Mirko Prato

List of Publications by Year in descending order

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297 papers	22,452 citations	9786 73 h-index	9861 141 g-index
307 all docs	307 docs citations	307 times ranked	23232 citing authors

#	Article	IF	Citations
1	Tuning the Optical Properties of Cesium Lead Halide Perovskite Nanocrystals by Anion Exchange Reactions. Journal of the American Chemical Society, 2015, 137, 10276-10281.	13.7	1,765
2	The Einstein Telescope: a third-generation gravitational wave observatory. Classical and Quantum Gravity, 2010, 27, 194002.	4.0	1,211
3	Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors. Classical and Quantum Gravity, 2010, 27, 173001.	4.0	956
4	Solution Synthesis Approach to Colloidal Cesium Lead Halide Perovskite Nanoplatelets with Monolayer-Level Thickness Control. Journal of the American Chemical Society, 2016, 138, 1010-1016.	13.7	747
5	Sensitivity studies for third-generation gravitational wave observatories. Classical and Quantum Gravity, 2011, 28, 094013.	4.0	644
6	Strongly emissive perovskite nanocrystal inks for high-voltage solar cells. Nature Energy, 2017, 2, .	39.5	544
7	Benzoyl Halides as Alternative Precursors for the Colloidal Synthesis of Lead-Based Halide Perovskite Nanocrystals. Journal of the American Chemical Society, 2018, 140, 2656-2664.	13.7	490
8	Nearly Monodisperse Insulator Cs₄PbX₆ (X = Cl, Br, I) Nanocrystals, Their Mixed Halide Compositions, and Their Transformation into CsPbX₃ Nanocrystals. Nano Letters, 2017, 17, 1924-1930.	9.1	488
9	Colloidal Synthesis of Quantum Confined Single Crystal CsPbBr₃ Nanosheets with Lateral Size Control up to the Micrometer Range. Journal of the American Chemical Society, 2016, 138, 7240-7243.	13.7	446
10	Colloidal Synthesis of Double Perovskite Cs₂AgInCl₆ and Mn-Doped Cs₂AgInCl₆ Nanocrystals. Journal of the American Chemical Society, 2018, 140, 12989-12995.	13.7	397
11	Copper Sulfide Nanocrystals with Tunable Composition by Reduction of Covellite Nanocrystals with Cu⁺ Ions. Journal of the American Chemical Society, 2013, 135, 17630-17637.	13.7	377
12	Scientific objectives of Einstein Telescope. Classical and Quantum Gravity, 2012, 29, 124013.	4.0	355
13	X-ray Lithography on Perovskite Nanocrystals Films: From Patterning with Anion-Exchange Reactions to Enhanced Stability in Air and Water. ACS Nano, 2016, 10, 1224-1230.	14.6	320
14	Strongly Fluorescent Quaternary Cuâ€“Inâ€“Znâ€“S Nanocrystals Prepared from Cu_{1-x}InS₂ Nanocrystals by Partial Cation Exchange. Chemistry of Materials, 2012, 24, 2400-2406.	6.7	291
15	The third generation of gravitational wave observatories and their science reach. Classical and Quantum Gravity, 2010, 27, 084007.	4.0	287
16	Virgo: a laser interferometer to detect gravitational waves. Journal of Instrumentation, 2012, 7, P03012-P03012.	1.2	257
17	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
18	The Impact of the Crystallization Processes on the Structural and Optical Properties of Hybrid Perovskite Films for Photovoltaics. Journal of Physical Chemistry Letters, 2014, 5, 3836-3842.	4.6	238

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19	Colloidal Synthesis of Strongly Fluorescent CsPbBr₃ Nanowires with Width Tunable down to the Quantum Confinement Regime. Chemistry of Materials, 2016, 28, 6450-6454.	6.7	219
20	Fewâ€Layer MoS₂ Flakes as Active Buffer Layer for Stable Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1600920.	19.5	207
21	MoS₂ Quantum Dot/Graphene Hybrids for Advanced Interface Engineering of a CH₃NH₃PbI₃ Perovskite Solar Cell with an Efficiency of over 20%. ACS Nano, 2018, 12, 10736-10754.	14.6	201
22	Emissive Bi-Doped Double Perovskite Cs₂Ag_{1â€“x}Na_xInCl₆ Nanocrystals. ACS Energy Letters, 2019, 4, 1976-1982.	17.4	198
23	Search for gravitational waves from low mass compact binary coalescence in LIGOâ€™s sixth science run and Virgoâ€™s science runs 2 and 3. Physical Review D, 2012, 85, .	4.7	185
24	Light-assisted delithiation of lithium iron phosphate nanocrystals towards photo-rechargeable lithium ion batteries. Nature Communications, 2017, 8, 14643.	12.8	179
25	Postsynthesis Transformation of Insulating Cs₄PbBr₆ Nanocrystals into Bright Perovskite CsPbBr₃ through Physical and Chemical Extraction of CsBr. ACS Energy Letters, 2017, 2, 2445-2448.	17.4	177
26	Scalable Production of Graphene Inks via Wetâ€Jet Milling Exfoliation for Screenâ€Printed Microâ€Supercapacitors. Advanced Functional Materials, 2019, 29, 1807659.	14.9	174
27	From Binary Cu₂S to Ternary Cuâ€“Inâ€“S and Quaternary Cuâ€“Inâ€“Znâ€“S Nanocrystals with Tunable Composition via Partial Cation Exchange. ACS Nano, 2015, 9, 521-531.	14.6	173
28	Simultaneous Cationic and Anionic Ligand Exchange For Colloidally Stable CsPbBr₃ Nanocrystals. ACS Energy Letters, 2019, 4, 819-824.	17.4	173
29	Status of the Virgo project. Classical and Quantum Gravity, 2011, 28, 114002.	4.0	171
30	Ion Migration and the Role of Preconditioning Cycles in the Stabilization of the Jâ€“V Characteristics of Inverted Hybrid Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1501453.	19.5	167
31	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. Astrophysical Journal, 2010, 713, 671-685.	4.5	155
32	Polymer-Free Films of Inorganic Halide Perovskite Nanocrystals as UV-to-White Color-Conversion Layers in LEDs. Chemistry of Materials, 2016, 28, 2902-2906.	6.7	152
33	Engineered MoSe₂â€Based Heterostructures for Efficient Electrochemical Hydrogen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1703212.	19.5	152
34	Generalized One-Pot Synthesis of Copper Sulfide, Selenide-Sulfide, and Telluride-Sulfide Nanoparticles. Chemistry of Materials, 2014, 26, 1442-1449.	6.7	150
35	Changing the Dimensionality of Cesium Lead Bromide Nanocrystals by Reversible Postsynthesis Transformations with Amines. Chemistry of Materials, 2017, 29, 4167-4171.	6.7	142
36	High-yield production of 2D crystals by wet-jet milling. Materials Horizons, 2018, 5, 890-904.	12.2	139

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37	Synthesis of Uniform Disk-Shaped Copper Telluride Nanocrystals and Cation Exchange to Cadmium Telluride Quantum Disks with Stable Red Emission. Journal of the American Chemical Society, 2013, 135, 12270-12278.	13.7	138
38	Cu_{3-x}P Nanocrystals as a Material Platform for Near-Infrared Plasmonics and Cation Exchange Reactions. Chemistry of Materials, 2015, 27, 1120-1128.	6.7	137
39	Chloride-Induced Thickness Control in CdSe Nanoplatelets. Nano Letters, 2018, 18, 6248-6254.	9.1	135
40	Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. Physical Review D, 2013, 88, .	4.7	132
41	Shape-Pure, Nearly Monodispersed CsPbBr₃ Nanocubes Prepared Using Secondary Aliphatic Amines. Nano Letters, 2018, 18, 7822-7831.	9.1	132
42	Two-Dimensional Material Interface Engineering for Efficient Perovskite Large-Area Modules. ACS Energy Letters, 2019, 4, 1862-1871.	17.4	125
43	Alloyed Copper Chalcogenide Nanoplatelets via Partial Cation Exchange Reactions. ACS Nano, 2014, 8, 8407-8418.	14.6	123
44	Carbon Nanotube-Supported MoSe₂ Holey Flake:Mo₂C Ball Hybrids for Bifunctional pH-Universal Water Splitting. ACS Nano, 2019, 13, 3162-3176.	14.6	120
45	Tuning the Lattice Parameter of In_xZn_yP for Highly Luminescent Lattice-Matched Core/Shell Quantum Dots. ACS Nano, 2016, 10, 4754-4762.	14.6	117
46	Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1. Physical Review D, 2010, 82, .	4.7	111
47	All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. Physical Review D, 2010, 81, .	4.7	107
48	All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. Physical Review D, 2012, 85, .	4.7	107
49	SEARCH FOR GRAVITATIONAL WAVES ASSOCIATED WITH GAMMA-RAY BURSTS DURING LIGO SCIENCE RUN 6 AND VIRGO SCIENCE RUNS 2 AND 3. Astrophysical Journal, 2012, 760, 12.	4.5	104
50	The effect of silver oxidation on the photocatalytic activity of Ag/ZnO hybrid plasmonic/metal-oxide nanostructures under visible light and in the dark. Scientific Reports, 2019, 9, 11839.	3.3	104
51	Role of Nonradiative Defects and Environmental Oxygen on Exciton Recombination Processes in CsPbBr₃ Perovskite Nanocrystals. Nano Letters, 2017, 17, 3844-3853.	9.1	101
52	From CsPbBr₃ Nano-Inks to Sintered CsPbBr₃â€“CsPb₂Br₅ Films via Thermal Annealing: Implications on Optoelectronic Properties. Journal of Physical Chemistry C, 2017, 121, 11956-11961.	3.1	96
53	Directional Limits on Persistent Gravitational Waves Using LIGO S5 Science Data. Physical Review Letters, 2011, 107, 271102.	7.8	94
54	Hollow and Porous Nickel Cobalt Perselenide Nanostructured Microparticles for Enhanced Electrocatalytic Oxygen Evolution. Chemistry of Materials, 2017, 29, 7032-7041.	6.7	93

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55	Solution-Processed Hybrid Graphene Flake/2H-MoS₂ Quantum Dot Heterostructures for Efficient Electrochemical Hydrogen Evolution. Chemistry of Materials, 2017, 29, 5782-5786.	6.7	93
56	Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 2009â€“2010. Physical Review D, 2013, 87, .	4.7	92
57	Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. Physical Review D, 2013, 87, .	4.7	91
58	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. Astrophysical Journal, 2010, 715, 1453-1461.	4.5	90
59	Size-Tuning of WSe₂ Flakes for High Efficiency Inverted Organic Solar Cells. ACS Nano, 2017, 11, 3517-3531.	14.6	90
60	Liquidâ€Phase Exfoliated Indiumâ€“Selenide Flakes and Their Application in Hydrogen Evolution Reaction. Small, 2018, 14, e1800749.	10.0	90
61	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. Astrophysical Journal, 2011, 737, 93.	4.5	89
62	Nanoscale Transformations in Covellite (CuS) Nanocrystals in the Presence of Divalent Metal Cations in a Mild Reducing Environment. Chemistry of Materials, 2015, 27, 7531-7537.	6.7	89
63	WS₂â€“Graphite Dual-Ion Batteries. Nano Letters, 2018, 18, 7155-7164.	9.1	88
64	Squeezing Terahertz Light into Nanovolumes: Nanoantenna Enhanced Terahertz Spectroscopy (NETS) of Semiconductor Quantum Dots. Nano Letters, 2015, 15, 386-391.	9.1	86
65	Boosting Perovskite Solar Cells Performance and Stability through Doping a Polyâ€3(hexylthiophene) Hole Transporting Material with Organic Functionalized Carbon Nanostructures. Advanced Functional Materials, 2016, 26, 7443-7453.	14.9	86
66	Search for gravitational waves from binary black hole inspiral, merger, and ringdown. Physical Review D, 2011, 83, .	4.7	85
67	Calibration and sensitivity of the Virgo detector during its second science run. Classical and Quantum Gravity, 2011, 28, 025005.	4.0	85
68	Implementation and testing of the first prompt search forÂgravitational wave transients with electromagnetic counterparts. Astronomy and Astrophysics, 2012, 539, A124.	5.1	84
69	Liquid repellent nanocomposites obtained from one-step water-based spray. Journal of Materials Chemistry A, 2015, 3, 12880-12889.	10.3	81
70	Self-Assembly of 1,4-Benzenedimethanethiol Self-Assembled Monolayers on Gold. Langmuir, 2010, 26, 7242-7247.	3.5	80
71	Binder-free graphene as an advanced anode for lithium batteries. Journal of Materials Chemistry A, 2016, 4, 6886-6895.	10.3	79
72	First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. Astronomy and Astrophysics, 2012, 541, A155.	5.1	75

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73	The characterization of Virgo data and its impact on gravitational-wave searches. Classical and Quantum Gravity, 2012, 29, 155002.	4.0	73
74	Nonlinear Carrier Interactions in Lead Halide Perovskites and the Role of Defects. Journal of the American Chemical Society, 2016, 138, 13604-13611.	13.7	73
75	Optical Characterization of Thiolate Self-Assembled Monolayers on Au(111). Journal of Physical Chemistry C, 2008, 112, 3899-3906.	3.1	70
76	Colloidal Cu2â^'x(SySe1â^'y) alloy nanocrystals with controllable crystal phase: synthesis, plasmonic properties, cation exchange and electrochemical lithiation. Journal of Materials Chemistry, 2012, 22, 13023.	6.7	70
77	Stimuli-responsive lipid-based magnetic nanovectors increase apoptosis in glioblastoma cells through synergic intracellular hyperthermia and chemotherapy. Nanoscale, 2019, 11, 72-88.	5.6	69
78	Homotypic targeting and drug delivery in glioblastoma cells through cell membrane-coated boron nitride nanotubes. Materials and Design, 2020, 192, 108742.	7.0	69
79	Reduction of moisture sensitivity of PbS quantum dot solar cells by incorporation of reduced graphene oxide. Solar Energy Materials and Solar Cells, 2018, 183, 1-7.	6.2	68
80	Dopedâ€MoSe₂ Nanoflakes/3d Metal Oxideâ€“Hydr(Oxy)Oxides Hybrid Catalysts for pHâ€Universal Electrochemical Hydrogen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1801764.	19.5	67
81	All-sky search for periodic gravitational waves in the full S5 LIGO data. Physical Review D, 2012, 85, .	4.7	66
82	Colloidal Synthesis of Cuprite (Cu₂O) Octahedral Nanocrystals and Their Electrochemical Lithiation. ACS Applied Materials & Interfaces, 2013, 5, 2745-2751.	8.0	66
83	Integration of two-dimensional materials-based perovskite solar panels into a stand-alone solar farm. Nature Energy, 2022, 7, 597-607.	39.5	66
84	CuIn_xGa_{1â€“x}S₂ Nanocrystals with Tunable Composition and Band Gap Synthesized via a Phosphine-Free and Scalable Procedure. Chemistry of Materials, 2013, 25, 3180-3187.	6.7	65
85	Direct Synthesis of Carbon-Doped TiO₂â€“Bronze Nanowires as Anode Materials for High Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 25139-25146.	8.0	65
86	Influence of Chloride Ions on the Synthesis of Colloidal Branched CdSe/CdS Nanocrystals by Seeded Growth. ACS Nano, 2012, 6, 11088-11096.	14.6	64
87	On the self assembly of short chain alkanedithiols. Physical Chemistry Chemical Physics, 2008, 10, 6836.	2.8	62
88	Measurements of Superattenuator seismic isolation by Virgo interferometer. Astroparticle Physics, 2010, 33, 182-189.	4.3	62
89	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. Astrophysical Journal, Supplement Series, 2012, 203, 28.	7.7	62
90	Evolution of CsPbBr₃ nanocrystals upon post-synthesis annealing under an inert atmosphere. Journal of Materials Chemistry C, 2016, 4, 9179-9182.	5.5	62

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91	Green-Emitting Powders of Zero-Dimensional Cs₄PbBr₆: Delineating the Intricacies of the Synthesis and the Origin of Photoluminescence. Chemistry of Materials, 2019, 31, 7761-7769.	6.7	62
92	New Stereocomplex PLA-Based Fibers: Effect of POSS on Polymer Functionalization and Properties. Macromolecules, 2014, 47, 4718-4727.	4.8	61
93	Scalable spray-coated graphene-based electrodes for high-power electrochemical double-layer capacitors operating over a wide range of temperature. Energy Storage Materials, 2021, 34, 1-11.	18.0	61
94	SEARCH FOR GRAVITATIONAL-WAVE BURSTS ASSOCIATED WITH GAMMA-RAY BURSTS USING DATA FROM LIGO SCIENCE RUN 5 AND VIRGO SCIENCE RUN 1. Astrophysical Journal, 2010, 715, 1438-1452.	4.5	60
95	TaS₂, TaSe₂, and Their Heterogeneous Films as Catalysts for the Hydrogen Evolution Reaction. ACS Catalysis, 2020, 10, 3313-3325.	11.2	60
96	Noise from scattered light in Virgo's second science run data. Classical and Quantum Gravity, 2010, 27, 194011.	4.0	59
97	CO Oxidation on Colloidal Au_{0.80}Pd_{0.20}â€“Fe_xO_y Dumbbell Nanocrystals. Nano Letters, 2013, 13, 752-757.	9.1	57
98	Nitrogen-Doped Single-Walled Carbon Nanohorns as a Cost-Effective Carbon Host toward High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 5551-5559.	8.0	57
99	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. Astrophysical Journal Letters, 2011, 734, L35.	8.3	55
100	Enhancing the Performance of CdSe/CdS Dot-in-Rod Light-Emitting Diodes via Surface Ligand Modification. ACS Applied Materials & Interfaces, 2018, 10, 5665-5672.	8.0	55
101	Cation exchange mediated elimination of the Fe-antisites in the hydrothermal synthesis of LiFePO4. Nano Energy, 2015, 16, 256-267.	16.0	54
102	Permanent excimer superstructures by supramolecular networking of metal quantum clusters. Science, 2016, 353, 571-575.	12.6	54
103	Etched Colloidal LiFePO4 Nanoplatelets toward High-Rate Capable Li-Ion Battery Electrodes. Nano Letters, 2014, 14, 6828-6835.	9.1	53
104	Accelerated Removal of Fe-Antisite Defects while Nanosizing Hydrothermal LiFePO₄ with Ca²⁺. Nano Letters, 2016, 16, 2692-2697.	9.1	52
105	Electrodeposited PEDOT:Nafion Composite for Neural Recording and Stimulation. Advanced Healthcare Materials, 2019, 8, e1900765.	7.6	51
106	Tuning and Locking the Localized Surface Plasmon Resonances of CuS (Covellite) Nanocrystals by an Amorphous CuPd_xS Shell. Chemistry of Materials, 2017, 29, 1716-1723.	6.7	50
107	Reversible Concentration-Dependent Photoluminescence Quenching and Change of Emission Color in CsPbBr₃ Nanowires and Nanoplatelets. Journal of Physical Chemistry Letters, 2017, 8, 2725-2729.	4.6	50
108	Niobium disulphide (NbS₂)-based (heterogeneous) electrocatalysts for an efficient hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 25593-25608.	10.3	50

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109	H2O2-assisted photocatalysis on flower-like rutile TiO2 nanostructures: Rapid dye degradation and inactivation of bacteria. Applied Surface Science, 2016, 365, 171-179.	6.1	49
110	Search for gravitational waves from intermediate mass binary black holes. Physical Review D, 2012, 85, .	4.7	48
111	Nanocrystal Film Patterning by Inhibiting Cation Exchange via Electron-Beam or X-ray Lithography. Nano Letters, 2014, 14, 2116-2122.	9.1	46
112	Alloy CsCd_xPb_{1â€“x}Br₃ Perovskite Nanocrystals: The Role of Surface Passivation in Preserving Composition and Blue Emission. Chemistry of Materials, 2020, 32, 10641-10652.	6.7	45
113	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
114	Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600â€“1000ÂHz. Physical Review D, 2012, 85, .	4.7	43
115	PLA/POSS Nanofibers: A Novel System for the Immobilization of Metal Nanoparticles. ACS Applied Materials & Interfaces, 2013, 5, 7688-7692.	8.0	43
116	Efficient charge transfer in solution-processed PbS quantum dotâ€“reduced graphene oxide hybrid materials. Journal of Materials Chemistry C, 2015, 3, 7088-7095.	5.5	43
117	Scaling of capacitance of PEDOT:PSS: volumevs.area. Journal of Materials Chemistry C, 2020, 8, 11252-11262.	5.5	42
118	Influence of the fluorine doping on the optical properties of CdS thin films for photovoltaic applications. Thin Solid Films, 2006, 511-512, 448-452.	1.8	41
119	Two-Dimensional Gallium Sulfide Nanoflakes for UV-Selective Photoelectrochemical-type Photodetectors. Journal of Physical Chemistry C, 2021, 125, 11857-11866.	3.1	41
120	Electronic and Geometric Characterization of thel-Cysteine Paired-Row Phase on Au(110). Langmuir, 2006, 22, 11193-11198.	3.5	40
121	Highâ€Power Grapheneâ€“Carbon Nanotube Hybrid Supercapacitors. ChemNanoMat, 2017, 3, 436-446.	2.8	39
122	Biomimetic keratin gold nanoparticle-mediated in vitro photothermal therapy on glioblastoma multiforme. Nanomedicine, 2021, 16, 121-138.	3.3	39
123	Extending the Colloidal Transition Metal Dichalcogenide Library to ReS₂ Nanosheets for Application in Gas Sensing and Electrocatalysis. Small, 2019, 15, e1904670.	10.0	38
124	Lanthanide-Induced Photoluminescence in Lead-Free Cs₂AgBiBr₆ Bulk Perovskite: Insights from Optical and Theoretical Investigations. Journal of Physical Chemistry Letters, 2020, 11, 8893-8900.	4.6	38
125	The effect of Au domain size on the CO oxidation catalytic activity of colloidal Auâ€“FeOx dumbbell-like heterodimers. Journal of Catalysis, 2016, 338, 115-123.	6.2	37
126	Optical Properties of Disulfide-Functionalized Diacetylene Self-Assembled Monolayers on Gold: a Spectroscopic Ellipsometry Study. Journal of Physical Chemistry C, 2009, 113, 20683-20688.	3.1	36

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127	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
128	Nanocatalyst/Nanoplasmonâ€Enabled Detection of Organic Mercury: Aâ€‰Oneâ€Minute Visual Test. Angewandte Chemie - International Edition, 2019, 58, 10285-10289.	13.8	35
129	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
130	Azurin Self-Assembled Monolayers Characterized by Coupling Electrical Impedance Spectroscopy and Spectroscopic Ellipsometry. Journal of Physical Chemistry B, 2004, 108, 20263-20272.	2.6	34
131	A High Voltage Olivine Cathode for Application in Lithiumâ€Ion Batteries. ChemSusChem, 2016, 9, 223-230.	6.8	34
132	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
133	A Short-Chain Multibranched Perfluoroalkyl Thiol for More Sustainable Hydrophobic Coatings. ACS Sustainable Chemistry and Engineering, 2018, 6, 9734-9743.	6.7	34
134	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
135	Nanocrystals of Lead Chalcohalides: A Series of Kinetically Trapped Metastable Nanostructures. Journal of the American Chemical Society, 2020, 142, 10198-10211.	13.7	34
136	Optical properties of cluster-assembled nanoporous gold films. Physical Review B, 2009, 80, .	3.2	32
137	A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 008-008.	5.4	32
138	Hollow and Concave Nanoparticles via Preferential Oxidation of the Core in Colloidal Core/Shell Nanocrystals. Journal of the American Chemical Society, 2014, 136, 9061-9069.	13.7	32
139	Optical properties of Yeast Cytochrome c monolayer on gold: An in situ spectroscopic ellipsometry investigation. Journal of Colloid and Interface Science, 2011, 364, 125-132.	9.4	31
140	CeO₂ Nanoparticles-Loaded pH-Responsive Microparticles with Antitumoral Properties as Therapeutic Modulators for Osteosarcoma. ACS Omega, 2018, 3, 8952-8962.	3.5	31
141	Atomic Ligand Passivation of Colloidal Nanocrystal Films via their Reaction with Propyltrichlorosilane. Chemistry of Materials, 2013, 25, 1423-1429.	6.7	30
142	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
143	Coating Evaporated MAPI Thin Films with Organic Molecules: Improved Stability at High Temperature and Implementation in High-Efficiency Solar Cells. ACS Energy Letters, 2018, 3, 835-839.	17.4	30
144	Reshaping the phonon energy landscape of nanocrystals inside a terahertz plasmonic nanocavity. Nature Communications, 2018, 9, 763.	12.8	30

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145	Nitrogen-doped graphene based triboelectric nanogenerators. Nano Energy, 2021, 87, 106173.	16.0	30
146	Status and perspectives of the Virgo gravitational wave detector. Journal of Physics: Conference Series, 2010, 203, 012074.	0.4	29
147	Nonâ€Equilibrium Synthesis of Highly Active Nanostructured, Oxygenâ€Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst. Small, 2020, 16, e2004047.	10.0	29
148	Moisture resistance in perovskite solar cells attributed to a water-splitting layer. Communications Materials, 2021, 2, .	6.9	29
149	The Seismic Superattenuators of the Virgo Gravitational Waves Interferometer. Journal of Low Frequency Noise Vibration and Active Control, 2011, 30, 63-79.	2.9	28
150	Hydrothermal evolution of PF-co-doped TiO2 nanoparticles and their antibacterial activity against carbapenem-resistant Klebsiella pneumoniae. Applied Catalysis B: Environmental, 2018, 231, 115-122.	20.2	28
151	Ruthenium-Decorated Cobalt Selenide Nanocrystals for Hydrogen Evolution. ACS Applied Nano Materials, 2019, 2, 5695-5703.	5.0	28
152	Single-/Few-Layer Graphene as Long-Lasting Electrocatalyst for Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 5373-5379.	5.1	28
153	Flexible Graphene/Carbon Nanotube Electrochemical Doubleâ€Layer Capacitors with Ultrahigh Areal Performance. ChemPlusChem, 2019, 84, 882-892.	2.8	28
154	POSS vapor phase grafting: a novel method to modify polymer films. Journal of Materials Chemistry, 2011, 21, 18049.	6.7	27
155	Tic-Tac-Toe Binary Lattices from the Interfacial Self-Assembly of Branched and Spherical Nanocrystals. ACS Nano, 2016, 10, 4345-4353.	14.6	27
156	Ceria/Gold Nanoparticles in Situ Synthesized on Polymeric Membranes with Enhanced Photocatalytic and Radical Scavenging Activity. ACS Applied Nano Materials, 2018, 1, 5601-5611.	5.0	27
157	Metallic Nanoporous Aluminumâ€“Magnesium Alloy for UV-Enhanced Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 20287-20296.	3.1	27
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