

Ilia N Ivanov

List of PR Articles by Year in descending order

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168

PR articles

8,699

PR citations

25011

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32176

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10042

doc citations

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54

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15675

citing authors

#	ARTICLE	IF	PR CITATIONS
1	Unravelling photoisomerization dynamics in a metastable-state photoacid. <i>Physical Chemistry Chemical Physics</i> , 2024, 26, 4062-4070.	2.7	5
2	Distinct Mechanism of Anti-Corrosion and Swelling-Adhesion Modeling of Low-Dimensional Nylon-Fluoropolymer Composite Coatings. <i>ACS Applied Polymer Materials</i> , 2024, 6, 3049-3059.	4.6	14
3	Co-orchestration of multiple instruments to uncover structure-property relationships in combinatorial libraries. <i>Digital Discovery</i> , 2024, 3, 1602-1611.	4.5	6
4	Machine Intelligence-Centered System for Automated Characterization of Functional Materials and Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 2329-2340.	8.0	9
5	A Membrane Contactor Enabling Energy-Efficient CO ₂ Capture from Point Sources with Deep Eutectic Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2023, 62, 4455-4465.	3.9	17
6	Tailored mesoporous structures of lignin-derived nano-carbons for multiple applications. <i>Carbon</i> , 2023, 213, 118285.	10.7	17
7	High-speed mapping of surface charge dynamics using sparse scanning Kelvin probe force microscopy. <i>Nature Communications</i> , 2023, 14, .	13.9	38
8	Analysis of trypsin activity at Î ² -casein layers formed on hydrophobic surfaces using a multiharmonic acoustic method. <i>Analyst</i> , 2022, 147, 461-470.	3.1	11
9	Quantifying fish otolith mineralogy for trace-element chemistry studies. <i>Scientific Reports</i> , 2022, 12, .	3.5	16
10	Magnetic and Optical Properties of Au-Co Solid Solution and Phase-Separated Thin Films and Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15047-15058.	8.0	9
11	New Insights on Plasmin Long Term Stability and the Mechanism of Its Activity Inhibition Analyzed by Quartz Crystal Microbalance. <i>Micromachines</i> , 2022, 13, 55.	2.6	2
12	Application of Multiharmonic QCM-D for Detection of Plasmin at Hydrophobic Surfaces Modified by Î ² -Casein. <i>Chemosensors</i> , 2022, 10, 143.	3.4	7
13	Correlative piezoresponse and micro-Raman imaging of CuInP ₂ S ₆ In ₄ /3P ₂ S ₆ flakes unravels phase-specific phononic fingerprint via unsupervised learning. <i>Applied Physics Letters</i> , 2022, 121, .	3.0	11
14	Correlative Nanoscale Imaging of Strained hBN Spin Defects. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 41361-41368.	8.0	20
15	Scalable synthesis of nanoporous atomically thin graphene membranes for dialysis and molecular separations via facile isopropanol-assisted hot lamination. <i>Nanoscale</i> , 2021, 13, 2825-2837.	5.0	29
16	Detection of Chymotrypsin by Optical and Acoustic Methods. <i>Biosensors</i> , 2021, 11, 63.	5.0	8
17	Indirect electrochemical method for high accuracy quantification of protein adsorption on gold surfaces. <i>Electrochemistry Communications</i> , 2021, 124, 106961.	3.9	1
18	Highly Efficient Plasmon Induced Hot-Electron Transfer at Ag/TiO ₂ Interface. <i>ACS Photonics</i> , 2021, 8, 1497-1504.	6.0	55

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19	SMART transfer method to directly compare the mechanical response of water-supported and free-standing ultrathin polymeric films. <i>Nature Communications</i> , 2021, 12, .	13.9	60
20	Optically Induced Static Magnetization in Metal Halide Perovskite for Spin-Related Optoelectronics. <i>Advanced Science</i> , 2021, 8, .	12.7	20
21	Exploring Transport Behavior in Hybrid Perovskites Solar Cells via Machine Learning Analysis of Environmental-Dependent Impedance Spectroscopy. <i>Advanced Science</i> , 2021, 8, .	12.7	38
22	Correlation of the Structure with Performance in MEH-PPV/dPS Thin Films Illuminated during Processing. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3821-3830.	4.6	5
23	Excitonic Dynamics in Janus MoSSe and WSSe Monolayers. <i>Nano Letters</i> , 2021, 21, 931-937.	8.7	155
24	Self-Assembled Room Temperature Multiferroic BiFeO ₃ -LiFe ₅ O ₈ Nanocomposites. <i>Advanced Functional Materials</i> , 2020, 30, .	17.0	21
25	Non-Equilibrium Synthesis of Highly Active Nanostructured, Oxygen-Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst. <i>Small</i> , 2020, 16, .	11.6	44
26	Optical and Magnetic Properties of Ag-Ni Bimetallic Nanoparticles Assembled via Pulsed Laser-Induced Dewetting. <i>ACS Omega</i> , 2020, 5, 19285-19292.	4.3	39
27	Construction of 2D BiVO ₄ -CdS-Ti ₃ C ₂ T _x Heterostructures for Enhanced Photo-redox Activities. <i>ChemCatChem</i> , 2020, 12, 3496-3503.	3.6	43
28	Tunable Electromechanical Liquid Crystal Elastomer Actuators. <i>Advanced Intelligent Systems</i> , 2020, 2, .	5.6	36
29	Low Energy Implantation into Transition-Metal Dichalcogenide Monolayers to Form Janus Structures. <i>ACS Nano</i> , 2020, 14, 3896-3906.	15.3	255
30	Correlation of Spatiotemporal Dynamics of Polarization and Charge Transport in Blended Hybrid Organic-Inorganic Perovskites on Macro- and Nanoscales. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15380-15388.	8.0	7
31	High-Resolution Laser-Induced Graphene. Flexible Electronics beyond the Visible Limit. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10902-10907.	8.0	209
32	Machine Learning-Enabled Correlation and Modeling of Multimodal Response of Thin Film to Environment on Macro and Nanoscale Using Lab-on-a-Crystal. <i>Advanced Functional Materials</i> , 2020, 30, .	17.0	18
33	In Quest of a Ferromagnetic Insulator: Structure-Controlled Magnetism in Mg-Ti-O Thin Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19970-19978.	3.1	11
34	Synthesis of zinc-gallate phosphors by biomineralization and their emission properties. <i>Acta Biomaterialia</i> , 2019, 97, 557-564.	9.4	3
35	Tuning the electrical properties of WSe ₂ via O ₂ plasma oxidation: towards lateral homojunctions. <i>2D Materials</i> , 2019, 6, 045024.	4.2	47
36	Microbial Approach to Low-Cost Production of Photovoltaic Nanomaterials. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18297-18302.	6.9	1

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37	Two-Photon Up-Conversion Photoluminescence Realized through Spatially Extended Gap States in Quasi-2D Perovskite Films. <i>Advanced Materials</i> , 2019, 31, .	24.5	27
38	Competing phases in epitaxial vanadium dioxide at nanoscale. <i>APL Materials</i> , 2019, 7, .	3.6	13
39	The impact of tomato fruits containing multi-walled carbon nanotube residues on human intestinal epithelial cell barrier function and intestinal microbiome composition. <i>Nanoscale</i> , 2019, 11, 3639-3655.	5.0	25
40	Monolayer $\text{Ti}_3\text{C}_2\text{T}_x$ as an Effective Co-catalyst for Enhanced Photocatalytic Hydrogen Production over TiO_2 . <i>ACS Applied Energy Materials</i> , 2019, 2, 4640-4651.	5.4	237
41	Environmental Gating and Galvanic Effects in Single Crystals of Organic-Inorganic Halide Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14722-14733.	8.0	16
42	2D/2D heterojunction of $\text{Ti}_3\text{C}_2\text{N}_4$ nanosheets for enhanced photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2019, 11, 8138-8149. <i>Room-Temperature Insulating Ferromagnetic (Ni,Co)</i>	5.0	372
43	1+2 x	2.6	8
44	Hierarchical $\text{TiO}_2\text{:Cu}_2\text{O}$ Nanostructures for Gas/Vapor Sensing and CO_2 Sequestration. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48466-48475.	8.0	27
45	Probing Electrolyte Solvents at Solid/Liquid Interface Using Gap-Mode Surface-Enhanced Raman Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2019, 166, A178-A187.	3.1	43
46	Room-temperature photo-induced martensitic transformation in a protein crystal. <i>IUCr</i> , 2019, 6, 619-629.	3.0	2
47	Cryomilled zinc sulfide: A prophylactic for <i>Staphylococcus aureus</i> -infected wounds. <i>Journal of Biomaterials Applications</i> , 2018, 33, 82-93.	2.5	0
48	Exploring Anomalous Polarization Dynamics in Organometallic Halide Perovskites. <i>Advanced Materials</i> , 2018, 30, .	24.5	49
49	Highly Permeable Oligo(ethylene oxide)-poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation. <i>Advanced Sustainable Systems</i> , 2018, 2, .	5.8	9
50	One-Step Synthesis of $\text{Nb}_2\text{O}_5/\text{C}/\text{Nb}_2\text{C}$ (MXene) Composites and Their Use as Photocatalysts for Hydrogen Evolution. <i>ChemSusChem</i> , 2018, 11, 688-699.	6.2	410
51	Multi-modal, ultrasensitive, wide-range humidity sensing with Ti_3C_2 film. <i>Nanoscale</i> , 2018, 10, 21689-21695.	5.0	94
52	Atmospheric and Long-term Aging Effects on the Electrical Properties of Variable Thickness WSe_2 Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36540-36548.	8.0	51
53	Electrolyte Solvation Structure at Solid-Liquid Interface Probed by Nanogap Surface-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2018, 12, 10159-10170.	15.3	98
54	Machine learning enabled acoustic detection of sub-nanomolar concentration of trypsin and plasmin in solution. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 282-288.	7.7	31

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55	Improved ZnS nanoparticle properties through sequential NanoFermentation. Applied Microbiology and Biotechnology, 2018, 102, 8329-8339.	4.1	2
56	Light-Activated Hybrid Nanocomposite Film for Water and Oxygen Sensing. ACS Applied Materials & Interfaces, 2018, 10, 31745-31754.	8.0	14
57	Dynamic Impact of Electrode Materials on Interface of Single-Crystalline Methylammonium Lead Bromide Perovskite. Advanced Materials Interfaces, 2018, 5, .	4.1	41
58	New Insights on Electro-Optical Response of Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Film to Humidity. ACS Applied Materials & Interfaces, 2017, 9, 15880-15886.	8.0	57
59	O ₂ Plasma Etching and Antistatic Gun Surface Modifications for CNT Yarn Microelectrode Improve Sensitivity and Antifouling Properties. Analytical Chemistry, 2017, 89, 5605-5611.	6.5	67
60	Magnetodielectric Response from Spin-Orbital Interaction Occurring at Interface of Ferromagnetic Co and Organometal Halide Perovskite Layers via Rashba Effect. Advanced Materials, 2017, 29, .	24.5	21
61	Functional two/three-dimensional assembly of monolayer WS ₂ and nickel oxide. Journal of Photonics for Energy, 2017, 7, 014001.	1.7	1
62	Emerging materials for lowering atmospheric carbon. Environmental Technology and Innovation, 2017, 7, 30-43.	6.7	22
63	Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. ACS Nano, 2017, 11, 11118-11126.	15.3	248
64	Multi-mode humidity sensing with water-soluble copper phthalocyanine for increased sensitivity and dynamic range. Scientific Reports, 2017, 7, .	3.5	22
65	UV-activated ZnO films on a flexible substrate for room temperature O ₂ and H ₂ O sensing. Scientific Reports, 2017, 7, .	3.5	78
66	Fabrication and characterization of multiwalled carbon nanotube-loaded interconnected porous nanocomposite scaffolds. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 183-192.	3.4	5
67	Influence of annealing on the photodeposition of silver on periodically poled lithium niobate. Journal of Applied Physics, 2016, 119, .	2.1	11
68	Comparative study of plant responses to carbon-based nanomaterials with different morphologies. Nanotechnology, 2016, 27, 265102.	2.7	95
69	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.	2.7	23
70	Laser Treated Carbon Nanotube Yarn Microelectrodes for Rapid and Sensitive Detection of Dopamine in Vivo. ACS Sensors, 2016, 1, 508-515.	8.5	83
71	Manufacturing demonstration of microbially mediated zinc sulfide nanoparticles in pilot-plant scale reactors. Applied Microbiology and Biotechnology, 2016, 100, 7921-7931.	4.1	33
72	PEDOT:PSS/QCM-based multimodal humidity and pressure sensor. Sensors and Actuators B: Chemical, 2016, 236, 91-98.	7.7	68

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73	Imaging of electrical response of NiO x under controlled environment with sub-25-nm resolution. Journal of Photonics for Energy, 2016, 6, 038001.	1.7	2
74	Polymerization of Acetonitrile via a Hydrogen Transfer Reaction from CH ₃ to CN under Extreme Conditions. Angewandte Chemie - International Edition, 2016, 55, 12040-12044.	14.4	33
75	Ultrafast Dynamics of Metal Plasmons Induced by 2D Semiconductor Excitons in Hybrid Nanostructure Arrays. ACS Photonics, 2016, 3, 2389-2395.	6.0	45
76	Focused helium-ion beam irradiation effects on electrical transport properties of few-layer WSe ₂ : enabling nanoscale direct write homo-junctions. Scientific Reports, 2016, 6, .	3.5	128
77	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.	8.0	8
78	Epitaxial stabilization and phase instability of VO ₂ polymorphs. Scientific Reports, 2016, 6, .	3.5	142
79	Ultrafast Charge Transfer and Hybrid Exciton Formation in 2D/0D Heterostructures. Journal of the American Chemical Society, 2016, 138, 14713-14719.	15.0	119
80	Morphology-defined interaction of copper phthalocyanine with O ₂ /H ₂ O. Journal of Photonics for Energy, 2016, 6, 045501.	1.7	9
81	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.	1.7	20
82	Carbon Nanotubes Grown on Metal Microelectrodes for the Detection of Dopamine. Analytical Chemistry, 2016, 88, 645-652.	6.5	127
83	Deciphering Halogen Competition in Organometallic Halide Perovskite Growth. Journal of the American Chemical Society, 2016, 138, 5028-5035.	15.0	100
84	Amidine-Functionalized Poly(2-vinyl-4,4-dimethylazlactone) for Selective and Efficient CO ₂ Fixing. Macromolecules, 2016, 49, 1523-1531.	5.0	13
85	Pressure induced polymerization of acetylide anions in CaC ₂ and 10 ⁷ fold enhancement of electrical conductivity. Chemical Science, 2016, 8, 298-304.	7.1	21
86	Interface and thickness dependent domain switching and stability in Mg doped lithium niobate. Journal of Applied Physics, 2015, 118, 224101.	2.1	10
87	Peculiarity of Two Thermodynamically-Stable Morphologies and Their Impact on the Efficiency of Small Molecule Bulk Heterojunction Solar Cells. Scientific Reports, 2015, 5, .	3.5	17
88	Fabrication of co-continuous poly(ε-caprolactone)/polyglycolide blend scaffolds for tissue engineering. Journal of Applied Polymer Science, 2015, 132, .	2.7	14
89	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.	6.0	297
90	Synthesis, Structure, and Pressure-Induced Polymerization of Li ₃ Fe(CN) ₆ Accompanied with Enhanced Conductivity. Inorganic Chemistry, 2015, 54, 11276-11282.	4.6	7

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91	Size tunable elemental copper nanoparticles: extracellular synthesis by thermoanaerobic bacteria and capping molecules. <i>Journal of Materials Chemistry C</i> , 2015, 3, 644-650.	5.1	47
92	Patterned arrays of lateral heterojunctions within monolayer two-dimensional semiconductors. <i>Nature Communications</i> , 2015, 6, .	13.9	246
93	Perovskite Solar Cells with Near 100% Internal Quantum Efficiency Based on Large Single Crystalline Grains and Vertical Bulk Heterojunctions. <i>Journal of the American Chemical Society</i> , 2015, 137, 9210-9213.	15.0	267
94	Visible light assisted photocatalytic hydrogen generation by Ta ₂ O ₅ /Bi ₂ O ₃ , TaON/Bi ₂ O ₃ , and Ta ₃ N ₅ /Bi ₂ O ₃ composites. <i>RSC Advances</i> , 2015, 5, 54998-55005.	4.4	51
95	Correlating high power conversion efficiency of PTB7:PC ₇₁ BM inverted organic solar cells with nanoscale structures. <i>Nanoscale</i> , 2015, 7, 15576-15583.	5.0	56
96	Optical Control of Fluorescence through Plasmonic Eigenmode Extinction. <i>Scientific Reports</i> , 2015, 5, .	3.5	5
97	Strong and Electrically Conductive Graphene-Based Composite Fibers and Laminates. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10702-10709.	8.0	72
98	<i>In situ</i> capping for size control of monochalcogenide (ZnS, CdS and SnS) nanocrystals produced by anaerobic metal-reducing bacteria. <i>Nanotechnology</i> , 2015, 26, 325602.	2.7	15
99	Visible-light-driven Bi ₂ O ₃ /WO ₃ composites with enhanced photocatalytic activity. <i>RSC Advances</i> , 2015, 5, 91094-91102.	4.4	65
100	Cooperative Island Growth of Large-Area Single-Crystal Graphene on Copper Using Chemical Vapor Deposition. <i>ACS Nano</i> , 2014, 8, 5657-5669.	15.3	100
101	The isotopic effects of deuteration on optoelectronic properties of conducting polymers. <i>Nature Communications</i> , 2014, 5, .	13.9	142
102	Water-mediated electrochemical nano-writing on thin ceria films. <i>Nanotechnology</i> , 2014, 25, 075701.	2.7	13
103	Anomalous Photodeposition of Ag on Ferroelectric Surfaces with Below-Bandgap Excitation. <i>Advanced Optical Materials</i> , 2014, 2, 292-299.	7.0	3
104	Dielectric Interface Effects on Surface Charge Accumulation and Collection towards High-Efficiency Organic Solar Cells. <i>Journal of Applied Physics</i> , 2014, 115, 154506.	2.1	21
105	Pulsed Laser Deposition of Photoresponsive Two-Dimensional GaSe Nanosheet Networks. <i>Advanced Functional Materials</i> , 2014, 24, 6365-6371.	17.0	121
106	High Temporal Resolution Measurements of Dopamine with Carbon Nanotube Yarn Microelectrodes. <i>Analytical Chemistry</i> , 2014, 86, 5721-5727.	6.5	102
107	Mapping internal structure of coal by confocal micro-Raman spectroscopy and scanning microwave microscopy. <i>Fuel</i> , 2014, 126, 32-37.	7.5	36
108	Scalable production of microbially mediated zinc sulfide nanoparticles and application to functional thin films. <i>Acta Biomaterialia</i> , 2014, 10, 4474-4483.	9.4	50

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109	Synthesis and properties of SiNx coatings as stable fluorescent markers on vertically aligned carbon nanofibers. <i>AIMS Materials Science</i> , 2014, 1, 87-102.	1.6	0
110	Probing Local Ionic Dynamics in Functional Oxides at the Nanoscale. <i>Nano Letters</i> , 2013, 13, 3455-3462.	8.7	56
111	High-performance organic field-effect transistors with dielectric and active layers printed sequentially by ultrasonic spraying. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4384.	5.1	28
112	Synthesis of Millimeter-Size Hexagon-Shaped Graphene Single Crystals on Resolidified Copper. <i>ACS Nano</i> , 2013, 7, 8924-8931.	15.3	189
113	Nanometer-scale mapping of irreversible electrochemical nucleation processes on solid Li-ion electrolytes. <i>Scientific Reports</i> , 2013, 3, .	3.5	34
114	Scalable economic extracellular synthesis of CdS nanostructured particles by a non-pathogenic thermophile. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013, 40, 1263-1271.	3.3	31
115	Magneto-Dielectric Effects Induced by Optically-Generated Intermolecular Charge-Transfer States in Organic Semiconducting Materials. <i>Scientific Reports</i> , 2013, 3, .	3.5	26
116	Grafting density effects, optoelectrical properties and nano-patterning of poly(para-phenylene) brushes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13426.	9.3	5
117	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. <i>CrystEngComm</i> , 2013, 15, 1114-1124.	2.4	55
118	Effect of purity on the electro-optical properties of single wall nanotube-based transparent conductive electrodes. <i>Carbon</i> , 2013, 64, 1-5.	10.7	9
119	Optically transparent, mechanically durable, nanostructured superhydrophobic surfaces enabled by spinodally phase-separated glass thin films. <i>Nanotechnology</i> , 2013, 24, 315602.	2.7	48
120	K ₃ Fe(CN) ₆ : Pressure-Induced Polymerization and Enhanced Conductivity. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24174-24180.	3.1	21
121	Porous poly(ϵ -caprolactone) scaffolds for load-bearing tissue regeneration: Solventless fabrication and characterization. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 1050-1060.	3.5	20
122	High Seebeck effects from conducting polymer: Poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) based thin-film device with hybrid metal/polymer/metal architecture. <i>Applied Physics Letters</i> , 2012, 101, .	3.0	14
123	Probing Surface and Bulk Electrochemical Processes on the LaAlO ₃ /SrTiO ₃ Interface. <i>ACS Nano</i> , 2012, 6, 3841-3852.	15.3	67
124	Manipulating Interfaces through Surface Confinement of Poly(glycidyl) Ether Tetraquaterphenyl Methacrylate (PGTQ-PMMA) Macromolecules. <i>Macromolecules</i> , 2012, 45, 6438-6449.	5.0	41
125	Doping-Based Stabilization of the M2 Phase in Free-Standing VO ₂ Nanostructures at Room Temperature. <i>Nano Letters</i> , 2012, 12, 6198-6205.	8.7	174
126	Dielectric Constant-Enhanced Hall Mobility in Complex Oxides. <i>Advanced Materials</i> , 2012, 24, 3965-3969.	24.5	26

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127	Characterization and Carbonization of Highly Oriented Poly(diiododiacetylene) Nanofibers. <i>Macromolecules</i> , 2011, 44, 2626-2631.	5.0	31
128	High Tunability of the Surface-Enhanced Raman Scattering Response with a Metal-Insulator-Multiferroic Composite. <i>Nano Letters</i> , 2011, 11, 1265-1269.	8.7	22
129	Crystallographically Aligned Carbon Nanotubes Grown on Few-Layer Graphene Films. <i>ACS Nano</i> , 2011, 5, 6403-6409.	15.3	25
130	Electrical and thermal conductivity of low temperature CVD graphene: the effect of disorder. <i>Nanotechnology</i> , 2011, 22, 275716.	2.7	145
131	Structure of Vanadium Oxide Supported on Ceria by Multiwavelength Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25368-25378.	3.1	105
132	Electro-optical properties of electropolymerized poly(3-hexylthiophene)/carbon nanotube composite thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 1269-1275.	2.7	18
133	Giant Magnetic Field Effects on Electroluminescence in Electrochemical Cells. <i>Advanced Materials</i> , 2011, 23, 2216-2220.	24.5	33
134	PS- <i>b</i> -P3HT Copolymers as P3HT/PCBM Interfacial Compatibilizers for High Efficiency Photovoltaics. <i>Advanced Materials</i> , 2011, 23, 5529-5535.	24.5	113
135	Effects of single walled carbon nanotubes on the electroluminescent performance of organic light-emitting diodes. <i>Organic Electronics</i> , 2011, 12, 1098-1102.	2.6	4
136	Magnetic Studies of Photovoltaic Processes in Organic Solar Cells. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1801-1806.	2.8	6
137	Separation of junction and bundle resistance in single wall carbon nanotube percolation networks by impedance spectroscopy. <i>Applied Physics Letters</i> , 2010, 97, .	3.0	60
138	Processing of loose carbon nanotubes into isolated, high density submicron channels. <i>Nanotechnology</i> , 2010, 21, 115301.	2.7	5
139	White Light-Emitting Diodes Based on Ultrasmall CdSe Nanocrystal Electroluminescence. <i>Nano Letters</i> , 2010, 10, 573-576.	8.7	170
140	Real Space Mapping of Li-Ion Transport in Amorphous Si Anodes with Nanometer Resolution. <i>Nano Letters</i> , 2010, 10, 3420-3425.	8.7	243
141	Decoupling Electrochemical Reaction and Diffusion Processes in Ionically-Conductive Solids on the Nanometer Scale. <i>ACS Nano</i> , 2010, 4, 7349-7357.	15.3	96
142	Interplay between Ferroelastic and Metal-Insulator Phase Transitions in Strained Quasi-Two-Dimensional VO ₂ Nanoplatelets. <i>Nano Letters</i> , 2010, 10, 2003-2011.	8.7	103
143	The importance of chain connectivity in the formation of non-covalent interactions between polymers and single-walled carbon nanotubes and its impact on dispersion. <i>Soft Matter</i> , 2010, 6, 2801.	2.7	35
144	Metastable Copper-Phthalocyanine Single-Crystal Nanowires and Their Use in Fabricating High-Performance Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2009, 19, 3776-3780.	17.0	86

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145	Stress induced crystallization of hydrogenated amorphous silicon. <i>Thin Solid Films</i> , 2009, 517, 3222-3226.	1.9	75
146	Fabrication and characterization of brookite-rich, visible light-active TiO ₂ films for water splitting. <i>Applied Catalysis B: Environmental</i> , 2009, 93, 90-95.	20.5	54
147	Growth, Patterning, and One-Dimensional Electron -Transport Properties of Self-Assembled Ag-TCNQF ₄ Organic Nanowires. <i>Chemistry of Materials</i> , 2009, 21, 4275-4281.	6.7	49
148	The effect of the atmosphere on the optical properties of as-synthesized colloidal indium tin oxide. <i>Nanotechnology</i> , 2009, 20, 145701.	2.7	11
149	Selective Patterned Growth of Single-Crystal Ag-TCNQ Nanowires for Devices by Vapor-Solid Chemical Reaction. <i>Advanced Functional Materials</i> , 2008, 18, 3043-3048.	17.0	64
150	Formation of single crystalline ZnO nanotubes without catalysts and templates. <i>Applied Physics Letters</i> , 2007, 90, 113108.	3.0	94
151	Practical Modeling of Heterogeneous Bundles of Single-Walled Carbon Nanotubes for Adsorption Applications: Estimating the Fraction of Open-Ended Nanotubes in Samples. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13747-13755.	3.1	33
152	Single-Crystal Organic Nanowires of Copper-Tetracyanoquinodimethane: Synthesis, Patterning, Characterization, and Device Applications. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2650-2654.	14.4	90
153	Fast and highly anisotropic thermal transport through vertically aligned carbon nanotube arrays. <i>Applied Physics Letters</i> , 2006, 89, 223110.	3.0	166
154	Improving Dispersion of Single-Walled Carbon Nanotubes in a Polymer Matrix Using Specific Interactions. <i>Chemistry of Materials</i> , 2006, 18, 3513-3522.	6.7	46
155	In situ electric-field-induced contrast imaging of electronic transport pathways in nanotube-polymer composites. <i>Applied Physics Letters</i> , 2006, 89, 013114.	3.0	12
156	A Dual-RF-Plasma Approach for Controlling the Graphitic Order and Diameters of Vertically-Aligned Multiwall Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2005, 858, .	0.1	0
157	Structural control of vertically aligned multiwalled carbon nanotubes by radio-frequency plasmas. <i>Applied Physics Letters</i> , 2005, 87, 173106.	3.0	20
158	High-density vertically aligned multiwalled carbon nanotubes with tubular structures. <i>Applied Physics Letters</i> , 2005, 86, 253105.	3.0	38
159	Reorientation of carbon nanotubes in polymer matrix composites using compressive loading. <i>Journal of Materials Research</i> , 2005, 20, 1026-1032.	2.5	11
160	Carbon nanotube effects on electroluminescence and photovoltaic response in conjugated polymers. <i>Applied Physics Letters</i> , 2005, 87, 263118.	3.0	59
161	Low Temperature Growth of Boron Nitride Nanotubes on Substrates. <i>Nano Letters</i> , 2005, 5, 2528-2532.	8.7	185
162	Electron Microscopy Imaging of Electrical Transport Through Single-Wall Carbon Nanotube Networks in Polymers. <i>Microscopy and Microanalysis</i> , 2004, 10, 552-553.	0.4	0

#	ARTICLE	IF	PR CITATIONS
163	Rapid Molecular Motion of Pyrene and Benzene Moieties Covalently Attached to Silica Surfaces. Journal of Physical Chemistry A, 2003, 107, 3450-3456.	2.5	7
164	Fluorescence Decay Study of Anisotropic Rotations of Substituted Pyrenes Physisorbed and Chemically Attached to a Fumed Silica Surface. Journal of Physical Chemistry B, 2001, 105, 10308-10315.	2.7	10
165	Photochemical reactions of trans-stilbene and 1,1-diphenylethylene on silica gel: mechanisms of oxidation and dimerization. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 138, 269-274.	4.3	19
166	Photochemistry of Pyrene on Unactivated and Activated Silica Surfaces. Environmental Science & Technology, 2000, 34, 415-421.	11.1	83
167	Photophysical and Photochemical Processes of 2-Methyl, 2-Ethyl, and 2-tert-Butylanthracenes on Silica Gel. A Substituent Effect Study. Journal of Physical Chemistry B, 2000, 104, 10235-10241.	2.7	21
168	A Compilation of Physical, Spectroscopic and Photophysical Properties of Polycyclic Aromatic Hydrocarbons. Photochemistry and Photobiology, 1999, 70, 10-34.	2.8	207