

Federico Rosei

List of Publications by Year in descending order

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379
papers

18,370
citations

10389

72
h-index

22166

113
g-index

388
all docs

388
docs citations

388
times ranked

20645
citing authors

#	ARTICLE	IF	CITATIONS
1	Bandgap tuning of multiferroic oxide solar cells. <i>Nature Photonics</i> , 2015, 9, 61-67.	31.4	640
2	Antibacterial Coatings: Challenges, Perspectives, and Opportunities. <i>Trends in Biotechnology</i> , 2015, 33, 637-652.	9.3	599
3	Properties of large organic molecules on metal surfaces. <i>Progress in Surface Science</i> , 2003, 71, 95-146.	8.3	419
4	Synthesis of Polyphenylene Molecular Wires by Surface-Confined Polymerization. <i>Small</i> , 2009, 5, 592-597.	10.0	314
5	Extending Polymer Conjugation into the Second Dimension. <i>Science</i> , 2009, 323, 216-217.	12.6	296
6	Supramolecular Assemblies on Surfaces: Nanopatterning, Functionality, and Reactivity. <i>ACS Nano</i> , 2018, 12, 7445-7481.	14.6	225
7	Nanostructured surfaces: challenges and frontiers in nanotechnology. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S1373-S1436.	1.8	215
8	Gold nanoparticle decorated ceria nanotubes with significantly high catalytic activity for the reduction of nitrophenol and mechanism study. <i>Applied Catalysis B: Environmental</i> , 2013, 132-133, 107-115.	20.2	199
9	Tailoring the surface properties of Ti6Al4V by controlled chemical oxidation. <i>Biomaterials</i> , 2008, 29, 1285-1298.	11.4	197
10	Insight into Organometallic Intermediate and Its Evolution to Covalent Bonding in Surface-Confined Ullmann Polymerization. <i>ACS Nano</i> , 2013, 7, 8190-8198.	14.6	190
11	Synthesis of Ni-Ru Alloy Nanoparticles and Their High Catalytic Activity in Dehydrogenation of Ammonia Borane. <i>Chemistry - A European Journal</i> , 2012, 18, 7925-7930.	3.3	185
12	Molecular Self-Assembly on Graphene. <i>Small</i> , 2014, 10, 1038-1049.	10.0	184
13	Near-IR Photoresponse in New Up-Converting CdSe/NaYF ₄ :Yb,Er Nanoheterostructures. <i>Journal of the American Chemical Society</i> , 2010, 132, 8868-8869.	13.7	183
14	Improving Biocompatibility of Implantable Metals by Nanoscale Modification of Surfaces: An Overview of Strategies, Fabrication Methods, and Challenges. <i>Small</i> , 2009, 5, 996-1006.	10.0	182
15	Efficient and stable tandem luminescent solar concentrators based on carbon dots and perovskite quantum dots. <i>Nano Energy</i> , 2018, 50, 756-765.	16.0	170
16	Rational Modulation of the Periodicity in Linear Hydrogen-Bonded Assemblies of Trimesic Acid on Surfaces. <i>Journal of the American Chemical Society</i> , 2006, 128, 4212-4213.	13.7	169
17	Harnessing the properties of colloidal quantum dots in luminescent solar concentrators. <i>Chemical Society Reviews</i> , 2018, 47, 5866-5890.	38.1	169
18	Physical aspects of ferroelectric semiconductors for photovoltaic solar energy conversion. <i>Physics Reports</i> , 2016, 653, 1-40.	25.6	166

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19	Near Infrared, Highly Efficient Luminescent Solar Concentrators. <i>Advanced Energy Materials</i> , 2016, 6, 1501913.	19.5	161
20	Synthesis of mesoscale ordered two-dimensional π -conjugated polymers with semiconducting properties. <i>Nature Materials</i> , 2020, 19, 874-880.	27.5	158
21	Surface Nanopatterning to Control Cell Growth. <i>Advanced Materials</i> , 2008, 20, 1488-1492.	21.0	155
22	Perovskite quantum dots integrated in large-area luminescent solar concentrators. <i>Nano Energy</i> , 2017, 37, 214-223.	16.0	155
23	In situ facile synthesis of ruthenium nanocluster catalyst supported on carbon black for hydrogen generation from the hydrolysis of ammonia-borane. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17921-17927.	7.1	154
24	Remarkably enhanced photocatalytic activity of laser ablated Au nanoparticle decorated BiFeO ₃ nanowires under visible-light. <i>Chemical Communications</i> , 2013, 49, 5856.	4.1	154
25	Photovoltaic properties of Bi ₂ FeCrO ₆ epitaxial thin films. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	153
26	Colloidal carbon dots based highly stable luminescent solar concentrators. <i>Nano Energy</i> , 2018, 44, 378-387.	16.0	150
27	Two-Dimensional Structural Motif in Thienoacene Semiconductors: Synthesis, Structure, and Properties of Tetrathienoanthracene Isomers. <i>Chemistry of Materials</i> , 2008, 20, 2484-2494.	6.7	144
28	Maximizing Field-Effect Mobility and Solid-State Luminescence in Organic Semiconductors. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3837-3841.	13.8	135
29	Supramolecular Ordering in Oligothiophene-Fullerene Monolayers. <i>Journal of the American Chemical Society</i> , 2009, 131, 16844-16850.	13.7	134
30	Nanoscale Oxidative Patterning of Metallic Surfaces to Modulate Cell Activity and Fate. <i>Nano Letters</i> , 2009, 9, 659-665.	9.1	134
31	Crystal Engineering in Two Dimensions: An Approach to Molecular Nanopatterning. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16996-17007.	3.1	132
32	Synthesis and electronic structure of a two dimensional π -conjugated polythiophene. <i>Chemical Science</i> , 2013, 4, 3263.	7.4	130
33	Bifunctional catalytic/magnetic Ni@Ru core-shell nanoparticles. <i>Chemical Communications</i> , 2011, 47, 6308.	4.1	128
34	Heterocirculenes as a new class of organic semiconductors. <i>Chemical Communications</i> , 2008, , 5354.	4.1	126
35	Kinetics and thermodynamics in surface-confined molecular self-assembly. <i>Chemical Science</i> , 2011, 2, 2290.	7.4	122
36	Hybrid Carbon Nanotubes-TiO ₂ Photoanodes for High Efficiency Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14510-14517.	3.1	121

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37	Halogen bonds in 2D supramolecular self-assembly of organic semiconductors. <i>Nanoscale</i> , 2012, 4, 5965.	5.6	120
38	Step-by-step growth of epitaxially aligned polythiophene by surface-confined reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11200-11204.	7.1	117
39	Heavy metal-free, near-infrared colloidal quantum dots for efficient photoelectrochemical hydrogen generation. <i>Nano Energy</i> , 2017, 31, 441-449.	16.0	116
40	SCANNING TUNNELING MICROSCOPY MANIPULATION OF COMPLEX ORGANIC MOLECULES ON SOLID SURFACES. <i>Annual Review of Physical Chemistry</i> , 2006, 57, 497-525.	10.8	114
41	Absorption Enhancement in $\text{Cd}^{\text{Core}}/\text{Alloyed-Shell}$ Quantum Dots for Luminescent Solar Concentrator. <i>Small</i> , 2016, 12, 5354-5365.	10.0	112
42	Interfacial Reaction-Directed Synthesis of Ce^{Mn} Binary Oxide Nanotubes and Their Applications in CO Oxidation and Water Treatment. <i>Advanced Functional Materials</i> , 2012, 22, 3914-3920.	14.9	110
43	Solvent-Antisolvent Ambient Processed Large Grain Size Perovskite Thin Films for High-Performance Solar Cells. <i>Scientific Reports</i> , 2018, 8, 12885.	3.3	109
44	Colloidal Quantum Dots for Solar Technologies. <i>CheM</i> , 2017, 3, 229-258.	11.7	107
45	Ullmann-type coupling of brominated tetrathienoanthracene on copper and silver. <i>Nanoscale</i> , 2014, 6, 2660-2668.	5.6	106
46	Multiple $\text{NaNbO}_3/\text{Nb}_2\text{O}_5$ Heterostructure Nanotubes: A New Class of Ferroelectric/Semiconductor Nanomaterials. <i>Advanced Materials</i> , 2010, 22, 1741-1745.	21.0	104
47	High efficiency, Pt-free photoelectrochemical cells for solar hydrogen generation based on Cd^{giant} quantum dots. <i>Nano Energy</i> , 2016, 27, 265-274.	16.0	103
48	Two-Dimensional Nanotemplates as Surface Cues for the Controlled Assembly of Organic Molecules. <i>Topics in Current Chemistry</i> , 2008, 285, 203-267.	4.0	102
49	Supramolecular assembly of heterocirculenes in 2D and 3D. <i>Chemical Communications</i> , 2009, , 1192.	4.1	100
50	One-Dimensional Assembly and Selective Orientation of Lander Molecules on an O^{Cu} Template. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2092-2095.	13.8	99
51	Characterization of a bioactive nanotextured surface created by controlled chemical oxidation of titanium. <i>Surface Science</i> , 2006, 600, 4613-4621.	1.9	98
52	Core/Shell Quantum Dots Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 1908762.	14.9	98
53	Highly Stable Colloidal Cd^{giant} Quantum Dots Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, 1701468.	14.9	92
54	Halogen bonds as stabilizing interactions in a chiral self-assembled molecular monolayer. <i>Chemical Communications</i> , 2011, 47, 9453.	4.1	91

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55	Lanthanide Ion Doped Upconverting Nanoparticles: Synthesis, Structure and Properties. <i>Small</i> , 2016, 12, 3888-3907.	10.0	91
56	Quasi one-dimensional band dispersion and surface metallization in long-range ordered polymeric wires. <i>Nature Communications</i> , 2016, 7, 10235.	12.8	91
57	Stabilization of exotic minority phases in a multicomponent self-assembled molecular network. <i>Nanotechnology</i> , 2007, 18, 424031.	2.6	90
58	Near-Infrared, Heavy Metal-Free Colloidal Giant-Core/Shell Quantum Dots. <i>Advanced Energy Materials</i> , 2018, 8, 1701432.	19.5	90
59	Engineering interfacial structure in Giant-PbS/CdS quantum dots for photoelectrochemical solar energy conversion. <i>Nano Energy</i> , 2016, 30, 531-541.	16.0	88
60	A solution to break the salt barrier for high-rate sustainable solar desalination. <i>Energy and Environmental Science</i> , 2021, 14, 2451-2459.	30.8	87
61	Ternary organic solar cells: A review of the role of the third element. <i>Nano Energy</i> , 2022, 94, 106915.	16.0	87
62	Mega High Utilization of Sodium Metal Anodes Enabled by Single Zinc Atom Sites. <i>Nano Letters</i> , 2019, 19, 7827-7835.	9.1	86
63	Improved photovoltaic performance from inorganic perovskite oxide thin films with mixed crystal phases. <i>Nature Photonics</i> , 2018, 12, 271-276.	31.4	84
64	Hole-extraction and photostability enhancement in highly efficient inverted perovskite solar cells through carbon dot-based hybrid material. <i>Nano Energy</i> , 2019, 62, 781-790.	16.0	83
65	Controlling photoinduced electron transfer from PbS@CdS core@shell quantum dots to metal oxide nanostructured thin films. <i>Nanoscale</i> , 2014, 6, 7004-7011.	5.6	81
66	Mechanistic Picture and Kinetic Analysis of Surface-Confined Ullmann Polymerization. <i>Journal of the American Chemical Society</i> , 2016, 138, 16696-16702.	13.7	81
67	Enhanced photovoltaic properties in dye sensitized solar cells by surface treatment of SnO ₂ photoanodes. <i>Scientific Reports</i> , 2016, 6, 23312.	3.3	80
68	Efficient Upconverting Multiferroic Core@Shell Photocatalysts: Visible-to-Near-Infrared Photon Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8142-8150.	8.0	79
69	Facile Synthesis of Nanosheet-like CuO Film and its Potential Application as a High-Performance Pseudocapacitor Electrode. <i>Electrochimica Acta</i> , 2016, 198, 220-230.	5.2	77
70	Reduced graphene oxide growth on 316L stainless steel for medical applications. <i>Nanoscale</i> , 2014, 6, 8664-8670.	5.6	76
71	Near-Infrared Colloidal Quantum Dots for Efficient and Durable Photoelectrochemical Solar-Driven Hydrogen Production. <i>Advanced Science</i> , 2016, 3, 1500345.	11.2	76
72	Covalently bonded networks through surface-confined polymerization. <i>Surface Science</i> , 2013, 613, 6-14.	1.9	75

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73	Diatom frustules as light traps enhance DSSC efficiency. <i>Nanoscale</i> , 2013, 5, 873-876.	5.6	74
74	Epitaxial Bi ₂ FeCrO ₆ Multiferroic Thin Film as a New Visible Light Absorbing Photocathode Material. <i>Small</i> , 2015, 11, 4018-4026.	10.0	73
75	Surface-confined single-layer covalent organic frameworks: design, synthesis and application. <i>Chemical Society Reviews</i> , 2020, 49, 2020-2038.	38.1	73
76	Encapsulated cobalt nanoparticles as a recoverable catalyst for the hydrolysis of sodium borohydride. <i>Energy Storage Materials</i> , 2020, 27, 187-197.	18.0	72
77	Platinum Cluster/Carbon Quantum Dots Derived Graphene Heterostructured Carbon Nanofibers for Efficient and Durable Solar-Driven Electrochemical Hydrogen Evolution. <i>Small Methods</i> , 2022, 6, e2101470.	8.6	72
78	Graphene below the percolation threshold in TiO ₂ for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2580-2588.	10.3	70
79	Functionalized multi-wall carbon nanotubes/TiO ₂ composites as efficient photoanodes for dye sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3555-3562.	5.5	68
80	Approaches for ultrafast imaging of transient materials processes in the transmission electron microscope. <i>Micron</i> , 2012, 43, 1108-1120.	2.2	67
81	Manipulation of charge transfer in vertically aligned epitaxial ferroelectric KNbO ₃ nanowire array photoelectrodes. <i>Nano Energy</i> , 2017, 35, 92-100.	16.0	67
82	Epitaxial Patterning of Bi ₂ FeCrO ₆ Double Perovskite Nanostructures: Multiferroic at Room Temperature. <i>Advanced Materials</i> , 2011, 23, 1724-1729.	21.0	66
83	Hollow ruthenium nanoparticles with small dimensions derived from Ni@Ru core@shell structure: synthesis and enhanced catalytic dehydrogenation of ammonia borane. <i>Chemical Communications</i> , 2012, 48, 8009.	4.1	66
84	Effect of multi-walled carbon nanotubes on the stability of dye sensitized solar cells. <i>Journal of Power Sources</i> , 2013, 233, 93-97.	7.8	66
85	Substrate Effects in the Supramolecular Assembly of 1,3,5-Benzene Tricarboxylic Acid on Graphite and Graphene. <i>Langmuir</i> , 2015, 31, 7016-7024.	3.5	63
86	Optoelectronic Properties in Near-Infrared Colloidal Heterostructured Pyramidal Core/Shell Quantum Dots. <i>Advanced Science</i> , 2018, 5, 1800656.	11.2	63
87	Phase-junction design of MOF-derived TiO ₂ photoanodes sensitized with quantum dots for efficient hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118317.	20.2	63
88	Upconverting nanocomposites with combined photothermal and photodynamic effects. <i>Nanoscale</i> , 2018, 10, 791-799.	5.6	61
89	Complex oxide nanostructures by pulsed laser deposition through nanostencils. <i>Applied Physics Letters</i> , 2005, 86, 183107.	3.3	60
90	Rough Fibrils Provide a Toughening Mechanism in Biological Fibers. <i>ACS Nano</i> , 2012, 6, 1961-1969.	14.6	59

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91	Evidence of antibacterial activity on titanium surfaces through nanotextures. <i>Applied Surface Science</i> , 2014, 308, 275-284.	6.1	59
92	Substrate, Molecular Structure, and Solvent Effects in 2D Self-Assembly via Hydrogen and Halogen Bonding. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25505-25516.	3.1	59
93	Multifunctional Liposome Nanocarriers Combining Upconverting Nanoparticles and Anticancer Drugs. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4992-5001.	2.6	58
94	A single multifunctional nanoplatform based on upconversion luminescence and gold nanorods. <i>Nanoscale</i> , 2015, 7, 5178-5185.	5.6	57
95	Ultrafast and high-efficient self-healing epoxy coatings with active multiple hydrogen bonds for corrosion protection. <i>Corrosion Science</i> , 2021, 187, 109485.	6.6	56
96	Unprecedented Transformation of Tetrathienoanthracene into Pentacene on Ni(111). <i>ACS Nano</i> , 2013, 7, 1652-1657.	14.6	54
97	Size Dependence of Temperature-Related Optical Properties of PbS and PbS/CdS Core/Shell Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20585-20593.	3.1	54
98	Long-term stability of hydrogenated DLC coatings: Effects of aging on the structural, chemical and mechanical properties. <i>Diamond and Related Materials</i> , 2014, 48, 65-72.	3.9	54
99	Dual emission in asymmetric PbS/CdS/CdS core/shell/shell quantum dots. <i>Nanoscale</i> , 2016, 8, 4217-4226.	5.6	54
100	The role of halogens in on-surface Ullmann polymerization. <i>Faraday Discussions</i> , 2017, 204, 453-469.	3.2	54
101	Multiferroic $\text{Bi}_2\text{FeCrO}_6$ based p-n heterojunction photovoltaic devices. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10355-10364.	10.3	53
102	Lithium dendrite inhibition via 3D porous lithium metal anode accompanied by inherent SEI layer. <i>Energy Storage Materials</i> , 2020, 26, 385-390.	18.0	52
103	Structure/Property Relations in Giant-Semiconductor Nanocrystals: Opportunities in Photonics and Electronics. <i>Accounts of Chemical Research</i> , 2018, 51, 609-618.	15.6	51
104	Single-cluster Au as an usher for deeply cyclable Li metal anodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14496-14503.	10.3	51
105	Quantum Dots-Based Photoelectrochemical Hydrogen Evolution from Water Splitting. <i>Advanced Energy Materials</i> , 2021, 11, 2003233.	19.5	51
106	Photoluminescent silicon nanocrystals synthesized by reactive laser ablation. <i>Applied Physics Letters</i> , 2006, 88, 073105.	3.3	49
107	Environmentally stable light emitting field effect transistors based on 2-(4-pentylstyryl)tetracene. <i>Journal of Materials Chemistry</i> , 2008, 18, 158-161.	6.7	49
108	Adsorption of proteins on nanoporous Ti surfaces. <i>Surface Science</i> , 2010, 604, 1445-1451.	1.9	49

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109	Sustainable sensors from silk. <i>Nature Materials</i> , 2013, 12, 98-100.	27.5	49
110	Ultrafast Microwave Hydrothermal Synthesis of BiFeO_3 Nanoplates. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3155-3162.	3.8	49
111	1,5-, 2,6- and 9,10-distyrylanthracenes as luminescent organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2817.	5.5	48
112	Solution and air stable host/guest architectures from a single layer covalent organic framework. <i>Chemical Communications</i> , 2015, 51, 16510-16513.	4.1	48
113	Ultrasmall PbS quantum dots: a facile and greener synthetic route and their high performance in luminescent solar concentrators. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10250-10260.	10.3	48
114	Photovoltaic effect in multiphase Bi-Mn-O thin films. <i>Optics Express</i> , 2014, 22, A80.	3.4	46
115	Electrospun ceramic nanofibers as 1D solid electrolytes for lithium batteries. <i>Electrochemistry Communications</i> , 2019, 104, 106483.	4.7	46
116	Efficient solar-driven hydrogen generation using colloidal heterostructured quantum dots. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14079-14088.	10.3	46
117	Iodine-assisted antisolvent engineering for stable perovskite solar cells with efficiency $>21.3\%$. <i>Nano Energy</i> , 2020, 67, 104224.	16.0	46
118	“Green”, gradient multi-shell $\text{CuInSe}_2/(\text{CuInSe}_x\text{S}_{1-x})_5/\text{CuInS}_2$ quantum dots for photo-electrochemical hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119402.	20.2	46
119	Nucleation and growth of Si nanocrystals in an amorphous SiO_2 matrix. <i>Physical Review B</i> , 2006, 74, .	3.2	45
120	The elastic moduli of oriented tin oxide nanowires. <i>Nanotechnology</i> , 2009, 20, 115705.	2.6	44
121	Enhanced conversion efficiency in Si solar cells employing photoluminescent down-shifting CdSe/CdS core/shell quantum dots. <i>Scientific Reports</i> , 2017, 7, 14104.	3.3	44
122	Heterostructured quantum dot architectures for efficient and stable photoelectrochemical hydrogen production. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6822-6829.	10.3	44
123	Iron (II) phthalocyanine/N-doped graphene: A highly efficient non-precious metal catalyst for oxygen reduction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18103-18114.	7.1	44
124	Interfacial engineering in colloidal “giant” quantum dots for high-performance photovoltaics. <i>Nano Energy</i> , 2019, 55, 377-388.	16.0	44
125	Asymmetric Silver “Nanocarrot” Structures: Solution Synthesis and Their Asymmetric Plasmonic Resonances. <i>Journal of the American Chemical Society</i> , 2013, 135, 9616-9619.	13.7	43
126	Fluidic patch antenna based on liquid metal alloy/single-wall carbon-nanotubes operating at the S-band frequency. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	43

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127	Ultrasensitive, Biocompatible, Self-Calibrating, Multiparametric Temperature Sensors. <i>Small</i> , 2015, 11, 5741-5746.	10.0	43
128	Nanoporous twinned PtPd with highly catalytic activity and stability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2050-2056.	10.3	43
129	Plasmonic Glasses and Films Based on Alternative Inexpensive Materials for Blocking Infrared Radiation. <i>Nano Letters</i> , 2018, 18, 3147-3156.	9.1	43
130	First-principles study on ZnV ₂ O ₆ and Zn ₂ V ₂ O ₇ : Two new photoanode candidates for photoelectrochemical water oxidation. <i>Ceramics International</i> , 2018, 44, 6607-6613.	4.8	43
131	Efficient and stable photoelectrochemical hydrogen generation using optimized colloidal heterostructured quantum dots. <i>Nano Energy</i> , 2021, 79, 105416.	16.0	43
132	Atomic description of elementary surface processes: diffusion and dynamics. <i>Surface Science</i> , 2002, 500, 395-413.	1.9	42
133	Synthesis of graphene-ZnO nanocomposites by a one-step electrochemical deposition for efficient photocatalytic degradation of organic pollutant. <i>Solid State Sciences</i> , 2019, 98, 106039.	3.2	42
134	Hierarchically Porous Cu-, Co-, and Mn-Doped Platelet-Like ZnO Nanostructures and Their Photocatalytic Performance for Indoor Air Quality Control. <i>ACS Omega</i> , 2019, 4, 16429-16440.	3.5	42
135	Unravelling the Self-Assembly of Hydrogen Bonded NDI Semiconductors in 2D and 3D. <i>Chemistry of Materials</i> , 2016, 28, 951-961.	6.7	41
136	Long-range ordered and atomic-scale control of graphene hybridization by photocycloaddition. <i>Nature Chemistry</i> , 2020, 12, 1035-1041.	13.6	41
137	Tunable hierarchical surfaces of CuO derived from metal-organic frameworks for non-enzymatic glucose sensing. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1512-1525.	6.0	41
138	Nanocrystallization of amorphous germanium films observed with nanosecond temporal resolution. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	40
139	Enhanced photovoltaic properties in bilayer BiFeO ₃ /Bi-Mn-O thin films. <i>Nanotechnology</i> , 2016, 27, 215402.	2.6	40
140	Epitaxial Bi ₂ FeCrO ₆ Multiferroic Thin-Film Photoanodes with Ultrathin p-Type NiO Layers for Improved Solar Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13185-13193.	8.0	40
141	Photocatalytic Activity of ZnV ₂ O ₆ /Reduced Graphene Oxide Nanocomposite: From Theory to Experiment. <i>Journal of the Electrochemical Society</i> , 2018, 165, H353-H359.	2.9	39
142	Controlled synthesis of graphene via electrochemical route and its use as efficient metal-free catalyst for oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 373-380.	20.2	39
143	Synergistic Effect of Plasmonic Gold Nanoparticles Decorated Carbon Nanotubes in Quantum Dots/TiO ₂ for Optoelectronic Devices. <i>Advanced Science</i> , 2020, 7, 2001864.	11.2	39
144	A novel approach to the synthesis of photoluminescent germanium nanoparticles by reactive laser ablation. <i>Nanotechnology</i> , 2006, 17, 2152-2155.	2.6	38

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145	Shape-controlled synthesis of ruthenium nanocrystals and their catalytic applications. <i>New Journal of Chemistry</i> , 2014, 38, 1827-1833.	2.8	38
146	Hybrid TiO ₂ -Graphene nanoribbon photoanodes to improve the photoconversion efficiency of dye sensitized solar cells. <i>Journal of Power Sources</i> , 2018, 396, 566-573.	7.8	38
147	Highly stable photoelectrochemical cells for hydrogen production using a SnO ₂ •TiO ₂ /quantum dot heterostructured photoanode. <i>Nanoscale</i> , 2018, 10, 15273-15284.	5.6	38
148	Two-Dimensional Self-Assembly of a Symmetry-Reduced Tricarboxylic Acid. <i>Langmuir</i> , 2013, 29, 7318-7324.	3.5	37
149	Ordered Assembly of $\hat{\pm}$ -Quinquethiophene on a Copper Oxide Nanotemplate. <i>Small</i> , 2006, 2, 1366-1371.	10.0	36
150	Photovoltaic Properties of Multiferroic BiFeO ₃ /BiCrO ₃ Heterostructures. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1837-1840.	3.8	36
151	Platinum/Palladium hollow nanofibers as high-efficiency counter electrodes for enhanced charge transfer. <i>Journal of Power Sources</i> , 2016, 335, 138-145.	7.8	36
152	Highly efficient and stable spray assisted nanostructured Cu ₂ S/Carbon paper counter electrode for quantum dots sensitized solar cells. <i>Journal of Power Sources</i> , 2019, 436, 226849.	7.8	36
153	Insight into phosphate doped BiVO ₄ heterostructure for multifunctional photocatalytic performances: A combined experimental and DFT study. <i>Applied Surface Science</i> , 2019, 466, 787-800.	6.1	36
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