140	Drakopoulos, SX; Karger-Kocsis, J; Psarras, GC	In Situ Thermodielectric Analysis of the Gelatinization Mechanism of Raw Maize Starch: An Experimental and Theoretical Approach	JOURNAL OF POLYMERS AND THE ENVIRONMENT	27	2	333	342		2019
141	Portan, DV; Deligianni, DD; Papanicolaou, GC; Kostopoulos, V; Psarras, GC; Tyllianakis, M	Combined Optimized Effect of a Highly Self-Organized Nanosubstrate and an Electric Field on Osteoblast Bone Cells Activity	BIOMED RESEARCH INTERNATIONAL	2019				7574635	2019

142	Asimakopoulos, IA; Psarras, GC; Zoumpoulakis, L	Nanocomposites of Barium Titanate Nanoparticles Embedded in Thermosetting Polymer Matrices (Novolac Resin/Unsaturated Polyesters/Epoxy Resin): A Comparative Study	CHEMENGINEERING	3	1			12	2019
143	Palaiodimopoulos, NE; Brouzos, I; Georgoulea, N; Diakonou, FK; Kalozoumis, PA	Open and closed spin chains as multiprocessor wires: Optimal engineering and reachability	PHYSICAL REVIEW A	99	2			22331	2019
144	Broitman, E; Lorusso, A; Perrone, A; Karoutsos, V; Vainos, NA; Gontad, F	Nanomechanical and microtribological properties of yttrium thin films for photocathode engineering	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	37	3			31507	2019
145	Umar, A; Ibrahim, AA; Kumar, R; Almas, T; Al-Assiri, MS; Baskoutas, S	Nitroaniline chemi-sensor based on bitter melon shaped yttrium oxide (Yb ₂ O ₃) doped zinc oxide (ZnO) nanostructures	CERAMICS INTERNATIONAL	45	11	13825	13831		2019
146	Ozdogan, K; Maznichenko, IV; Ostanin, S; Sasioglu, E; Ernst, A; Mertig, I; Galanakis, I	High spin polarization in all-3d-metallic Heusler compounds: the case of Fe(2)CrZ and Co(2)CrZ (Z = Sc, Ti, V)	JOURNAL OF PHYSICS D-APPLIED PHYSICS	52	20			205003	2019
147	Chalmpes, N; Kouloumpis, A; Zygouri, P; Karouta, N; Spyrou, K; Stathi, P; Tsoufis, T; Georgakilas, V; Gournis, D; Rudolf, P	Layer-by-Layer Assembly of Clay-Carbon Nanotube Hybrid Superstructures	ACS OMEGA	4	19	18100	18107		2019
148	Kontogiannidou, E; Karavasili, C; Kouskoura, MG; Filippousi, M; Van Tendeloo, G; Andreadis, I; Eleftheriadis, GK; Kontopoulou, I; Markopoulou, CK; Bouropoulos, N; Fatouros, DG	In vitro and ex vivo assessment of microporous Faujasite zeolite (NaX-FAU) as a carrier for the oral delivery of danazol	JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY	51		177	184		2019
149	Carreno, F; Yannopoulos, V; Anton, MA; Paspalakis, E	Photon statistics of a quantum emitter close to a lattice of plasmonic nanoparticles	PHYSICAL REVIEW A	100	2			23802	2019

150	Angelopoulou, A; Kolokithas-Ntoukas, A; Fytas, C; Avgoustakis, K	Folic Acid-Functionalized, Condensed Magnetic Nanoparticles for Targeted Delivery of Doxorubicin to Tumor Cancer Cells Overexpressing the Folate Receptor	ACS OMEGA	4	26	22214	22227		2019
151	Eleftheriadis, GK; Ritzoulis, C; Bouropoulos, N; Tzetzis, D; Andreadis, DA; Boetker, J; Rantanen, J; Fatouros, DG	Unidirectional drug release from 3D printed mucoadhesive buccal films using FDM technology: In vitro and ex vivo evaluation	EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS	144		180	192		2019
152	Orphanos, Y; Kosma, K; Kaselouris, E; Vainos, N; Dimitriou, V; Bakarezos, M; Tatarakis, M; Papadogiannis, NA	Integrated nanosecond laser full-field imaging for femtosecond laser-generated surface acoustic waves in metal film-glass substrate multilayer materials	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	125	4			269	2019
153	Umar, A; Akhtar, MS; Almas, T; Ibrahim, AA; Al-Assiri, MS; Masuda, Y; Rahman, QI; Baskoutas, S	Direct Growth of Flower-Shaped ZnO Nanostructures on FTO Substrate for Dye-Sensitized Solar Cells	CRYSTALS	9	8			405	2019
154	Aull, T; Sasioglu, E; Maznichenko, IV; Ostanin, S; Ernst, A; Mertig, I; Galanakis, I	Ab initio design of quaternary Hensler compounds for reconfigurable magnetic tunnel diodes and transistors	PHYSICAL REVIEW MATERIALS	3	12			124415	2019
155	Ma, XY; Min, JJ; Zeng, ZP; Garoufalis, CS; Baskoutas, S; Jia, Y; Du, ZL	Excitons in InP, GaP, and GaIn _{1-x} P quantum dots: Insights from time-dependent density functional theory	PHYSICAL REVIEW B	100	24			245404	2019
156	Kanidi, M; Dagkli, A; Kelaidis, N; Palles, D; Aminalragia-Giamini, S; Marquez-Velasco, J; Colli, A; Dimoulas, A; Lidorikis, E; Kandyla, M; Kamitsos, EI	Surface-Enhanced Raman Spectroscopy of Graphene Integrated in Plasmonic Silicon Platforms with Three-Dimensional Nanotopography	JOURNAL OF PHYSICAL CHEMISTRY C	123	5	3076	3087		2019

157	Kontogiannidou, E; Ferrari, M; Deligianni, AD; Bouropoulos, N; Andreadis, DA; Sorrenti, M; Catenacci, L; Nazari, K; Arshad, MS; Chang, MW; Ahmad, Z; Fatouros, DG	In Vitro and Ex Vivo Evaluation of Tablets Containing Piroxicam-Cyclodextrin Complexes for Buccal Delivery	PHARMACEUTICS	11	8			398	2019
158	Giannopoulos, GI	On the buckling of hexagonal boron nitride nanoribbons via structural mechanics	SUPERLATTICES AND MICROSTRUCTURES	115		1	9		2018
159	Vanakaras, AG; Photinos, DJ	Molecular dynamics simulations of nematic phases formed by cyano-biphenyl dimers	LIQUID CRYSTALS	45	13-15	2184	2196		2018
160	Stefanatos, D; Paspalakis, E	Maximizing entanglement in bosonic Josephson junctions using shortcuts to adiabaticity and optimal control	NEW JOURNAL OF PHYSICS	20				55009	2018
161	Psiachos, D; Sigalas, MM	Acoustic response in a one-dimensional layered pseudo-Hermitian metamaterial containing defects	JOURNAL OF APPLIED PHYSICS	123	24			245109	2018
162	Katsiaounis, S; Tiflidis, C; Tsekoura, C; Topoglidis, E	Electrochemical and spectroelectrochemical characterization of different mesoporous TiO ₂ film electrodes for the immobilization of Cytochrome c	FRONTIERS OF MATERIALS SCIENCE	12	1	64	73		2018
163	Baskoutas, S	Special Issue: Zinc Oxide Nanostructures: Synthesis and Characterization	MATERIALS	11	6			873	2018
164	Psarras, GC	A 'backstage force': magnetic properties of polymer composites	EXPRESS POLYMER LETTERS	12	9	767	767		2018
165	Michos, FI; Sigalas, MM	Computational study of the absorption spectrum of defected ZnS nanoparticles	JOURNAL OF APPLIED PHYSICS	123	16			161587	2018

166	Karanikolas, V; Paspalakis, E	Plasmon-Induced Quantum Interference near Carbon Nanostructures	JOURNAL OF PHYSICAL CHEMISTRY C	122	26	14788	14795		2018
167	Bekiari, V; Karakassides, A; Georgitsopoulou, S; Kouloumpis, A; Gournis, D; Georgakilas, V	Self-assembly of one-side-functionalized graphene nanosheets in bilayered superstructures for drug delivery	JOURNAL OF MATERIALS SCIENCE	53	16	11167	11175		2018
168	Garoufalis, CS; Barnasas, A; Stamatelatos, A; Karoutsos, V; Grammatikopoulos, S; Pouloupoulos, P; Baskoutas, S	A Study of Quantum Confinement Effects in Ultrathin NiO Films Performed by Experiment and Theory	MATERIALS	11	6			949	2018
169	Vrettos, K; Karouta, N; Loginos, P; Donthula, S; Gournis, D; Georgakilas, V	The Role of Diamines in the Formation of Graphene Aerogels	FRONTIERS IN MATERIALS	5				20	2018
170	Georgitsopoulou, S; Karakassides, A; Georgakilas, V	Interfacial Asymmetric Post-Functionalization of Graphene: Amphiphilic Graphene Derivatives Self-Assembled to 3D Superstructures	CHEMISTRY-A EUROPEAN JOURNAL	24	65	17356	17360		2018
171	Panagiotopoulos, A; Gkouma, A; Vassi, A; Johnson, CJ; Cass, AEG; Topoglidis, E	Hemin Modified SnO ₂ Films on ITO-PET with Enhanced Activity for Electrochemical Sensing	ELECTROANALYSIS	30	9	1956	1964		2018
172	Koutsioukis, A; Akouros, A; Zboril, R; Georgakilas, V	Solid phase extraction for the purification of violet, blue, green and yellow emitting carbon dots	NANOSCALE	10	24	11293	11296		2018
173	Samourgkanidis, G; Nikolaou, P; Gkovosdis-Louvaris, A; Sakellis, E; Blana, IM; Topoglidis, E	Hemin-Modified SnO ₂ /Metglas Electrodes for the Simultaneous Electrochemical and Magnetoelastic Sensing of H ₂ O ₂	COATINGS	8	8			284	2018
174	Kosionis, SG	Four-wave mixing in an asymmetric double quantum dot molecule	SUPERLATTICES AND MICROSTRUCTURES	118		152	159		2018

175	Stefanatos, D; Paspalakis, E	Boosting entanglement between exciton-polaritons with on-off switching of Josephson coupling	PHYSICAL REVIEW B	98	3			35303	2018
176	Kosionis, SG; Paspalakis, E	Pump-probe optical response of semiconductor quantum dot-metal nanoparticle hybrids	JOURNAL OF APPLIED PHYSICS	124	22			223104	2018
177	Nikolaou, P; Vassilakopoulou, A; Papadatos, D; Topoglidis, E; Koutselas, I	A chemical sensor for CBr4 based on quasi-2D and 3D hybrid organic-inorganic perovskites immobilized on TiO2 films	MATERIALS CHEMISTRY FRONTIERS	2	4	730	740		2018
178	Koliogiorgos, A; Garoufalos, CS; Galanakis, I; Baskoutas, S	Electronic and Optical Properties of Ultrasmall ABX(3) (A = Cs, CH3NH3/B = Ge, Pb, Sn, Ca, Sr/X = Cl, Br, I) Perovskite Quantum Dots	ACS OMEGA	3	12	18917	18924		2018
179	Stefanatos, D; Paspalakis, E	Efficient entanglement generation between exciton-polaritons using shortcuts to adiabaticity	OPTICS LETTERS	43	14	3313	3316		2018
180	Moschou, G; Koliogiorgos, A; Galanakis, I	Electronic Properties of Cs-Based Halide Perovskites: An Ab Initio Study	PHYSICA STATUS SOLIDI A- APPLICATIONS AND MATERIALS SCIENCE	215	17			1700941	2018
181	Topoglidis, E; Kolozoff, PA; Tiflidis, C; Papavasiliou, J; Sakellis, E	Adsorption and electrochemical behavior of Cyt-c on carbon nanotubes/TiO2 nanocomposite films fabricated at various annealing temperatures	COLLOID AND POLYMER SCIENCE	296	8	1353	1364		2018
182	Koliogiorgos, A; Baskoutas, S; Galanakis, I	Electronic and gap properties of Sb and Bi based halide perovskites: An abinitio study	COMPUTATIONAL CONDENSED MATTER	14		161	166		2018

183	Yannopapas, V; Paspalakis, E	Electrodynamic multiple-scattering method for the simulation of optical trapping atop periodic metamaterials	JOURNAL OF MODERN OPTICS	65	13	1507	1514		2018
184	Papavasiliou, J; Vakros, J; Avgouropoulos, G	Impact of acid treatment of CuO-CeO ₂ catalysts on the preferential oxidation of CO reaction	CATALYSIS COMMUNICATIONS	115		68	72		2018
185	Papavasiliou, J; Rawski, M; Vakros, J; Avgouropoulos, G	A Novel Post-Synthesis Modification of CuO-CeO ₂ Catalysts: Effect on Their Activity for Selective CO Oxidation	CHEMCATCHEM	10	9	2096	2106		2018
186	Carreno, F; Anton, MA; Paspalakis, E	Nonlinear optical rectification and optical bistability in a coupled asymmetric quantum dot-metal nanoparticle hybrid	JOURNAL OF APPLIED PHYSICS	124	11			113107	2018
187	Doukas, E; Balta, P; Raptis, D; Avgouropoulos, G; Lianos, P	A Realistic Approach for Photoelectrochemical Hydrogen Production	MATERIALS	11	8			1269	2018
188	Stamatelatos, A; Sousanis, A; Chronis, AG; Sigalas, MM; Grammatikopoulos, S; Pouloupoulos, P	Analysis of localized surface plasmon resonances in gold nanoparticles surrounded by copper oxides	JOURNAL OF APPLIED PHYSICS	123	8			83103	2018
189	Vassilakopoulou, A; Papadatos, D; Koutselas, I	Polystyrene based perovskite light emitting diode	APPLIED MATERIALS TODAY	12		15	20		2018
190	Vareli, I; Vassilakopoulou, A; Koutselas, I	Defect Variants Based on the 2D Hybrid Organic-Inorganic Low-Dimensional Semiconductor (4-Fluoro-phenethylamine-H)(₂)PbBr ₄ for Fabrication of Single-Layer Deep Blue LEDs	ACS APPLIED NANO MATERIALS	1	5	2129	2142		2018
191	Sanida, A; Stavropoulos, S; Speliotis, T; Psarras, GC	Magneto-Dielectric Behaviour of M-Type Hexaferrite/Polymer Nanocomposites	MATERIALS	11	12			2551	2018

192	Iliopoulos, N; Thanopoulos, I; Yannopapas, V; Paspalakis, E	Counter-rotating effects and entanglement dynamics in strongly coupled quantum-emitter-metallic-nanoparticle structures	PHYSICAL REVIEW B	97	11			115402	2018
193	Papavasiliou, J; Slowik, G; Avgouropoulos, G	Redox Behavior of a Copper-Based Methanol Reformer for Fuel Cell Applications	ENERGY TECHNOLOGY	6	7	1332	1341		2018
194	Eleftheriadis, GK; Monou, PK; Bouropoulos, N; Fatouros, DG	In Vitro Evaluation of 2D-Printed Edible Films for the Buccal Delivery of Diclofenac Sodium	MATERIALS	11	5			864	2018
195	Papavasiliou, J; Paxinou, A; Slowik, G; Neophytides, S; Avgouropoulos, G	Steam Reforming of Methanol over Nanostructured Pt/TiO ₂ and Pt/CeO ₂ Catalysts for Fuel Cell Applications	CATALYSTS	8	11			544	2018
196	Dogkas, L; Kamalakis, T; Alexandropoulos, D	Analytical model for active racetrack resonators with intracavity reflections and its application in Fano resonance tailoring	APPLIED OPTICS	57	17	4824	4831		2018
197	Papagiannis, I; Koutsikou, G; Frontistis, Z; Konstantinou, I; Avgouropoulos, G; Mantzavinos, D; Lianos, P	Photoelectrocatalytic vs. Photocatalytic Degradation of Organic Water Born Pollutants	CATALYSTS	8	10			455	2018
198	Drakopoulos, SX; Psarras, GC; Forte, G; Martin-Fabiani, I; Ronca, S	Entanglement dynamics in ultra-high molecular weight polyethylene as revealed by dielectric spectroscopy	POLYMER	150		35	43		2018
199	Hillebrand, M; Paterson-Jones, G; Kalosakas, G; Skokos, C	Distribution of Base Pair Alternations in a Periodic DNA Chain: Application of Polya Counting to a Physical System	REGULAR & CHAOTIC DYNAMICS	23	2	135	151		2018
200	Karamolegou, F; Dasenaki, M; Belessi, V; Georgakilas, V; Thomaidis, N	Multi-Residue Determination of 7 beta-Agonists in Liver and Meat Using Gas Chromatography-Mass Spectrometry	FOOD ANALYTICAL METHODS	11	10	2925	2942		2018

201	Antonelou, A; Sygellou, L; Vrettos, K; Georgakilas, V; Yannopoulos, SN	Efficient defect healing and ultralow sheet resistance of laser-assisted reduced graphene oxide at ambient conditions	CARBON	139		492	499		2018
202	Syrrokostas, G; Antonelou, A; Leftheriotis, G; Yannopoulos, SN	Electrochemical properties and long-term stability of molybdenum disulfide and platinum counter electrodes for solar cells: A comparative study	ELECTROCHIMICA ACTA	267		110	121		2018
203	Sgouros, AP; Kalosakas, G; Papagelis, K; Galiotis, C	Compressive response and buckling of graphene nanoribbons	SCIENTIFIC REPORTS	8				9593	2018
204	Kanellou, A; Anyfantis, GC; Chriti, D; Raptopoulos, G; Pitsikalis, M; Paraskevopoulou, P	Poly(urethane-norbornene) Aerogels via Ring Opening Metathesis Polymerization of Dendritic Urethane-Norbornene Monomers: Structure-Property Relationships as a Function of an Aliphatic Versus an Aromatic Core and the Number of Peripheral Norbornene Moieties	MOLECULES	23	5			1007	2018
205	Angelopoulou, A; Voulgari, E; Kolokithas-Ntoukas, A; Bakandritsos, A; Avgoustakis, K	Magnetic Nanoparticles for the Delivery of Dapagliflozin to Hypoxic Tumors: Physicochemical Characterization and Cell Studies	AAPS PHARMSCITECH	19	2	621	633		2018
206	Yannopapas, V; Paspalakis, E	Optical properties of hybrid spherical nanoclusters containing quantum emitters and metallic nanoparticles	PHYSICAL REVIEW B	97	20			205433	2018

207	Andrikaki, S; Govatsi, K; Yannopoulos, SN; Voyiatzis, GA; Andrikopoulos, KS	Thermal dewetting tunes surface enhanced resonance Raman scattering (SERRS) performance	RSC ADVANCES	8	51	29062	29070		2018
208	Benmakhlouf, A; Bourourou, Y; Bouhemadou, A; Bentabet, A; Khemloul, F; Maabed, S; Bouchenafa, M; Galanakis, I	Structural, electronic and magnetic properties of the manganese telluride layers AMnTe ₂ (A = K, Rb, Cs) from first-principles calculations	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	465		430	436		2018
209	Angelopoulou, A; Efthimiadou, EK; Kordas, G	Synthesis of novel quaternary silica hybrid bioactive microspheres	JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS	106	1	112	120		2018
210	Ibrahim, AA; Sodki, EM; Umar, A; Amine, A; Kumar, R; Al-Assiri, MS; Al-Salami, AE; Baskoutas, S	Highly sensitive and selective non-enzymatic monosaccharide and disaccharide sugar sensing based on carbon paste electrodes modified with perforated NiO nanosheets	NEW JOURNAL OF CHEMISTRY	42	2	964	973		2018
211	Eleftheriadis, GK; Akrivou, M; Bouropoulos, N; Tsibouklis, J; Vizirianakis, IS; Fatouros, DG	Polymer-Lipid Microparticles for Pulmonary Delivery	LANGMUIR	34	11	3438	3448		2018
212	Elsenety, MM; Kaltzoglou, A; Antoniadou, M; Koutselas, I; Kontos, AG; Falaras, P	Synthesis, characterization and use of highly stable trimethyl sulfonium tin(IV) halide defect perovskites in dye sensitized solar cells	POLYHEDRON	150		83	91		2018
213	Gioumouxouzis, CI; Chatzitaki, AT; Karavasili, C; Katsamenis, OL; Tzetzis, D; Mystiridou, E; Bouropoulos, N; Fatouros, DG	Controlled Release of 5-Fluorouracil from Alginate Beads Encapsulated in 3D Printed pH-Responsive Solid Dosage Forms	AAPS PHARMSCITECH	19	8	3362	3375		2018

214	Pippa, N; Sentoukas, T; Pispas, S; Demetzos, C; Papalois, A; Bouropoulos, N	pH-responsive polymeric nanoassemblies encapsulated into alginate beads: morphological characterization and swelling studies	JOURNAL OF POLYMER RESEARCH	25	5			117	2018
215	Chatzidakis, GD; Kalosakas, G; Fthenakis, ZG; Lathiotakis, NN	A torsional potential for graphene derived from fitting to DFT results	EUROPEAN PHYSICAL JOURNAL B	91	1			11	2018
216	Skandalis, A; Sergides, A; Bakandritsos, A; Pispas, S	PLMA-b-POEGMA Amphiphilic Block Copolymers as Nanocarriers for the Encapsulation of Magnetic Nanoparticles and Indomethacin	POLYMERS	10	1			14	2018
217	Hayrapetyan, DB; Ohanyan, GL; Baghdasaryan, DA; Sarkisyan, HA; Baskoutas, S; Kazaryan, EM	Binding energy and photoionization cross-section of hydrogen-like donor impurity in strongly oblate ellipsoidal quantum dot	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	95		27	31		2018
218	Gioumouxouzis, CI; Baklavaridis, A; Katsamenis, OL; Markopoulou, CK; Bouropoulos, N; Tzetzis, D; Fatouros, DG	A 3D printed bilayer oral solid dosage form combining metformin for prolonged and glimepiride for immediate drug delivery	EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES	120		40	52		2018
219	Chaudhary, S; Umar, A; Bhasin, KK; Baskoutas, S	Chemical Sensing Applications of ZnO Nanomaterials	MATERIALS	11	2			287	2018
220	Kaltzoglou, A; Elsenety, MM; Koutselas, I; Kontos, AG; Papadopoulos, K; Psycharis, V; Raptopoulou, CP; Perganti, D; Stergiopoulos, T; Falaras, P	Synthesis, characterization and optoelectronic properties of chemically stable (CH ₃) ₃ SPbI ₃ -xBr _x and (CH ₃) ₃ SPbI ₃ -xCl _x (x=0, 1, 2, 3) perovskites	POLYHEDRON	140		67	73		2018

221	Verykios, A; Papadakis, M; Soultati, A; Skoulikidou, MC; Papaioannou, G; Gardelis, S; Petsalakis, ID; Theodorakopoulos, G; Petropoulos, V; Palilis, LC; Fakis, M; Vainos, NA; Alexandropoulos, D; Davazoglou, D; Pistolis, G; Argitis, P; Coutsolelos, AG; Vasilopoulou, M	Functionalized Zinc Porphyrins with Various Peripheral Groups for Interfacial Electron Injection Barrier Control in Organic Light Emitting Diodes	ACS OMEGA	3	8	10008	10018		2018
222	Angelopoulou, A; Kolokithas-Ntoukas, A; Papaioannou, L; Kakazanis, Z; Khoury, N; Zoumpourlis, V; Papatheodorou, S; Kardamakis, D; Bakandritsos, A; Hatziantoniou, S; Avgoustakis, K	Canagliflozin-loaded magnetic nanoparticles as potential treatment of hypoxic tumors in combination with radiotherapy	NANOMEDICINE	13	19	2435	2454		2018
223	Zhou, Q; Umar, A; Sodki, E; Amine, A; Xu, LN; Gui, YG; Ibrahim, AA; Kumar, R; Baskoutas, S	Fabrication and characterization of highly sensitive and selective sensors based on porous NiO nanodisks	SENSORS AND ACTUATORS B-CHEMICAL	259		604	615		2018
224	Zeng, ZP; Garoufalis, CS; Baskoutas, S; Jia, Y; Bester, G	Realization of linearly polarized exciton emission in wurtzite zinc oxide quantum dots	PHYSICAL REVIEW B	98	23			235410	2018
225	Hoefler, SF; Rath, T; Fischer, R; Latal, C; Hippler, D; Koliogiorgos, A; Galanakis, I; Bruno, A; Fian, A; Dimopoulos, T; Trimmel, G	A Zero-Dimensional Mixed-Anion Hybrid Halogenobismuthate(III) Semiconductor: Structural, Optical, and Photovoltaic Properties	INORGANIC CHEMISTRY	57	17	10576	10586		2018
226	Giannopoulos, GI	Mechanical behavior of planar borophenes: A molecular mechanics study	COMPUTATIONAL MATERIALS SCIENCE	129		304	310		2017
227	Sigalas, MM	Towards Molybdenum Disulfide Nanotraps	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	17	6	4069	4072		2017
228	Giannopoulos, GI	Crack Identification in Graphene Using Eigenfrequencies	INTERNATIONAL JOURNAL OF APPLIED MECHANICS	9	1			1750009	2017

229	Kumar, A; Vanakaras, AG; Photinos, DJ	Polar Molecular Ordering in the N-x Phase of Bimesogens and Enantiotopic Discrimination in the NMR Spectra of Rigid Prochiral Solutes	JOURNAL OF PHYSICAL CHEMISTRY B	121	47	10689	10703		2017
230	Papadatos, D; Vassilakopoulou, A; Koutselas, I	Energy transfer yellow light emitting diodes based on blends of quasi-2D perovskites	JOURNAL OF LUMINESCENCE	188		567	576		2017
231	Karoutsos, V; Venetsanos, O; Geralis, D; Pouloupoulos, P; Politis, C	Nanostructure of Fe-C Alloys Prepared by Arc Melting in Vacuum	JOURNAL OF NANO RESEARCH	45		218	228		2017
232	Konstantopoulou, A; Sgouros, AP; Sigalas, MM	Computational study of phononic resonators and waveguides in monolayer transition metal dichalcogenides	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	19	11	8082	8090		2017
233	Michos, FI; Sigalas, MM; Koukaras, EN	Computational Study of the Excitation Energies of CdSe Nanoparticles With Defects	IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS	23	5			4800305	2017
234	Heist, LM; Poon, CD; Samulski, ET; Photinos, DJ	Direct Measurement of the Angular Pair Correlation Coefficients in Molecular Liquids Using NMR. Benchmarking Force Fields for Atomistic Simulations	JOURNAL OF PHYSICAL CHEMISTRY B	121	16	4174	4183		2017
235	Evangelou, S	Using interference effects for controlled light propagation in four-waveguide directional couplers	JOURNAL OF MODERN OPTICS	64	19	2017	2022		2017
236	Evangelou, S	Phase control of electromagnetically induced acoustic wave transparency in a diamond nanomechanical resonator	PHYSICS LETTERS A	381	18	1624	1628		2017

237	Karanikolas, VD; Paspalakis, E	Localized exciton modes and high quantum efficiency of a quantum emitter close to a MoS2 nanodisk	PHYSICAL REVIEW B	96	4			41404	2017
238	Vassilakopoulou, A; Georgakilas, V; Koutselas, I	Encapsulation and protection of carbon dots within MCM-41 material	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	82	3	795	800		2017
239	Vassilakopoulou, A; Georgakilas, V; Vainos, N; Koutselas, I	Successful entrapment of carbon dots within flexible free-standing transparent mesoporous organic-inorganic silica hybrid films for photonic applications	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	103		190	196		2017
240	Vassilakopoulou, A; Papadatos, D; Koutselas, I	Flexible, cathodoluminescent and free standing mesoporous silica films with entrapped quasi-2D perovskites	APPLIED SURFACE SCIENCE	400		434	439		2017
241	Vassilakopoulou, A; Papadatos, D; Zakouras, I; Koutselas, I	Mixtures of quasi-two and three dimensional hybrid organic-inorganic semiconducting perovskites for single layer LED	JOURNAL OF ALLOYS AND COMPOUNDS	692		589	598		2017
242	Vassilakopoulou, A; Papadatos, D; Koutselas, I	Light emitting diodes based on blends of quasi-2D lead halide perovskites stabilized within mesoporous silica matrix	MICROPOROUS AND MESOPOROUS MATERIALS	249		165	175		2017
243	Koliogiorgos, A; Baskoutas, S; Galanakis, I	Electronic and gap properties of lead-free perfect and mixed hybrid halide perovskites: An ab-initio study	COMPUTATIONAL MATERIALS SCIENCE	138		92	98		2017
244	Badounas, DA; Souliotis, M; Garoufalas, CS	Theoretical Study of Linear and Nonlinear Optical Properties of ZnO/MgO Core/Shell and Inverted Core/Shell Quantum Dots	JOURNAL OF ADVANCED PHYSICS	6	4	477	481		2017

245	Drakopoulos, SX; Karger-Kocsis, J; Kmetty, A; Lendvai, L; Psarras, GC	Thermoplastic starch modified with microfibrillated cellulose and natural rubber latex: A broadband dielectric spectroscopy study	CARBOHYDRATE POLYMERS	157		711	718		2017
246	Garoufalis, CS; Pouloupoulos, P; Bouropoulos, N; Barnasas, A; Baskoutas, S	Growth and optical properties of Fe2O3 thin films: A study of quantum confinement effects by experiment and theory	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	89		67	71		2017
247	Sousanis, A; Pouloupoulos, P; Karoutsos, V; Trachylis, D; Politis, C	Giant Enhancement of Small Photoluminescent Signals on Glass Surfaces Covered by Self-Assembled Silver Nanorings	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	17	2	1428	1433		2017
248	Angelopoulou, P; Paloukis, F; Slowik, G; Wojcik, G; Avgouropoulos, G	Combustion-synthesized LiMn2O4-based spinel nanorods as cathode materials for lithium-ion batteries	CHEMICAL ENGINEERING JOURNAL	311		191	202		2017
249	Koutsioukis, A; Georgakilas, V; Belessi, V; Zboril, R	Highly Conductive Water-Based Polymer/Graphene Nanocomposites for Printed Electronics	CHEMISTRY-A EUROPEAN JOURNAL	23	34	8268	8274		2017
250	Baskoutas, S; Zeng, ZP; Garoufalis, CS; Bester, G	Morphology control of exciton fine structure in polar and nonpolar zinc sulfide nanorods	SCIENTIFIC REPORTS	7				9366	2017
251	Kanapitsas, A; Psarras, GC; Tsonos, C; Speliotis, T; Patsidis, AC; Siores, E; Triantis, D	Magneto-Electric Response and Functionality in Barium Ferrite/Barium Titanate/Epoxy Resin Nanocomposites	JOURNAL OF ADVANCED PHYSICS	6	1	69	75		2017
252	Georgantzinis, SK; Giannopoulos, GI	Thermomechanical buckling of single walled carbon nanotubes by a structural mechanics method	DIAMOND AND RELATED MATERIALS	80		27	37		2017
253	Pouloupoulos, P; Sousanis, A; Zotos, KC; Papaefstathiou, N; Grammatikopoulos, S; Trachylis, D; Schommers, W; Meletis, EI; Politis, C	Competitive Reactivity of Nitrogen and Oxygen with Nickel When an Argon/Air Mixture is Used as Sputtering Gas	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	17	12	8842	8849		2017

254	Ibrahim, AA; Umar, A; Baskoutas, S	Ytterbium Doped Zinc Oxide Nanopencils for Chemical Sensor Application	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	17	12	9157	9162		2017
255	Sanida, A; Stavropoulos, SG; Speliotis, T; Psarras, GC	Development, characterization, energy storage and interface dielectric properties in SrFe12O19/epoxy nanocomposites	POLYMER	120		73	81		2017
256	Iliopoulos, N; Terzis, AF; Yannopapas, V; Paspalakis, E	Prolonging entanglement dynamics near periodic plasmonic nanostructures	PHYSICAL REVIEW B	96	7			75405	2017
257	Koutsiouki, K; Angelopoulou, A; Ioannou, E; Voulgari, E; Sergides, A; Magoulas, GE; Bakandritsos, A; Avgoustakis, K	TAT Peptide-Conjugated Magnetic PLA-PEG Nanocapsules for the Targeted Delivery of Paclitaxel: In Vitro and Cell Studies	AAPS PHARMSCITECH	18	3	769	781		2017
258	Dogkas, LD; Kamalakis, T; Kanakis, P; Alexandropoulos, D	Engineering the spectral properties of non-uniform coupled micro-ring resonator optical filters using numerical optimization	JOURNAL OF OPTICS	19	6			65703	2017
259	Sagasti, A; Bouropoulos, N; Kouzoudis, D; Panagiotopoulos, A; Topoglidis, E; Gutierrez, J	Nanostructured ZnO in a Metglas/ZnO/Hemoglobin Modified Electrode to Detect the Oxidation of the Hemoglobin Simultaneously by Cyclic Voltammetry and Magnetoelastic Resonance	MATERIALS	10	8			849	2017
260	Tas, M; Sasioglu, E; Friedrich, C; Blugel, S; Galanakis, I	Design of L2(1)-type antiferromagnetic semiconducting full-Heusler compounds: A first principles DFT plus GW study	JOURNAL OF APPLIED PHYSICS	121	5			53903	2017
261	Karoutsos, V; Gontad, F; Kantarelis, S; Lorusso, A; Perrone, A; Vainos, NA	Labyrinthine and dendritic patterns in polyethylene oxide films grown by pulsed laser deposition	APPLIED PHYSICS A- MATERIALS SCIENCE & PROCESSING	123	4			270	2017

262	Giannopoulos, GI; Avntoulla, GS	Tensile strength of graphene versus temperature and crack size: Analytical expressions from molecular dynamics simulation data	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART N- JOURNAL OF NANOMATERIALS NANOENGINEERING AND NANOSYSTEMS	231	2	67	73		2017
263	Soultati, A; Kostis, I; Papadimitropoulos, G; Zeniou, A; Gogolides, E; Alexandropoulos, D; Vainos, N; Davazoglou, D; Speliotis, T; Stathopoulos, NA; Argitis, P; Vasilopoulou, M	Microwave exposure as a fast and cost-effective alternative of oxygen plasma treatment of indium-tin oxide electrode for application in organic solar cells	JOURNAL OF PHYSICS D-APPLIED PHYSICS	50	50			505105	2017
264	Tas, M; Sasioglu, E; Friedrich, C; Galanakis, I	A first-principles DFT plus GW study of spin-filter and spin-gapless semiconducting Heusler compounds	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	441		333	338		2017
265	Grammatikopoulos, S; Stamatelatos, A; Delimitis, A; Sousanis, A; Chrisanthopoulou, A; Trachylis, D; Politis, C; Poulopoulos, P	Growth of Au Nanoparticles in NiO via Short Annealing of Precursor Material Thin Film and Optimization of Plasmonics	PHYSICA STATUS SOLIDI A- APPLICATIONS AND MATERIALS SCIENCE	214	11			1700303	2017
266	Umar, A; Kim, SH; Kumar, R; Al-Assiri, MS; Al-Salami, AE; Ibrahim, AA; Baskoutas, S	In-Doped ZnO Hexagonal Stepped Nanorods and Nanodisks as Potential Scaffold for Highly-Sensitive Phenyl Hydrazine Chemical Sensors	MATERIALS	10	11			1337	2017
267	Pedicini, R; Sigalas, M; Carbone, A; Gatto, I	Functionalised hybrid Poly(ether ether ketone) containing MnO ₂ : Investigation of operative conditions for hydrogen sorption	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	42	15	10089	10098		2017
268	Georgantzinis, SK; Markolefas, S; Giannopoulos, GI; Katsareas, DE; Anifantis, NK	Designing pinhole vacancies in graphene towards functionalization: Effects on critical buckling load	SUPERLATTICES AND MICROSTRUCTURES	103		343	357		2017

269	Anastasopoulou, M; Vasilopoulos, KC; Anagnostopoulos, D; Koutselas, I; Papayannis, DK; Karakassides, MA	Structural and Theoretical Study of Strontium Borophosphate Glasses Using Raman Spectroscopy and ab Initio Molecular Orbital Method	JOURNAL OF PHYSICAL CHEMISTRY B	121	17	4610	4619		2017
270	Giannopoulos, GI; Georgantzinis, SK	Tensile behavior of gallium nitride monolayer via nonlinear molecular mechanics	EUROPEAN JOURNAL OF MECHANICS A-SOLIDS	65		223	232		2017
271	Chadov, S; Wu, SC; Felser, C; Galanakis, I	Stability of Weyl points in magnetic half-metallic Heusler compounds	PHYSICAL REVIEW B	96	2			24435	2017
272	Anton, MA; Maede-Razavi, S; Carreno, F; Thanopoulos, I; Paspalakis, E	Optical and microwave control of resonance fluorescence and squeezing spectra in a polar molecule	PHYSICAL REVIEW A	96	6			63812	2017
273	Kostas, V; Baikousi, M; Dimos, K; Vasilopoulos, KC; Koutselas, I; Karakassides, MA	Efficient and Rapid Photocatalytic Reduction of Hexavalent Chromium Achieved by a Phloroglucinol-Derived Microporous Polymeric Organic Framework Solid	JOURNAL OF PHYSICAL CHEMISTRY C	121	13	7303	7311		2017
274	Giannopoulos, GI; Georgantzinis, SK	Establishing detection maps for carbon nanotube mass sensors: molecular versus continuum mechanics	ACTA MECHANICA	228	6	2377	2390		2017
275	Bakandritsos, A; Pykal, M; Blonski, P; Jakubec, P; Chronopoulos, DD; Polakova, K; Georgakilas, V; Cepe, K; Tomanec, O; Ranc, V; Bourlinos, AB; Zboril, R; Otyepka, M	Cyanographene and Graphene Acid: Emerging Derivatives Enabling High-Yield and Selective Functionalization of Graphene	ACS NANO	11	3	2982	2991		2017
276	Gioumouxouzis, CI; Katsamenis, OL; Bouropoulos, N; Fatouros, DG	3D printed oral solid dosage forms containing hydrochlorothiazide for controlled drug delivery	JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY	40		164	171		2017

277	Antonelou, A; Hoffman, T; Edgar, JH; Yannopoulos, SN	MoS ₂ /h-BN heterostructures: controlling MoS ₂ crystal morphology by chemical vapor deposition	JOURNAL OF MATERIALS SCIENCE	52	12	7028	7038		2017
278	Kouloumpis, A; Thomou, E; Chalmpes, N; Dimos, K; Spyrou, K; Bourlinos, AB; Koutselas, I; Gournis, D; Rudolf, P	Graphene/Carbon Dot Hybrid Thin Films Prepared by a Modified Langmuir-Schaefer Method	ACS OMEGA	2	5	2090	2099		2017
279	Kapsiotis, A; Rassios, AE; Grieco, G; Antonelou, A	Genesis of Cr-bearing hydrogrossular-rich veins in a chromitite boulder from Ayios Stefanos, West Othris, Greece: A paradigm of micro-rodingites formation at the late stages of oceanic slab emplacement	ORE GEOLOGY REVIEWS	90		287	306		2017
280	Bourlinos, AB; Georgakilas, V; Mouselimis, V; Kouloumpis, A; Mouzourakis, E; Koutsoukis, A; Antoniou, MK; Gournis, D; Karakassides, MA; Deligiannakis, Y; Urbanova, V; Cepe, K; Bakandritsos, A; Zboril, R	Fullerol-graphene nanobuds: Novel water dispersible and highly conductive nanocarbon for electrochemical sensing	APPLIED MATERIALS TODAY	9		71	76		2017
281	Tomara, GN; Karahaliou, PK; Psarras, GC; Georga, SN; Krontiras, CA; Siengchin, S; Karger-Kocsis, J	Dielectric relaxation mechanisms in polyoxymethylene/polyurethane/layered silicates hybrid nanocomposites	EUROPEAN POLYMER JOURNAL	95		304	313		2017
282	Tzitzios, V; Hu, XC; Dimos, K; Gournis, D; Georgakilas, V; Avgouropoulos, G; Katsiotis, MS; Alhassan, SM; Hadjipanayis, G	Uniform growth of fct FePt nanoparticles on the surface of reduced-GO via a green facile approach. Ferromagnetic r-GO nanocomposites with high coercivity and surface area	CARBON	121		209	216		2017
283	Gonzalez, N; Custal, MD; Tomara, GN; Psarras, GC; Riba, JR; Armelin, E	Dielectric response of vulcanized natural rubber containing BaTiO ₃ filler: The role of particle functionalization	EUROPEAN POLYMER JOURNAL	97		57	67		2017

284	Al-Hadeethi, Y; Umar, A; Ibrahim, AA; Al-Heniti, SH; Kumar, R; Baskoutas, S; Raffah, BM	Synthesis, characterization and acetone gas sensing applications of Ag-doped ZnO nanoneedles	CERAMICS INTERNATIONAL	43	9	6765	6770		2017
285	Carreno, F; Anton, MA; Yannopapas, V; Paspalakis, E	Control of resonance fluorescence of a four-level quantum emitter near a plasmonic nanostructure	PHYSICAL REVIEW A	95	4			43825	2017
286	Karavasili, C; Amanatiadou, EP; Kontogiannidou, E; Eleftheriadis, GK; Bouropoulos, N; Pavlidou, E; Kontopoulou, I; Vizirianakis, IS; Fatouros, DG	Comparison of different zeolite framework types as carriers for the oral delivery of the poorly soluble drug indomethacin	INTERNATIONAL JOURNAL OF PHARMACEUTICS	528	1-2	76	87		2017
287	Carreno, F; Anton, MA; Yannopapas, V; Paspalakis, E	Control of the absorption of a four-level quantum system near a plasmonic nanostructure	PHYSICAL REVIEW B	95	19			195410	2017
288	Ibrahim, AA; Tiwari, P; Al-Assiri, MS; Al-Salami, AE; Umar, A; Kumar, R; Kim, SH; Ansari, ZA; Baskoutas, S	A Highly-Sensitive Picric Acid Chemical Sensor Based on ZnO Nanopeanuts	MATERIALS	10	7			795	2017
289	Fthenakis, ZG; Kalosakas, G; Chatzidakis, GD; Galiotis, C; Papagelis, K; Lathiotakis, NN	Atomistic potential for graphene and other sp(2) carbon systems	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	19	45	30925	30932		2017
290	Thanopoulos, I; Yannopapas, V; Paspalakis, E	Non-Markovian dynamics in plasmon-induced spontaneous emission interference	PHYSICAL REVIEW B	95	7			75412	2017
291	Nazari, K; Kontogiannidou, E; Ahmad, RH; Andreadis, D; Rasekh, M; Bouropoulos, N; van Der Merwe, SM; Chang, MW; Fatouros, DG; Ahmad, Z	Fibrous polymeric buccal film formulation, engineering and bio-interface assessment	EUROPEAN POLYMER JOURNAL	97		147	157		2017
292	Nazari, K; Kontogiannidou, E; Ahmad, RH; Gratsani, A; Rasekh, M; Arshad, MS; Sunar, BS; Armitage, D; Bouropoulos, N; Chang, MW; Li, X; Fatouros, DG; Ahmad, Z	Development and characterisation of cellulose based electrospun mats for buccal delivery of non-steroidal anti-inflammatory drug (NSAID)	EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES	102		147	155		2017

293	Ibrahim, AA; Ahmad, R; Umar, A; Al-Assiri, MS; Al-Salami, AE; Kumar, R; Ansari, SG; Baskoutas, S	Two-dimensional ytterbium oxide nanodisks based biosensor for selective detection of urea	BIOSENSORS & BIOELECTRONICS	98		254	260		2017
294	Dimos, K; Arcudi, F; Kouloumpis, A; Koutselas, IB; Rudolf, P; Gournis, D; Prato, M	Top-down and bottom-up approaches to transparent, flexible and luminescent nitrogen-doped carbon nanodot-clay hybrid films	NANOSCALE	9	29	10256	10262		2017
295	Barnett, SM; Beige, A; Ekert, A; Garraway, BM; Keitel, CH; Kendon, V; Lein, M; Milburn, GJ; Moya-Cessa, HM; Murao, M; Pachos, JK; Palma, GM; Paspalakis, E; Phoenix, SJD; Piraux, B; Plenio, MB; Sanders, BC; Twamley, J; Vidiella-Barranco, A; Kim, MS	Journeys from quantum optics to quantum technology	PROGRESS IN QUANTUM ELECTRONICS	54		19	45		2017
296	Workineh, ZG; Vanakaras, AG	Self-organisation and alignment properties of homeotropically confined model liquid crystalline dendrimer systems	LIQUID CRYSTALS	43	7	944	954		2016
297	Vanakaras, AG; Photinos, DJ	A molecular theory of nematic-nematic phase transitions in mesogenic dimers	SOFT MATTER	12	7	2208	2220		2016
298	Zeng, ZP; Garoufalidis, CS; Baskoutas, S	Nonlinear Optical Absorption in Colloidal CdS Quantum Dots: The Role of Dielectric Environment	JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS	11	5	615	619		2016
299	Manika, GC; Psarras, GC	Energy storage and harvesting in BaTiO ₃ /epoxy nanodielectrics	HIGH VOLTAGE	1	4	151	157		2016
300	Kumar, A; Vanakaras, AG; Photinos, DJ	Molecular Interactions in Chiral Nematic Liquid Crystals and Enantiotopic Discrimination through the NMR Spectra of Prochiral Molecules I: Rigid Solutes	JOURNAL OF PHYSICAL CHEMISTRY B	120	41	10844	10853		2016

301	Psarras, GC	'Energy Materials'... the role of polymers	EXPRESS POLYMER LETTERS	10	9	721	721		2016
302	Vassilakopoulou, A; Papadatos, D; Koutselas, I	Room temperature light emitting diode based on 2D hybrid organic-inorganic low dimensional perovskite semiconductor	APPLIED MATERIALS TODAY	5		128	133		2016
303	Christidi, EV; Kalosakas, G	Dynamics of the fraction of drug particles near the release boundary	EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS	225	6-7	1245	1254		2016
304	Vassilakopoulou, A; Dimos, K; Kostas, V; Karakassides, MA; Koutselas, I	Synthesis and characterization of calcium oxyboropatite with bimodal porosity	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	78	2	339	346		2016
305	Michos, FI; Sgouros, AP; Sigalas, MM	Ab initio study of boron and aluminum hydrides nanoparticles	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	41	44	20210	20216		2016
306	Kontopoulou, I; Angelopoulou, A; Bouropoulos, N	ZnO spherical porous nanostructures obtained by thermal decomposition of zinc palmitate	MATERIALS LETTERS	165		87	90		2016
307	Georgakilas, V; Koutsioukis, A; Petr, M; Tucek, J; Zboril, R	Remarkable enhancement of the electrical conductivity of carbon nanostructured thin films after compression	NANOSCALE	8	22	11413	11417		2016
308	Workineh, ZG; Vanakaras, AG	Homogeneous alignment of liquid crystalline dendrimers confined in a slit-pore. A simulation study	JOURNAL OF PHYSICS-CONDENSED MATTER	28	11			115002	2016
309	Vasileiadis, M; Koutselas, I; Pispas, S; Vainos, NA	Design and evaluation of polymer matrices for the encapsulation of CdSe/ZnS quantum dots in photonic nanocomposite thin films	JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS	54	5	552	560		2016
310	Michail, A; Delikoukos, N; Parthenios, J; Galiotis, C; Papagelis, K	Optical detection of strain and doping inhomogeneities in single layer MoS2	APPLIED PHYSICS LETTERS	108	17			173102	2016

311	Santarossa, F; Pappas, SD; Delimitis, A; Sousanis, A; Pouloupoulos, P	Naturally Produced Co/CoO Nanocrystalline Magnetic Multilayers: Structure and Inverted Hysteresis	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	16	5	4960	4967		2016
312	Sfyris, D; Galiotis, C	Curvature-dependent surface energy for free-standing monolayer graphene	MATHEMATICS AND MECHANICS OF SOLIDS	21	7	812	825		2016
313	Vainos, NA; Karoutsos, V; Mills, B; Eason, RW; Prassas, M	Isotropic contractive scaling of laser written microstructures in vitrified aerogels	OPTICAL MATERIALS EXPRESS	6	12	3814	3825		2016
314	Iliopoulos, N; Terzis, AF; Yannopoulos, V; Paspalakis, E	Two-qubit correlations via a periodic plasmonic nanostructure	ANNALS OF PHYSICS	365		38	53		2016
315	Alexopoulou, M; Mystiridou, E; Mouzakis, D; Zaoutsos, S; Fatouros, DG; Bouropoulos, N	Preparation, characterization and in vitro assessment of ibuprofen loaded calcium phosphate/gypsum bone cements	CRYSTAL RESEARCH AND TECHNOLOGY	51	1	41	48		2016
316	Ibrahim, AA; Umar, A; Kumar, R; Kim, SH; Bumajdad, A; Baskoutas, S	Sm2O3-doped ZnO beech fern hierarchical structures for nitroaniline chemical sensor	CERAMICS INTERNATIONAL	42	15	16505	16511		2016
317	Vryonis, O; Anastassopoulos, DL; Vradis, AA; Psarras, GC	Dielectric response and molecular dynamics in epoxy-BaSrTiO3 nanocomposites: Effect of nanofiller loading	POLYMER	95		82	90		2016
318	Georgakilas, V; Bourlinos, AB; Ntararas, E; Ibraliu, A; Gournis, D; Dimos, K; Kouloumpis, A; Zboril, R	Graphene nanobuds: Synthesis and selective organic derivatisation	CARBON	110		51	55		2016
319	Kanapitsas, A; Tsonos, C; Psarras, GC; Kriptou, S	Barium ferrite/epoxy resin nanocomposite system: Fabrication, dielectric, magnetic and hydration studies	EXPRESS POLYMER LETTERS	10	3	227	236		2016
320	Sgouros, AP; Kalosakas, G; Galiotis, C; Papagelis, K	Uniaxial compression of suspended single and multilayer graphenes	2D MATERIALS	3	2			25033	2016

321	Terzis, AF; Kosionis, SG; Boviatsis, J; Paspalakis, E	Nonlinear optical susceptibilities of semiconductor quantum dot - metal nanoparticle hybrids	JOURNAL OF MODERN OPTICS	63	5	451	461	2016
322	Avgouropoulos, G; Schlicker, S; Schelhaas, KP; Papavasiliou, J; Papadimitriou, KD; Theodorakopoulou, E; Gourdoupi, N; Machocki, A; Ioannides, T; Kallitsis, JK; Kolb, G; Neophytides, S	Performance evaluation of a proof-of-concept 70 W internal reforming methanol fuel cell system	JOURNAL OF POWER SOURCES	307		875	882	2016
323	Ibrahim, AA; Kumar, R; Umar, A; Kim, SH; Bumajdad, A; Ansari, ZA; Baskoutas, S	Cauliflower-shaped ZnO nanomaterials for electrochemical sensing and photocatalytic applications	ELECTROCHIMICA ACTA	222		463	472	2016
324	Bimis, A; Karalekas, D; Bouropoulos, N; Mouzakis, D; Zaoutsos, S	Monitoring of hardening and hygroscopic induced strains in a calcium phosphate bone cement using FBG sensor	JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS	60		195	202	2016
325	Koukaras, EN; Androulidakis, C; Anagnostopoulos, G; Papagelis, K; Galiotis, C	Compression behavior of simply-supported and fully embedded monolayer graphene: Theory and experiment	EXTREME MECHANICS LETTERS	8		191	200	2016
326	Ibrahim, AA; Umar, A; Ahmad, R; Kumar, R; Baskoutas, S	Fabrication and Characterization of Highly Sensitive and Selective Glucose Biosensor Based on ZnO Decorated Carbon Nanotubes	NANOSCIENCE AND NANOTECHNOLOGY LETTERS	8	10	853	858	2016
327	Koukaras, EN; Sgouros, AP; Sigalas, MM	Fully Hydrogenated Beryllium Nanoclusters	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	138	9	3218	3227	2016
328	Karabulut, I; Paspalakis, E	The role of permanent dipoles on the intensity-dependent nonlinear optical properties in asymmetric coupled quantum wells under a static electric field	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	81		294	301	2016

329	Galanakis, I; Tirpanci, S; Ozdogan, K; Sasioglu, E	Itinerant G-type antiferromagnetism in D0(3)-type V(3)Z (Z = Al, Ga, In) compounds: A first-principles study	PHYSICAL REVIEW B	94	6			64401	2016
330	Mouzakis, D; Zaoutsos, SP; Bouropoulos, N; Rokidi, S; Papanicolaou, G	Influence of artificially-induced porosity on the compressive strength of calcium phosphate bone cements	JOURNAL OF BIOMATERIALS APPLICATIONS	31	1	112	120		2016
331	Antonelou, A; Syrokostas, G; Sygellou, L; Leftheriotis, G; Dracopoulos, V; Yannopoulos, SN	Facile, substrate-scale growth of mono- and few-layer homogeneous MoS2 films on Mo foils with enhanced catalytic activity as counter electrodes in DSSCs	NANOTECHNOLOGY	27	4			45404	2016
332	Sarigiannis, Y; Kolokithas-Ntoukas, A; Beziere, N; Zboril, R; Papadimitriou, E; Avgoustakis, K; Lamprou, M; Medrikova, Z; Rousalis, E; Ntziachristos, V; Bakandritsos, A	Synthesis and evaluation of condensed magnetic nanocrystal clusters with in vivo multispectral optoacoustic tomography for tumour targeting	BIOMATERIALS	91		128	139		2016
333	Li, NQ; Alexandropoulos, D; Susanto, H; Henning, I; Adams, M	Stability Analysis of Quantum-Dot Spin-VCSELS	ELECTRONICS	5	4			83	2016
334	Karavasili, C; Kokove, L; Kontopoulou, I; Eleftheriadis, GK; Bouropoulos, N; Fatouros, DG	Dissolution enhancement of the poorly soluble drug nifedipine by co-spray drying with microporous zeolite beta	JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY	35		91	97		2016
335	Lendvai, L; Karger-Kocsis, J; Kmetty, A; Drakopoulos, SX	Production and characterization of microfibrillated cellulose-reinforced thermoplastic starch composites	JOURNAL OF APPLIED POLYMER SCIENCE	133	2			42397	2016
336	Tapeinos, C; Efthimiadou, EK; Boukos, N; Kordas, G	Sustained release profile of quatro stimuli nanocontainers as a multi sensitive vehicle exploiting cancer characteristics	COLLOIDS AND SURFACES B-BIOINTERFACES	148		95	103		2016

337	Karavasili, C; Bouropoulos, N; Sygellou, L; Amanatiadou, EP; Vizirianakis, IS; Fatouros, DG	PLGA/DPPC/trimethylchitosan spray dried microparticles for the nasal delivery of ropinirole hydrochloride: in vitro, ex vivo and cytocompatibility assessment	MATERIALS SCIENCE & ENGINEERING C- MATERIALS FOR BIOLOGICAL APPLICATIONS	59		1053	1062		2016
338	Tsonos, C; Soin, N; Tomara, G; Yang, B; Psarras, GC; Kanapitsas, A; Siores, E	Electromagnetic wave absorption properties of ternary poly(vinylidene fluoride)/magnetite nanocomposites with carbon nanotubes and graphene	RSC ADVANCES	6	3	1919	1924		2016
339	Kim, SH; Ibrahim, AA; Kumar, R; Umar, A; Abaker, M; Hwang, SW; Baskoutas, S	Synthesis and Characterization of Mimosa Pudica Leaves Shaped alpha-Iron Oxide Nanostructures for Ethanol Chemical Sensor Applications	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	16	3	2944	2949		2016
340	Anagnostopoulos, G; Pappas, PN; Li, ZL; Kinloch, IA; Young, RJ; Novoselov, KS; Lu, CY; Pugno, N; Parthenios, J; Galiotis, C; Papagelis, K	Mechanical Stability of Flexible Graphene-Based Displays	ACS APPLIED MATERIALS & INTERFACES	8	34	22605	22614		2016
341	Tas, M; Sasioglu, E; Galanakis, I; Friedrich, C; Blugel, S	Quasiparticle band structure of the almost-gapless transition-metal-based Heusler semiconductors	PHYSICAL REVIEW B	93	19			195155	2016
342	Costantini, L; Bouropoulos, N; Fatouros, DG; Kontopoulou, I; Roldo, M	Synthesis of carbon nanotubes loaded hydroxyapatite: Potential for controlled drug release from bone implants	JOURNAL OF ADVANCED CERAMICS	5	3	232	243		2016
343	Carreno, F; Anton, MA; Yannopapas, V; Paspalakis, E	Resonance fluorescence spectrum of a Lambda-type quantum emitter close to a metallic nanoparticle	PHYSICAL REVIEW A	94	1			13834	2016
344	Umar, A; Lee, JH; Kumar, R; Al-Dossary, O; Ibrahim, AA; Baskoutas, S	Development of highly sensitive and selective ethanol sensor based on lance-shaped CuO nanostructures	MATERIALS & DESIGN	105		16	24		2016

345	Eleftheriadis, GK; Filippousi, M; Tsachouridou, V; Darda, MA; Sygellou, L; Kontopoulou, I; Bouropoulos, N; Steriotis, T; Charalambopoulou, G; Vizirianakis, IS; Van Tendeloo, G; Fatouros, DG	Evaluation of mesoporous carbon aerogels as carriers of the non-steroidal anti-inflammatory drug ibuprofen	INTERNATIONAL JOURNAL OF PHARMACEUTICS	515	1-2	262	270	2016
346	Kapsiotis, A; Ewing Rassios, A; Antonelou, A; Tzamos, E	Genesis and Multi-Episodic Alteration of Zircon-Bearing Chromitites from the Ayios Stefanos Mine, Othris Massif, Greece: Assessment of an Unconventional Hypothesis on the Origin of Zircon in Ophiolitic Chromitites	MINERALS	6	4		124	2016
347	Nochos, AN; Andrikopoulos, KS; Voyiatzis, GA	Manipulation of the drug-release behavior of poly(glycolide-co-trimethylene carbonate)	JOURNAL OF APPLIED POLYMER SCIENCE	133	36		43915	2016
348	Umar, A; Ahmad, R; Kumar, R; Ibrahim, AA; Baskoutas, S	Bi ₂ O ₂ CO ₃ nanoplates: Fabrication and characterization of highly sensitive and selective cholesterol biosensor	JOURNAL OF ALLOYS AND COMPOUNDS	683		433	438	2016
349	Georgakilas, V; Tiwari, JN; Kemp, KC; Perman, JA; Bourlinos, AB; Kim, KS; Zboril, R	Noncovalent Functionalization of Graphene and Graphene Oxide for Energy Materials, Biosensing, Catalytic, and Biomedical Applications	CHEMICAL REVIEWS	116	9	5464	5519	2016
350	Voulgari, E; Bakandritsos, A; Galtsidis, S; Zoumpourlis, V; Burke, BP; Clemente, GS; Cawthorne, C; Archibald, SJ; Tucek, J; Zboril, R; Kantarelou, V; Karydas, AG; Avgoustakis, K	Synthesis, characterization and in vivo evaluation of a magnetic cisplatin delivery nanosystem based on PMAA-graft-PEG copolymers	JOURNAL OF CONTROLLED RELEASE	243		342	356	2016
351	Sucnea, M; Vamvakaki, M; Louloudakis, D; Sigalas, M; Katsarakis, N; Vernardou, D; Koudoumas, E	INFLUENCE OF THICKNESS ON THE PROPERTIES OF TiO ₂ AND Ti(Nb)O-2 THIN FILMS	STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA	61	1	97	106	2016

352	Liaros, N; Tucek, J; Dimos, K; Bakandritsos, A; Andrikopoulos, KS; Gournis, D; Zboril, R; Couris, S	The effect of the degree of oxidation on broadband nonlinear absorption and ferromagnetic ordering in graphene oxide	NANOSCALE	8	5	2908	2917		2016
353	Peroukidis, SD; Vanakaras, AG; Photinos, DJ	Molecular simulation study of polar order in orthogonal bent-core smectic liquid crystals	PHYSICAL REVIEW E	91	6			62501	2015
354	Zeng, ZP; Petoni, A; Garoufalis, CS; Baskoutas, S; Bester, G	Near-band-edge exciton polarization change in ZnO nanowires	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	17	2	1197	1203		2015
355	Zeng, ZP; Garoufalis, CS; Baskoutas, S; Bester, G	Excitonic optical properties of wurtzite ZnS quantum dots under pressure	JOURNAL OF CHEMICAL PHYSICS	142	11			114305	2015
356	Kalosakas, G; Martini, D	Drug release from slabs and the effects of surface roughness	INTERNATIONAL JOURNAL OF PHARMACEUTICS	496	2	291	298		2015
357	Hoffmann, A; Vanakaras, AG; Kohlmeier, A; Mehl, GH; Photinos, DJ	On the structure of the Nx phase of symmetric dimers: inferences from NMR	SOFT MATTER	11	5	850	855		2015
358	Paspalakis, E	Comment on From fast light to slow light in resonantly driven quantum dot systems [Opt. Commun. 298-299 (2013) 176-179]	OPTICS COMMUNICATIONS	357		195	197		2015
359	Tsirogiannis, C; Galanakis, I	Effect of the double-counting functional on the electronic and magnetic properties of half-metallic magnets using the GGA plus U method	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	393		297	304		2015
360	Galanakis, I	High spin-polarization in ultrathin Co ₂ MnSi/CoPd multilayers	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	377		291	294		2015
361	Georgakilas, V; Vrettos, K; Katomeri, K; Kouloumpis, A; Dimos, K; Gournis, D; Zboril, R	Highly dispersible disk-like graphene nanoflakes	NANOSCALE	7	37	15059	15064		2015

362	Georgakilas, V; Demeslis, A; Ntararas, E; Kouloumpis, A; Dimos, K; Gournis, D; Kocman, M; Otyepka, M; Zboril, R	Hydrophilic Nanotube Supported Graphene-Water Dispersible Carbon Superstructure with Excellent Conductivity	ADVANCED FUNCTIONAL MATERIALS	25	10	1481	1487	2015
363	Sgouros, AP; Kalosakas, G; Sigalas, MM; Papagelis, K	Exotic carbon nanostructures obtained through controllable defect engineering	RSC ADVANCES	5	50	39930	39937	2015
364	Karoutsos, V; Koutselas, I; Orfanou, P; Mpatzaka, T; Vasileiadis, M; Vassilakopoulou, A; Vainos, NA; Perrone, A	One-pot synthesis and transfer of PMMA/Ag photonic nanocomposites by pulsed laser deposition	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	120	2	707	716	2015
365	Tomara, GN; Kerasidou, AP; Patsidis, AC; Karahaliou, PK; Psarras, GC; Georga, SN; Krontiras, CA	Dielectric response and energy storage efficiency of low content TiO ₂ -polymer matrix nanocomposites	COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING	71		204	211	2015
366	Kosionis, SG; Paspalakish, E	Pump-probe optical response of an asymmetric double quantum dot molecule	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	73		126	134	2015
367	Dallas, P; Georgakilas, V	Interfacial polymerization of conductive polymers: Generation of polymeric nanostructures in a 2-D space	ADVANCES IN COLLOID AND INTERFACE SCIENCE	224		46	61	2015
368	Trakakis, G; Anagnostopoulos, G; Sygellou, L; Bakolas, A; Parthenios, J; Tasis, D; Galiotis, C; Papagelis, K	Epoxidized multi-walled carbon nanotube buckypapers: A scaffold for polymer nanocomposites with enhanced mechanical properties	CHEMICAL ENGINEERING JOURNAL	281		793	803	2015
369	Kamalakis, T; Alexandropoulos, D; Vainos, N	Efficient design of polymer micro-ring resonator filters based on coupled mode theory and finite difference mode solver	OPTICS COMMUNICATIONS	339		123	128	2015

370	Saridis, GM; Alexandropoulos, D; Zervas, G; Simeonidou, D	Survey and Evaluation of Space Division Multiplexing: From Technologies to Optical Networks	IEEE COMMUNICATIONS SURVEYS AND TUTORIALS	17	4	2136	2156		2015
371	Salavati-Niasari, M; Baskoutas, S	Praseodymium(III) and Neodymium(III) of 18-and 20-Membered Schiff Base Complex Nanoparticles Encapsulated Within the Zeolite Y: Synthesis and Characterization	SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY	45	12	1826	1833		2015
372	Samulski, ET; Poon, CD; Heist, LM; Photinos, DJ	Liquid-State Structure via Very High-Field Nuclear Magnetic Resonance Discriminates among Force Fields	JOURNAL OF PHYSICAL CHEMISTRY LETTERS	6	18	3626	3631		2015
373	Kouloumpis, A; Spyrou, K; Dimos, K; Georgakilas, V; Rudolf, P; Goumis, D	A bottom-up approach for the synthesis of highly ordered fullerene-intercalated graphene hybrids	FRONTIERS IN MATERIALS	2				10	2015
374	Athanasekos, L; Vasileiadis, M; El Sachat, A; Vainos, NA; Riziotis, C	ArF excimer laser microprocessing of polymer optical fibers for photonic sensor applications	JOURNAL OF OPTICS	17	1			15402	2015
375	Aravantinos-Zafiris, N; Sigalas, MM	Large scale phononic metamaterials for seismic isolation	JOURNAL OF APPLIED PHYSICS	118	6			64901	2015
376	Ozdogan, K; Sasioglu, E; Galanakis, I	Ab-initio investigation of electronic and magnetic properties of the 18-valence-electron fully-compensated ferrimagnetic (CrV)XZ Heusler compounds: A prototype for spin-filter materials	COMPUTATIONAL MATERIALS SCIENCE	110		77	82		2015

377	Avgouropoulos, G; Papavasiliou, J; Ioannides, T; Neophytides, S	Insights on the effective incorporation of a foam-based methanol reformer in a high temperature polymer electrolyte membrane fuel cell	JOURNAL OF POWER SOURCES	296		335	343		2015
378	Antonelou, A; Dracopoulos, V; Yannopoulos, SN	Laser processing of SiC: From graphene-coated SiC particles to 3D graphene froths	CARBON	85		176	184		2015
379	Gontad, F; Lorusso, A; Solombrino, L; Koutselas, I; Vainos, N; Perrone, A	Growth of Niobium Thin Films on Si Substrates by Pulsed Nd:YAG Laser Deposition	JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY	31	8	784	789		2015
380	Georgakilas, V; Perman, JA; Tucek, J; Zboril, R	Broad Family of Carbon Nanoallotropes: Classification, Chemistry, and Applications of Fullerenes, Carbon Dots, Nanotubes, Graphene, Nanodiamonds, and Combined Superstructures	CHEMICAL REVIEWS	115	11	4744	4822		2015
381	Androulidakis, C; Tsoukleri, G; Koutroumanis, N; Gkikas, G; Pappas, P; Parthenios, J; Papagelis, K; Galiotis, C	Experimentally derived axial stress-strain relations for two-dimensional materials such as monolayer graphene	CARBON	81		322	328		2015
382	Anagnostopoulos, G; Androulidakis, C; Koukaras, EN; Tsoukleri, G; Polyzos, I; Parthenios, J; Papagelis, K; Galiotis, C	Stress Transfer Mechanisms at the Submicron Level for Graphene/Polymer Systems	ACS APPLIED MATERIALS & INTERFACES	7	7	4216	4223		2015
383	Chremmos, I; Kallos, E; Giamalaki, M; Yannopoulos, V; Paspalakis, E	Effective medium theory for two-dimensional non-magnetic metamaterial lattices up to quadrupole expansions	JOURNAL OF OPTICS	17	7			75102	2015
384	Tsoukleri, G; Parthenios, J; Galiotis, C; Papagelis, K	Embedded trilayer graphene flakes under tensile and compressive loading	2D MATERIALS	2	2			24009	2015
385	Karger-Kocsis, J; Kmetty, A; Lendvai, L; Drakopoulos, SX; Barany, T	Water-Assisted Production of Thermoplastic Nanocomposites: A Review	MATERIALS	8	1	72	95		2015

386	Yannopapas, V; Vanakaras, AG	Strong Magneto-chiral Dichroism in Suspensions of Magnetoplasmonic Nanohelices	ACS PHOTONICS	2	8	1030	1038		2015
387	Poulopoulos, P; Vlachos, A; Grammatikopoulos, S; Karoutsos, V; Ioannou, PS; Bebelos, N; Trachylis, D; Velgakis, MJ; Meletis, EI; Politis, C	Texture and magnetism of nanocrystalline Ni films and multilayers	JOURNAL OF NANO RESEARCH	30		68	77		2015
388	Yannopapas, V; Paspalakis, E	Giant enhancement of dipole-forbidden transitions via lattices of plasmonic nanoparticles	JOURNAL OF MODERN OPTICS	62	17	1435	1441		2015
389	Sousanis, A; Grammatikopoulos, S; Delimitis, A; Dracopoulos, V; Poulopoulos, P	Localized surface plasmon resonances after selective oxidization of AuCu solid solution nanocrystalline films	APPLIED PHYSICS LETTERS	107	1			11903	2015
390	Androulidakis, C; Koukaras, EN; Parthenios, J; Kalosakas, G; Papagelis, K; Galiotis, C	Graphene flakes under controlled biaxial deformation	SCIENTIFIC REPORTS	5				18219	2015
391	Bounos, G; Andrikopoulos, KS; Moschopoulou, H; Ioannides, T; Kouravelou, K; Psarras, GC; Voyiatzis, GA	Water Vapor Transport Enhancement Through Isotactic Polypropylene by Incorporating Multiwalled Carbon Nanotubes	POWDER METALLURGY AND METAL CERAMICS	53	11-12	634	642		2015
392	Koukaras, EN; Kalosakas, G; Galiotis, C; Papagelis, K	Phonon properties of graphene derived from molecular dynamics simulations	SCIENTIFIC REPORTS	5				12923	2015
393	Polyzos, I; Bianchi, M; Rizzi, L; Koukaras, EN; Parthenios, J; Papagelis, K; Sordan, R; Galiotis, C	Suspended monolayer graphene under true uniaxial deformation	NANOSCALE	7	30	13033	13042		2015
394	Ifandi, E; Tsikouras, B; Papoulis, D; Hatzipanagiotou, K; Antonelou, A	A new microenvironment for the formation of clay minerals: the example of authigenic halloysite-7 angstrom and gibbsite in a stalactite from Agios Georgios Cave, Kilkis, north Greece	INTERNATIONAL JOURNAL OF SPELEOLOGY	44	3	327	340		2015

395	Stathi, P; Deligiannakis, Y; Avgouropoulos, G; Louloudi, M	Efficient H-2 production from formic acid by a supported iron catalyst on silica	APPLIED CATALYSIS A-GENERAL	498		176	184		2015
396	Angelopoulou, A; Efthimiadou, EK; Kordas, G	A new approach to fabricate bioactive silica binary and ternary hybrid microspheres	MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	53		76	82		2015
397	Lewandowski, M; Scheibe, B; Vasileiadis, T; Michalak, N; Milosz, Z; Ranecki, R; Mielcarek, S; Lucinski, T; Jurga, S	Raman spectroscopy indications of the Verwey transition in epitaxial Fe3O4(111) films on Pt(111) and Ru(0001)	SURFACE & COATINGS TECHNOLOGY	271		87	91		2015
398	Papavassiliou, GC; Vidali, MS; Pagona, G; Mousdis, GA; Karousis, N; Koutselas, I	Effects of organic moieties on the photoluminescence spectra of perovskite-type tin bromide based compounds	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	79		1	6		2015
399	Heist, LM; Poon, CD; Samulski, ET; Photinos, DJ; Jokisaari, J; Vaara, J; Emsley, JW; Mamone, S; Lelli, M	Benzene at 1 GHz. Magnetic field-induced fine structure	JOURNAL OF MAGNETIC RESONANCE	258		17	24		2015
400	Bourlinos, AB; Trivizas, G; Karakassides, MA; Baikousi, M; Kouloumpis, A; Gournis, D; Bakandritsos, A; Hola, K; Kozak, O; Zboril, R; Papagiannouli, I; Aloukos, P; Couris, S	Green and simple route toward boron doped carbon dots with significantly enhanced non-linear optical properties	CARBON	83		173	179		2015
401	Vasilopoulou, M; Georgiadou, DG; Soultati, A; Douvas, AM; Papadimitropoulos, G; Davazoglou, D; Pistolis, G; Stathopoulos, NA; Kamalakis, T; Alexandropoulos, D; Vainos, N; Politi, CT; Palilis, LC; Couris, S; Coutsolelos, AG; Argitis, P	Solution processed multi-color organic light emitting diodes for application in telecommunications	MICROELECTRONIC ENGINEERING	145		21	28		2015
402	Li, ZL; Kinloch, IA; Young, RJ; Novoselov, KS; Anagnostopoulos, G; Parthenios, J; Galiotis, C; Papagelis, K; Lu, CY; Britnell, L	Deformation of Wrinkled Graphene	ACS NANO	9	4	3917	3925		2015

403	Dimitriou, V; Kaselouris, E; Orphanos, Y; Bakarezos, M; Vainos, N; Tatarakis, M; Papadogiannis, NA	Three dimensional transient behavior of thin films surface under pulsed laser excitation (vol 103, 114104, 2013)	APPLIED PHYSICS LETTERS	107	17			179901	2015
404	Tomankova, K; Polakova, K; Pizova, K; Binder, S; Havrdova, M; Kolarova, M; Kriegova, E; Zapletalova, J; Malina, L; Horakova, J; Malohlava, J; Kolokithas-Ntoukas, A; Bakandritsos, A; Kolarova, H; Zboril, R	/In vitro cytotoxicity analysis of doxorubicinloaded/superparamagnetic iron oxide colloidal nanoassemblies on MCF7 and NIH3T3 cell lines	INTERNATIONAL JOURNAL OF NANOMEDICINE	10		949	961		2015
405	Tsonos, C; Kanapitsas, A; Psarras, GC; Speliotis, T	Effect of ZnO Nanoparticles on the Dielectric/Electrical and Thermal Properties of Epoxy-Based Nanocomposites	SCIENCE OF ADVANCED MATERIALS	7	3	588	597		2015
406	Jakobsson, A; Mavropoulos, P; Sasioglu, E; Blugel, S; Lezaic, M; Sanyal, B; Galanakis, I	First-principles calculations of exchange interactions, spin waves, and temperature dependence of magnetization in inverse-Heusler-based spin gapless semiconductors	PHYSICAL REVIEW B	91	17			174439	2015
407	Dimitriou, V; Kaselouris, E; Orphanos, Y; Bakarezos, M; Vainos, N; Nikolos, IK; Tatarakis, M; Papadogiannis, NA	The thermo-mechanical behavior of thin metal films under nanosecond laser pulse excitation above the thermoelastic regime	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	118	2	739	748		2015
408	Jomehzadeh, E; Saidi, AR; Jomehzadeh, Z; Bonaccorso, F; Palermo, V; Galiotis, C; Pugno, NM	Nonlinear subharmonic oscillation of orthotropic graphene-matrix composite	COMPUTATIONAL MATERIALS SCIENCE	99		164	172		2015
409	Peroukidis, SD	Biaxial mesophase behavior of amphiphilic anisometric colloids: a simulation study	SOFT MATTER	10	23	4199	4207		2014
410	Zeng, ZP; Gorgolis, G; Garoufalos, CS; Baskoutas, S	Competition Effects of Electric and Magnetic Fields on Impurity Binding Energy in a Disc-Shaped Quantum Dot in the Presence of Pressure and Temperature	SCIENCE OF ADVANCED MATERIALS	6	3	586	591		2014

411	Zeng, ZP; Garoufalis, CS; Baskoutas, S	Linear and nonlinear optical susceptibilities in a laterally coupled quantum-dot-quantum-ring system	PHYSICS LETTERS A	378	36	2713	2718		2014
412	Workineh, ZG; Vanakaras, AG	Surface-Induced Ordering on Model Liquid Crystalline Dendrimers	POLYMERS	6	8	2082	2099		2014
413	Zeng, ZP; Garoufalis, CS; Baskoutas, S	New Insights in the Excitonic Emission of ZnS Colloidal Quantum Dots	JOURNAL OF PHYSICAL CHEMISTRY C	118	19	10502	10508		2014
414	Psarras, GC	The ongoing impact of carbon (allotropic forms)/polymer composites	EXPRESS POLYMER LETTERS	8	2	73	73		2014
415	Patsidis, AC; Kalaitzidou, K; Psarras, GC	Graphite nanoplatelets/polymer nanocomposites: thermomechanical, dielectric, and functional behavior	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	116	1	41	49		2014
416	Evangelou, S; Yannopoulos, V; Paspalakis, E	Transient properties of transparency of a quantum system near a plasmonic nanostructure	OPTICS COMMUNICATIONS	314		36	40		2014
417	Aravantinos-Zafiris, N; Sigalas, MM; Economou, EN	Elastodynamic behavior of the three dimensional layer-by-layer metamaterial structure	JOURNAL OF APPLIED PHYSICS	116	13			133503	2014
418	Psarras, GC; Sofos, GA; Vradis, A; Anastassopoulos, DL; Georga, SN; Krontiras, CA; Karger-Kocsis, J	HNBR and its MWCNT reinforced nanocomposites: Crystalline morphology and electrical response	EUROPEAN POLYMER JOURNAL	54		190	199		2014
419	Galanakis, I	Correlation-induced magnetic order and magnetic phenomena in transition-metal d-doped cubic ZnO	PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS	8	3	274	278		2014
420	Sgouros, A; Sigalas, MM; Papagelis, K; Kalosakas, G	Transforming graphene nanoribbons into nanotubes by use of point defects	JOURNAL OF PHYSICS-CONDENSED MATTER	26	12			125301	2014

421	Papagiannouli, I; Maratou, E; Koutselas, I; Couris, S	Synthesis and Characterization of the Nonlinear Optical Properties of Novel Hybrid Organic-Inorganic Semiconductor Lead Iodide Quantum Wells and Dots	JOURNAL OF PHYSICAL CHEMISTRY C	118	5	2766	2775		2014
422	Sgouros, AP; Neupane, MR; Sigalas, MM; Aravantinos-Zafiris, N; Lake, RK	Nanoscale phononic interconnects in THz frequencies	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	16	42	23355	23364		2014
423	Chrissanthopoulos, A; Kyriazis, FC; Nikolakis, V; Giannakopoulos, IG; Dracopoulos, V; Baskoutas, S; Bouropoulos, N; Yannopoulos, SN	ZnO/zeolite hybrid nanostructures: synthesis, structure, optical properties, and simulation	THIN SOLID FILMS	555		21	27		2014
424	Aravantinos-Zafiris, N; Sigalas, MM; Kafesaki, M; Economou, EN	Phononic crystals and elastodynamics: Some relevant points	AIP ADVANCES	4	12			124203	2014
425	Hadjitheodorou, A; Kalosakas, G	Analytical and numerical study of diffusion-controlled drug release from composite spherical matrices	MATERIALS SCIENCE & ENGINEERING C- MATERIALS FOR BIOLOGICAL APPLICATIONS	42		681	690		2014
426	Mathioudakis, GN; Patsidis, AC; Psarras, GC	Dynamic electrical thermal analysis on zinc oxide/epoxy resin nanodielectrics	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	116	1	27	33		2014
427	Evangelou, S; Yannopapas, V; Paspalakis, E	Modification of Kerr nonlinearity in a four-level quantum system near a plasmonic nanostructure	JOURNAL OF MODERN OPTICS	61	18	1458	1464		2014
428	Voutsinas, E; Terzis, AF; Paspalakis, E	Control of indirect exciton population in an asymmetric quantum dot molecule	PHYSICS LETTERS A	378	3	219	225		2014
429	Asimakopoulos, IA; Psarras, GC; Zoumpoulakis, L	Barium titanate/polyester resin nanocomposites: Development, structure-properties relationship and energy storage capability	EXPRESS POLYMER LETTERS	8	9	692	707		2014

430	Paspalakis, E; Evangelou, S; Kosionis, SG; Terzis, AF	Strongly modified four-wave mixing in a coupled semiconductor quantum dot-metal nanoparticle system	JOURNAL OF APPLIED PHYSICS	115	8			83106	2014
431	Athanasekos, L; El Sachat, A; Pispas, S; Riziotis, C	Amphiphilic Diblock Copolymer-Based Multiagent Photonic Sensing Scheme	JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS	52	1	46	54		2014
432	Peroukidis, SD; Yannopapas, V; Vanakaras, AG; Droulias, S; Photinos, DJ	Plasmonic response of ordered arrays of gold nanorods immersed within a nematic liquid crystal	LIQUID CRYSTALS	41	10	1430	1435		2014
433	Zoppellaro, G; Kolokithas-Ntoukas, A; Polakova, K; Tucek, J; Zboril, R; Loudos, G; Fragogeorgi, E; Diwoky, C; Tomankova, K; Avgoustakis, K; Kouzoudis, D; Bakandritsos, A	Theranostics of Epitaxially Condensed Colloidal Nanocrystal Clusters, through a Soft Biomineralization Route	CHEMISTRY OF MATERIALS	26	6	2062	2074		2014
434	Galanakis, I; Ozdogan, K; Sasioglu, E; Blugel, S	Conditions for spin-gapless semiconducting behavior in Mn ₂ CoAl inverse Heusler compound	JOURNAL OF APPLIED PHYSICS	115	9			93908	2014
435	Vasileiadis, T; Yannopoulos, SN	Photo-induced oxidation and amorphization of trigonal tellurium: A means to engineer hybrid nanostructures and explore glass structure under spatial confinement	JOURNAL OF APPLIED PHYSICS	116	10			103510	2014
436	Galanakis, I; Ozdogan, K; Sasioglu, E; Blugel, S	Effect of disorder on the magnetic properties of cubic Mn ₂ RuxGa compounds: A first-principles study	JOURNAL OF APPLIED PHYSICS	116	3			33903	2014
437	Galanakis, I; Sasioglu, E; Blugel, S; Ozdogan, K	Voids-driven breakdown of the local symmetry and Slater-Pauling rule in half-metallic Heusler compounds	PHYSICAL REVIEW B	90	6			64408	2014

438	Avgouropoulos, G; Paxinou, A; Neophytides, S	In situ hydrogen utilization in an internal reforming methanol fuel cell	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	39	31	18103	18108		2014
439	Galanakis, I; Ozdogan, K; Sasioglu, E	High-T-C fully compensated ferrimagnetic semiconductors as spin-filter materials: the case of CrVXAl (X = Ti, Zr, Hf) Heusler compounds	JOURNAL OF PHYSICS-CONDENSED MATTER	26	8			86003	2014
440	Galanakis, I; Ozdogan, K; Sasioglu, E	High-T-C fully compensated ferrimagnetic semiconductors as spin-filter materials: the case of CrVXAl (X = Ti, Zr, Hf) Heusler compounds (vol 26, 086003, 2014)	JOURNAL OF PHYSICS-CONDENSED MATTER	26	37			379501	2014
441	Efthimiadou, EK; Tapeinos, C; Tziveleka, LA; Boukos, N; Kordas, G	pH- and thermo-responsive microcontainers as potential drug delivery systems: Morphological characteristic, release and cytotoxicity studies	MATERIALS SCIENCE & ENGINEERING C- MATERIALS FOR BIOLOGICAL APPLICATIONS	37		271	277		2014
442	Karahaliou, PK; Kerasidou, AP; Georga, SN; Psarras, GC; Krontiras, CA; Karger-Kocsis, J	Dielectric relaxations in polyoxymethylene and in related nanocomposites: Identification and molecular dynamics	POLYMER	55	26	6819	6826		2014
443	Papagiannouli, I; Bourlinos, AB; Bakandritsos, A; Couris, S	Nonlinear optical properties of colloidal carbon nanoparticles: nanodiamonds and carbon dots	RSC ADVANCES	4	76	40152	40160		2014
444	Soultati, A; Georgiadou, DG; Douvas, A; Argitis, P; Alexandropoulos, D; Vainos, NA; Stathopoulos, NA; Papadimitropoulos, G; Davazoglou, D; Vasilopoulou, M	The role of metal/metal oxide/organic anode interfaces in efficiency and stability of bulk heterojunction organic photodetectors	MICROELECTRONIC ENGINEERING	117		13	17		2014
445	Lamprou, M; Sarigiannis, Y; Bakandritsos, A; Avgoustakis, K; Winnefeld, F; Pispas, S; Meristoudi, A; Zboril, R; Papadimitriou, E	Effects of poly(methacrylic acid)-graft-poly(ethylene glycol) coated magnetic nanoparticles on drug delivery to endothelial and cancer cells	ANGIOGENESIS	17	3	758	759		2014

446	Androulidakis, C; Koukaras, EN; Frank, O; Tsoukleri, G; Sfyris, D; Parthenios, J; Pugno, N; Papangelis, K; Novoselov, KS; Galiotis, C	Failure Processes in Embedded Monolayer Graphene under Axial Compression	SCIENTIFIC REPORTS	4				5271	2014
447	Govatsi, K; Chrissanthopoulos, A; Dracopoulos, V; Yannopoulos, SN	The influence of Au film thickness and annealing conditions on the VLS-assisted growth of ZnO nanostructures	NANOTECHNOLOGY	25	21			215601	2014
448	Angelopoulou, A; Efthimiadou, EK; Boukos, N; Kordas, G	A new approach for the one-step synthesis of bioactive PS vs. PMMA silica hybrid microspheres as potential drug delivery systems	COLLOIDS AND SURFACES B-BIOINTERFACES	117		322	329		2014
449	Markova, Z; Havrdova, M; Polakova, K; Tucek, J; Kubinek, R; Bakandritsos, A; Gerasimovskaya, E; Moldovan, R; Paucek, P; Zboril, R	Antibody - Conjugated Superparamagnetic Iron Oxide Nanoparticles for Active Targeting of Adenosine Receptors	BIOPHYSICAL JOURNAL	106	2	419A	419A		2014
450	Sharma, GD; Keshtov, ML; Khokhlov, AR; Tasis, D; Galiotis, C	Improved power conversion efficiency by insertion of RGO-TiO ₂ composite layer as optical spacer in polymer bulk heterojunction solar cells	ORGANIC ELECTRONICS	15	2	348	355		2014
451	Efthimiadou, EK; Tapeinos, C; Chatzipavlidis, A; Boukos, N; Fragogeorgi, E; Palamaris, L; Loudos, G; Kordas, G	Dynamic in vivo imaging of dual-triggered microspheres for sustained release applications: Synthesis, characterization and cytotoxicity study	INTERNATIONAL JOURNAL OF PHARMACEUTICS	461	1-2	54	63		2014
452	Sigalas, MM; Koukaras, EN; Zdetsis, AD	Size dependence of the structural, electronic, and optical properties of (CdSe)(n), n=6-60, nanocrystals	RSC ADVANCES	4	28	14613	14623		2014
453	Haladjova, E; Rangelov, S; Tsvetanov, CB; Posheva, V; Peycheva, E; Maximova, V; Momekova, D; Mountrichas, G; Pispas, S; Bakandritsos, A	Enhanced Gene Expression Promoted by Hybrid Magnetic/Cationic Block Copolymer Micelles	LANGMUIR	30	27	8193	8200		2014

454	Mei, H; Bai, QL; Dassios, K; Li, HQ; Cheng, LF; Galiotis, C	MORPHOLOGICAL AND MICROSTRUCTURAL PROPERTY COMPARISON OF BULK AND ALIGNED CVD-GROWN CARBON NANOTUBES	ADVANCED COMPOSITES LETTERS	23	1	5	10		2014
455	Pappas, SD; Delimitis, A; Kapaklis, V; Papaioannou, ET; Pouloupoulos, P; Trachylis, D; Velgakis, MJ; Politis, C	Natural Nanomorphous Ni/NiO Magnetic Multilayers: Structure and Magnetism of the High-Pressure Series	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	14	8	6103	6107		2014
456	Pouloupoulos, P; Goschew, A; Kapaklis, V; Wolff, M; Delimitis, A; Wilhelm, F; Rogalev, A; Pappas, SD; Straub, A; Fumagalli, P	Induced spin-polarization of EuS at room temperature in Ni/EuS multilayers	APPLIED PHYSICS LETTERS	104	11			112411	2014
457	Spanakis, M; Bouropoulos, N; Theodoropoulos, D; Sygellou, L; Ewart, S; Moschovi, AM; Siokou, A; Niopas, I; Kachrimanis, K; Nikolakis, V; Cox, PA; Vizirianakis, IS; Fatouros, DG	Controlled release of 5-fluorouracil from microporous zeolites	NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE	10	1	197	205		2014
458	Karavasili, C; Bouropoulos, N; Kontopoulou, I; Smith, A; van der Merwe, SM; Rehman, IUR; Ahmad, Z; Fatouros, DG	Preparation and characterization of multiactive electrospun fibers: Poly-epsilon-caprolactone fibers loaded with hydroxyapatite and selected NSAIDs	JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A	102	8	2583	2589		2014
459	Muhammad, Y; Magnus, F; Thersleff, T; Pouloupoulos, P; Kapaklis, V; Leifer, K; Hjorvarsson, B	Growth of polycrystalline Ag/Ni multilayers at room temperature	THIN SOLID FILMS	558		184	188		2014
460	Zdetsis, AD; Sigalas, MM; Koukaras, EN	Ab initio theoretical investigation of beryllium and beryllium hydride nanoparticles and nanocrystals with implications for the corresponding infinite systems	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	16	27	14172	14182		2014
461	Rasekh, M; Karavasili, C; Soong, YL; Bouropoulos, N; Morris, M; Armitage, D; Li, X; Fatouros, DG; Ahmad, Z	Electrospun PVP-indomethacin constituents for transdermal dressings and drug delivery devices	INTERNATIONAL JOURNAL OF PHARMACEUTICS	473	1-2	95	104		2014

462	Karavasili, C; Katsamenis, OL; Bouropoulos, N; Nazar, H; Thurner, PJ; van der Merwe, SM; Fatouros, DG	Preparation and Characterization of Bioadhesive Microparticles Comprised of Low Degree of Quaternization Trimethylated Chitosan for Nasal Administration: Effect of Concentration and Molecular Weight	LANGMUIR	30	41	12337	12344		2014
463	Tsoufis, T; Ampoumogli, A; Gournis, D; Georgakilas, V; Jankovic, L; Christoforidis, KC; Deligiannakis, Y; Mavrandonakis, A; Froudakis, GE; Maccallini, E; Rudolf, P; Mateo-Alonso, A; Prato, M	Direct observation of spin-injection in tyrosinate-functionalized single-wall carbon nanotubes	CARBON	67		424	433		2014
464	Kumar, A	Determination of orientational order and effective geometry parameter from refractive indices of some nematics	LIQUID CRYSTALS	40	4	503	510		2013
465	Peroukidis, SD; Vanakaras, AG	Phase diagram of hard board-like colloids from computer simulations	SOFT MATTER	9	31	7419	7423		2013
466	Kumar, A	On the Dielectric and Splay Elastic Constants of Nematic Liquid Crystals With Positive Dielectric Anisotropy	MOLECULAR CRYSTALS AND LIQUID CRYSTALS	575	1	30	39		2013
467	Fountoulakis, A; Paspalakis, E	Coherent electron transfer in a coupled quantum dot nanostructure using stimulated Raman adiabatic passage	JOURNAL OF APPLIED PHYSICS	113	17			174301	2013
468	Tsaousidou, M	Ultra-low acoustic-phonon-limited mobility and giant phonon-drag thermopower in MgZnO/ZnO heterostructures	PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS	7	8	554	557		2013

469	Kumar, A	Temperature and Wavelength Dependence of Effective Geometry Parameter and a Comparative Study of Orientational Order	MOLECULAR CRYSTALS AND LIQUID CRYSTALS	582	1	43	55		2013
470	Peroukidis, SD; Vanakaras, AG; Photinos, DJ	Supramolecular nature of the nematic-nematic phase transitions of hard boardlike molecules	PHYSICAL REVIEW E	88	6			62508	2013
471	Yannopapas, V; Fytas, N; Kyrimi, V; Kallos, E; Vanakaras, AG; Photinos, DJ	Light scattering by a metallic nanoparticle coated with a nematic liquid crystal	PHYSICA STATUS SOLIDI A- APPLICATIONS AND MATERIALS SCIENCE	210	2	335	340		2013
472	Kumar, A	The crossover temperature of nematic liquid crystals in the visible spectral range	LIQUID CRYSTALS	40	10	1422	1426		2013
473	Aravantinos-Zafiris, N; Sigalas, MM	Band Gaps in Three-Dimensional Layer-by-Layer Phononic Crystal	JOURNAL OF VIBRATION AND ACOUSTICS- TRANSACTIONS OF THE ASME	135	4			41003	2013
474	Droulias, S; Yannopapas, V	Broad-Band Giant Circular Dichroism in Metamaterials of Twisted Chains of Metallic Nanoparticles	JOURNAL OF PHYSICAL CHEMISTRY C	117	2	1130	1135		2013
475	Pontikopoulos, PL; Psarras, GC	Dynamic Percolation and Dielectric Response in Multiwall Carbon Nanotubes/Poly(ethylene oxide) Composites	SCIENCE OF ADVANCED MATERIALS	5	1	14	20		2013
476	Paspalakis, E; Boviatsis, J; Baskoutas, S	Effects of probe field intensity in nonlinear optical processes in asymmetric semiconductor quantum dots	JOURNAL OF APPLIED PHYSICS	114	15			153107	2013
477	Kalosakas, G; Spanou, E	Distance dependence of hole transfer rates from G radical cations to GGG traps in DNA	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	15	37	15339	15346		2013

478	Yannopapas, V; Vitanov, NV	Spatiotemporal Control of Temperature in Nanostructures Heated by Coherent Laser Fields	PHYSICAL REVIEW LETTERS	110	4			44302	2013
479	Tasis, D; Papagelis, K; Spiliopoulos, P; Galiotis, C	Efficient exfoliation of graphene sheets in binary solvents	MATERIALS LETTERS	94		47	50		2013
480	Yannopapas, V	Localized Heating of Nanostructures by Coherent Laser Pulses	JOURNAL OF PHYSICAL CHEMISTRY C	117	27	14183	14188		2013
481	Bouropoulos, N	Formation and Characterization of ZnO Nanoparticles in the Ionic Liquid 1-Butyl-3-Methylimidazolium Chloride	SCIENCE OF ADVANCED MATERIALS	5	1	46	50		2013
482	Paspalakis, E; Evangelou, S; Terzis, AF	Control of excitonic population inversion in a coupled semiconductor quantum dot-metal nanoparticle system	PHYSICAL REVIEW B	87	23			235302	2013
483	Hadjitheodorou, A; Kalosakas, G	Quantifying diffusion-controlled drug release from spherical devices using Monte Carlo simulations	MATERIALS SCIENCE & ENGINEERING C- MATERIALS FOR BIOLOGICAL APPLICATIONS	33	2	763	768		2013
484	Zeng, ZP; Paspalakis, E; Garoufalis, CS; Terzis, AF; Baskoutas, S	Optical susceptibilities in singly charged ZnO colloidal quantum dots embedded in different dielectric matrices	JOURNAL OF APPLIED PHYSICS	113	5			54303	2013
485	Zeng, ZP; Garoufalis, CS; Baskoutas, S; Bester, G	Electronic and optical properties of ZnO quantum dots under hydrostatic pressure	PHYSICAL REVIEW B	87	12			125302	2013
486	Zeng, ZP; Garoufalis, CS; Terzis, AF; Baskoutas, S	Linear and nonlinear optical properties of ZnO/ZnS and ZnS/ZnO core shell quantum dots: Effects of shell thickness, impurity, and dielectric environment	JOURNAL OF APPLIED PHYSICS	114	2			23510	2013

487	Tsaousidou, M; Kubakaddi, SS; Lehmann, D	Effect of band anisotropy on phonon-drag thermopower in AIAs quantum wells: Strong enhancement of phonon drag	PHYSICAL REVIEW B	87	16			165304	2013
488	Kalosakas, G; Lathiotakis, NN; Galiotis, C; Papagelis, K	In-plane force fields and elastic properties of graphene	JOURNAL OF APPLIED PHYSICS	113	13			134307	2013
489	Patsidis, AC; Psarras, GC	Structural transition, dielectric properties and functionality in epoxy resin-barium titanate nanocomposites	SMART MATERIALS AND STRUCTURES	22	11			115006	2013
490	Tzavara, D; Papadia, K; Bakandritsos, A; Antimisiaris, SG	Development of targeted paramagnetic nanoparticles	EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES	50		E98	E99		2013
491	Ravani, F; Papagelis, K; Dracopoulos, V; Parthenios, J; Dassios, KG; Siokou, A; Galiotis, C	Graphene production by dissociation of camphor molecules on nickel substrate	THIN SOLID FILMS	527		31	37		2013
492	Tzanetopoulos, P; Kalosakas, G; Antimisiaris, SG	MODELING OF RELEASE KINETICS OF WATER-SOLUBLE MOLECULES FROM SUV LIPOSOMES	EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES	50		E96	E97		2013
493	Kosionis, SG; Terzis, AF; Paspalakis, E	Transient four-wave mixing in intersubband transitions of semiconductor quantum wells	JOURNAL OF LUMINESCENCE	140		130	134		2013
494	Georgakilas, V; Kouloumpis, A; Gournis, D; Bourlinos, A; Trapalis, C; Zboril, R	Tuning the Dispersibility of Carbon Nanostructures from Organophilic to Hydrophilic: Towards the Preparation of New Multipurpose Carbon-Based Hybrids	CHEMISTRY-A EUROPEAN JOURNAL	19	38	12884	12891		2013
495	Faklaris, I; Bouropoulos, N; Vainos, NA	Composition and morphological characteristics of sialoliths	CRYSTAL RESEARCH AND TECHNOLOGY	48	9	632	640		2013
496	Paspalakis, E; Evangelou, S; Yannopapas, V; Terzis, AF	Phase-dependent optical effects in a four-level quantum system near a plasmonic nanostructure	PHYSICAL REVIEW A	88	5			53832	2013

497	Perrone, G; De Girolamo, A; Sarigiannis, Y; Haidukowski, ME; Visconti, A	Occurrence of ochratoxin A, fumonisin B-2 and black aspergilli in raisins from Western Greece regions in relation to environmental and geographical factors	FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT	30	7	1339	1347		2013
498	Nikolakopoulou, A; Tasis, D; Sygellou, L; Dracopoulos, V; Galiotis, C; Lianos, P	Study of the thermal reduction of graphene oxide and of its application as electrocatalyst in quasi-solid state dye-sensitized solar cells in combination with PEDOT	ELECTROCHIMICA ACTA	111		698	706		2013
499	Aspiotis, N; El Sachat, A; Athanasekos, L; Vasileiadis, M; Mousdis, G; Vainos, N; Riziotis, C	Diffraction Ammonia Sensors Based on Sol-Gel Nanocomposites Materials	SENSOR LETTERS	11	8	1415	1419		2013
500	Trakakis, G; Tasis, D; Parthenios, J; Galiotis, C; Papagelis, K	Structural Properties of Chemically Functionalized Carbon Nanotube Thin Films	MATERIALS	6	6	2360	2371		2013
501	Kosionis, SG; Terzis, AF; Sadeghi, SM; Paspalakis, E	Optical response of a quantum dot-metal nanoparticle hybrid interacting with a weak probe field	JOURNAL OF PHYSICS-CONDENSED MATTER	25	4			45304	2013
502	Trakakis, G; Tasis, D; Aggelopoulos, C; Parthenios, J; Galiotis, C; Papagelis, K	Open structured in comparison with dense multi-walled carbon nanotube buckypapers and their composites	COMPOSITES SCIENCE AND TECHNOLOGY	77		52	59		2013
503	Pappas, SD; Grammatikopoulos, S; Pouloupoulos, P; Trachylis, D; Velgakis, MJ; Meletis, EI; Schommers, W; Politis, C	Growth, Structure and Optical Properties of CuNi-oxide Films for Nanophotonics and Photovoltaics	JOURNAL OF NANO RESEARCH	25		61	66		2013
504	Khachadorian, S; Papagelis, K; Ogata, K; Hofmann, S; Phillips, MR; Thomsen, C	Elastic Properties of Crystalline-Amorphous Core-Shell Silicon Nanowires	JOURNAL OF PHYSICAL CHEMISTRY C	117	8	4219	4226		2013
505	Skaftouros, S; Ozdogan, K; Sasioglu, E; Galanakis, I	Generalized Slater-Pauling rule for the inverse Heusler compounds	PHYSICAL REVIEW B	87	2			24420	2013

506	Skaftouros, S; Ozdogan, K; Sasioglu, E; Galanakis, I	Search for spin gapless semiconductors: The case of inverse Heusler compounds	APPLIED PHYSICS LETTERS	102	2			22402	2013
507	Galanakis, I; Ozdogan, K; Sasioglu, E	A proposal for an alternative class of spin filter materials: Hybridization-induced high-T-C ferromagnetic semiconductors CoVXAl (X = Ti, Zr, Hf)	APPLIED PHYSICS LETTERS	103	14			142404	2013
508	Lorusso, A; Cola, A; Gontad, F; Koutselas, I; Panareo, M; Vainos, NA; Perrone, A	New configuration of metallic photocathodes prepared by pulsed laser deposition	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	724		72	75		2013
509	Vasileiadis, T; Dracopoulos, V; Kollia, M; Yannopoulos, SN	Laser-Assisted Growth of t-Te Nanotubes and their Controlled Photo-induced Unzipping to ultrathin core-Te/sheath-TeO ₂ Nanowires	SCIENTIFIC REPORTS	3				1209	2013
510	Tsoufis, T; Georgakilas, V; Ke, XX; Van Tendeloo, G; Rudolf, P; Gournis, D	Incorporation of Pure Fullerene into Organoclays: Towards C ₆₀ -Pillared Clay Structures	CHEMISTRY-A EUROPEAN JOURNAL	19	24	7937	7943		2013
511	Azizian-Kalandaragh, Y; Khodayari, A; Zeng, ZP; Garoufalidis, CS; Baskoutas, S; Gontard, LC	Strong quantum confinement effects in SnS nanocrystals produced by ultrasound-assisted method	JOURNAL OF NANOPARTICLE RESEARCH	15	1			1388	2013
512	Umar, A; Akhtar, MS; Dar, GN; Baskoutas, S	Low-temperature synthesis of alpha-Fe ₂ O ₃ hexagonal nanoparticles for environmental remediation and smart sensor applications	TALANTA	116		1060	1066		2013

513	Pastore Carbone, MG; Parthenios, J; Tsoukleri, G; Cotugno, S; Mensitieri, G; Galiotis, C	Assessing micromechanical behaviour of PET cords in rubber matrix composites by laser Raman microscopy	COMPOSITES SCIENCE AND TECHNOLOGY	85		104	110		2013
514	Androvitsaneas, P; Terzis, AF; Paspalakis, E	Localizable entanglement in antiferromagnetic and mixed Heisenberg chains: a quantum Monte Carlo study	QUANTUM INFORMATION PROCESSING	12	2	831	840		2013
515	Kourkouli, SN; Siokou, A; Stefopoulos, AA; Ravani, F; Plocke, T; Muller, M; Maultzsch, J; Thomsen, C; Papagelis, K; Kallitsis, JK	Electronic Properties of Semiconducting Polymer-Functionalized Single Wall Carbon Nanotubes	MACROMOLECULES	46	7	2590	2598		2013
516	Kytariolos, J; Charkoftaki, G; Smith, JR; Voyiatzis, G; Chrissanthopoulos, A; Yannopoulos, SN; Fatouros, DG; Macheras, P	Stability and physicochemical characterization of novel milk-based oral formulations	INTERNATIONAL JOURNAL OF PHARMACEUTICS	444	1-2	128	138		2013
517	Pappas, SD; Pouloupoulos, P; Lewitz, B; Straub, A; Goschew, A; Kapaklis, V; Wilhelm, F; Rogalev, A; Fumagalli, P	Direct evidence for significant spin-polarization of EuS in Co/EuS multilayers at room temperature	SCIENTIFIC REPORTS	3				1333	2013
518	Knychala, J; Bouropoulos, N; Catt, CJ; Katsamenis, OL; Please, CP; Sengers, BG	Pore Geometry Regulates Early Stage Human Bone Marrow Cell Tissue Formation and Organisation	ANNALS OF BIOMEDICAL ENGINEERING	41	5	917	930		2013
519	Liaros, N; Aloukos, P; Kolokithas-Ntoukas, A; Bakandritsos, A; Szabo, T; Zboril, R; Couris, S	Nonlinear Optical Properties and Broadband Optical Power Limiting Action of Graphene Oxide Colloids	JOURNAL OF PHYSICAL CHEMISTRY C	117	13	6842	6850		2013
520	Filintoglou, K; Papadopoulos, N; Arvanitidis, J; Christofilos, D; Frank, O; Kalbac, M; Parthenios, J; Kalosakas, G; Galiotis, C; Papagelis, K	Raman spectroscopy of graphene at high pressure: Effects of the substrate and the pressure transmitting media	PHYSICAL REVIEW B	88	4			45418	2013
521	Umar, A; Akhtar, MS; Dar, GN; Abaker, M; Al-Hajry, A; Baskoutas, S	Visible-light-driven photocatalytic and chemical sensing properties of SnS ₂ nanoflakes	TALANTA	114		183	190		2013

522	Tabakova, T; Idakiev, V; Avgouropoulos, G; Papavasiliou, J; Manzoli, M; Boccuzzi, F; Ioannides, T	Highly active copper catalyst for low temperature water-gas shift reaction prepared via a Cu-Mn spinel oxide precursor	APPLIED CATALYSIS A-GENERAL	451		184	191		2013
523	Tirpanci, A; Sasioglu, E; Galanakis, I	Design of half-metallic Heusler-based superlattices with vanishing net magnetization	JOURNAL OF APPLIED PHYSICS	113	4			43912	2013
524	Sava, I; Odysseos, AD; Evaggelou, L; Marinica, O; Vasile, E; Vekas, L; Sarigiannis, Y; Krasia-Christoforou, T	Fabrication, Characterization, and Evaluation in Drug Release Properties of Magnetoactive Poly(ethylene oxide)-Poly(L-lactide) Electrospun Membranes	BIOMACROMOLECULES	14	12	4436	4446		2013
525	Grammatikopoulos, S; Pappas, SD; Dracopoulos, V; Pouloupoulos, P; Fumagalli, P; Velgakis, MJ; Politis, C	Self-assembled Au nanoparticles on heated Corning glass by dc magnetron sputtering: size-dependent surface plasmon resonance tuning	JOURNAL OF NANOPARTICLE RESEARCH	15	2			1446	2013
526	Dimitriou, V; Kaselouris, E; Orphanos, Y; Bakarezos, M; Vainos, N; Tatarakis, M; Papadogiannis, NA	Three dimensional transient behavior of thin films surface under pulsed laser excitation	APPLIED PHYSICS LETTERS	103	11			114104	2013
527	Sasioglu, E; Galanakis, I; Friedrich, C; Blugel, S	Ab initio calculation of the effective on-site Coulomb interaction parameters for half-metallic magnets	PHYSICAL REVIEW B	88	13			134402	2013
528	Umar, A; Akhtar, MS; Badran, RI; Abaker, M; Kim, SH; Al-Hajry, A; Baskoutas, S	Electrical properties of solution processed p-SnS nanosheets/n-TiO ₂ heterojunction assembly	APPLIED PHYSICS LETTERS	103	10			101602	2013
529	Dingemans, TJ; Madsen, LA; Francescangeli, O; Vita, F; Photinos, DJ; Poon, CD; Samulski, ET	The biaxial nematic phase of oxadiazole biphenol mesogens	LIQUID CRYSTALS	40	12	1655	1677		2013
530	Orphanos, Y; Dimitriou, V; Kaselouris, E; Bakarezos, E; Vainos, N; Tatarakis, M; Papadogiannis, NA	An integrated method for material properties characterization based on pulsed laser generated surface acoustic waves	MICROELECTRONIC ENGINEERING	112		249	254		2013

531	Tapeinos, C; Efthimiadou, EK; Boukos, N; Charitidis, CA; Koklioti, M; Kordas, G	Microspheres as therapeutic delivery agents: synthesis and biological evaluation of pH responsiveness	JOURNAL OF MATERIALS CHEMISTRY B	1	2	194	203		2013
532	Jomehzadeh, E; Afshar, MK; Galiotis, C; Shi, X; Pugno, NM	Nonlinear softening and hardening nonlocal bending stiffness of an initially curved monolayer graphene	INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS	56		123	131		2013
533	Ozdogan, K; Sasioglu, E; Galanakis, I	Slater-Pauling behavior in LiMgPdSn-type multifunctional quaternary Heusler materials: Half-metallicity, spin-gapless and magnetic semiconductors	JOURNAL OF APPLIED PHYSICS	113	19			193903	2013
534	Bourlinos, AB; Karakassides, MA; Kouloumpis, A; Gournis, D; Bakandritsos, A; Papagiannouli, I; Aloukos, P; Couris, S; Hola, K; Zboril, R; Krysmann, M; Giannelis, EP	Synthesis, characterization and non-linear optical response of organophilic carbon dots	CARBON	61		640	643		2013
535	Peroukidis, SD	Entropy driven polymorphism in liquids and mesophases consisting of three block amphiphilic molecules	SOFT MATTER	8	43	11062	11071		2012
536	Aravantinos-Zafiris, N; Sigalas, MM	Bandgaps in phononic strip waveguides	JOURNAL OF APPLIED PHYSICS	111	12			123516	2012
537	Yannopapas, V; Psarobas, IE	Ordered Arrays of Metal Nanostrings as Broadband Super Absorbers	JOURNAL OF PHYSICAL CHEMISTRY C	116	29	15599	15603		2012
538	Yannopapas, V	Photonic nanojets as three-dimensional optical atom traps: A theoretical study	OPTICS COMMUNICATIONS	285	12	2952	2955		2012
539	Yannopapas, V; Psarobas, IE	Lasing action in multilayers of alternating monolayers of metallic nanoparticles and dielectric slabs with gain	JOURNAL OF OPTICS	14	3			35101	2012
540	Kallos, E; Yannopapas, V; Photinos, DJ	Enhanced light absorption using optical diodes based on cholesteric liquid crystals	OPTICAL MATERIALS EXPRESS	2	10	1449	1461		2012

541	Yannopapas, V	Non-reciprocal photonic bands in a two-dimensional holey metal filled with a magnetoelectric material	JOURNAL OF OPTICS	14	8			85105	2012
542	Evangelou, S; Yannopapas, V; Paspalakis, E	Transparency and slow light in a four-level quantum system near a plasmonic nanostructure	PHYSICAL REVIEW A	86	5			53811	2012
543	Kaproulias, S; Sigalas, MM	On the sensitivity of the 2D electromagnetic invisibility cloak	PHYSICA B- CONDENSED MATTER	407	20	4078	4080		2012
544	Baskoutas, S; Zeng, ZP; Garoufalis, CS; Bester, G	Tuning of the Optical Emission Polarization of ZnO Nanorods by an Applied Hydrostatic Pressure	JOURNAL OF PHYSICAL CHEMISTRY C	116	50	26592	26597		2012
545	Zeng, ZP; Garoufalis, CS; Baskoutas, S	Combination effects of tilted electric and magnetic fields on donor binding energy in a GaAs/AlGaAs cylindrical quantum dot	JOURNAL OF PHYSICS D-APPLIED PHYSICS	45	23			235102	2012
546	Sigalas, MM; Koukaras, EN	Phononic bandgaps in graphene-based materials	APPLIED PHYSICS LETTERS	100	20			203109	2012
547	Patsidis, AC; Kalaitzidou, K; Psarras, GC	Dielectric response, functionality and energy storage in epoxy nanocomposites: Barium titanate vs exfoliated graphite nanoplatelets	MATERIALS CHEMISTRY AND PHYSICS	135	2-3	798	805		2012
548	Kallos, E; Chremmos, I; Yannopapas, V	Resonance properties of optical all-dielectric metamaterials using two-dimensional multipole expansion	PHYSICAL REVIEW B	86	24			245108	2012
549	Athanasekos, L; Vasileiadis, M; Mantzaridis, C; Karoutsos, VC; Koutselas, I; Pispas, S; Vainos, NA	Micro-fabrication by laser radiation forces: A direct route to reversible free-standing three-dimensional structures	OPTICS EXPRESS	20	22	24735	24740		2012
550	Karoutsos, V; Toudas, M; Delimitis, A; Grammatikopoulos, S; Pouloupoulos, P	Microstructural evolution in nanostructured gold films	THIN SOLID FILMS	520	11	4074	4079		2012

551	Zeng, Z; Garoufalidis, CS; Baskoutas, S; Terzis, AF	Stark effect of donor binding energy in a self-assembled GaAs quantum dot subjected to a tilted electric field	PHYSICS LETTERS A	376	42-43	2712	2716		2012
552	Zeng, ZP; Garoufalidis, CS; Baskoutas, S; Terzis, AF	Tuning the binding energy of surface impurities in cylindrical GaAs/AlGaAs quantum dots by a tilted magnetic field	JOURNAL OF APPLIED PHYSICS	112	6			64326	2012
553	Sgouros, A; Sigalas, MM; Kalosakas, G; Papagelis, K; Papanicolaou, NI	Phononic band gap engineering in graphene	JOURNAL OF APPLIED PHYSICS	112	9			94307	2012
554	Yannopoulos, V	Topological photonic bands in two-dimensional networks of metamaterial elements	NEW JOURNAL OF PHYSICS	14				113017	2012
555	Tantis, I; Psarras, GC; Tasis, D	Functionalized graphene - poly(vinyl alcohol) nanocomposites: Physical and dielectric properties	EXPRESS POLYMER LETTERS	6	4	283	292		2012
556	Paspalakis, E; Boviatis, J	Ultrashort electromagnetic pulse control of intersubband quantum well transitions	NANOSCALE RESEARCH LETTERS	7				478	2012
557	Kyrimi, V; Kallos, E; Sigalas, MM	On the Sensitivity of Practical Electromagnetic Ground Plane Cloaks	IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	60	11	5460	5463		2012
558	Calo, G; Alexandropoulos, D; Petruzzelli, V	Active Photonic Band-Gap Switch Based on GaInNAs Multi-quantum Well	IEEE PHOTONICS JOURNAL	4	5	1936	1946		2012
559	Galanakis, I; Ozdogan, K; Sasioglu, E	Half-metallic antiferromagnetism in Cr _{2+x} Se (0 ≤ x ≤ 1): A first-principles study	PHYSICAL REVIEW B	86	13			134427	2012
560	Asimakopoulos, I; Zoumpoulakis, L; Psarras, GC	Development and characterization of a novolac resin/BaTiO ₃ nanoparticles composite system	JOURNAL OF APPLIED POLYMER SCIENCE	125	5	3737	3744		2012

561	Avgouropoulos, G; Neophytides, SG	Performance of internal reforming methanol fuel cell under various methanol/water concentrations	JOURNAL OF APPLIED ELECTROCHEMISTRY	42	9	719	726		2012
562	Terzis, AF; Androvitsaneas, P; Paspalakis, E	Thermal quantum discord and classical correlations in a two-qubit Ising model under a site-dependent magnetic field	QUANTUM INFORMATION PROCESSING	11	6	1931	1950		2012
563	Kosionis, SG; Terzis, AF; Paspalakis, E	Transient effects of pump-probe optical response in intersubband transitions of semiconductor quantum wells	JOURNAL OF APPLIED PHYSICS	112	7			73117	2012
564	Androvitsaneas, P; Paspalakis, E; Terzis, AF	A quantum Monte Carlo study of the localizable entanglement in anisotropic ferromagnetic Heisenberg chains	ANNALS OF PHYSICS	327	2	212	223		2012
565	Adams, MJ; Alexandropoulos, D	Analysis of Quantum-Dot Spin-VCSELS	IEEE PHOTONICS JOURNAL	4	4	1124	1132		2012
566	Alexandropoulos, D; Al-Seyab, R; Henning, I; Adams, M	Instabilities in quantum-dot spin-VCSELS	OPTICS LETTERS	37	10	1700	1702		2012
567	Bouropoulos, N; Katsamenis, OL; Cox, PA; Norman, S; Kallinteri, P; Favretto, ME; Yannopoulos, SN; Bakandritsos, A; Fatouros, DG	Probing the Perturbation of Lecithin Bilayers by Unmodified C-60 Fullerenes Using Experimental Methods and Computational Simulations	JOURNAL OF PHYSICAL CHEMISTRY C	116	6	3867	3874		2012
568	Papavassiliou, GC; Pagona, G; Karousis, N; Mousdis, GA; Koutselas, I; Vassilakopoulou, A	Nanocrystalline/microcrystalline materials based on lead-halide units	JOURNAL OF MATERIALS CHEMISTRY	22	17	8271	8280		2012
569	Galanakis, I; Sasioglu, E	Ab-initio calculation of effective exchange interactions, spin waves, and Curie temperature in L2(1)- and L1(2)-type local moment ferromagnets	JOURNAL OF MATERIALS SCIENCE	47	21	7678	7685		2012

570	Dimos, K; Antoniou, MK; Meichanetzoglou, A; Lympelopoulou, S; Ouzouni, MD; Koutselas, IB; Fokas, D; Karakassides, MA; Agostino, RG; Gournis, D	Naphthalene-based periodic nanoporous organosilicas: I. Synthesis and structural characterization	MICROPOROUS AND MESOPOROUS MATERIALS	158		324	331		2012
571	Sfaelou, S; Antoniadou, M; Trakakis, G; Dracopoulos, V; Tasis, D; Parthenios, J; Galiotis, C; Papagelis, K; Lianos, P	Buckypaper as Pt-free cathode electrode in photoactivated fuel cells	ELECTROCHIMICA ACTA	80		399	404		2012
572	Dassios, KG; Galiotis, C	Polymer-nanotube interaction in MWCNT/poly(vinyl alcohol) composite mats	CARBON	50	11	4291	4294		2012
573	Kominis, Y; Droulias, S; Papagiannis, P; Hizanidis, K	Gain-controlled dissipative soliton routing in optical lattices	PHYSICAL REVIEW A	85	6			63801	2012
574	Antoniou, MK; Policicchio, A; Dimos, K; Gournis, D; Karakassides, MA; Agostino, RG	Naphthalene-based periodic nanoporous organosilicas: II. Hydrogen and methane adsorption and physicochemical study	MICROPOROUS AND MESOPOROUS MATERIALS	158		332	338		2012
575	Pouloupoulos, P; Lewitz, B; Straub, A; Pappas, SD; Droulias, SA; Baskoutas, S; Fumagalli, P	Band-gap tuning at the strong quantum confinement regime in magnetic semiconductor EuS thin films	APPLIED PHYSICS LETTERS	100	21			211910	2012
576	Krokidas, PG; Nikolakis, V; Burganos, VN	Heating and sorption effects on silicalite-1 unit cell size and geometry	MICROPOROUS AND MESOPOROUS MATERIALS	155		65	70		2012
577	Dar, GN; Umar, A; Zaidi, SA; Baskoutas, S; Hwang, SW; Abaker, M; Al-Hajry, A; Al-Sayari, SA	Ultra-high sensitive ammonia chemical sensor based on ZnO nanopencils	TALANTA	89		155	161		2012
578	Nasikas, NK; Edwards, TG; Sen, S; Papatheodorou, GN	Structural Characteristics of Novel Ca-Mg Orthosilicate and Suborthosilicate Glasses: Results from Si-29 and O-17 NMR Spectroscopy	JOURNAL OF PHYSICAL CHEMISTRY B	116	9	2696	2702		2012
579	Papavasiliou, J; Avgouropoulos, G; Ioannides, T	CuMnOx catalysts for internal reforming methanol fuel cells: Application aspects	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	37	21	16739	16747		2012

580	Koukaras, EN; Zdetsis, AD; Sigalas, MM	Ab Initio Study of Magnesium and Magnesium Hydride Nanoclusters and Nanocrystals: Examining Optimal Structures and Compositions for Efficient Hydrogen Storage	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	134	38	15914	15922		2012
581	Bakandritsos, A; Papagiannopoulos, A; Anagnostou, EN; Avgoustakis, K; Zboril, R; Pispas, S; Tucek, J; Ryukhtin, V; Bouropoulos, N; Kolokithas-Ntoukas, A; Steriotis, TA; Keiderling, U; Winnefeld, F	Merging High Doxorubicin Loading with Pronounced Magnetic Response and Bio-repellent Properties in Hybrid Drug Nanocarriers	SMALL	8	15	2381	2393		2012
582	Rozic, B; Karatairi, E; Nounesis, G; Tzitzios, V; Cordoyiannis, G; Kralj, S; Kutnjak, Z	Impact of Surface-Functionalized CdSe Nanoparticles on Phase Transitions of 8CB And CE8 Liquid Crystals	MOLECULAR CRYSTALS AND LIQUID CRYSTALS	553		161	167		2012
583	Kalampounias, AG; Nasikas, NK; Pontikes, Y; Papatheodorou, GN	Thermal properties of calcium aluminate $x\text{CaO}-(1-x)\text{Al}_2\text{O}_3$ glasses	PHYSICS AND CHEMISTRY OF GLASSES-EUROPEAN JOURNAL OF GLASS SCIENCE AND TECHNOLOGY PART B	53	5	205	209		2012
584	Abaker, M; Dar, GN; Umar, A; Zaidi, SA; Ibrahim, AA; Baskoutas, S; Al-Hajry, A	CuO Nanocubes Based Highly-Sensitive 4-Nitrophenol Chemical Sensor	SCIENCE OF ADVANCED MATERIALS	4	8	893	900		2012
585	Androvitsaneas, P; Fytas, NG; Paspalakis, E; Terzis, AF	Quantum Monte Carlo simulations revisited: The case of anisotropic Heisenberg chains	PHILOSOPHICAL MAGAZINE	92	36	4649	4656		2012
586	Ibrahim, AA; Dar, GN; Zaidi, SA; Umar, A; Abaker, M; Bouzid, H; Baskoutas, S	Growth and properties of Ag-doped ZnO nanoflowers for highly sensitive phenyl hydrazine chemical sensor application	TALANTA	93		257	263		2012

587	Dassios, KG; Musso, S; Galiotis, C	Compressive behavior of MWCNT/epoxy composite mats (vol 72, pg 1027, 2012)	COMPOSITES SCIENCE AND TECHNOLOGY	72	11	1310	1310		2012
588	Kosionis, SG; Terzis, AF; Yannopapas, V; Paspalakis, E	Nonlocal Effects in Energy Absorption of Coupled Quantum Dot-Metal Nanoparticle Systems	JOURNAL OF PHYSICAL CHEMISTRY C	116	44	23663	23670		2012
589	Dassios, KG; Musso, S; Galiotis, C	Compressive behavior of MWCNT/epoxy composite mats	COMPOSITES SCIENCE AND TECHNOLOGY	72	9	1027	1033		2012
590	Angelopoulou, A; Efthimiadou, EK; Kordas, G	Dextran modified pH sensitive silica hydro-xerogels as promising drug delivery scaffolds	MATERIALS LETTERS	74		50	53		2012
591	Dar, GN; Umar, A; Zaidi, SA; Ibrahim, AA; Abaker, M; Baskoutas, S; Al-Assiri, MS	Ce-doped ZnO nanorods for the detection of hazardous chemical	SENSORS AND ACTUATORS B-CHEMICAL	173		72	78		2012
592	Dimos, K; Jankovic, L; Koutselas, IB; Karakassides, MA; Zboril, R; Komadel, P	Low-Temperature Synthesis and Characterization of Gallium Nitride Quantum Dots in Ordered Mesoporous Silica	JOURNAL OF PHYSICAL CHEMISTRY C	116	1	1185	1194		2012
593	Bourlinos, AB; Zboril, R; Petr, J; Bakandritsos, A; Krysmann, M; Giannelis, EP	Luminescent Surface Quaternized Carbon Dots	CHEMISTRY OF MATERIALS	24	1	6	8		2012
594	Thanopoulos, I; Paspalakis, E; Yannopapas, V	Plasmon-induced enhancement of nonlinear optical rectification in organic materials	PHYSICAL REVIEW B	85	3			35111	2012
595	Bourlinos, AB; Bakandritsos, A; Liaros, N; Couris, S; Safarova, K; Otyepka, M; Zboril, R	Water dispersible functionalized graphene fluoride with significant nonlinear optical response	CHEMICAL PHYSICS LETTERS	543		101	105		2012
596	Bourlinos, AB; Bakandritsos, A; Kouloumpis, A; Gournis, D; Krysmann, M; Giannelis, EP; Polakova, K; Safarova, K; Hola, K; Zboril, R	Gd(III)-doped carbon dots as a dual fluorescent-MRI probe	JOURNAL OF MATERIALS CHEMISTRY	22	44	23327	23330		2012

597	Delimitis, A; Pappas, SD; Grammatikopoulos, S; Pouloupoulos, P; Kapaklis, V; Trachylis, D; Politis, C	Microstructural Investigation of SiOx Thin Films Grown by Reactive Sputtering on (001) Si Substrates	JOURNAL OF NANO RESEARCH	17		147	156		2012
598	Katsamenis, OL; Karoutsos, V; Kontostanos, K; Panagiotopoulos, EC; Papadaki, H; Bouropoulos, N	Microstructural characterization of CPPD and hydroxyapatite crystal depositions on human menisci	CRYSTAL RESEARCH AND TECHNOLOGY	47	11	1201	1209		2012
599	Khayyat, SA; Abaker, M; Umar, A; Alkattan, MO; Alharbi, ND; Baskoutas, S	Synthesis and Characterizations of Cd-Doped ZnO Multipods for Environmental Remediation Application	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	12	11	8453	8458		2012
600	Bourlinos, AB; Georgakilas, V; Bakandritsos, A; Kouloumpis, A; Gournis, D; Zboril, R	Aqueous-dispersible fullerol-carbon nanotube hybrids	MATERIALS LETTERS	82		48	50		2012
601	Vlachos, A; Pappas, SD; Kapaklis, V; Karoutsos, V; Kordatos, A; Wilhelm, F; Rogalev, A; Fumagalli, P; Pouloupoulos, P; Velgakis, MJ; Politis, C	Magnetic Properties of Textured CoPd Nanocrystalline Thin Films	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	12	8	6240	6247		2012
602	Pappas, SD; Kapaklis, V; Delimitis, A; Jonsson, PE; Papaioannou, ET; Pouloupoulos, P; Fumagalli, P; Trachylis, D; Velgakis, MJ; Politis, C	Layering and temperature-dependent magnetization and anisotropy of naturally produced Ni/NiO multilayers	JOURNAL OF APPLIED PHYSICS	112	5			53918	2012
603	Markos, C; Yannopoulos, SN; Vlachos, K	Chalcogenide glass layers in silica photonic crystal fibers	OPTICS EXPRESS	20	14	14814	14824		2012
604	Frank, O; Bousa, M; Riaz, I; Jalil, R; Novoselov, KS; Tsoukleri, G; Parthenios, J; Kavan, L; Papagelis, K; Galiotis, C	Phonon and Structural Changes in Deformed Bernal Stacked Bilayer Graphene	NANO LETTERS	12	2	687	693		2012
605	Ozdogan, K; Sasioglu, E; Galanakis, I	Robustness and stability of half-metallic ferromagnetism in alkaline-earth metal mononitrides against doping and deformation	JOURNAL OF APPLIED PHYSICS	111	11			113918	2012
606	Ioannou, G; Patsidis, A; Psarras, GC	Dielectric and functional properties of polymer matrix/ZnO/BaTiO3 hybrid composites	COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING	42	1	104	110		2011

607	Skaltsas, T; Avgouropoulos, G; Tasis, D	Impact of the fabrication method on the physicochemical properties of carbon nanotube-based aerogels	MICROPOROUS AND MESOPOROUS MATERIALS	143	2-3	451	457		2011
608	Psarras, GC	Smart polymer systems: a journey from imagination to applications	EXPRESS POLYMER LETTERS	5	12	1027	1027		2011
609	Fytas, NG	Wang-Landau study of the triangular Blume-Capel ferromagnet	EUROPEAN PHYSICAL JOURNAL B	79	1	21	28		2011
610	Yannopapas, V	A hybrid layer-multiple-scattering/Fourier modal method for photonic structures based on lithographic and/or self-assembly techniques	JOURNAL OF MODERN OPTICS	58	5-6	400	406		2011
611	Yannopapas, V; Vanakaras, A	Dirac point in the photon dispersion relation of a negative/zero/positive-index plasmonic metamaterial	PHYSICAL REVIEW B	84	4			45128	2011
612	Peroukidis, SD; Vanakaras, AG; Photinos, DJ	Molecular simulation of hierarchical structures in bent-core nematic liquid crystals	PHYSICAL REVIEW E	84	1			10702	2011
613	Tsaousidou, M	Phonon-drag thermopower of ballistic semiconducting single-wall carbon nanotubes and comparison with the semiclassical result	EPL	93	4			47010	2011
614	Yannopapas, V	Gapless surface states in a lattice of coupled cavities: A photonic analog of topological crystalline insulators	PHYSICAL REVIEW B	84	19			195126	2011
615	Yannopapas, V; Vanakaras, AG	Layer-multiple-scattering theory for metamaterials made from clusters of nanoparticles	PHYSICAL REVIEW B	84	8			85119	2011

616	Yannopapas, V	Photonic analog of a spin-polarized system with Rashba spin-orbit coupling	PHYSICAL REVIEW B	83	11			113101	2011
617	Garoufalis, CS	Oxygen Terminated Goldberg Type Si Quantum Dots as Candidates for Stable Si Fullerene-Like Cages	JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE	8	11	2279	2284		2011
618	Hawke, LGD; Kalosakas, G; Simserides, C	Electronic parameters for charge transfer along DNA (vol 32, pg 291, 2010)	EUROPEAN PHYSICAL JOURNAL E	34	10			118	2011
619	Astuti, Y; Topoglidis, E; Durrant, JR	Use of microperoxidase-11 to functionalize tin dioxide electrodes for the optical and electrochemical sensing of hydrogen peroxide	ANALYTICA CHIMICA ACTA	686	1-2	126	132		2011
620	Kosionis, SG; Terzis, AF; Paspalakis, E	Kerr nonlinearity in a driven two-subband system in a semiconductor quantum well	JOURNAL OF APPLIED PHYSICS	109	8			84312	2011
621	Chrissanthopoulos, A; Baskoutas, S; Bouropoulos, N; Dracopoulos, V; Pouloupoulos, P; Yannopoulos, SN	Synthesis and characterization of ZnO/NiO p-n heterojunctions: ZnO nanorods grown on NiO thin film by thermal evaporation	PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS	9	2	132	139		2011
622	Kosionis, SG; Terzis, AF; Paspalakis, E	Pump-probe optical response and four-wave mixing in intersubband transitions of a semiconductor quantum well	APPLIED PHYSICS B-LASERS AND OPTICS	104	1	33	43		2011
623	Yannopapas, V; Vitanov, NV	Coherent control of surface exciton-polaritons in collections of semiconductor nanoparticles: A theoretical study	PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS	9	2	196	200		2011
624	Evangelou, S; Paspalakis, E	Pulsed four-wave mixing in intersubband transitions of a symmetric semiconductor quantum well	PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS	9	2	168	173		2011

625	Evangelou, S; Yannopapas, V; Paspalakis, E	Simulating quantum interference in spontaneous decay near plasmonic nanostructures: Population dynamics	PHYSICAL REVIEW A	83	5			55805	2011
626	Moraitis, G; Spitalsky, Z; Ravani, F; Siokou, A; Galiotis, C	Electrochemical oxidation of multi-wall carbon nanotubes	CARBON	49	8	2702	2708		2011
627	Koumpouras, K; Galanakis, I	Ab-initio study of competing magnetic configurations in cubic BiFeO3 alloys	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	323	17	2328	2333		2011
628	Evangelou, S; Yannopapas, V; Paspalakis, E	Modifying free-space spontaneous emission near a plasmonic nanostructure	PHYSICAL REVIEW A	83	2			23819	2011
629	Poulopoulos, P; Baskoutas, S; Pappas, SD; Garoufalis, CS; Droulias, SA; Zamani, A; Kapaklis, V	Intense Quantum Confinement Effects in Cu2O Thin Films	JOURNAL OF PHYSICAL CHEMISTRY C	115	30	14839	14843		2011
630	Papagelis, K; Arvanitidis, J; Christofilos, D; Souliou, SM; Galiotis, C; Ves, S; Kourouklis, GA	High-pressure Raman study of stacked-cup carbon nanofibers	HIGH PRESSURE RESEARCH	31	1	131	135	PII 933539173	2011
631	Galanakis, I; Sasioglu, E	Variation of the magnetic properties of Ni2MnGa Heusler alloy upon tetragonalization: a first-principles study	JOURNAL OF PHYSICS D-APPLIED PHYSICS	44	23			235001	2011
632	Fytas, NG; Theodorakis, PE	Analysis of the static properties of cluster formations in symmetric linear multiblock copolymers	JOURNAL OF PHYSICS-CONDENSED MATTER	23	23			235106	2011
633	Kaproulias, S; Sigalas, MM	Whispering gallery modes for elastic waves in disk resonators	AIP ADVANCES	1	4			41902	2011
634	Poulopoulos, P; Pappas, SD; Kapaklis, V; Jonsson, PE; Papaioannou, ET; Delimitis, A; Trachylis, D; Velgakis, MJ; Meletis, EI; Politis, C	Growth and Magnetism of Natural Multilayers	JOURNAL OF NANO RESEARCH	15		95	103		2011

635	Psarras, GC; Siengchin, S; Karahaliou, PK; Georga, SN; Krontiras, CA; Karger-Kocsis, J	Dielectric relaxation phenomena and dynamics in polyoxymethylene/polyurethane/alumina hybrid nanocomposites	POLYMER INTERNATIONAL	60	12	1715	1721		2011
636	Vainos, NA; Paspalakis, E; Sigalas, MM; Couris, S; Pissadakis, S	Special issue on Emerging Trends and Novel Materials in Photonics Preface	PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS	9	2	109	110		2011
637	Baskoutas, S; Bester, G	Transition in the Optical Emission Polarization of ZnO Nanorods	JOURNAL OF PHYSICAL CHEMISTRY C	115	32	15862	15867		2011
638	Koutselas, I; Bampoulis, P; Maratou, E; Evagelinou, T; Pagona, G; Papavassiliou, GC	Some Unconventional Organic-Inorganic Hybrid Low-Dimensional Semiconductors and Related Light-Emitting Devices	JOURNAL OF PHYSICAL CHEMISTRY C	115	17	8475	8483		2011
639	Dar, GN; Umar, A; Zaidi, SA; Baskoutas, S; Kim, SH; Abaker, M; Al-Hajry, A; Al-Sayari, SA	Fabrication of Highly Sensitive Non-Enzymatic Glucose Biosensor Based on ZnO Nanorods	SCIENCE OF ADVANCED MATERIALS	3	6	901	906		2011
640	Lagos, N; Sigalas, MM	Single particle detection in a system of two microdisks	SENSORS AND ACTUATORS B-CHEMICAL	153	1	252	255		2011
641	Lagos, N; Sigalas, MM; Niarchos, D	The optical absorption of nanowire arrays	PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS	9	2	163	167		2011
642	Umar, A; Abaker, M; Faisal, M; Hwang, SW; Baskoutas, S; Al-Sayari, SA	High-Yield Synthesis of Well-Crystalline alpha-Fe ₂ O ₃ Nanoparticles: Structural, Optical and Photocatalytic Properties	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	11	4	3474	3480		2011

643	Baskoutas, S; Garoufalidis, C; Terzis, AF	Linear and nonlinear optical absorption coefficients in inverse parabolic quantum wells under static external electric field	EUROPEAN PHYSICAL JOURNAL B	84	2	241	247		2011
644	Ozdogan, K; Galanakis, I	Effect of order on the half-metallic gap in Heusler compounds	JOURNAL OF APPLIED PHYSICS	110	7			76101	2011
645	Abaker, M; Umar, A; Baskoutas, S; Dar, GN; Zaidi, SA; Al-Sayari, SA; Al-Hajry, A; Kim, SH; Hwang, SW	A highly sensitive ammonia chemical sensor based on alpha-Fe2O3 nanoellipsoids	JOURNAL OF PHYSICS D-APPLIED PHYSICS	44	42			425401	2011
646	Al-Seyab, R; Alexandropoulos, D; Henning, ID; Adams, MJ	Instabilities in Spin-Polarized Vertical-Cavity Surface-Emitting Lasers	IEEE PHOTONICS JOURNAL	3	5	799	809		2011
647	Bakandritsos, A; Mattheolabakis, G; Chatzikyriakos, G; Szabo, T; Tzitzios, V; Kouzoudis, D; Couris, S; Avgoustakis, K	Doxorubicin Nanocarriers Based on Magnetic Colloids with a Biopolyelectrolyte Corona and High Non-linear Optical Response: Synthesis, Characterization, and Properties	ADVANCED FUNCTIONAL MATERIALS	21	8	1465	1475		2011
648	Lagos, N; Sigalas, MM; Lidorikis, E	Theory of plasmonic near-field enhanced absorption in solar cells	APPLIED PHYSICS LETTERS	99	6			63304	2011
649	Baikousi, M; Kostoula, O; Panagiotopoulos, I; Bakas, T; Douvalis, AP; Koutselas, I; Bourlinos, AB; Karakassides, MA	Magnetic/SiO2 nanocomposite thin films prepared by sol-gel dip coating modified method	THIN SOLID FILMS	520	1	159	165		2011
650	Galanakis, I; Sasioglu, E	Structural-induced antiferromagnetism in Mn-based full Heusler alloys: The case of Ni2MnAl	APPLIED PHYSICS LETTERS	98	10			102514	2011

651	Davar, F; Salavati-Niasari, M; Baskoutas, S	Temperature controlled synthesis of SrCO ₃ nanorods via a facile solid-state decomposition rout starting from a novel inorganic precursor	APPLIED SURFACE SCIENCE	257	9	3872	3877		2011
652	Galanakis, I; Sasioglu, E	Stability of ferromagnetism against doping in half-metallic alloys	JOURNAL OF APPLIED PHYSICS	109	11			113912	2011
653	Galanakis, I; Sasioglu, E	High T-C half-metallic fully-compensated ferrimagnetic Heusler compounds	APPLIED PHYSICS LETTERS	99	5			52509	2011
654	Abaker, M; Umar, A; Baskoutas, S; Kim, SH; Hwang, SW	Structural and optical properties of CuO layered hexagonal discs synthesized by a low-temperature hydrothermal process	JOURNAL OF PHYSICS D-APPLIED PHYSICS	44	15			155405	2011
655	Calo, G; Alexandropoulos, D; D'Orazio, A; Petruzzelli, V	Wavelength selective switching in dilute nitrides multi quantum well photonic band gap waveguides	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	248	5	1212	1215		2011
656	Siokou, A; Ravani, F; Karakalos, S; Frank, O; Kalbac, M; Galiotis, C	Surface refinement and electronic properties of graphene layers grown on copper substrate: An XPS, UPS and EELS study	APPLIED SURFACE SCIENCE	257	23	9785	9790		2011
657	Kosionis, SG; Terzis, AF; Simserides, C; Paspalakis, E	Intrinsic optical bistability in a two-subband system in a semiconductor quantum well: Analytical results	JOURNAL OF APPLIED PHYSICS	109	6			63109	2011
658	Nasikas, NK; Sen, S; Papatheodorou, GN	Structural Nature of Polyamorphism in Y ₂ O ₃ -Al ₂ O ₃ Glasses	CHEMISTRY OF MATERIALS	23	11	2860	2868		2011
659	Pappas, SD; Grammatikopoulos, S; Pouloupoulos, P; Kapaklis, V; Delimitis, A; Trachylis, D; Politis, C	A Cost-Effective Growth of SiO _x Thin Films by Reactive Sputtering: Photoluminescence Tuning	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	11	4	3684	3687		2011

660	Kallos, E; Argyropoulos, C; Hao, Y; Alu, A	Comparison of frequency responses of cloaking devices under nonmonochromatic illumination	PHYSICAL REVIEW B	84	4			45102	2011
661	Pappas, SD; Pouloupoulos, P; Kapaklis, V; Grammatikopoulos, S; Trachylis, D; Velgakis, MJ; Meletis, EI; Politis, C	Growth and Experimental Evidence of Quantum Confinement Effects in Cu ₂ O and CuO Thin Films	JOURNAL OF NANO RESEARCH	15		69	74		2011
662	Nazar, H; Fatouros, DG; van der Merwe, SM; Bouropoulos, N; Avgouropoulos, G; Tsibouklis, J; Roldo, M	Thermosensitive hydrogels for nasal drug delivery: The formulation and characterisation of systems based on N-trimethyl chitosan chloride	EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS	77	2	225	232		2011
663	Nasikas, NK; Drakopoulos, V; Sen, S; Papatheodorou, GN	Vibrational modes and the boson peak of Y ₂ O ₃ -Al ₂ O ₃ glasses	PHYSICS AND CHEMISTRY OF GLASSES-EUROPEAN JOURNAL OF GLASS SCIENCE AND TECHNOLOGY PART B	52	4	143	151		2011
664	Khachadorian, S; Papagelis, K; Scheel, H; Colli, A; Ferrari, AC; Thomsen, C	High pressure Raman scattering of silicon nanowires	NANOTECHNOLOGY	22	19			195707	2011
665	Theodorakis, PE; Fytas, NG	Wang-Landau study of the 3D Ising model with bond disorder	EUROPEAN PHYSICAL JOURNAL B	81	2	245	251		2011
666	Kohoutek, T; Yan, X; Shiosaka, TW; Yannopoulos, SN; Chrissanthopoulos, A; Suzuki, T; Ohishi, Y	Enhanced Raman gain of Ge-Ga-Sb-S chalcogenide glass for highly nonlinear microstructured optical fibers	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS	28	9	2284	2290		2011
667	Kalampounias, AG; Nasikas, NK; Papatheodorou, GN	Structural investigations of the xTeO ₂ -(1-x)GeO ₂ (x=0, 0.2, 0.4, 0.6, 0.8 and 1) tellurite glasses: A composition dependent Raman spectroscopic study	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	72	9	1052	1056		2011

668	Linardatos, G; Tsoukleri, G; Parthenios, J; Galiotis, C; Monticelli, O; Russo, S; Tsitsilianis, C	Nanostructured Heteroarm Star Block Terpolymers via an Extension of the In-Out" Polymerization Route	MACROMOLECULAR RAPID COMMUNICATIONS	32	4	371	377		2011
669	Nasikas, NK; Chrissanthopoulos, A; Bouropoulos, N; Sen, S; Papatheodorou, GN	Silicate Glasses at the Ionic Limit: Alkaline-Earth Sub-Orthosilicates	CHEMISTRY OF MATERIALS	23	16	3692	3697		2011
670	Dimogianopoulos, DG; Mouzakis, DE; Kouzoudis, D	Statistical damage diagnosis in smart systems via contact-free MetGlas (R) sensors and stochastic non-linear modelling of system output data	INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY	41	1-4	39	60		2011
671	Thanopoulos, I; Paspalakis, E; Yannopapas, V	Enhancement of Ultraviolet Photoinduced Energy Transfer Near Plasmonic Nanostructures	JOURNAL OF PHYSICAL CHEMISTRY C	115	11	4370	4374		2011
672	Theodorakis, PE; Fytas, NG	Phase behavior of symmetric linear multiblock copolymers	EPL	93	4			43001	2011
673	Muhlig, S; Rockstuhl, C; Yannopapas, V; Burgi, T; Shalkevich, N; Lederer, F	Optical properties of a fabricated self-assembled bottom-up bulk metamaterial	OPTICS EXPRESS	19	10	9607	9616		2011
674	Andrikopoulos, KS; Arvanitidis, J; Dracopoulos, V; Christofilos, D; Wagner, T; Yannopoulos, SN	Nanoindentation and Raman studies of phase-separated Ag-As-S glasses	APPLIED PHYSICS LETTERS	99	17			171911	2011
675	Fotopoulos, A; Arvanitidis, J; Christofilos, D; Papaggelis, K; Kalyva, M; Triantafyllidis, K; Niarchos, D; Boukos, N; Basina, G; Tzitzios, V	One Pot Synthesis and Characterization of Ultra Fine CeO(2) and Cu/CeO(2) Nanoparticles. Application for Low Temperature CO Oxidation	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	11	10	8593	8598		2011
676	Arvanitidis, J; Christofilos, D; Kourouklis, GA; Paloumpi, A; Papagelis, K; Ves, S; Iwasa, Y; Prassides, K	Raman spectroscopic study of the rare-earth fullerenes Eu6-xSrxC60	NANOSCALE	3	6	2490	2493		2011
677	Souliou, SM; Arvanitidis, J; Christofilos, D; Papagelis, K; Ves, S; Kourouklis, GA; Prassides, K; Iwasa, Y; Syassen, K	High-pressure Raman study of the Sm2.75C60 fullerene	HIGH PRESSURE RESEARCH	31	1	13	17	PII 926684766	2011
678	Frank, O; Tsoukleri, G; Riaz, I; Papagelis, K; Parthenios, J; Ferrari, AC; Geim, AK; Novoselov, KS; Galiotis, C	Development of a universal stress sensor for graphene and carbon fibres	NATURE COMMUNICATIONS	2				255	2011

679	Frank, O; Mohr, M; Maultzsch, J; Thomsen, C; Riaz, I; Jalil, R; Novoselov, KS; Tsoukleri, G; Parthenios, J; Papagelis, K; Kavan, L; Galiotis, C	Raman 2D-Band Splitting in Graphene: Theory and Experiment	ACS NANO	5	3	2231	2239		2011
680	Fatouros, DG; Power, K; Kadir, O; Dekany, I; Yannopoulos, SN; Bouropoulos, N; Bakandritsos, A; Antonijevic, MD; Zouganelis, GD; Roldo, M	Stabilisation of SWNTs by alkyl-sulfate chitosan derivatives of different molecular weight: towards the preparation of hybrids with anticoagulant properties	NANOSCALE	3	3	1218	1224		2011
681	Kapaklis, V; Korelis, PT; Hjorvarsson, B; Vlachos, A; Galanakis, I; Pouloupoulos, P; Ozdogan, K; Angelakeris, M; Wilhelm, F; Rogalev, A	Violation of Hund's third rule in structurally disordered ferromagnets	PHYSICAL REVIEW B	84	2			24411	2011
682	Rozic, B; Tzitzios, V; Karatairi, E; Tkalec, U; Nounesis, G; Kutnjak, Z; Cordoyiannis, G; Rosso, R; Virga, EG; Musevic, I; Kralj, S	Theoretical and experimental study of the nanoparticle-driven blue phase stabilisation	EUROPEAN PHYSICAL JOURNAL E	34	2			17	2011
683	Laref, A; Sasioglu, E; Galanakis, I	Exchange interactions, spin waves, and Curie temperature in zincblende half-metallic sp-electron ferromagnets: the case of CaZ (Z = N, P, As, Sb)	JOURNAL OF PHYSICS-CONDENSED MATTER	23	29			296001	2011