

Ilia N Ivanov

List of Publications by Year in descending order

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180
papers

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45967

90
g-index

191
all docs

191
docs citations

191
times ranked

16262
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Step Synthesis of Nb ₂ O ₅ /C/Nb ₂ C (MXene) Composites and Their Use as Photocatalysts for Hydrogen Evolution. <i>ChemSusChem</i> , 2018, 11, 688-699.	7.5	335
2	2D/2D heterojunction of Ti ₃ C ₂ /g-C ₃ N ₄ nanosheets for enhanced photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2019, 11, 8138-8149.	5.8	314
3	High-Performance Flexible Perovskite Solar Cells by Using a Combination of Ultrasonic Spray-Coating and Low Thermal Budget Photonic Curing. <i>ACS Photonics</i> , 2015, 2, 680-686.	6.9	272
4	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.	14.6	251
5	Real Space Mapping of Li-Ion Transport in Amorphous Si Anodes with Nanometer Resolution. <i>Nano Letters</i> , 2010, 10, 3420-3425.	9.5	236
6	Patterned arrays of lateral heterojunctions within monolayer two-dimensional semiconductors. <i>Nature Communications</i> , 2015, 6, 7749.	13.2	218
7	Evolutionary selection growth of two-dimensional materials on polycrystalline substrates. <i>Nature Materials</i> , 2018, 17, 318-322.	26.6	218
8	A Compilation of Physical, Spectroscopic and Photophysical Properties of Polycyclic Aromatic Hydrocarbons. <i>Photochemistry and Photobiology</i> , 1999, 70, 10-34.	2.6	205
9	Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. <i>ACS Nano</i> , 2017, 11, 11118-11126.	15.3	204
10	Monolayer Ti ₃ C ₂ Tx as an Effective Co-catalyst for Enhanced Photocatalytic Hydrogen Production over TiO ₂ . <i>ACS Applied Energy Materials</i> , 2019, 2, 4640-4651.	5.3	196
11	Synthesis of Millimeter-Size Hexagon-Shaped Graphene Single Crystals on Resolidified Copper. <i>ACS Nano</i> , 2013, 7, 8924-8931.	15.3	180
12	Low Temperature Growth of Boron Nitride Nanotubes on Substrates. <i>Nano Letters</i> , 2005, 5, 2528-2532.	9.5	178
13	White Light-Emitting Diodes Based on Ultrasmall CdSe Nanocrystal Electroluminescence. <i>Nano Letters</i> , 2010, 10, 573-576.	9.5	165
14	Fast and highly anisotropic thermal transport through vertically aligned carbon nanotube arrays. <i>Applied Physics Letters</i> , 2006, 89, 223110.	3.2	159
15	High-Resolution Laser-Induced Graphene. Flexible Electronics beyond the Visible Limit. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10902-10907.	8.3	157
16	Low Energy Implantation into Transition-Metal Dichalcogenide Monolayers to Form Janus Structures. <i>ACS Nano</i> , 2020, 14, 3896-3906.	15.3	155
17	Doping-Based Stabilization of the M2 Phase in Free-Standing VO ₂ Nanostructures at Room Temperature. <i>Nano Letters</i> , 2012, 12, 6198-6205.	9.5	153
18	Electrical and thermal conductivity of low temperature CVD graphene: the effect of disorder. <i>Nanotechnology</i> , 2011, 22, 275716.	2.7	136

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19	Epitaxial stabilization and phase instability of VO ₂ polymorphs. <i>Scientific Reports</i> , 2016, 6, 19621.	3.4	121
20	Carbon Nanotubes Grown on Metal Microelectrodes for the Detection of Dopamine. <i>Analytical Chemistry</i> , 2016, 88, 645-652.	6.8	115
21	The isotopic effects of deuteration on optoelectronic properties of conducting polymers. <i>Nature Communications</i> , 2014, 5, 3180.	13.2	114
22	PS- <i>b</i> -P3HT Copolymers as P3HT/PCBM Interfacial Compatibilizers for High Efficiency Photovoltaics. <i>Advanced Materials</i> , 2011, 23, 5529-5535.	24.3	112
23	Pulsed Laser Deposition of Photoresponsive Two-Dimensional GaSe Nanosheet Networks. <i>Advanced Functional Materials</i> , 2014, 24, 6365-6371.	16.5	111
24	Focused helium-ion beam irradiation effects on electrical transport properties of few-layer WSe ₂ : enabling nanoscale direct write homo-junctions. <i>Scientific Reports</i> , 2016, 6, 27276.	3.4	110
25	Ultrafast Charge Transfer and Hybrid Exciton Formation in 2D/0D Heterostructures. <i>Journal of the American Chemical Society</i> , 2016, 138, 14713-14719.	14.6	107
26	Interplay between Ferroelastic and Metal-Insulator Phase Transitions in Strained Quasi-Two-Dimensional VO ₂ Nanoplatelets. <i>Nano Letters</i> , 2010, 10, 2003-2011.	9.5	101
27	Excitonic Dynamics in Janus MoSSe and WSSe Monolayers. <i>Nano Letters</i> , 2021, 21, 931-937.	9.5	100
28	Structure of Vanadium Oxide Supported on Ceria by Multiwavelength Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25368-25378.	3.3	97
29	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
30	High Temporal Resolution Measurements of Dopamine with Carbon Nanotube Yarn Microelectrodes. <i>Analytical Chemistry</i> , 2014, 86, 5721-5727.	6.8	95
31	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	94
32	Deciphering Halogen Competition in Organometallic Halide Perovskite Growth. <i>Journal of the American Chemical Society</i> , 2016, 138, 5028-5035.	14.6	94
33	Formation of single crystalline ZnO nanotubes without catalysts and templates. <i>Applied Physics Letters</i> , 2007, 90, 113108.	3.2	90
34	Single-Crystal Organic Nanowires of Copper-Tetracyanoquinodimethane: Synthesis, Patterning, Characterization, and Device Applications. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2650-2654.	14.8	90
35	Photochemistry of Pyrene on Unactivated and Activated Silica Surfaces. <i>Environmental Science & Technology</i> , 2000, 34, 415-421.	10.5	82
36	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.	16.5	82

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37	Multi-modal, ultrasensitive, wide-range humidity sensing with Ti ₃ C ₂ film. <i>Nanoscale</i> , 2018, 10, 21689-21695.	5.8	82
38	Comparative study of plant responses to carbon-based nanomaterials with different morphologies. <i>Nanotechnology</i> , 2016, 27, 265102.	2.7	81
39	Electrolyte Solvation Structure at Solid–Liquid Interface Probed by Nanogap Surface-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2018, 12, 10159-10170.	15.3	79
40	Stress induced crystallization of hydrogenated amorphous silicon. <i>Thin Solid Films</i> , 2009, 517, 3222-3226.	1.9	74
41	Laser Treated Carbon Nanotube Yarn Microelectrodes for Rapid and Sensitive Detection of Dopamine in Vivo. <i>ACS Sensors</i> , 2016, 1, 508-515.	8.1	74
42	Strong and Electrically Conductive Graphene-Based Composite Fibers and Laminates. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10702-10709.	8.3	67
43	UV-activated ZnO films on a flexible substrate for room temperature O ₂ and H ₂ O sensing. <i>Scientific Reports</i> , 2017, 7, 6053.	3.4	66
44	Probing Surface and Bulk Electrochemical Processes on the LaAlO ₃ –SrTiO ₃ Interface. <i>ACS Nano</i> , 2012, 6, 3841-3852.	15.3	65
45	PEDOT:PSS/QCM-based multimodal humidity and pressure sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 91-98.	8.0	60
46	Visible-light-driven Bi ₂ O ₃ /WO ₃ composites with enhanced photocatalytic activity. <i>RSC Advances</i> , 2015, 5, 91094-91102.	3.7	59
47	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.	16.5	58
48	Separation of junction and bundle resistance in single wall carbon nanotube percolation networks by impedance spectroscopy. <i>Applied Physics Letters</i> , 2010, 97, .	3.2	58
49	O ₂ Plasma Etching and Antistatic Gun Surface Modifications for CNT Yarn Microelectrode Improve Sensitivity and Antifouling Properties. <i>Analytical Chemistry</i> , 2017, 89, 5605-5611.	6.8	58
50	Carbon nanotube effects on electroluminescence and photovoltaic response in conjugated polymers. <i>Applied Physics Letters</i> , 2005, 87, 263118.	3.2	57
51	Correlating high power conversion efficiency of PTB7:PC ₇₁ BM inverted organic solar cells with nanoscale structures. <i>Nanoscale</i> , 2015, 7, 15576-15583.	5.8	56
52	Probing Local Ionic Dynamics in Functional Oxides at the Nanoscale. <i>Nano Letters</i> , 2013, 13, 3455-3462.	9.5	55
53	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.	20.7	54
54	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	52

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55	New Insights on Electro-Optical Response of Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Film to Humidity. ACS Applied Materials & Interfaces, 2017, 9, 15880-15886.	8.3	51
56	Scalable production of microbially mediated zinc sulfide nanoparticles and application to functional thin films. Acta Biomaterialia, 2014, 10, 4474-4483.	8.8	49
57	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. RSC Advances, 2015, 5, 54998-55005.	3.7	49
58	Growth, Patterning, and One-Dimensional Electron -Transport Properties of Self-Assembled Ag-TCNQF4 Organic Nanowires. Chemistry of Materials, 2009, 21, 4275-4281.	7.1	48
59	Optically transparent, mechanically durable, nanostructured superhydrophobic surfaces enabled by spinodally phase-separated glass thin films. Nanotechnology, 2013, 24, 315602.	2.7	47
60	Improving Dispersion of Single-Walled Carbon Nanotubes in a Polymer Matrix Using Specific Interactions. Chemistry of Materials, 2006, 18, 3513-3522.	7.1	46
61	Exploring Anomalous Polarization Dynamics in Organometallic Halide Perovskites. Advanced Materials, 2018, 30, 1705298.	24.3	44
62	Size tunable elemental copper nanoparticles: extracellular synthesis by thermoanaerobic bacteria and capping molecules. Journal of Materials Chemistry C, 2015, 3, 644-650.	5.6	41
63	Tuning the electrical properties of WSe ₂ via O ₂ plasma oxidation: towards lateral homojunctions. 2D Materials, 2019, 6, 045024.	4.5	41
64	Manipulating Interfaces through Surface Confinement of Poly(glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (methacrylate)-i>b Macromolecules, 2012, 45, 6438-6449.	5.1	39
65	Highly Efficient Plasmon Induced Hot-Electron Transfer at Ag/TiO ₂ Interface. ACS Photonics, 2021, 8, 1497-1504.	6.9	39
66	High-density vertically aligned multiwalled carbon nanotubes with tubular structures. Applied Physics Letters, 2005, 86, 253105.	3.2	38
67	Atmospheric and Long-term Aging Effects on the Electrical Properties of Variable Thickness WSe ₂ Transistors. ACS Applied Materials & Interfaces, 2018, 10, 36540-36548.	8.3	37
68	SMART transfer method to directly compare the mechanical response of water-supported and free-standing ultrathin polymeric films. Nature Communications, 2021, 12, 2347.	13.2	36
69	Mapping internal structure of coal by confocal micro-Raman spectroscopy and scanning microwave microscopy. Fuel, 2014, 126, 32-37.	6.6	35
70	Optical and Magnetic Properties of Ag@Ni Bimetallic Nanoparticles Assembled via Pulsed Laser-Induced Dewetting. ACS Omega, 2020, 5, 19285-19292.	3.6	35
71	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.	2.8	34
72	Dynamic Impact of Electrode Materials on Interface of Single-Crystalline Methylammonium Lead Bromide Perovskite. Advanced Materials Interfaces, 2018, 5, 1800476.	4.1	34

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73	Non-Equilibrium Synthesis of Highly Active Nanostructured, Oxygen-Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst. <i>Small</i> , 2020, 16, e2004047.	11.2	34
74	Manufacturing demonstration of microbially mediated zinc sulfide nanoparticles in pilot-plant scale reactors. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7921-7931.	3.7	32
75	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.	2.9	32
76	Characterization and Carbonization of Highly Oriented Poly(diiododiacetylene) Nanofibers. <i>Macromolecules</i> , 2011, 44, 2626-2631.	5.1	31
77	Giant Magnetic Field Effects on Electroluminescence in Electrochemical Cells. <i>Advanced Materials</i> , 2011, 23, 2216-2220.	24.3	31
78	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.	3.0	31
79	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.	3.3	30
80	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.	8.0	30
81	Nanometer-scale mapping of irreversible electrochemical nucleation processes on solid Li-ion electrolytes. <i>Scientific Reports</i> , 2013, 3, 1621.	3.4	29
82	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.	3.8	29
83	Tunable Electromechanical Liquid Crystal Elastomer Actuators. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000022.	6.7	29
84	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.	5.6	27
85	Polymerization of Acetonitrile via a Hydrogen Transfer Reaction from CH ₃ to CN under Extreme Conditions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12040-12044.	14.8	27
86	Exploring Transport Behavior in Hybrid Perovskites Solar Cells via Machine Learning Analysis of Environmental-Dependent Impedance Spectroscopy. <i>Advanced Science</i> , 2021, 8, e2002510.	12.4	27
87	Magneto-Dielectric Effects Induced by Optically-Generated Intermolecular Charge-Transfer States in Organic Semiconducting Materials. <i>Scientific Reports</i> , 2013, 3, 2812.	3.4	25
88	Crystallographically Aligned Carbon Nanotubes Grown on Few-Layer Graphene Films. <i>ACS Nano</i> , 2011, 5, 6403-6409.	15.3	24
89	Dielectric-Constant-Enhanced Hall Mobility in Complex Oxides. <i>Advanced Materials</i> , 2012, 24, 3965-3969.	24.3	24
90	Two-Photon Up-Conversion Photoluminescence Realized through Spatially Extended Gap States in Quasi-2D Perovskite Films. <i>Advanced Materials</i> , 2019, 31, e1901240.	24.3	24

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91	High Tunability of the Surface-Enhanced Raman Scattering Response with a Metal-Insulator-Multiferroic Composite. <i>Nano Letters</i> , 2011, 11, 1265-1269.	9.5	22
92	Elucidating the role of methyl viologen as a scavenger of photoactivated electrons from photosystem I under aerobic and anaerobic conditions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8512-8521.	2.9	22
93	Photophysical and Photochemical Processes of 2-Methyl, 2-Ethyl, and 2-tert-Butylantracenes on Silica Gel. A Substituent Effect Study. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10235-10241.	2.7	21
94	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.	5.8	21
95	Hierarchical TiO ₂ :Cu ₂ O Nanostructures for Gas/Vapor Sensing and CO ₂ Sequestration. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48466-48475.	8.3	21
96	Structural control of vertically aligned multiwalled carbon nanotubes by radio-frequency plasmas. <i>Applied Physics Letters</i> , 2005, 87, 173106.	3.2	20
97	Multimodal probing of oxygen and water interaction with metallic and semiconducting carbon nanotube networks under ultraviolet irradiation. <i>Journal of Photonics for Energy</i> , 2016, 6, 025506.	1.4	20
98	Pressure induced polymerization of acetylide anions in CaC ₂ and 10 ⁷ fold enhancement of electrical conductivity. <i>Chemical Science</i> , 2016, 8, 298-304.	7.8	20
99	Photochemical reactions of trans-stilbene and 1,1-diphenylethylene on silica gel: mechanisms of oxidation and dimerization. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 138, 269-274.	4.0	19
100	K ₃ Fe(CN) ₆ : Pressure-Induced Polymerization and Enhanced Conductivity. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24174-24180.	3.3	19
101	Dielectric Interface Effects on Surface Charge Accumulation and Collection towards High-Efficiency Organic Solar Cells. <i>Journal of Applied Physics</i> , 2014, 115, 154506.	2.3	19
102	Magnetodielectric Response from Spin-Orbital Interaction Occurring at Interface of Ferromagnetic Co and Organometal Halide Perovskite Layers via Rashba Effect. <i>Advanced Materials</i> , 2017, 29, 1603667.	24.3	19
103	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.	5.8	19
104	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.	2.4	18
105	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.	3.7	18
106	Multi-mode humidity sensing with water-soluble copper phthalocyanine for increased sensitivity and dynamic range. <i>Scientific Reports</i> , 2017, 7, 9921.	3.4	18
107	Peculiarity of Two Thermodynamically-Stable Morphologies and Their Impact on the Efficiency of Small Molecule Bulk Heterojunction Solar Cells. <i>Scientific Reports</i> , 2015, 5, 13407.	3.4	17
108	Self-Assembled Room Temperature Multiferroic BiFeO ₃ -LiFe ₅ O ₈ Nanocomposites. <i>Advanced Functional Materials</i> , 2020, 30, 1906849.	16.5	17

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109	Emerging materials for lowering atmospheric carbon. Environmental Technology and Innovation, 2017, 7, 30-43.	6.3	16
110	Optically Induced Static Magnetization in Metal Halide Perovskite for Spin-Related Optoelectronics. Advanced Science, 2021, 8, 2004488.	12.4	16
111	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, .	3.2	14
112	Environmental Gating and Galvanic Effects in Single Crystals of Organic-Inorganic Halide Perovskites. ACS Applied Materials & Interfaces, 2019, 11, 14722-14733.	8.3	14
113	Fabrication of continuous poly(μ -caprolactone)/polyglycolide blend scaffolds for tissue engineering. Journal of Applied Polymer Science, 2015, 132, .	2.7	13
114	In situ capping for size control of monochalcogenide (ZnS, CdS and SnS) nanocrystals produced by anaerobic metal-reducing bacteria. Nanotechnology, 2015, 26, 325602.	2.7	13
115	Machine Learning-Enabled Correlation and Modeling of Multimodal Response of Thin Film to Environment on Macro and Nanoscale Using Lab-on-a-Crystal. Advanced Functional Materials, 2020, 30, 1908010.	16.5	13
116	In situ electric-field-induced contrast imaging of electronic transport pathways in nanotube-polymer composites. Applied Physics Letters, 2006, 89, 013114.	3.2	12
117	Water-mediated electrochemical nano-writing on thin ceria films. Nanotechnology, 2014, 25, 075701.	2.7	12
118	Light-Activated Hybrid Nanocomposite Film for Water and Oxygen Sensing. ACS Applied Materials & Interfaces, 2018, 10, 31745-31754.	8.3	12
119	Reorientation of carbon nanotubes in polymer matrix composites using compressive loading. Journal of Materials Research, 2005, 20, 1026-1032.	2.6	11
120	The effect of the atmosphere on the optical properties of as-synthesized colloidal indium tin oxide. Nanotechnology, 2009, 20, 145701.	2.7	11
121	Low-cost scalable quartz crystal microbalance array for environmental sensing. Proceedings of SPIE, 2016, , .	1.0	11
122	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
123	Interface and thickness dependent domain switching and stability in Mg doped lithium niobate. Journal of Applied Physics, 2015, 118, 224101.	2.3	10
124	Influence of annealing on the photodeposition of silver on periodically poled lithium niobate. Journal of Applied Physics, 2016, 119, .	2.3	10
125	Amidine-Functionalized Poly(2-vinyl-4,4-dimethylazlactone) for Selective and Efficient CO ₂ Fixing. Macromolecules, 2016, 49, 1523-1531.	5.1	10
126	Effect of purity on the electro-optical properties of single wall nanotube-based transparent conductive electrodes. Carbon, 2013, 64, 1-5.	10.7	9

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127	Morphology-defined interaction of copper phthalocyanine with O_2/H_2O . Journal of Photonics for Energy, 2016, 6, 045501.	1.4	9
128	Competing phases in epitaxial vanadium dioxide at nanoscale. APL Materials, 2019, 7, .	4.8	9
129	Quantifying fish otolith mineralogy for trace-element chemistry studies. Scientific Reports, 2022, 12, 2727.	3.4	9
130	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.	8.3	8
131	Highly Permeable Oligo(ethylene oxide)-poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation. Advanced Sustainable Systems, 2018, 2, 1700113.	5.6	8
132	In Quest of a Ferromagnetic Insulator: Structure-Controlled Magnetism in $MgTiO$ Thin Films. Journal of Physical Chemistry C, 2019, 123, 19970-19978.	3.3	8
133	Room-Temperature Insulating Ferromagnetic $(Ni,Co)_{1+2x}Ti_{1-x}O_3$ Thin Films. Annalen Der Physik, 2019, 531, 1900299.	2.5	8
134	Analysis of trypsin activity at β^2 -casein layers formed on hydrophobic surfaces using a multiharmonic acoustic method. Analyst, The, 2022, 147, 461-470.	3.5	8
135	Correlative Nanoscale Imaging of Strained hBN Spin Defects. ACS Applied Materials & Interfaces, 2022, 14, 41361-41368.	8.3	8
136	A Membrane Contactor Enabling Energy-Efficient CO_2 Capture from Point Sources with Deep Eutectic Solvents. Industrial & Engineering Chemistry Research, 2023, 62, 4455-4465.	3.8	8
137	Rapid Molecular Motion of Pyrene and Benzene Moieties Covalently Attached to Silica Surfaces. Journal of Physical Chemistry A, 2003, 107, 3450-3456.	2.6	7
138	Nanocrystals for Electronic and Optoelectronic Applications. Journal of Nanomaterials, 2012, 2012, 1-2.	2.8	7
139	Synthesis, Structure, and Pressure-Induced Polymerization of $Li_3Fe(CN)_6$ Accompanied with Enhanced Conductivity. Inorganic Chemistry, 2015, 54, 11276-11282.	4.2	7
140	Detection of Chymotrypsin by Optical and Acoustic Methods. Biosensors, 2021, 11, 63.	4.8	7
141	Magnetic Studies of Photovoltaic Processes in Organic Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1801-1806.	3.2	6
142	Magnetic and Optical Properties of $AuCo$ Solid Solution and Phase-Separated Thin Films and Nanoparticles. ACS Applied Materials & Interfaces, 2022, 14, 15047-15058.	8.3	6
143	Application of Multiharmonic QCM-D for Detection of Plasmin at Hydrophobic Surfaces Modified by β^2 -Casein. Chemosensors, 2022, 10, 143.	3.7	6
144	Correlative piezoresponse and micro-Raman imaging of $CuInP_2S_6$ flakes unravels phase-specific phononic fingerprint via unsupervised learning. Applied Physics Letters, 2022, 121, .	3.2	6

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145	High-speed mapping of surface charge dynamics using sparse scanning Kelvin probe force microscopy. <i>Nature Communications</i> , 2023, 14, .	13.2	6
146	Processing of loose carbon nanotubes into isolated, high density submicron channels. <i>Nanotechnology</i> , 2010, 21, 115301.	2.7	5
147	Grafting density effects, optoelectrical properties and nano-patterning of poly(para-phenylene) brushes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13426.	10.5	5
148	Optical Control of Fluorescence through Plasmonic Eigenmode Extinction. <i>Scientific Reports</i> , 2015, 5, 9911.	3.4	5
149	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.	8.3	5
150	Tailored mesoporous structures of lignin-derived nano-carbons for multiple applications. <i>Carbon</i> , 2023, 213, 118285.	10.7	5
151	Effects of single walled carbon nanotubes on the electroluminescent performance of organic light-emitting diodes. <i>Organic Electronics</i> , 2011, 12, 1098-1102.	2.8	4
152	Fabrication and characterization of multiwalled carbon nanotube-loaded interconnected porous nanocomposite scaffolds. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017, 66, 183-192.	3.3	4
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