Ilia N Ivanov

List of Publications by Year
in descending order

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193 papers	10,067 citations	30551 56 h-index	45040 94 g-index
199 all docs	199 docs citations	199 times ranked	18684 citing authors

#	Article	IF	Citations
1	Analysis of trypsin activity at Î²-casein layers formed on hydrophobic surfaces using a multiharmonic acoustic method. Analyst, The, 2022, 147, 461-470.	1.7	7
2	Quantifying fish otolith mineralogy for trace-element chemistry studies. Scientific Reports, 2022, 12, 2727.	1.6	7
3	Magnetic and Optical Properties of Auâ€“Co Solid Solution and Phase-Separated Thin Films and Nanoparticles. ACS Applied Materials & Interfaces, 2022, 14, 15047-15058.	4.0	5
4	New Insights on Plasmin Long Term Stability and the Mechanism of Its Activity Inhibition Analyzed by Quartz Crystal Microbalance. Micromachines, 2022, 13, 55.	1.4	2
5	Application of Multiharmonic QCM-D for Detection of Plasmin at Hydrophobic Surfaces Modified by Î²-Casein. Chemosensors, 2022, 10, 143.	1.8	4
6	Scalable synthesis of nanoporous atomically thin graphene membranes for dialysis and molecular separations via facile isopropanol-assisted hot lamination. Nanoscale, 2021, 13, 2825-2837.	2.8	17
7	Detection of Chymotrypsin by Optical and Acoustic Methods. Biosensors, 2021, 11, 63.	2.3	7
8	Indirect electrochemical method for high accuracy quantification of protein adsorption on gold surfaces. Electrochemistry Communications, 2021, 124, 106961.	2.3	0
9	Highly Efficient Plasmon Induced Hot-Electron Transfer at Ag/TiO₂ Interface. ACS Photonics, 2021, 8, 1497-1504.	3.2	30
10	SMART transfer method to directly compare the mechanical response of water-supported and free-standing ultrathin polymeric films. Nature Communications, 2021, 12, 2347.	5.8	30
11	Optically Induced Static Magnetization in Metal Halide Perovskite for Spinâ€Related Optoelectronics. Advanced Science, 2021, 8, 2004488.	5.6	14
12	Optically Induced Static Magnetization: Optically Induced Static Magnetization in Metal Halide Perovskite for Spinâ€Related Optoelectronics (Adv. Sci. 11/2021). Advanced Science, 2021, 8, 2170061.	5.6	0
13	Exploring Transport Behavior in Hybrid Perovskites Solar Cells via Machine Learning Analysis of Environmentalâ€Dependent Impedance Spectroscopy. Advanced Science, 2021, 8, e2002510.	5.6	23
14	Correlation of the Structure with Performance in MEH-PPV/dPS Thin Films Illuminated during Processing. ACS Applied Polymer Materials, 2021, 3, 3821-3830.	2.0	3
15	Excitonic Dynamics in Janus MoSSe and WSSe Monolayers. Nano Letters, 2021, 21, 931-937.	4.5	86
16	Selfâ€Assembled Room Temperature Multiferroic BiFeO₃â€LiFe₅O₈ Nanocomposites. Advanced Functional Materials, 2020, 30, 1906849.	7.8	14
17	Nonâ€Equilibrium Synthesis of Highly Active Nanostructured, Oxygenâ€Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst. Small, 2020, 16, e2004047.	5.2	29
18	Optical and Magnetic Properties of Agâ€“Ni Bimetallic Nanoparticles Assembled via Pulsed Laser-Induced Dewetting. ACS Omega, 2020, 5, 19285-19292.	1.6	34

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19	Construction of 2D BiVO₄â"CdSâ"Ti₃C₂T_x Heterostructures for Enhanced Photoâ€redox Activities. ChemCatChem, 2020, 12, 3496-3503.	1.8	25
20	Tunable Electromechanical Liquid Crystal Elastomer Actuators. Advanced Intelligent Systems, 2020, 2, 2000022.	3.3	27
21	Low Energy Implantation into Transition-Metal Dichalcogenide Monolayers to Form Janus Structures. ACS Nano, 2020, 14, 3896-3906.	7.3	136
22	Correlation of Spatiotemporal Dynamics of Polarization and Charge Transport in Blended Hybrid Organicâ€"Inorganic Perovskites on Macro- and Nanoscales. ACS Applied Materials & Interfaces, 2020, 12, 15380-15388.	4.0	5
23	High-Resolution Laser-Induced Graphene. Flexible Electronics beyond the Visible Limit. ACS Applied Materials & Interfaces, 2020, 12, 10902-10907.	4.0	129
24	Machine Learningâ€Enabled Correlation and Modeling of Multimodal Response of Thin Film to Environment on Macro and Nanoscale Using â€œLabâ€onâ€aâ€Crystalâ€• Advanced Functional Materials, 2020, 30, 1908010.	7.8	12
25	In Quest of a Ferromagnetic Insulator: Structure-Controlled Magnetism in Mgâ€"Tiâ€"O Thin Films. Journal of Physical Chemistry C, 2019, 123, 19970-19978.	1.5	8
26	Synthesis of zinc-gallate phosphors by biomineralization and their emission properties. Acta Biomaterialia, 2019, 97, 557-564.	4.1	2
27	Tuning the electrical properties of WSe ₂ via O ₂ plasma oxidation: towards lateral homojunctions. 2D Materials, 2019, 6, 045024.	2.0	39
28	Microbial Approach to Low-Cost Production of Photovoltaic Nanomaterials. ACS Sustainable Chemistry and Engineering, 2019, 7, 18297-18302.	3.2	1
29	Twoâ€Photon Upâ€Conversion Photoluminescence Realized through Spatially Extended Gap States in Quasiâ€2D Perovskite Films. Advanced Materials, 2019, 31, 1901240.	11.1	23
30	Competing phases in epitaxial vanadium dioxide at nanoscale. APL Materials, 2019, 7, .	2.2	8
31	The impact of tomato fruits containing multi-walled carbon nanotube residues on human intestinal epithelial cell barrier function and intestinal microbiome composition. Nanoscale, 2019, 11, 3639-3655.	2.8	20
32	Monolayer Ti₃C₂T_x as an Effective Co-catalyst for Enhanced Photocatalytic Hydrogen Production over TiO₂. ACS Applied Energy Materials, 2019, 2, 4640-4651.	2.5	177
33	Environmental Gating and Galvanic Effects in Single Crystals of Organicâ€"Inorganic Halide Perovskites. ACS Applied Materials & Interfaces, 2019, 11, 14722-14733.	4.0	14
34	2D/2D heterojunction of Ti₃C₂/g-C₃N₄ nanosheets for enhanced photocatalytic hydrogen evolution. Nanoscale, 2019, 11, 8138-8149.	2.8	289
35	Roomâ€Temperature Insulating Ferromagnetic (Ni,Co) 1+2 x Ti 1â" x O 3 Thin Films. Annalen Der Physik, 2019, 531, 1900299.	0.9	7
36	Hierarchical TiO₂:Cu₂O Nanostructures for Gas/Vapor Sensing and CO₂ Sequestration. ACS Applied Materials & Interfaces, 2019, 11, 48466-48475.	4.0	18

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37	Probing Electrolyte Solvents at Solid/Liquid Interface Using Gap-Mode Surface-Enhanced Raman Spectroscopy. Journal of the Electrochemical Society, 2019, 166, A178-A187.	1.3	28
38	Room-temperature photo-induced martensitic transformation in a protein crystal. IUCrJ, 2019, 6, 619-629.	1.0	2
39	Cryomilled zinc sulfide: A prophylactic for Staphylococcus aureus-infected wounds. Journal of Biomaterials Applications, 2018, 33, 82-93.	1.2	0
40	Carbon Dioxide Separation: Highly Permeable Oligo(ethylene oxide)-co -poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation (Adv. Sustainable Syst. 4/2018). Advanced Sustainable Systems, 2018, 2, 1870030.	2.7	1
41	Exploring Anomalous Polarization Dynamics in Organometallic Halide Perovskites. Advanced Materials, 2018, 30, 1705298.	11.1	44
42	Highly Permeable Oligo(ethylene oxide)â€•co â€poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation. Advanced Sustainable Systems, 2018, 2, 1700113.	2.7	6
43	Oneâ€Step Synthesis of Nb₂O₅/C/Nb₂C (MXene) Composites and Their Use as Photocatalysts for Hydrogen Evolution. ChemSusChem, 2018, 11, 688-699.	3.6	315
44	Evolutionary selection growth of two-dimensional materials on polycrystalline substrates. Nature Materials, 2018, 17, 318-322.	13.3	204
45	Multi-modal, ultrasensitive, wide-range humidity sensing with Ti₃C₂ film. Nanoscale, 2018, 10, 21689-21695.	2.8	74
46	Atmospheric and Long-term Aging Effects on the Electrical Properties of Variable Thickness WSe₂ Transistors. ACS Applied Materials & Interfaces, 2018, 10, 36540-36548.	4.0	31
47	A general synthesis approach for supported bimetallic nanoparticles via surface inorganometallic chemistry. Science, 2018, 362, 560-564.	6.0	176
48	Electrolyte Solvation Structure at Solidâ€“Liquid Interface Probed by Nanogap Surface-Enhanced Raman Spectroscopy. ACS Nano, 2018, 12, 10159-10170.	7.3	70
49	Machine learning enabled acoustic detection of sub-nanomolar concentration of trypsin and plasmin in solution. Sensors and Actuators B: Chemical, 2018, 272, 282-288.	4.0	28
50	Improved ZnS nanoparticle properties through sequential NanoFermentation. Applied Microbiology and Biotechnology, 2018, 102, 8329-8339.	1.7	2
51	Light-Activated Hybrid Nanocomposite Film for Water and Oxygen Sensing. ACS Applied Materials & Interfaces, 2018, 10, 31745-31754.	4.0	12
52	Dynamic Impact of Electrode Materials on Interface of Singleâ€Crystalline Methylammonium Lead Bromide Perovskite. Advanced Materials Interfaces, 2018, 5, 1800476.	1.9	31
53	New Insights on Electro-Optical Response of Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Film to Humidity. ACS Applied Materials & Interfaces, 2017, 9, 15880-15886.	4.0	50
54	O₂ Plasma Etching and Antistatic Gun Surface Modifications for CNT Yarn Microelectrode Improve Sensitivity and Antifouling Properties. Analytical Chemistry, 2017, 89, 5605-5611.	3.2	56

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55	Magnetodielectric Response from Spinâ€“Orbital Interaction Occurring at Interface of Ferromagnetic Co and Organometal Halide Perovskite Layers via Rashba Effect. Advanced Materials, 2017, 29, 1603667.	11.1	19
56	Functional two/three-dimensional assembly of monolayer WS₂ and nickel oxide. Journal of Photonics for Energy, 2017, 7, 014001.	0.8	1
57	Emerging materials for lowering atmospheric carbon. Environmental Technology and Innovation, 2017, 7, 30-43.	3.0	13
58	Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. ACS Nano, 2017, 11, 11118-11126.	7.3	183
59	Multi-mode humidity sensing with water-soluble copper phthalocyanine for increased sensitivity and dynamic range. Scientific Reports, 2017, 7, 9921.	1.6	17
60	UV-activated ZnO films on a flexible substrate for room temperature O2 and H2O sensing. Scientific Reports, 2017, 7, 6053.	1.6	61
61	Fabrication and characterization of multiwalled carbon nanotubeâ€“loaded interconnected porous nanocomposite scaffolds. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 183-192.	1.8	4
62	Carbon nanotube-templated assembly of regioregular poly(3-alkylthiophene) in solution. , 2016, , .		0
63	Influence of annealing on the photodeposition of silver on periodically poled lithium niobate. Journal of Applied Physics, 2016, 119, .	1.1	10
64	Comparative study of plant responses to carbon-based nanomaterials with different morphologies. Nanotechnology, 2016, 27, 265102.	1.3	80
65	Elucidating the role of methyl viologen as a scavenger of photoactivated electrons from photosystem I under aerobic and anaerobic conditions. Physical Chemistry Chemical Physics, 2016, 18, 8512-8521.	1.3	22
66	Laser Treated Carbon Nanotube Yarn Microelectrodes for Rapid and Sensitive Detection of Dopamine in Vivo. ACS Sensors, 2016, 1, 508-515.	4.0	74
67	Effect of UV irradiation on adsorption/desorption of oxygen and water on carbon nanotubes. Proceedings of SPIE, 2016, , .	0.8	2
68	Manufacturing demonstration of microbially mediated zinc sulfide nanoparticles in pilot-plant scale reactors. Applied Microbiology and Biotechnology, 2016, 100, 7921-7931.	1.7	32
69	High-resolution dielectric characterization of minerals: A step towards understanding the basic interactions between microwaves and rocks. International Journal of Mineral Processing, 2016, 151, 8-21.	2.6	31
70	PEDOT:PSS/QCM-based multimodal humidity and pressure sensor. Sensors and Actuators B: Chemical, 2016, 236, 91-98.	4.0	58
71	Low-cost scalable quartz crystal microbalance array for environmental sensing. , 2016, , .		8
72	Imaging of electrical response of NiO x under controlled environment with sub-25-nm resolution. Journal of Photonics for Energy, 2016, 6, 038001.	0.8	2

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73	Polymerization of Acetonitrile via a Hydrogen Transfer Reaction from CH₃ to CN under Extreme Conditions. Angewandte Chemie - International Edition, 2016, 55, 12040-12044.	7.2	26
74	Ultrafast Dynamics of Metal Plasmons Induced by 2D Semiconductor Excitons in Hybrid Nanostructure Arrays. ACS Photonics, 2016, 3, 2389-2395.	3.2	42
75	Focused helium-ion beam irradiation effects on electrical transport properties of few-layer WSe2: enabling nanoscale direct write homo-junctions. Scientific Reports, 2016, 6, 27276.	1.6	99
76	Unraveling the Fundamental Mechanisms of Solvent-Additive-Induced Optimization of Power Conversion Efficiencies in Organic Photovoltaic Devices. ACS Applied Materials & Interfaces, 2016, 8, 20220-20229.	4.0	8
77	Epitaxial stabilization and phase instability of VO2 polymorphs. Scientific Reports, 2016, 6, 19621.	1.6	114
78	Ultrafast Charge Transfer and Hybrid Exciton Formation in 2D/0D Heterostructures. Journal of the American Chemical Society, 2016, 138, 14713-14719.	6.6	102
79	Effect of film morphology on oxygen and water interaction with copper phthalocyanine. , 2016, , .		0
80	Morphology-defined interaction of copper phthalocyanine with O₂/H₂O. Journal of Photonics for Energy, 2016, 6, 045501.	0.8	8
81	Towards functional assembly of 3D and 2D nanomaterials. Proceedings of SPIE, 2016, , .	0.8	0
82	Multimodal probing of oxygen and water interaction with metallic and semiconducting carbon nanotube networks under ultraviolet irradiation. Journal of Photonics for Energy, 2016, 6, 025506.	0.8	19
83	Carbon Nanotubes Grown on Metal Microelectrodes for the Detection of Dopamine. Analytical Chemistry, 2016, 88, 645-652.	3.2	113
84	Deciphering Halogen Competition in Organometallic Halide Perovskite Growth. Journal of the American Chemical Society, 2016, 138, 5028-5035.	6.6	92
85	Amidine-Functionalized Poly(2-vinyl-4,4-dimethylazlactone) for Selective and Efficient CO₂ Fixing. Macromolecules, 2016, 49, 1523-1531.	2.2	10
86	Spatially resolved resistance of NiO nanostructures under humid environment. , 2016, , .		1
87	Pressure induced polymerization of acetylide anions in CaC₂ and 10⁷ fold enhancement of electrical conductivity. Chemical Science, 2016, 8, 298-304.	3.7	17
88	Interface and thickness dependent domain switching and stability in Mg doped lithium niobate. Journal of Applied Physics, 2015, 118, 224101.	1.1	10
89	Peculiarity of Two Thermodynamically-Stable Morphologies and Their Impact on the Efficiency of Small Molecule Bulk Heterojunction Solar Cells. Scientific Reports, 2015, 5, 13407.	1.6	16
90	Fabrication of coâ€continuous poly(Îµâ€caprolactone)/polyglycolide blend scaffolds for tissue engineering. Journal of Applied Polymer Science, 2015, 132, .	1.3	12

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91	High-Performance Flexible Perovskite Solar Cells by Using a Combination of Ultrasonic Spray-Coating and Low Thermal Budget Photonic Curing. ACS Photonics, 2015, 2, 680-686.	3.2	268
92	Synthesis, Structure, and Pressure-Induced Polymerization of Li3Fe(CN)6 Accompanied with Enhanced Conductivity. Inorganic Chemistry, 2015, 54, 11276-11282.	1.9	6
93	Size tunable elemental copper nanoparticles: extracellular synthesis by thermoanaerobic bacteria and capping molecules. Journal of Materials Chemistry C, 2015, 3, 644-650.	2.7	39
94	Patterned arrays of lateral heterojunctions within monolayer two-dimensional semiconductors. Nature Communications, 2015, 6, 7749.	5.8	213
95	Perovskite Solar Cells with Near 100% Internal Quantum Efficiency Based on Large Single Crystalline Grains and Vertical Bulk Heterojunctions. Journal of the American Chemical Society, 2015, 137, 9210-9213.	6.6	246
96	Visible light assisted photocatalytic hydrogen generation by Ta₂O₅/Bi₂O₃, TaON/Bi₂O₃, and Ta₃N₅/Bi₂O₃ composites. RSC Advances, 2015, 5, 54998-55005.	1.7	47
97	Correlating high power conversion efficiency of PTB7:PC₇₁BM inverted organic solar cells with nanoscale structures. Nanoscale, 2015, 7, 15576-15583.	2.8	54
98	Optical Control of Fluorescence through Plasmonic Eigenmode Extinction. Scientific Reports, 2015, 5, 9911.	1.6	5
99	Strong and Electrically Conductive Graphene-Based Composite Fibers and Laminates. ACS Applied Materials & Interfaces, 2015, 7, 10702-10709.	4.0	63
100	Monolithic graded-refractive-index glass-based antireflective coatings: broadband/omnidirectional light harvesting and self-cleaning characteristics. Journal of Materials Chemistry C, 2015, 3, 5440-5449.	2.7	55
101	In situ capping for size control of monochalcogenide (ZnS, CdS and SnS) nanocrystals produced by anaerobic metal-reducing bacteria. Nanotechnology, 2015, 26, 325602.	1.3	13
102	Visible-light-driven Bi₂O₃/WO₃ composites with enhanced photocatalytic activity. RSC Advances, 2015, 5, 91094-91102.	1.7	54
103	Controlling molecular ordering in solution-state conjugated polymers. Nanoscale, 2015, 7, 15134-15141.	2.8	15
104	Cooperative Island Growth of Large-Area Single-Crystal Graphene on Copper Using Chemical Vapor Deposition. ACS Nano, 2014, 8, 5657-5669.	7.3	91
105	The isotopic effects of deuteration on optoelectronic properties of conducting polymers. Nature Communications, 2014, 5, 3180.	5.8	103
106	Water-mediated electrochemical nano-writing on thin ceria films. Nanotechnology, 2014, 25, 075701.	1.3	12
107	Anomalous Photodeposition of Ag on Ferroelectric Surfaces with Belowâ€Bandgap Excitation. Advanced Optical Materials, 2014, 2, 292-299.	3.6	3
108	Dielectric Interface Effects on Surface Charge Accumulation and Collection towards High-Efficiency Organic Solar Cells. Journal of Applied Physics, 2014, 115, 154506.	1.1	19

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109	Pulsed Laser Deposition of Photoresponsive Twoâ€Dimensional GaSe Nanosheet Networks. Advanced Functional Materials, 2014, 24, 6365-6371.	7.8	108
110	Breaking the limits of structural and mechanical imaging of the heterogeneous structure of coal macerals. Nanotechnology, 2014, 25, 435402.	1.3	19
111	High Temporal Resolution Measurements of Dopamine with Carbon Nanotube Yarn Microelectrodes. Analytical Chemistry, 2014, 86, 5721-5727.	3.2	91
112	Mapping internal structure of coal by confocal micro-Raman spectroscopy and scanning microwave microscopy. Fuel, 2014, 126, 32-37.	3.4	34
113	Scalable production of microbially mediated zinc sulfide nanoparticles and application to functional thin films. Acta Biomaterialia, 2014, 10, 4474-4483.	4.1	49
114	Synthesis and properties of SiNx coatings as stable fluorescent markers on vertically aligned carbon nanofibers. AIMS Materials Science, 2014, 1, 87-102.	0.7	0
115	Probing Local Ionic Dynamics in Functional Oxides at the Nanoscale. Nano Letters, 2013, 13, 3455-3462.	4.5	55
116	High-performance organic field-effect transistors with dielectric and active layers printed sequentially by ultrasonic spraying. Journal of Materials Chemistry C, 2013, 1, 4384.	2.7	27
117	Synthesis of Millimeter-Size Hexagon-Shaped Graphene Single Crystals on Resolidified Copper. ACS Nano, 2013, 7, 8924-8931.	7.3	178
118	Open loop Kelvin probe force microscopy with single and multi-frequency excitation. Nanotechnology, 2013, 24, 475702.	1.3	63
119	Nanometer-scale mapping of irreversible electrochemical nucleation processes on solid Li-ion electrolytes. Scientific Reports, 2013, 3, 1621.	1.6	29
120	The impact of crystal symmetry on the electronic structure and functional properties of complex lanthanum chromium oxides. Journal of Materials Chemistry C, 2013, 1, 4527.	2.7	42
121	Scalable economic extracellular synthesis of CdS nanostructured particles by a non-pathogenic thermophile. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 1263-1271.	1.4	31
122	Magneto-Dielectric Effects Induced by Optically-Generated Intermolecular Charge-Transfer States in Organic Semiconducting Materials. Scientific Reports, 2013, 3, 2812.	1.6	25
123	Nature of the band gap and origin of the electro-/photo-activity of Co3O4. Journal of Materials Chemistry C, 2013, 1, 4628.	2.7	176
124	Grafting density effects, optoelectrical properties and nano-patterning of poly(para-phenylene) brushes. Journal of Materials Chemistry A, 2013, 1, 13426.	5.2	5
125	Solvent quality-induced nucleation and growth of parallelepiped nanorods in dilute poly(3-hexylthiophene) (P3HT) solution and the impact on the crystalline morphology of solution-cast thin film. CrystEngComm, 2013, 15, 1114-1124.	1.3	51
126	Effect of purity on the electro-optical properties of single wall nanotube-based transparent conductive electrodes. Carbon, 2013, 64, 1-5.	5.4	9

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127	Optically transparent, mechanically durable, nanostructured superhydrophobic surfaces enabled by spinodally phase-separated glass thin films. Nanotechnology, 2013, 24, 315602.	1.3	47
128	Interplay of Octahedral Tilts and Polar Order in BiFeO₃ Films. Advanced Materials, 2013, 25, 2497-2504.	11.1	101
129	K₃Fe(CN)₆: Pressure-Induced Polymerization and Enhanced Conductivity. Journal of Physical Chemistry C, 2013, 117, 24174-24180.	1.5	17
130	Porous poly(Îµâ€caprolactone) scaffolds for loadâ€bearing tissue regeneration: Solventless fabrication and characterization. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 1050-1060.	1.6	18
131	Carbon Nanotube Assemblies for Transparent Conducting Electrodes. Nanostructure Science and Technology, 2013, , 117-148.	0.1	3
132	Nanocrystals for Electronic and Optoelectronic Applications. Journal of Nanomaterials, 2012, 2012, 1-2.	1.5	7
133	High Seebeck effects from conducting polymer: Poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) based thin-film device with hybrid metal/polymer/metal architecture. Applied Physics Letters, 2012, 101, .	1.5	14
134	Probing Surface and Bulk Electrochemical Processes on the LaAlO₃â€“SrTiO₃ Interface. ACS Nano, 2012, 6, 3841-3852.	7.3	65
135	Manipulating Interfaces through Surface Confinement of Poly(glycidyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (methacryl Macromolecules, 2012, 45, 6438-6449.	2.2	39
136	Doping-Based Stabilization of the M2 Phase in Free-Standing VO₂ Nanostructures at Room Temperature. Nano Letters, 2012, 12, 6198-6205.	4.5	145
137	Dielectricâ€Constantâ€Enhanced Hall Mobility in Complex Oxides. Advanced Materials, 2012, 24, 3965-3969.	11.1	24
138	Characterization and Carbonization of Highly Oriented Poly(diiododiacetylene) Nanofibers. Macromolecules, 2011, 44, 2626-2631.	2.2	30
139	High Tunability of the Surface-Enhanced Raman Scattering Response with a Metalâ^'Multiferroic Composite. Nano Letters, 2011, 11, 1265-1269.	4.5	22
140	Crystallographically Aligned Carbon Nanotubes Grown on Few-Layer Graphene Films. ACS Nano, 2011, 5, 6403-6409.	7.3	24
141	Electrical and thermal conductivity of low temperature CVD graphene: the effect of disorder. Nanotechnology, 2011, 22, 275716.	1.3	132
142	Structure of Vanadium Oxide Supported on Ceria by Multiwavelength Raman Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 25368-25378.	1.5	91
143	Electroâ€optical properties of electropolymerized poly(3â€hexylthiophene)/carbon nanotube composite thin films. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1269-1275.	2.4	17
144	Giant Magnetic Field Effects on Electroluminescence in Electrochemical Cells. Advanced Materials, 2011, 23, 2216-2220.	11.1	29

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145	PSâ€bâ€P3HT Copolymers as P3HT/PCBM Interfacial Compatibilizers for High Efficiency Photovoltaics. Advanced Materials, 2011, 23, 5529-5535.	11.1	110
146	Effects of single walled carbon nanotubes on the electroluminescent performance of organic light-emitting diodes. Organic Electronics, 2011, 12, 1098-1102.	1.4	4
147	Lattice-Symmetry-Driven Phase Competition in Vanadium Dioxide. Materials Research Society Symposia Proceedings, 2011, 1292, 67.	0.1	1
148	Magnetic Studies of Photovoltaic Processes in Organic Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1801-1806.	1.9	6
149	Separation of junction and bundle resistance in single wall carbon nanotube percolation networks by impedance spectroscopy. Applied Physics Letters, 2010, 97, .	1.5	56
150	Processing of loose carbon nanotubes into isolated, high density submicron channels. Nanotechnology, 2010, 21, 115301.	1.3	5
151	White Light-Emitting Diodes Based on Ultrasmall CdSe Nanocrystal Electroluminescence. Nano Letters, 2010, 10, 573-576.	4.5	164
152	Real Space Mapping of Li-Ion Transport in Amorphous Si Anodes with Nanometer Resolution. Nano Letters, 2010, 10, 3420-3425.	4.5	232
153	Decoupling Electrochemical Reaction and Diffusion Processes in Ionically-Conductive Solids on the Nanometer Scale. ACS Nano, 2010, 4, 7349-7357.	7.3	96
154	Interplay between Ferroelastic and Metalâ^'Insulator Phase Transitions in Strained Quasi-Two-Dimensional VO₂ Nanoplatelets. Nano Letters, 2010, 10, 2003-2011.	4.5	101
155	Symmetry Relationship and Strain-Induced Transitions between Insulating M1 and M2 and Metallic R phases of Vanadium Dioxide. Nano Letters, 2010, 10, 4409-4416.	4.5	149
156	The importance of chain connectivity in the formation of non-covalent interactions between polymers and single-walled carbon nanotubes and its impact on dispersion. Soft Matter, 2010, 6, 2801.	1.2	34
157	Metastable Copperâ€Phthalocyanine Singleâ€Crystal Nanowires and Their Use in Fabricating Highâ€Performance Fieldâ€Effect Transistors. Advanced Functional Materials, 2009, 19, 3776-3780.	7.8	81
158	Stress induced crystallization of hydrogenated amorphous silicon. Thin Solid Films, 2009, 517, 3222-3226.	0.8	73
159	Fabrication and characterization of brookite-rich, visible light-active TiO2 films for water splitting. Applied Catalysis B: Environmental, 2009, 93, 90-95.	10.8	54
160	Growth, Patterning, and One-Dimensional Electron -Transport Properties of Self-Assembled Ag-TCNQF4 Organic Nanowires. Chemistry of Materials, 2009, 21, 4275-4281.	3.2	48
161	The effect of the atmosphere on the optical properties of as-synthesized colloidal indium tin oxide. Nanotechnology, 2009, 20, 145701.	1.3	11
162	Cumulative and continuous laser vaporization synthesis of single wall carbon nanotubes and nanohorns. Applied Physics A: Materials Science and Processing, 2008, 93, 849-855.	1.1	34

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163	Pulsed laser CVD investigations of single-wall carbon nanotube growth dynamics. Applied Physics A: Materials Science and Processing, 2008, 93, 987-993.	1.1	25
164	Selective Patterned Growth of Singleâ€Crystal Agâ€“TCNQ Nanowires for Devices by Vaporâ€“Solid Chemical Reaction. Advanced Functional Materials, 2008, 18, 3043-3048.	7.8	57
165	Investigation of the Interaction of Surface Plasmons (SP) with an Electro Optic Polymer and Development of SP Optical Devices. , 2008, , .		0
166	Real-time imaging of vertically aligned carbon nanotube array growth kinetics. Nanotechnology, 2008, 19, 055605.	1.3	61
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