Ilia N Ivanov

List of Publications by Year in descending order

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		26567	39575
193	10,067	56	94
papers	citations	h-index	g-index
199	199	199	15959
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Oneâ€Step Synthesis of Nb ₂ O ₅ /C/Nb ₂ C (MXene) Composites and Their Use as Photocatalysts for Hydrogen Evolution. ChemSusChem, 2018, 11, 688-699.	3.6	315
2	In situ measurements and modeling of carbon nanotube array growth kinetics during chemical vapor deposition. Applied Physics A: Materials Science and Processing, 2005, 81, 223-240.	1.1	300
3	2D/2D heterojunction of Ti ₃ C ₂ /g-C ₃ N ₄ nanosheets for enhanced photocatalytic hydrogen evolution. Nanoscale, 2019, 11, 8138-8149.	2.8	289
4	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
5	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
6	Real Space Mapping of Li-lon Transport in Amorphous Si Anodes with Nanometer Resolution. Nano Letters, 2010, 10, 3420-3425.	4.5	232
7	Patterned arrays of lateral heterojunctions within monolayer two-dimensional semiconductors. Nature Communications, 2015, 6, 7749.	5.8	213
8	Evolutionary selection growth of two-dimensional materials on polycrystalline substrates. Nature Materials, 2018, 17, 318-322.	13.3	204
9	A Compilation of Physical, Spectroscopic and Photophysical Properties of Polycyclic Aromatic Hydrocarbons. Photochemistry and Photobiology, 1999, 70, 10-34.	1.3	201
10	Invited Review A Compilation of Physical, Spectroscopic and Photophysical Properties of Polycyclic Aromatic Hydrocarbons. Photochemistry and Photobiology, 1999, 70, 10.	1.3	192
11	Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. ACS Nano, 2017, 11, 11118-11126.	7.3	183
12	Synthesis of Millimeter-Size Hexagon-Shaped Graphene Single Crystals on Resolidified Copper. ACS Nano, 2013, 7, 8924-8931.	7.3	178
13	Monolayer Ti ₃ C ₂ <i>T</i> _{<i>x</i>} <isx< i=""> as an Effective Co-catalyst for Enhanced Photocatalytic Hydrogen Production over TiO₂. ACS Applied Energy Materials, 2019, 2, 4640-4651.</isx<>	2.5	177
14	Low Temperature Growth of Boron Nitride Nanotubes on Substrates. Nano Letters, 2005, 5, 2528-2532.	4.5	176
15	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
16	A general synthesis approach for supported bimetallic nanoparticles via surface inorganometallic chemistry. Science, 2018, 362, 560-564.	6.0	176
17	White Light-Emitting Diodes Based on Ultrasmall CdSe Nanocrystal Electroluminescence. Nano Letters, 2010, 10, 573-576.	4.5	164
18	Fast and highly anisotropic thermal transport through vertically aligned carbon nanotube arrays. Applied Physics Letters, 2006, 89, 223110.	1.5	157

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19	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
20	Doping-Based Stabilization of the M2 Phase in Free-Standing VO ₂ Nanostructures at Room Temperature. Nano Letters, 2012, 12, 6198-6205.	4.5	145
21	Low Energy Implantation into Transition-Metal Dichalcogenide Monolayers to Form Janus Structures. ACS Nano, 2020, 14, 3896-3906.	7.3	136
22	Electrical and thermal conductivity of low temperature CVD graphene: the effect of disorder. Nanotechnology, 2011, 22, 275716.	1.3	132
23	High-Resolution Laser-Induced Graphene. Flexible Electronics beyond the Visible Limit. ACS Applied Materials & Samp; Interfaces, 2020, 12, 10902-10907.	4.0	129
24	In situ growth rate measurements and length control during chemical vapor deposition of vertically aligned multiwall carbon nanotubes. Applied Physics Letters, 2003, 83, 1851-1853.	1.5	127
25	Epitaxial stabilization and phase instability of VO2 polymorphs. Scientific Reports, 2016, 6, 19621.	1.6	114
26	Carbon Nanotubes Grown on Metal Microelectrodes for the Detection of Dopamine. Analytical Chemistry, 2016, 88, 645-652.	3.2	113
27	PSâ€ <i>b</i> à€P3HT Copolymers as P3HT/PCBM Interfacial Compatibilizers for High Efficiency Photovoltaics. Advanced Materials, 2011, 23, 5529-5535.	11.1	110
28	Pulsed Laser Deposition of Photoresponsive Twoâ€Dimensional GaSe Nanosheet Networks. Advanced Functional Materials, 2014, 24, 6365-6371.	7.8	108
29	The isotopic effects of deuteration on optoelectronic properties of conducting polymers. Nature Communications, 2014, 5, 3180.	5.8	103
30	Ultrafast Charge Transfer and Hybrid Exciton Formation in 2D/0D Heterostructures. Journal of the American Chemical Society, 2016, 138, 14713-14719.	6.6	102
31	Interplay between Ferroelastic and Metalâ^'Insulator Phase Transitions in Strained Quasi-Two-Dimensional VO ₂ Nanoplatelets. Nano Letters, 2010, 10, 2003-2011.	4.5	101
32	Interplay of Octahedral Tilts and Polar Order in BiFeO ₃ Films. Advanced Materials, 2013, 25, 2497-2504.	11.1	101
33	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
34	Decoupling Electrochemical Reaction and Diffusion Processes in Ionically-Conductive Solids on the Nanometer Scale. ACS Nano, 2010, 4, 7349-7357.	7.3	96
35	Deciphering Halogen Competition in Organometallic Halide Perovskite Growth. Journal of the American Chemical Society, 2016, 138, 5028-5035.	6.6	92
36	Directed Integration of Tetracyanoquinodimethane-Cu Organic Nanowires into Prefabricated Device Architectures. Advanced Materials, 2006, 18, 2184-2188.	11.1	91

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37	Structure of Vanadium Oxide Supported on Ceria by Multiwavelength Raman Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 25368-25378.	1.5	91
38	Cooperative Island Growth of Large-Area Single-Crystal Graphene on Copper Using Chemical Vapor Deposition. ACS Nano, 2014, 8, 5657-5669.	7.3	91
39	High Temporal Resolution Measurements of Dopamine with Carbon Nanotube Yarn Microelectrodes. Analytical Chemistry, 2014, 86, 5721-5727.	3.2	91
40	Single-Crystal Organic Nanowires of Copper–Tetracyanoquinodimethane: Synthesis, Patterning, Characterization, and Device Applications. Angewandte Chemie - International Edition, 2007, 46, 2650-2654.	7.2	90
41	Formation of single crystalline ZnO nanotubes without catalysts and templates. Applied Physics Letters, 2007, 90, 113108.	1.5	89
42	Excitonic Dynamics in Janus MoSSe and WSSe Monolayers. Nano Letters, 2021, 21, 931-937.	4.5	86
43	Photochemistry of Pyrene on Unactivated and Activated Silica Surfaces. Environmental Science & Emp; Technology, 2000, 34, 415-421.	4.6	82
44	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
45	Comparative study of plant responses to carbon-based nanomaterials with different morphologies. Nanotechnology, 2016, 27, 265102.	1.3	80
46	Laser Treated Carbon Nanotube Yarn Microelectrodes for Rapid and Sensitive Detection of Dopamine in Vivo. ACS Sensors, 2016, 1, 508-515.	4.0	74
47	Multi-modal, ultrasensitive, wide-range humidity sensing with Ti ₃ C ₂ film. Nanoscale, 2018, 10, 21689-21695.	2.8	74
48	Stress induced crystallization of hydrogenated amorphous silicon. Thin Solid Films, 2009, 517, 3222-3226.	0.8	73
49	Electrolyte Solvation Structure at Solid–Liquid Interface Probed by Nanogap Surface-Enhanced Raman Spectroscopy. ACS Nano, 2018, 12, 10159-10170.	7.3	70
50	Probing Surface and Bulk Electrochemical Processes on the LaAlO ₃ â€"SrTiO ₃ Interface. ACS Nano, 2012, 6, 3841-3852.	7.3	65
51	Open loop Kelvin probe force microscopy with single and multi-frequency excitation. Nanotechnology, 2013, 24, 475702.	1.3	63
52	Strong and Electrically Conductive Graphene-Based Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Laminates. ACS Applied Materials & Description of the Composite Fibers and Description of the Composite Fibers Action of the Composite Fibers Act	4.0	63
53	Real-time imaging of vertically aligned carbon nanotube array growth kinetics. Nanotechnology, 2008, 19, 055605.	1.3	61
54	UV-activated ZnO films on a flexible substrate for room temperature O2 and H2O sensing. Scientific Reports, 2017, 7, 6053.	1.6	61

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55	PEDOT:PSS/QCM-based multimodal humidity and pressure sensor. Sensors and Actuators B: Chemical, 2016, 236, 91-98.	4.0	58
56	Carbon nanotube effects on electroluminescence and photovoltaic response in conjugated polymers. Applied Physics Letters, 2005, 87, 263118.	1.5	57
57	The effect of annealing on the electrical and thermal transport properties of macroscopic bundles of long multi-wall carbon nanotubes. Physica B: Condensed Matter, 2007, 388, 326-330.	1.3	57
58	Selective Patterned Growth of Singleâ€Crystal Ag–TCNQ Nanowires for Devices by Vapor–Solid Chemical Reaction. Advanced Functional Materials, 2008, 18, 3043-3048.	7.8	57
59	Separation of junction and bundle resistance in single wall carbon nanotube percolation networks by impedance spectroscopy. Applied Physics Letters, 2010, 97, .	1.5	56
60	O ₂ 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
61	Probing Local Ionic Dynamics in Functional Oxides at the Nanoscale. Nano Letters, 2013, 13, 3455-3462.	4.5	55
62	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
63	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
64	Correlating high power conversion efficiency of PTB7:PC ₇₁ BM inverted organic solar cells with nanoscale structures. Nanoscale, 2015, 7, 15576-15583.	2.8	54
65	Visible-light-driven Bi ₂ O ₃ /WO ₃ composites with enhanced photocatalytic activity. RSC Advances, 2015, 5, 91094-91102.	1.7	54
66	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
67	New Insights on Electro-Optical Response of Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Film to Humidity. ACS Applied Materials & Samp; Interfaces, 2017, 9, 15880-15886.	4.0	50
68	Scalable production of microbially mediated zinc sulfide nanoparticles and application to functional thin films. Acta Biomaterialia, 2014, 10, 4474-4483.	4.1	49
69	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
70	Optically transparent, mechanically durable, nanostructured superhydrophobic surfaces enabled by spinodally phase-separated glass thin films. Nanotechnology, 2013, 24, 315602.	1.3	47
71	Visible light assisted photocatalytic hydrogen generation by Ta ₂ O ₅ Bi ₂ O ₃ , TaON/Bi ₂ O ₃ , TaON/Bi ₂ , TaON/Bi ₂ O ₃ composites. RSC Advances, 2015, 5, 54998-55005.	1.7	47
72	Improving Dispersion of Single-Walled Carbon Nanotubes in a Polymer Matrix Using Specific Interactions. Chemistry of Materials, 2006, 18, 3513-3522.	3.2	46

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73	Exploring Anomalous Polarization Dynamics in Organometallic Halide Perovskites. Advanced Materials, 2018, 30, 1705298.	11.1	44
74	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
75	Ultrafast Dynamics of Metal Plasmons Induced by 2D Semiconductor Excitons in Hybrid Nanostructure Arrays. ACS Photonics, 2016, 3, 2389-2395.	3.2	42
76	Manipulating Interfaces through Surface Confinement of Poly(glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Macromolecules, 2012, 45, 6438-6449.	Td (methad 2.2	crylate)- <i>39</i>
77	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
78	Tuning the electrical properties of WSe ₂ via O ₂ plasma oxidation: towards lateral homojunctions. 2D Materials, 2019, 6, 045024.	2.0	39
79	High-density vertically aligned multiwalled carbon nanotubes with tubular structures. Applied Physics Letters, 2005, 86, 253105.	1.5	38
80	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
81	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
82	Mapping internal structure of coal by confocal micro-Raman spectroscopy and scanning microwave microscopy. Fuel, 2014, 126, 32-37.	3.4	34
83	Optical and Magnetic Properties of Ag–Ni Bimetallic Nanoparticles Assembled via Pulsed Laser-Induced Dewetting. ACS Omega, 2020, 5, 19285-19292.	1.6	34
84	Manufacturing demonstration of microbially mediated zinc sulfide nanoparticles in pilot-plant scale reactors. Applied Microbiology and Biotechnology, 2016, 100, 7921-7931.	1.7	32
85	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
86	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
87	Atmospheric and Long-term Aging Effects on the Electrical Properties of Variable Thickness WSe ₂ Transistors. ACS Applied Materials & Interfaces, 2018, 10, 36540-36548.	4.0	31
88	Dynamic Impact of Electrode Materials on Interface of Single rystalline Methylammonium Lead Bromide Perovskite. Advanced Materials Interfaces, 2018, 5, 1800476.	1.9	31
89	Practical Modeling of Heterogeneous Bundles of Single-Walled Carbon Nanotubes for Adsorption Applications:  Estimating the Fraction of Open-Ended Nanotubes in Samples. Journal of Physical Chemistry C, 2007, 111, 13747-13755.	1.5	30
90	Characterization and Carbonization of Highly Oriented Poly(diiododiacetylene) Nanofibers. Macromolecules, 2011, 44, 2626-2631.	2.2	30

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91	Highly Efficient Plasmon Induced Hot-Electron Transfer at Ag/TiO ₂ Interface. ACS Photonics, 2021, 8, 1497-1504.	3.2	30
92	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
93	Giant Magnetic Field Effects on Electroluminescence in Electrochemical Cells. Advanced Materials, 2011, 23, 2216-2220.	11.1	29
94	Nanometer-scale mapping of irreversible electrochemical nucleation processes on solid Li-ion electrolytes. Scientific Reports, 2013, 3, 1621.	1.6	29
95	Nonâ€Equilibrium Synthesis of Highly Active Nanostructured, Oxygenâ€Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst. Small, 2020, 16, e2004047.	5.2	29
96	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
97	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
98	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
99	Tunable Electromechanical Liquid Crystal Elastomer Actuators. Advanced Intelligent Systems, 2020, 2, 2000022.	3.3	27
100	Polymerization of Acetonitrile via a Hydrogen Transfer Reaction from CH ₃ to CN under Extreme Conditions. Angewandte Chemie - International Edition, 2016, 55, 12040-12044.	7.2	26
101	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
102	Magneto-Dielectric Effects Induced by Optically-Generated Intermolecular Charge-Transfer States in Organic Semiconducting Materials. Scientific Reports, 2013, 3, 2812.	1.6	25
103	Construction of 2D BiVO ₄ â^'CdSâ^'Ti ₃ C ₂ T _x Heterostructures for Enhanced Photoâ€redox Activities. ChemCatChem, 2020, 12, 3496-3503.	1.8	25
104	Crystallographically Aligned Carbon Nanotubes Grown on Few-Layer Graphene Films. ACS Nano, 2011, 5, 6403-6409.	7.3	24
105	Dielectricâ€Constantâ€Enhanced Hall Mobility in Complex Oxides. Advanced Materials, 2012, 24, 3965-3969.	11.1	24
106	Twoâ€Photon Upâ€Conversion Photoluminescence Realized through Spatially Extended Gap States in Quasiâ€2D Perovskite Films. Advanced Materials, 2019, 31, 1901240.	11.1	23
107	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
108	High Tunability of the Surface-Enhanced Raman Scattering Response with a Metalâ [^] Multiferroic Composite. Nano Letters, 2011, 11, 1265-1269.	4.5	22

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109	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
110	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.	1.2	21
111	Structural control of vertically aligned multiwalled carbon nanotubes by radio-frequency plasmas. Applied Physics Letters, 2005, 87, 173106.	1.5	20
112	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
113	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.	2.0	19
114	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
115	Breaking the limits of structural and mechanical imaging of the heterogeneous structure of coal macerals. Nanotechnology, 2014, 25, 435402.	1.3	19
116	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
117	Magnetodielectric Response from Spin–Orbital Interaction Occurring at Interface of Ferromagnetic Co and Organometal Halide Perovskite Layers via Rashba Effect. Advanced Materials, 2017, 29, 1603667.	11.1	19
118	Porous poly(εâ€εaprolactone) 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
119	Hierarchical TiO ₂ :Cu ₂ O Nanostructures for Gas/Vapor Sensing and CO ₂ Sequestration. ACS Applied Materials & Interfaces, 2019, 11, 48466-48475.	4.0	18
120	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
121	K ₃ Fe(CN) ₆ : Pressure-Induced Polymerization and Enhanced Conductivity. Journal of Physical Chemistry C, 2013, 117, 24174-24180.	1.5	17
122	Multi-mode humidity sensing with water-soluble copper phthalocyanine for increased sensitivity and dynamic range. Scientific Reports, 2017, 7, 9921.	1.6	17
123	Pressure induced polymerization of acetylide anions in CaC ₂ and 10 ⁷ fold enhancement of electrical conductivity. Chemical Science, 2016, 8, 298-304.	3.7	17
124	Scalable synthesis of nanoporous atomically thin graphene membranes for dialysis and molecular separations <i>via</i> facile isopropanol-assisted hot lamination. Nanoscale, 2021, 13, 2825-2837.	2.8	17
125	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
126	Controlling molecular ordering in solution-state conjugated polymers. Nanoscale, 2015, 7, 15134-15141.	2.8	15

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127	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
128	Environmental Gating and Galvanic Effects in Single Crystals of Organic–Inorganic Halide Perovskites. ACS Applied Materials & Samp; Interfaces, 2019, 11, 14722-14733.	4.0	14
129	Selfâ€Assembled Room Temperature Multiferroic BiFeO ₃ â€LiFe ₅ O ₈ Nanocomposites. Advanced Functional Materials, 2020, 30, 1906849.	7.8	14
130	Optically Induced Static Magnetization in Metal Halide Perovskite for Spinâ€Related Optoelectronics. Advanced Science, 2021, 8, 2004488.	5.6	14
131	<i>In situ</i> capping for size control of monochalcogenide (ZnS, CdS and SnS) nanocrystals produced by anaerobic metal-reducing bacteria. Nanotechnology, 2015, 26, 325602.	1.3	13
132	Emerging materials for lowering atmospheric carbon. Environmental Technology and Innovation, 2017, 7, 30-43.	3.0	13
133	In situ electric-field-induced contrast imaging of electronic transport pathways in nanotube-polymer composites. Applied Physics Letters, 2006, 89, 013114.	1.5	12
134	Water-mediated electrochemical nano-writing on thin ceria films. Nanotechnology, 2014, 25, 075701.	1.3	12
135	Fabrication of coâ€continuous poly(εâ€caprolactone)/polyglycolide blend scaffolds for tissue engineering. Journal of Applied Polymer Science, 2015, 132, .	1.3	12
136	Light-Activated Hybrid Nanocomposite Film for Water and Oxygen Sensing. ACS Applied Materials & Interfaces, 2018, 10, 31745-31754.	4.0	12
137	Machine Learningâ€Enabled Correlation and Modeling of Multimodal Response of Thin Film to Environment on Macro and Nanoscale Using "Labâ€onâ€aâ€Crystal― Advanced Functional Materials, 2020, 30, 1908010.	7.8	12
138	The effect of the atmosphere on the optical properties of as-synthesized colloidal indium tin oxide. Nanotechnology, 2009, 20, 145701.	1.3	11
139	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.	1.2	10
140	Reorientation of carbon nanotubes in polymer matrix composites using compressive loading. Journal of Materials Research, 2005, 20, 1026-1032.	1.2	10
141	Cathodoluminescence Emission Studies for Selected Phosphor-Based Sensor Materials. IEEE Transactions on Nuclear Science, 2006, 53, 2398-2403.	1.2	10
142	Interface and thickness dependent domain switching and stability in Mg doped lithium niobate. Journal of Applied Physics, 2015, 118, 224101.	1.1	10
143	Influence of annealing on the photodeposition of silver on periodically poled lithium niobate. Journal of Applied Physics, 2016, 119, .	1.1	10
144	Amidine-Functionalized Poly(2-vinyl-4,4-dimethylazlactone) for Selective and Efficient CO ₂ Fixing. Macromolecules, 2016, 49, 1523-1531.	2.2	10

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145	Effect of purity on the electro-optical properties of single wall nanotube-based transparent conductive electrodes. Carbon, 2013, 64, 1-5.	5.4	9
146	Low-cost scalable quartz crystal microbalance array for environmental sensing. , 2016, , .		8
147	Unraveling the Fundamental Mechanisms of Solvent-Additive-Induced Optimization of Power Conversion Efficiencies in Organic Photovoltaic Devices. ACS Applied Materials & Samp; Interfaces, 2016, 8, 20220-20229.	4.0	8
148	Morphology-defined interaction of copper phthalocyanine with O ₂ /H ₂ O. Journal of Photonics for Energy, 2016, 6, 045501.	0.8	8
149	In Quest of a Ferromagnetic Insulator: Structure-Controlled Magnetism in Mg–Ti–O Thin Films. Journal of Physical Chemistry C, 2019, 123, 19970-19978.	1.5	8
150	Competing phases in epitaxial vanadium dioxide at nanoscale. APL Materials, 2019, 7, .	2.2	8
151	Rapid Molecular Motion of Pyrene and Benzene Moieties Covalently Attached to Silica Surfacesâ€. Journal of Physical Chemistry A, 2003, 107, 3450-3456.	1.1	7
152	Nanocrystals for Electronic and Optoelectronic Applications. Journal of Nanomaterials, 2012, 2012, 1-2.	1.5	7
153	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
154	Detection of Chymotrypsin by Optical and Acoustic Methods. Biosensors, 2021, 11, 63.	2.3	7
155	Analysis of trypsin activity at \hat{I}^2 -casein layers formed on hydrophobic surfaces using a multiharmonic acoustic method. Analyst, The, 2022, 147, 461-470.	1.7	7
156	Quantifying fish otolith mineralogy for trace-element chemistry studies. Scientific Reports, 2022, 12, 2727.	1.6	7
157	Magnetic Studies of Photovoltaic Processes in Organic Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1801-1806.	1.9	6
158	Synthesis, Structure, and Pressure-Induced Polymerization of Li3Fe(CN)6 Accompanied with Enhanced Conductivity. Inorganic Chemistry, 2015, 54, 11276-11282.	1.9	6
159	Highly Permeable Oligo(ethylene oxide)―co â€poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation. Advanced Sustainable Systems, 2018, 2, 1700113.	2.7	6
160	Processing of loose carbon nanotubes into isolated, high density submicron channels. Nanotechnology, 2010, 21, 115301.	1.3	5
161	Grafting density effects, optoelectrical properties and nano-patterning of poly(para-phenylene) brushes. Journal of Materials Chemistry A, 2013, 1, 13426.	5.2	5
162	Optical Control of Fluorescence through Plasmonic Eigenmode Extinction. Scientific Reports, 2015, 5, 9911.	1.6	5

#	Article	IF	CITATIONS
163	Correlation of Spatiotemporal Dynamics of Polarization and Charge Transport in Blended Hybrid Organic–Inorganic Perovskites on Macro- and Nanoscales. ACS Applied Materials & Interfaces, 2020, 12, 15380-15388.	4.0	5
164	Magnetic and Optical Properties of Au–Co Solid Solution and Phase-Separated Thin Films and Nanoparticles. ACS Applied Materials & Samp; Interfaces, 2022, 14, 15047-15058.	4.0	5
165	Effects of single walled carbon nanotubes on the electroluminescent performance of organic light-emitting diodes. Organic Electronics, 2011, 12, 1098-1102.	1.4	4
166	Fabrication and characterization of multiwalled carbon nanotube–loaded interconnected porous nanocomposite scaffolds. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 183-192.	1.8	4
167	Application of Multiharmonic QCM-D for Detection of Plasmin at Hydrophobic Surfaces Modified by \hat{l}^2 -Casein. Chemosensors, 2022, 10, 143.	1.8	4
168	Anomalous Photodeposition of Ag on Ferroelectric Surfaces with Belowâ€Bandgap Excitation. Advanced Optical Materials, 2014, 2, 292-299.	3.6	3
169	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
170	LASER-BASED SYNTHESIS, DIAGNOSTICS, AND CONTROL OF SINGLE-WALLED CARBON NANOTUBES AND NANOHORNS FOR COMPOSITES AND BIOLOGICAL NANOVECTORS. , 2006, , 205-223.		3
171	Carbon Nanotube Assemblies for Transparent Conducting Electrodes. Nanostructure Science and Technology, 2013, , 117-148.	0.1	3
172	Effect of UV irradiation on adsorption/desorption of oxygen and water on carbon nanotubes. Proceedings of SPIE, 2016, , .	0.8	2
173	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
174	Improved ZnS nanoparticle properties through sequential NanoFermentation. Applied Microbiology and Biotechnology, 2018, 102, 8329-8339.	1.7	2
175	Synthesis of zinc-gallate phosphors by biomineralization and their emission properties. Acta Biomaterialia, 2019, 97, 557-564.	4.1	2
176	Room-temperature photo-induced martensitic transformation in a protein crystal. IUCrJ, 2019, 6, 619-629.	1.0	2
177	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
178	Lattice-Symmetry-Driven Phase Competition in Vanadium Dioxide. Materials Research Society Symposia Proceedings, 2011, 1292, 67.	0.1	1
179	Spatially resolved resistance of NiO nanostructures under humid environment., 2016,,.		1
180	Functional two/three-dimensional assembly of monolayer WS ₂ and nickel oxide. Journal of Photonics for Energy, 2017, 7, 014001.	0.8	1

#	Article	IF	CITATIONS
181	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
182	Microbial Approach to Low-Cost Production of Photovoltaic Nanomaterials. ACS Sustainable Chemistry and Engineering, 2019, 7, 18297-18302.	3.2	1
183	Comparison of Optical and Gravimetric Methods for Detection of Chymotrypsin. , 0, , .		1
184	A Dual-RF-Plasma Approach for Controlling the Graphitic Order and Diameters of Vertically-Aligned Multiwall Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2004, 858, 170.	0.1	0
185	Electron Microscopy Imaging of Electrical Transport Through Single-Wall Carbon Nanotube Networks in Polymers. Microscopy and Microanalysis, 2004, 10, 552-553.	0.2	0
186	Investigation of the Interaction of Surface Plasmons (SP) with an Electro Optic Polymer and Development of SP Optical Devices. , 2008, , .		0
187	Carbon nanotube-templated assembly of regioregular poly(3-alkylthiophene) in solution. , 2016, , .		0
188	Effect of film morphology on oxygen and water interaction with copper phthalocyanine. , 2016, , .		0
189	Towards functional assembly of 3D and 2D nanomaterials. Proceedings of SPIE, 2016, , .	0.8	0
190	Cryomilled zinc sulfide: A prophylactic for <i>Staphylococcus aureus</i> iorinfected wounds. Journal of Biomaterials Applications, 2018, 33, 82-93.	1.2	0
191	Indirect electrochemical method for high accuracy quantification of protein adsorption on gold surfaces. Electrochemistry Communications, 2021, 124, 106961.	2.3	0
192	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
193	Synthesis and properties of SiNx coatings as stable fluorescent markers on vertically aligned carbon nanofibers. AlMS Materials Science, 2014, 1, 87-102.	0.7	O