

Mirko Prato

List of Publications by Year in descending order

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297
papers

22,452
citations

9786

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all docs

307
docs citations

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times ranked

23232
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct production of hydrogen peroxide over bimetallic CoPd catalysts: Investigation of the effect of Co addition and calcination temperature. <i>Green Energy and Environment</i> , 2023, 8, 246-257.	8.7	4
2	Mixed Dimethylammonium/Methylammonium Lead Halide Perovskite Crystals for Improved Structural Stability and Enhanced Photodetection. <i>Advanced Materials</i> , 2022, 34, e2106160.	21.0	18
3	One-step functionalization of mildly and strongly reduced graphene oxide with maleimide: an experimental and theoretical investigation of the Diels-Alder [4+2] cycloaddition reaction. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 2491-2503.	2.8	1
4	Control of electronic band profiles through depletion layer engineering in core-shell nanocrystals. <i>Nature Communications</i> , 2022, 13, 537.	12.8	27
5	Facile purification protocol of CsPbBr ₃ nanocrystals for light-emitting diodes with improved performance. <i>Optical Materials: X</i> , 2022, 13, 100124.	0.8	7
6	Colloidal Bismuth Chalcogenide Nanocrystals. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	5
7	Colloidal Bismuth Chalcogenide Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	17
8	Sustainable lithium-ion batteries based on metal-free tannery waste biochar. <i>Green Chemistry</i> , 2022, 24, 4119-4129.	9.0	16
9	ZnCl ₂ Mediated Synthesis of InAs Nanocrystals with Aminoarsine. <i>Journal of the American Chemical Society</i> , 2022, 144, 10515-10523.	13.7	21
10	Integration of two-dimensional materials-based perovskite solar panels into a stand-alone solar farm. <i>Nature Energy</i> , 2022, 7, 597-607.	39.5	66
11	Scalable spray-coated graphene-based electrodes for high-power electrochemical double-layer capacitors operating over a wide range of temperature. <i>Energy Storage Materials</i> , 2021, 34, 1-11.	18.0	61
12	Hybrid Organic/Inorganic Photocathodes Based on WS ₂ Flakes as Hole Transporting Layer Material. <i>Small Structures</i> , 2021, 2, 2000098.	12.0	14
13	Photo-electrical properties of 2D quantum confined metal-organic chalcogenide nanocrystal films. <i>Nanoscale</i> , 2021, 13, 233-241.	5.6	16
14	Long-term optical and morphological stability of CsPbBr ₃ nanocrystal-based films. <i>Materials Research Bulletin</i> , 2021, 134, 111107.	5.2	5
15	Phase evolution of Cu ₂ ZnSnS ₄ (CZTS) nanoparticles from <i>in situ</i> formed binary sulphides under solvothermal conditions. <i>CrystEngComm</i> , 2021, 23, 7944-7954.	2.6	5
16	Synthesis of yolk-shell Co ₃ O ₄ /Co _{1-x} Ru _x O ₂ microspheres featuring an enhanced electrocatalytic oxygen evolution activity in acidic medium. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10385-10392.	10.3	11
17	Biomimetic keratin gold nanoparticle-mediated <i>in vitro</i> photothermal therapy on glioblastoma multiforme. <i>Nanomedicine</i> , 2021, 16, 121-138.	3.3	39
18	Moisture resistance in perovskite solar cells attributed to a water-splitting layer. <i>Communications Materials</i> , 2021, 2, .	6.9	29

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19	Work Function Tuning in Hydrothermally Synthesized Vanadium-Doped MoO ₃ and Co ₃ O ₄ Mesostructures for Energy Conversion Devices. Applied Sciences (Switzerland), 2021, 11, 2016.	2.5	10
20	Two-Step Thermal Annealing: An Effective Route for 15% Efficient Quasi-2D Perovskite Solar Cells. ChemPlusChem, 2021, 86, 1044-1048.	2.8	8
21	Engineering the Optical Emission and Robustness of Metal-Halide Layered Perovskites through Ligand Accommodation. Advanced Materials, 2021, 33, e2008004.	21.0	23
22	Effect of the fiber orientation on the tensile and flexural behavior of continuous carbon fiber composites made via fused filament fabrication. International Journal of Advanced Manufacturing Technology, 2021, 114, 2085-2101.	3.0	45
23	Two-Dimensional Gallium Sulfide Nanoflakes for UV-Selective Photoelectrochemical-type Photodetectors. Journal of Physical Chemistry C, 2021, 125, 11857-11866.	3.1	41
24	Antimicrobial Surfaces for Applications on Confined Inhabited Space Stations. Advanced Materials Interfaces, 2021, 8, 2100118.	3.7	4
25	Artificially altered gravity elicits cell homeostasis imbalance in planarian worms, and cerium oxide nanoparticles counteract this effect. Journal of Biomedical Materials Research - Part A, 2021, 109, 2322-2333.	4.0	4
26	Graphene-Based Electrodes in a Vanadium Redox Flow Battery Produced by Rapid Low-Pressure Combined Gas Plasma Treatments. Chemistry of Materials, 2021, 33, 4106-4121.	6.7	35
27	Comparative characterization of the surface state of Ti-6Al-4V substrates in different pre-bonding conditions. Journal of Advanced Joining Processes, 2021, 3, 100058.	2.7	3
28	Adhesive bonding of a mixed short and continuous carbon-fiber-reinforced Nylon-6 composite made via fused filament fabrication. International Journal of Adhesion and Adhesives, 2021, 107, 102856.	2.9	24
29	Cerium Oxide Nanoparticle Administration to Skeletal Muscle Cells under Different Gravity and Radiation Conditions. ACS Applied Materials & Interfaces, 2021, 13, 40200-40213.	8.0	8
30	Influence of copper telluride nanodomains on the transport properties of n-type bismuth telluride. Chemical Engineering Journal, 2021, 418, 129374.	12.7	18
31	Nitrogen-doped graphene based triboelectric nanogenerators. Nano Energy, 2021, 87, 106173.	16.0	30
32	Inverted perovskite solar cells with enhanced lifetime and thermal stability enabled by a metallic tantalum disulfide buffer layer. Nanoscale Advances, 2021, 3, 3124-3135.	4.6	23
33	Mechanochemical Synthesis of Sn(II) and Sn(IV) Iodide Perovskites and Study of Their Structural, Chemical, Thermal, Optical, and Electrical Properties. Energy Technology, 2020, 8, 1900788.	3.8	34
34	Core/Shell CdSe/CdS Bone-Shaped Nanocrystals with a Thick and Anisotropic Shell as Optical Emitters. Advanced Optical Materials, 2020, 8, 1901463.	7.3	12
35	Lanthanide-Induced Photoluminescence in Lead-Free Cs ₂ AgBiBr ₆ Bulk Perovskite: Insights from Optical and Theoretical Investigations. Journal of Physical Chemistry Letters, 2020, 11, 8893-8900.	4.6	38
36	Non-Equilibrium Synthesis of Highly Active Nanostructured, Oxygen-Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst. Small, 2020, 16, e2004047.	10.0	29

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37	Ta ₂ S ₅ , TaSe ₂ , and Their Heterogeneous Films as Catalysts for the Hydrogen Evolution Reaction. ACS Catalysis, 2020, 10, 3313-3325.	11.2	60
38	Microwave-Induced Structural Engineering and Pt Trapping in Ta ₂ S ₅ for the Hydrogen Evolution Reaction. Small, 2020, 16, e2003372.	10.0	18
39	Alloy CsCd _x Pb _{1-x} Br ₃ Perovskite Nanocrystals: The Role of Surface Passivation in Preserving Composition and Blue Emission. Chemistry of Materials, 2020, 32, 10641-10652.	6.7	45
40	Impact of local structure on halogen ion migration in layered methylammonium copper halide memory devices. Journal of Materials Chemistry A, 2020, 8, 17516-17526.	10.3	14
41	Photocatalytic Inactivation of Plant Pathogenic Bacteria Using TiO ₂ Nanoparticles Prepared Hydrothermally. Nanomaterials, 2020, 10, 1730.	4.1	10
42	Understanding the Synthetic Pathway to Large-Area, High-Quality [AgSePh] ₂ Nanocrystal Films. Journal of Physical Chemistry C, 2020, 124, 22845-22852.	3.1	11
43	Highly efficient sky-blue light-emitting diodes based on Cu-treated halide perovskite nanocrystals. Journal of Materials Chemistry C, 2020, 8, 13445-13452.	5.5	17
44	Nanocrystals of Lead Chalcogenides: A Series of Kinetically Trapped Metastable Nanostructures. Journal of the American Chemical Society, 2020, 142, 10198-10211.	13.7	34
45	A two-fold engineering approach based on Bi ₂ Te ₃ flakes towards efficient and stable inverted perovskite solar cells. Materials Advances, 2020, 1, 450-462.	5.4	21
46	Coupling of keratin with titanium: A physico-chemical characterization of functionalized or coated surfaces. Surface and Coatings Technology, 2020, 397, 126057.	4.8	10
47	Photoinduced Temperature Gradients in Sub-Wavelength Plasmonic Structures: The Thermoplasmonics of Nanocones. Advanced Optical Materials, 2020, 8, 2000568.	7.3	14
48	Macroscopic Versus Microscopic Schottky Barrier Determination at (Au/Pt)/Ge(100): Interfacial Local Modulation. ACS Applied Materials & Interfaces, 2020, 12, 28894-28902.	8.0	4
49	Water-dispersible few-layer graphene flakes for selective and rapid ion mercury (Hg ²⁺)-rejecting membranes. Materials Advances, 2020, 1, 387-402.	5.4	11
50	Photoluminescence enhancement and high accuracy patterning of lead halide perovskite single crystals by MeV ion beam irradiation. Journal of Materials Chemistry C, 2020, 8, 9923-9930.	5.5	12
51	Water-Based PEDOT:Nafion Dispersion for Organic Bioelectronics. ACS Applied Materials & Interfaces, 2020, 12, 29807-29817.	8.0	13
52	Metastable CdTe@HgTe Core@Shell Nanostructures Obtained by Partial Cation Exchange Evolve into Sintered CdTe Films Upon Annealing. Chemistry of Materials, 2020, 32, 2978-2985.	6.7	10
53	Scaling of capacitance of PEDOT:PSS: volume vs. area. Journal of Materials Chemistry C, 2020, 8, 11252-11262.	5.5	42
54	Towards enhanced sodium storage of anatase TiO ₂ via a dual-modification approach of Mo doping combined with AlF ₃ coating. Nanoscale, 2020, 12, 15896-15904.	5.6	11

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55	PbS Quantum Dots Decorating TiO ₂ Nanocrystals: Synthesis, Topology, and Optical Properties of the Colloidal Hybrid Architecture. <i>Molecules</i> , 2020, 25, 2939.	3.8	2
56	Effect of the Counteranion on the Formation Pathway of Cu ₂ ZnSnS ₄ (CZTS) Nanoparticles under Solvothermal Conditions. <i>Inorganic Chemistry</i> , 2020, 59, 1973-1984.	4.0	14
57	Engineering Multiphase Metal Halide Perovskites Thin Films for Stable and Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903221.	19.5	16
58	A robust and highly active hydrogen evolution catalyst based on Ru nanocrystals supported on vertically oriented Cu nanoplates. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10787-10795.	10.3	13
59	Homotypic targeting and drug delivery in glioblastoma cells through cell membrane-coated boron nitride nanotubes. <i>Materials and Design</i> , 2020, 192, 108742.	7.0	69
60	Stem cell and tissue regeneration analysis in low-dose irradiated planarians treated with cerium oxide nanoparticles. <i>Materials Science and Engineering C</i> , 2020, 115, 111113.	7.3	19
61	A New Drug Delivery System Based on Tauroursodeoxycholic Acid and PEDOT. <i>Chemistry - A European Journal</i> , 2019, 25, 2322-2329.	3.3	23
62	The effect of silver oxidation on the photocatalytic activity of Ag/ZnO hybrid plasmonic/metal-oxide nanostructures under visible light and in the dark. <i>Scientific Reports</i> , 2019, 9, 11839.	3.3	104
63	Ruthenium-Decorated Cobalt Selenide Nanocrystals for Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2019, 2, 5695-5703.	5.0	28
64	Emissive Bi-Doped Double Perovskite Cs ₂ Ag _{1-x} Na _x InCl ₆ Nanocrystals. <i>ACS Energy Letters</i> , 2019, 4, 1976-1982.	17.4	198
65	Increasing responsivity and air stability of PbS colloidal quantum dot photoconductors with iodine surface ligands. <i>Nanotechnology</i> , 2019, 30, 405204.	2.6	18
66	Single-/Few-Layer Graphene as Long-Lasting Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019, 2, 5373-5379.	5.1	28
67	Metallic Nanoporous Aluminum-Magnesium Alloy for UV-Enhanced Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20287-20296.	3.1	27
68	Highly-efficient photocatalytic generation of superoxide radicals by phase-pure rutile TiO ₂ nanoparticles for azo dye removal. <i>Applied Surface Science</i> , 2019, 493, 719-728.	6.1	16
69	Design of catalytically active porous gold structures from a bottom-up method: The role of metal traces in CO oxidation and oxidative coupling of methanol. <i>Journal of Catalysis</i> , 2019, 375, 279-286.	6.2	6
70	Modifying the Optical Phonon Response of Nanocrystals inside Terahertz Plasmonic Nanocavities. , 2019, , .		0
71	Electrodeposited PEDOT:Nafion Composite for Neural Recording and Stimulation. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900765.	7.6	51
72	Green-Emitting Powders of Zero-Dimensional Cs ₄ PbBr ₆ : Delineating the Intricacies of the Synthesis and the Origin of Photoluminescence. <i>Chemistry of Materials</i> , 2019, 31, 7761-7769.	6.7	62

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73	Stimuli-responsive lipid-based magnetic nanovectors increase apoptosis in glioblastoma cells through synergic intracellular hyperthermia and chemotherapy. <i>Nanoscale</i> , 2019, 11, 72-88.	5.6	69
74	Quantized Electronic Doping towards Atomically Controlled α -Charge-Engineered Semiconductor Nanocrystals. <i>Nano Letters</i> , 2019, 19, 1307-1317.	9.1	17
75	Hierarchical TiN Nanostructured Thin Film Electrode for Highly Stable PEM Fuel Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 1911-1922.	5.1	14
76	Two-Dimensional Material Interface Engineering for Efficient Perovskite Large-Area Modules. <i>ACS Energy Letters</i> , 2019, 4, 1862-1871.	17.4	125
77	Nanocatalyst/Nanoplasmon-Enabled Detection of Organic Mercury: A One-Minute Visual Test. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10285-10289.	13.8	35
78	Flexible Graphene/Carbon Nanotube Electrochemical Double-Layer Capacitors with Ultrahigh Areal Performance. <i>ChemPlusChem</i> , 2019, 84, 882-892.	2.8	28
79	Simultaneous Cationic and Anionic Ligand Exchange For Colloidally Stable CsPbBr ₃ Nanocrystals. <i>ACS Energy Letters</i> , 2019, 4, 819-824.	17.4	173
80	Carbon Nanotube-Supported MoSe ₂ Holey Flake:Mo ₂ C Ball Hybrids for Bifunctional pH-Universal Water Splitting. <i>ACS Nano</i> , 2019, 13, 3162-3176.	14.6	120
81	Low-pressure plasma treatment of CFRP substrates for epoxy-adhesive bonding: an investigation of the effect of various process gases. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 3021-3035.	3.0	22
82	α -Glon sliding on graphene: a novel concept to boost supercapacitor performance. <i>Nanoscale Horizons</i> , 2019, 4, 1077-1091.	8.0	22
83	Scalable Production of Graphene Inks via Wet-Jet Milling Exfoliation for Screen-Printed Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2019, 29, 1807659.	14.9	174
84	Extending the Colloidal Transition Metal Dichalcogenide Library to ReS ₂ Nanosheets for Application in Gas Sensing and Electrocatalysis. <i>Small</i> , 2019, 15, e1904670.	10.0	38
85	Niobium disulphide (NbS ₂)-based (heterogeneous) electrocatalysts for an efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25593-25608.	10.3	50
86	Insight on the Failure Mechanism of Sn Electrodes for Sodium-Ion Batteries: Evidence of Pore Formation during Sodiation and Crack Formation during Desodiation. <i>ACS Applied Energy Materials</i> , 2019, 2, 860-866.	5.1	18
87	Revealing Photoluminescence Modulation from Layered Halide Perovskite Microcrystals upon Cyclic Compression. <i>Advanced Materials</i> , 2019, 31, e1805608.	21.0	16
88	Understanding lead iodide perovskite hysteresis and degradation causes by extensive electrical characterization. <i>Solar Energy Materials and Solar Cells</i> , 2019, 189, 43-52.	6.2	24
89	Nanosized, Hollow, and Mn-Doped CeO ₂ /SiO ₂ Catalysts via Galvanic Replacement: Preparation, Characterization, and Application as Highly Active Catalysts. <i>ACS Applied Nano Materials</i> , 2018, 1, 1438-1443.	5.0	15
90	Coating Evaporated MAPI Thin Films with Organic Molecules: Improved Stability at High Temperature and Implementation in High-Efficiency Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 835-839.	17.4	30

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91	Reshaping the phonon energy landscape of nanocrystals inside a terahertz plasmonic nanocavity. <i>Nature Communications</i> , 2018, 9, 763.	12.8	30
92	Surface and interface engineering of anatase TiO ₂ anode for sodium-ion batteries through Al ₂ O ₃ surface modification and wise electrolyte selection. <i>Journal of Power Sources</i> , 2018, 384, 18-26.	7.8	15
93	Reduction of moisture sensitivity of PbS quantum dot solar cells by incorporation of reduced graphene oxide. <i>Solar Energy Materials and Solar Cells</i> , 2018, 183, 1-7.	6.2	68
94	Bottom-up Synthesis and Self-Assembly of Copper Clusters into Permanent Excimer Supramolecular Nanostructures. <i>Angewandte Chemie</i> , 2018, 130, 7169-7173.	2.0	4
95	Bottom-up Synthesis and Self-Assembly of Copper Clusters into Permanent Excimer Supramolecular Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7051-7055.	13.8	17
96	Benzoyl Halides as Alternative Precursors for the Colloidal Synthesis of Lead-Based Halide Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2018, 140, 2656-2664.	13.7	490
97	Engineered MoSe ₂ -Based Heterostructures for Efficient Electrochemical Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2018, 8, 1703212.	19.5	152
98	Enhancing the Performance of CdSe/CdS Dot-in-Rod Light-Emitting Diodes via Surface Ligand Modification. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5665-5672.	8.0	55
99	Nitrogen-Doped Single-Walled Carbon Nanohorns as a Cost-Effective Carbon Host toward High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5551-5559.	8.0	57
100	Dually responsive gold-iron oxide heterodimers: merging stimuli-responsive surface properties with intrinsic inorganic material features. <i>Nanoscale</i> , 2018, 10, 3930-3944.	5.6	19
101	Hydrothermal evolution of PF-co-doped TiO ₂ nanoparticles and their antibacterial activity against carbapenem-resistant <i>Klebsiella pneumoniae</i> . <i>Applied Catalysis B: Environmental</i> , 2018, 231, 115-122.	20.2	28
102	Tin Diselenide Molecular Precursor for Solution-Processable Thermoelectric Materials. <i>Angewandte Chemie</i> , 2018, 130, 17309-17314.	2.0	9
103	Tin Diselenide Molecular Precursor for Solution-Processable Thermoelectric Materials. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17063-17068.	13.8	23
104	Silica-supported pyrolyzed lignin for solid-phase extraction of rare earth elements from fresh and sea waters followed by ICP-MS detection. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7635-7643.	3.7	8
105	Ceria/Gold Nanoparticles <i>in Situ</i> Synthesized on Polymeric Membranes with Enhanced Photocatalytic and Radical Scavenging Activity. <i>ACS Applied Nano Materials</i> , 2018, 1, 5601-5611.	5.0	27
106	MoS ₂ Quantum Dot/Graphene Hybrids for Advanced Interface Engineering of a CH ₃ NH ₃ PbI ₃ Perovskite Solar Cell with an Efficiency of over 20%. <i>ACS Nano</i> , 2018, 12, 10736-10754.	14.6	201
107	Ni-Co-Se Alloy Nanocrystals: Influence of the Composition on Their <i>in Situ</i> Transformation and Electrocatalytic Activity for the Oxygen Evolution Reaction. <i>ACS Applied Nano Materials</i> , 2018, 1, 5753-5762.	5.0	26
108	WS ₂ -Graphite Dual-Ion Batteries. <i>Nano Letters</i> , 2018, 18, 7155-7164.	9.1	88

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109	Shape-Pure, Nearly Monodispersed CsPbBr ₃ Nanocubes Prepared Using Secondary Aliphatic Amines. Nano Letters, 2018, 18, 7822-7831.	9.1	132
110	Colloidal Synthesis of Double Perovskite Cs ₂ AgInCl ₆ and Mn-Doped Cs ₂ AgInCl ₆ Nanocrystals. Journal of the American Chemical Society, 2018, 140, 12989-12995.	13.7	397
111	Chloride-Induced Thickness Control in CdSe Nanoplatelets. Nano Letters, 2018, 18, 6248-6254.	9.1	135
112	Single walled carbon nanohorns composite for neural sensing and stimulation. Sensors and Actuators B: Chemical, 2018, 271, 280-288.	7.8	26
113	Biochemically Controlled Release of Dexamethasone Covalently Bound to PEDOT. Chemistry - A European Journal, 2018, 24, 10300-10305.	3.3	19
114	Hierarchical oxygen reduction reaction electrocatalysts based on FeSn _{0.5} species embedded in carbon nitride-graphene based supports. Electrochimica Acta, 2018, 280, 149-162.	5.2	22
115	Liquid-Phase Exfoliated Indium Selenide Flakes and Their Application in Hydrogen Evolution Reaction. Small, 2018, 14, e1800749.	10.0	90
116	High-yield production of 2D crystals by wet-jet milling. Materials Horizons, 2018, 5, 890-904.	12.2	139
117	A Short-Chain Multibranch Perfluoroalkyl Thiol for More Sustainable Hydrophobic Coatings. ACS Sustainable Chemistry and Engineering, 2018, 6, 9734-9743.	6.7	34
118	CeO ₂ Nanoparticles-Loaded pH-Responsive Microparticles with Antitumoral Properties as Therapeutic Modulators for Osteosarcoma. ACS Omega, 2018, 3, 8952-8962.	3.5	31
119	Doped MoSe ₂ Nanoflakes/3d Metal Oxide Hydr(Oxy)Oxides Hybrid Catalysts for pH-Universal Electrochemical Hydrogen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1801764.	19.5	67
120	In Situ Dynamic Nanostructuring of the Cu-Ti Catalyst-Support System Promotes Hydrogen Evolution under Alkaline Conditions. ACS Applied Materials & Interfaces, 2018, 10, 29583-29592.	8.0	18
121	(Co, Ni)Sn _{0.5} Nanoparticles Supported on Hierarchical Carbon Nitride-Graphene-Based Electrocatalysts for the Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 2029-2040.	3.4	6
122	Metal-support interaction in catalysis: The influence of the morphology of a nano-oxide domain on catalytic activity. Applied Catalysis B: Environmental, 2018, 237, 753-762.	20.2	14
123	How much does size really matter? Exploring the limits of graphene as Li ion battery anode material. Solid State Communications, 2017, 251, 88-93.	1.9	36
124	Tuning and Locking the Localized Surface Plasmon Resonances of CuS (Covellite) Nanocrystals by an Amorphous CuPd _x S Shell. Chemistry of Materials, 2017, 29, 1716-1723.	6.7	50
125	In Situ Transmission Electron Microscopy Study of Electron Beam-Induced Transformations in Colloidal Cesium Lead Halide Perovskite Nanocrystals. ACS Nano, 2017, 11, 2124-2132.	14.6	246
126	Nearly Monodisperse Insulator Cs ₄ PbX ₆ (X = Cl, Br, I) Nanocrystals, Their Mixed Halide Compositions, and Their Transformation into CsPbX ₃ Nanocrystals. Nano Letters, 2017, 17, 1924-1930.	9.1	488

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127	Size-Tuning of WSe ₂ Flakes for High Efficiency Inverted Organic Solar Cells. ACS Nano, 2017, 11, 3517-3531.	14.6	90
128	Light-assisted delithiation of lithium iron phosphate nanocrystals towards photo-rechargeable lithium ion batteries. Nature Communications, 2017, 8, 14643.	12.8	179
129	Role of Nonradiative Defects and Environmental Oxygen on Exciton Recombination Processes in CsPbBr ₃ Perovskite Nanocrystals. Nano Letters, 2017, 17, 3844-3853.	9.1	101
130	Quantized Doping of Individual Colloidal Nanocrystals Using Size-Focused Metal Quantum Clusters. ACS Nano, 2017, 11, 6233-6242.	14.6	21
131	From CsPbBr ₃ Nano-Inks to Sintered CsPbBr ₃ CsPb ₂ Br ₅ Films via Thermal Annealing: Implications on Optoelectronic Properties. Journal of Physical Chemistry C, 2017, 121, 11956-11961.	3.1	96
132	High Power Graphene Carbon Nanotube Hybrid Supercapacitors. ChemNanoMat, 2017, 3, 436-446.	2.8	39
133	Reversible Concentration-Dependent Photoluminescence Quenching and Change of Emission Color in CsPbBr ₃ Nanowires and Nanoplatelets. Journal of Physical Chemistry Letters, 2017, 8, 2725-2729.	4.6	50
134	Changing the Dimensionality of Cesium Lead Bromide Nanocrystals by Reversible Postsynthesis Transformations with Amines. Chemistry of Materials, 2017, 29, 4167-4171.	6.7	142
135	Strongly emissive perovskite nanocrystal inks for high-voltage solar cells. Nature Energy, 2017, 2, .	39.5	544
136	Colloidal Synthesis of Bipolar Off-Stoichiometric Gallium Iron Oxide Spinel-Type Nanocrystals with Near-IR Plasmon Resonance. Journal of the American Chemical Society, 2017, 139, 1198-1206.	13.7	25
137	Graphene-Based Hole-Selective Layers for High-Efficiency, Solution-Processed, Large-Area, Flexible, Hydrogen-Evolving Organic Photocathodes. Journal of Physical Chemistry C, 2017, 121, 21887-21903.	3.1	30
138	Postsynthesis Transformation of Insulating Cs ₄ PbBr ₆ Nanocrystals into Bright Perovskite CsPbBr ₃ through Physical and Chemical Extraction of CsBr. ACS Energy Letters, 2017, 2, 2445-2448.	17.4	177
139	Hollow and Porous Nickel Cobalt Perselenide Nanostructured Microparticles for Enhanced Electrocatalytic Oxygen Evolution. Chemistry of Materials, 2017, 29, 7032-7041.	6.7	93
140	Writing on Nanocrystals: Patterning Colloidal Inorganic Nanocrystal Films through Irradiation-Induced Chemical Transformations of Surface Ligands. Journal of the American Chemical Society, 2017, 139, 13250-13259.	13.7	34
141	Metal Nanoclusters with Synergistically Engineered Optical and Buffering Activity of Intracellular Reactive Oxygen Species by Compositional and Supramolecular Design. Scientific Reports, 2017, 7, 5976.	3.3	18
142	ITO nanoparticles break optical transparency/high-areal capacitance trade-off for advanced aqueous supercapacitors. Journal of Materials Chemistry A, 2017, 5, 25177-25186.	10.3	26
143	Solution-Processed Hybrid Graphene Flake/2H-MoS ₂ Quantum Dot Heterostructures for Efficient Electrochemical Hydrogen Evolution. Chemistry of Materials, 2017, 29, 5782-5786.	6.7	93
144	Preparation, Characterization, and Preliminary In Vitro Testing of Nanoceria-Loaded Liposomes. Nanomaterials, 2017, 7, 276.	4.1	19

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145	Multilayer poly(3,4-ethylenedioxythiophene)-dexamethasone and poly(3,4-ethylenedioxythiophene)-polystyrene sulfonate-carbon nanotubes coatings on glassy carbon microelectrode arrays for controlled drug release. <i>Biointerphases</i> , 2017, 12, 031002.	1.6	23
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