Federico Rosei

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1667213/publications.pdf

Version: 2024-02-01

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	Electrophoretic deposition of collagen/chitosan films with copper-doped phosphate glasses for orthopaedic implants. Journal of Colloid and Interface Science, 2022, 607, 869-880.	9.4	17
2	Role of surface engineering of hybrid structure for high performance quantum dots based photoelectrochemical hydrogen generation. Chemical Engineering Journal, 2022, 429, 132425.	12.7	14
3	Coordinating light management and advance metal nitride interlayer enables MAPbI3 solar cells with >21.8% efficiency. Nano Energy, 2022, 92, 106765.	16.0	13
4	Temperature-Dependence Photoelectrochemical Hydrogen Generation Based on Alloyed Quantum Dots. Journal of Physical Chemistry C, 2022, 126, 174-182.	3.1	11
5	Ternary organic solar cells: A review of the role of the third element. Nano Energy, 2022, 94, 106915.	16.0	87
6	Role of Interfacial Engineering of â€œGiantâ€•Coreâ€“Shell Quantum Dots. ACS Applied Energy Materials, 2022, 5, 1447-1459.	5.1	14
7	Bidirectional Phase Transformation of Supramolecular Networks Using Two Molecular Signals. ACS Nano, 2022, 16, 1560-1566.	14.6	1
8	Structural effect of Low-dimensional carbon nanostructures on Long-term stability of dye sensitized solar cells. Chemical Engineering Journal, 2022, 435, 135037.	12.7	11
9	Influence of Ti^{IV} substitution on the properties of a Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ nanofiber-based solid electrolyte. Nanoscale, 2022, 14, 5094-5101.	5.6	4
10	Platinum Cluster/Carbon Quantum Dots Derived Graphene Heterostructured Carbon Nanofibers for Efficient and Durable Solarâ€Driven Electrochemical Hydrogen Evolution. Small Methods, 2022, 6, e2101470.	8.6	72
11	Probing the Thermodynamics of MoirÃ© Patterns in Molecular Self-Assembly at the Liquidâ€“Solid Interface. Chemistry of Materials, 2022, 34, 2449-2457.	6.7	3
12	A Flexible Electrochemical Biosensor Based on NdNiO₃ Nanotubes for Ascorbic Acid Detection. ACS Applied Nano Materials, 2022, 5, 3394-3405.	5.0	12
13	Tandem Desulfurization/Câ€“C Coupling Reaction of Tetrathienylbenzenes on Cu(111): Synthesis of Pentacene and an Exotic Ladder Polymer. ACS Nano, 2022, 16, 6506-6514.	14.6	7
14	Enhanced Hydrogen Storage Properties of LiAlH₄ by Excellent Catalytic Activity of XTiO₃@hâ€BN (X = Co, Ni). Advanced Functional Materials, 2022, 32, .	14.9	11
15	Brewery spent grain derived carbon dots for metal sensing. RSC Advances, 2022, 12, 11621-11627.	3.6	7
16	Design of MOFâ€Derived NiOâ€Carbon Nanohybrids Photocathodes Sensitized with Quantum Dots for Solar Hydrogen Production. Small, 2022, 18, e2201815.	10.0	4
17	Constructing quantum dots sensitized TiO2 nanotube p-n heterojunction for photoelectrochemical hydrogen generation. Chemical Engineering Journal, 2022, 446, 137312.	12.7	18
18	Onâ€Surface Synthesis of Unsaturated Hydrocarbon Chains through Câ€“S Activation. Chemistry - A European Journal, 2022, 28, .	3.3	6

#	Article	IF	Citations
19	Shape-stabilized phase change composites enabled by lightweight and bio-inspired interconnecting carbon aerogels for efficient energy storage and photo-thermal conversion. Journal of Materials Chemistry A, 2022, 10, 13556-13569.	10.3	20
20	Heterostructured core/gradient multi-shell quantum dots for high-performance and durable photoelectrochemical hydrogen generation. Nano Energy, 2022, 100, 107524.	16.0	11
21	Alternative Uses of Luminescent Solar Concentrators. Nanoenergy Advances, 2022, 2, 222-240.	7.7	7
22	Allâ€Ambientâ€Processed CuSCN as an Inexpensive Alternative to Spiroâ€OMeTAD for Perovskiteâ€Based Devices. Energy Technology, 2021, 9, .	3.8	8
23	BiVO4 ceramics for high-sensitivity and high-temperature optical thermometry. Journal of Luminescence, 2021, 230, 117739.	3.1	9
24	â€œGreenâ€, gradient multi-shell CuInSe2/(CuInSexS1-x)5/CuInS2 quantum dots for photo-electrochemical hydrogen generation. Applied Catalysis B: Environmental, 2021, 280, 119402.	20.2	46
25	Efficient and stable photoelectrochemical hydrogen generation using optimized colloidal heterostructured quantum dots. Nano Energy, 2021, 79, 105416.	16.0	43
26	Nanoelectromagnetic of a highly conductive 2D transition metal carbide (MXene)/Graphene nanoplatelets composite in the EHF M-band frequency. Carbon, 2021, 173, 528-539.	10.3	28
27	Ferroelectric polarization-enhanced charge separation in quantum dots sensitized semiconductor hybrid for photoelectrochemical hydrogen production. Nano Energy, 2021, 81, 105626.	16.0	23
28	Gold nanoparticle decorated carbon nanotube nanocomposite for dye-sensitized solar cell performance and stability enhancement. Chemical Engineering Journal, 2021, 421, 127756.	12.7	20
29	A solution to break the salt barrier for high-rate sustainable solar desalination. Energy and Environmental Science, 2021, 14, 2451-2459.	30.8	87
30	Semi-transparent luminescent solar concentrators based on plasmon-enhanced carbon dots. Journal of Materials Chemistry A, 2021, 9, 23345-23352.	10.3	23
31	Bidirectional Superionic Conduction in Surface-Engineered 2D Hexagonal Boron Nitrides. ACS Applied Materials & Interfaces, 2021, 13, 6532-6544.	8.0	10
32	Effect of pressure on the properties of a NASICON Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃ nanofiber solid electrolyte. Journal of Materials Chemistry A, 2021, 9, 13688-13696.	10.3	15
33	Rational synthesis of novel â€œgiantâ€•CuInTeSe/CdS core/shell quantum dots for optoelectronics. Nanoscale, 2021, 13, 15301-15310.	5.6	3
34	Preferred Film Orientation to Achieve Stable and Efficient Snâ€“Pb Binary Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 10822-10836.	8.0	16
35	Quantum Dots: Quantum Dotsâ€Based Photoelectrochemical Hydrogen Evolution from Water Splitting (Adv. Energy Mater. 12/2021). Advanced Energy Materials, 2021, 11, 2170047.	19.5	2
36	Oxygen-promoted synthesis of armchair graphene nanoribbons on Cu(111). Science China Chemistry, 2021, 64, 636-641.	8.2	8

#	Article	IF	Citations
37	Structure/Property Control in Photocatalytic Organic Semiconductor Nanocrystals. Advanced Functional Materials, 2021, 31, 2104099.	14.9	31
38	Onâ€Surface Decarboxylation Coupling Facilitated by Lockâ€toâ€Unlock Variation of Molecules upon the Reaction. Angewandte Chemie - International Edition, 2021, 60, 17435-17439.	13.8	12
39	Mo-doped ZnV2O6/reduced graphene oxide photoanodes for solar hydrogen production. Electrochimica Acta, 2021, 382, 138333.	5.2	11
40	Modulating the 0D/2D Interface of Hybrid Semiconductors for Enhanced Photoelectrochemical Performances. Small Methods, 2021, 5, e2100109.	8.6	14
41	Onâ€Surface Decarboxylation Coupling Facilitated by Lockâ€toâ€Unlock Variation of Molecules upon the Reaction. Angewandte Chemie, 2021, 133, 17575-17579.	2.0	2
42	Ultrafast and high-efficient self-healing epoxy coatings with active multiple hydrogen bonds for corrosion protection. Corrosion Science, 2021, 187, 109485.	6.6	56
43	Identification of Topotactic Surfaceâ€Confined Ullmannâ€Polymerization. Small, 2021, 17, e2103044.	10.0	9
44	High efficiency photoelectrochemical hydrogen generation using eco-friendly Cu doped Zn-In-Se colloidal quantum dots. Nano Energy, 2021, 88, 106220.	16.0	23
45	Highly stable air processed perovskite solar cells by interfacial layer engineering. Chemical Engineering Journal, 2021, 423, 130334.	12.7	11
46	Unlocking the effects of Cu doping in heavy-metal-free AgIn₅S₈ quantum dots for highly efficient photoelectrochemical solar energy conversion. Journal of Materials Chemistry C, 2021, 9, 9610-9618.	5.5	10
47	Multielement synergetic effect of NiFe₂O₄and h-BN for improving the dehydrogenation properties of LiAlH₄. Inorganic Chemistry Frontiers, 2021, 8, 3111-3126.	6.0	16
48	Quantum Dotsâ€Based Photoelectrochemical Hydrogen Evolution from Water Splitting. Advanced Energy Materials, 2021, 11, 2003233.	19.5	51
49	Failure analysis of self-healing epoxy resins using microencapsulated 5E2N and carbon nanotubes. Smart Materials and Structures, 2021, 30, 025011.	3.5	5
50	A graphene-like nanoribbon for efficient bifunctional electrocatalysts. Journal of Materials Chemistry A, 2021, 9, 26688-26697.	10.3	10
51	Synthesis of Electrospun NASICON Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ Solid Electrolyte Nanofibers by Control of Germanium Hydrolysis. Journal of the Electrochemical Society, 2021, 168, 110512.	2.9	6
52	Atomic Identification of Interfaces in Individual Core@shell Quantum Dots. Advanced Science, 2021, 8, e2102784.	11.2	14
53	Review of Hybrid 1D/2D Photocatalysts for Light-Harvesting Applications. ACS Applied Nano Materials, 2021, 4, 11323-11352.	5.0	36
54	Catalytic Hydrogen Evolution of NaBH4 Hydrolysis by Cobalt Nanoparticles Supported on Bagasse-Derived Porous Carbon. Nanomaterials, 2021, 11, 3259.	4.1	21

#	Article	IF	Citations
55	Graphene nanoribbon-TiO2-quantum dots hybrid photoanode to boost the performance of photoelectrochemical for hydrogen generation. Catalysis Today, 2020, 340, 161-169.	4.4	15
56	Iodine-assisted antisolvent engineering for stable perovskite solar cells with efficiency >21.3 %. Nano Energy, 2020, 67, 104224.	16.0	46
57	Lithium dendrite inhibition via 3D porous lithium metal anode accompanied by inherent SEI layer. Energy Storage Materials, 2020, 26, 385-390.	18.0	52
58	Phase-junction design of MOF-derived TiO2 photoanodes sensitized with quantum dots for efficient hydrogen generation. Applied Catalysis B: Environmental, 2020, 263, 118317.	20.2	63
59	MoS2-supported on free-standing TiO2-nanotubes for efficient hydrogen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 4468-4480.	7.1	14
60	Eco-friendly quantum dots for liquid luminescent solar concentrators. Journal of Materials Chemistry A, 2020, 8, 1787-1798.	10.3	34
61	Efficient and stable hydrogen evolution based on earth-abundant SnSe nanocrystals. Applied Catalysis B: Environmental, 2020, 264, 118526.	20.2	16
62	Long-range ordered and atomic-scale control of graphene hybridization by photocycloaddition. Nature Chemistry, 2020, 12, 1035-1041.	13.6	41
63	A modified â€˜skeleton/skinâ€™ strategy for designing CoNiP nanosheets arrayed on graphene foam for on/off switching of NaBH₄ hydrolysis. RSC Advances, 2020, 10, 26834-26842.	3.6	11
64	Low-Cost, Air-Processed Quantum Dot Solar Cells via Diffusion-Controlled Synthesis. ACS Applied Materials & Interfaces, 2020, 12, 36301-36310.	8.0	9
65	Hybrid surface passivation of PbS/CdS quantum dots for efficient photoelectrochemical hydrogen generation. Applied Surface Science, 2020, 530, 147252.	6.1	20
66	An â€˜ice-meltingâ€™ kinetic control strategy for highly photocatalytic organic nanocrystals. Journal of Materials Chemistry A, 2020, 8, 25275-25282.	10.3	7
67	Oxygenâ€induced 1D to 2D Transformation of Onâ€surface Organometallic Structures. Small, 2020, 16, 2002393.	10.0	6
68	Nature and Chinese Art Inspire Materials for Light Harvesting. Matter, 2020, 3, 24-26.	10.0	1
69	Water-dispersible polyaniline/graphene oxide counter electrodes for dye-sensitized solar cells: Influence of synthesis route on the device performance. Solar Energy, 2020, 207, 1202-1213.	6.1	21
70	Four-fold multifunctional properties in self-organized layered ferrite. Ceramics International, 2020, 46, 28621-28630.	4.8	0
71	Synergistic Effect of Plasmonic Gold Nanoparticles Decorated Carbon Nanotubes in Quantum Dots/TiO₂ for Optoelectronic Devices. Advanced Science, 2020, 7, 2001864.	11.2	39
72	High performance BiFeO3 ferroelectric nanostructured photocathodes. Journal of Chemical Physics, 2020, 153, 084705.	3.0	17

#	Article	IF	Citations
73	Two-dimensional functionalized hexagonal boron nitride for quantum dot photoelectrochemical hydrogen generation. Journal of Materials Chemistry A, 2020, 8, 20698-20713.	10.3	16
74	Synthesis of mesoscale ordered two-dimensional Ï€-conjugated polymers with semiconducting properties. Nature Materials, 2020, 19, 874-880.	27.5	158
75	One-pot synthesis of theranostic nanocapsules with lanthanide doped nanoparticles. Chemical Science, 2020, 11, 6653-6661.	7.4	13
76	Tailoring the Heterostructure of Colloidal Quantum Dots for Ratiometric Optical Nanothermometry. Small, 2020, 16, e2000804.	10.0	24
77	Inhibition of nucleation and crystal growth of calcium carbonate in hard waters using Paronychia arabica in an arid desert region. Water and Environment Journal, 2020, 34, 979-987.	2.2	4
78	High-Response, Ultrafast-Speed, and Self-Powered Photodetection Achieved in InP@ZnS-MoS₂ Phototransistors with Interdigitated Pt Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 31382-31391.	8.0	22
79	Solution-Processed p-Type Copper Thiocyanate (CuSCN) Enhanced Sensitivity of PbS-Quantum-Dots-Based Photodiode. ACS Photonics, 2020, 7, 1628-1635.	6.6	8
80	Surface-confined single-layer covalent organic frameworks: design, synthesis and application. Chemical Society Reviews, 2020, 49, 2020-2038.	38.1	73
81	Tunable hierarchical surfaces of CuO derived from metalâ€“organic frameworks for non-enzymatic glucose sensing. Inorganic Chemistry Frontiers, 2020, 7, 1512-1525.	6.0	41
82	Synthesis of highly efficient Cu2ZnSnSxSe4â˜'x (CZTSSe) nanosheet electrocatalyst for dye-sensitized solar cells. Electrochimica Acta, 2020, 340, 135954.	5.2	18
83	Recovery of electro-mechanical properties inside self-healing composites through microencapsulation of carbon nanotubes. Scientific Reports, 2020, 10, 2973.	3.3	22
84	1D/2D Cobaltâ€Based Nanohybrids as Electrocatalysts for Hydrogen Generation. Advanced Functional Materials, 2020, 30, 1908467.	14.9	25
85	Core/Shell Quantum Dots Solar Cells. Advanced Functional Materials, 2020, 30, 1908762.	14.9	98
86	Role of Carbon Nanotubes to Enhance the Long-Term Stability of Dye-Sensitized Solar Cells. ACS Photonics, 2020, 7, 653-664.	6.6	17
87	Encapsulated cobalt nanoparticles as a recoverable catalyst for the hydrolysis of sodium borohydride. Energy Storage Materials, 2020, 27, 187-197.	18.0	72
88	Electron transfer in a semiconductor heterostructure interface through electrophoretic deposition and a linker-assisted method. CrystEngComm, 2020, 22, 1664-1673.	2.6	8
89	Environmentally friendly Mn-alloyed core/shell quantum dots for high-efficiency photoelectrochemical cells. Journal of Materials Chemistry A, 2020, 8, 10736-10741.	10.3	33
90	Encapsulation of Dual Emitting Giant Quantum Dots in Silica Nanoparticles for Optical Ratiometric Temperature Nanosensors. Applied Sciences (Switzerland), 2020, 10, 2767.	2.5	11

#	Article	IF	Citations
91	Hybrid graphene/metal oxide anodes for efficient and stable dye sensitized solar cell. Electrochimica Acta, 2020, 349, 136409.	5.2	32
92	Mesenchymal Stem Cell-Laden Hydrogel Microfibers for Promoting Nerve Fiber Regeneration in Long-Distance Spinal Cord Transection Injury. ACS Biomaterials Science and Engineering, 2020, 6, 1165-1175.	5.2	32
93	Hybrid PCDTBT:PCBM:Graphene-Nanoplatelet Photoabsorbers. Journal of the Electrochemical Society, 2020, 167, 136504.	2.9	7
94	Near-Infrared Colloidal Manganese-Doped Quantum Dots: Photoluminescence Mechanism and Temperature Response. ACS Photonics, 2019, 6, 2421-2431.	6.6	20
95	Silk fibroin-derived polypeptides additives to promote hydroxyapatite nucleation in dense collagen hydrogels. PLoS ONE, 2019, 14, e0219429.	2.5	12
96	Highly efficient and stable spray assisted nanostructured Cu2S/Carbon paper counter electrode for quantum dots sensitized solar cells. Journal of Power Sources, 2019, 436, 226849.	7.8	36
97	Epitaxial patterned Bi₂FeCrO₆nanoisland arrays with room temperature multiferroic properties. Nanoscale Advances, 2019, 1, 2139-2145.	4.6	6
98	Planar Anchoring of C₇₀ Liquid Crystals Using a Covalent Organic Framework Template. Small, 2019, 15, e1903294.	10.0	8
99	Synthesis of grapheneâ€“ZnO nanocomposites by a one-step electrochemical deposition for efficient photocatalytic degradation of organic pollutant. Solid State Sciences, 2019, 98, 106039.	3.2	42
100	Enhanced Photocurrent Generation in Protonâ€Irradiated â€œGiantâ€•CdSe/CdS Core/Shell Quantum Dots. Advanced Functional Materials, 2019, 29, 1904501.	14.9	20
101	Visible and Near-Infrared, Multiparametric, Ultrasensitive Nanothermometer Based on Dual-Emission Colloidal Quantum Dots. ACS Photonics, 2019, 6, 2479-2486.	6.6	35
102	Temperature-induced molecular reorganization on Au(111) driven by oligomeric defects. Nanoscale, 2019, 11, 19468-19476.	5.6	9
103	Hierarchically Porous Cu-, Co-, and Mn-Doped Platelet-Like ZnO Nanostructures and Their Photocatalytic Performance for Indoor Air Quality Control. ACS Omega, 2019, 4, 16429-16440.	3.5	42
104	Mega High Utilization of Sodium Metal Anodes Enabled by Single Zinc Atom Sites. Nano Letters, 2019, 19, 7827-7835.	9.1	86
105	A colloidal heterostructured quantum dot sensitized carbon nanotubeâ€“TiO₂ hybrid photoanode for high efficiency hydrogen generation. Nanoscale Horizons, 2019, 4, 404-414.	8.0	33
106	Electrospun ceramic nanofibers as 1D solid electrolytes for lithium batteries. Electrochemistry Communications, 2019, 104, 106483.	4.7	46
107	Single-cluster Au as an usher for deeply cyclable Li metal anodes. Journal of Materials Chemistry A, 2019, 7, 14496-14503.	10.3	51
108	Morphology Control of Lanthanide Doped NaGdF₄ Nanocrystals via One-Step Thermolysis. Chemistry of Materials, 2019, 31, 5160-5171.	6.7	31

#	Article	IF	Citations
109	Iron (II) phthalocyanine/N-doped graphene: A highly efficient non-precious metal catalyst for oxygen reduction. International Journal of Hydrogen Energy, 2019, 44, 18103-18114.	7.1	44
110	Hole-extraction and photostability enhancement in highly efficient inverted perovskite solar cells through carbon dot-based hybrid material. Nano Energy, 2019, 62, 781-790.	16.0	83
111	Efficient solar-driven hydrogen generation using colloidal heterostructured quantum dots. Journal of Materials Chemistry A, 2019, 7, 14079-14088.	10.3	46
112	PLLA scaffolds with controlled architecture as potential microenvironment for in vitro tumor model. Tissue and Cell, 2019, 58, 33-41.	2.2	23
113	Surface-mediated assembly, polymerization and degradation of thiophene-based monomers. Chemical Science, 2019, 10, 5167-5175.	7.4	28
114	An unexpected organometallic intermediate in surface-confined Ullmann coupling. Nanoscale, 2019, 11, 7682-7689.	5.6	29
115	Epitaxial Bi₂FeCrO₆ Multiferroic Thin-Film Photoanodes with Ultrathin p-Type NiO Layers for Improved Solar Water Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 13185-13193.	8.0	40
116	Self-assembly of 5,6-dihydroxyindole-2-carboxylic acid: polymorphism of a eumelanin building block on Au(111). Nanoscale, 2019, 11, 5422-5428.	5.6	9
117	Effects of Fe concentration on properties of ZnO nanostructures and their application to photocurrent generation. Solid State Sciences, 2019, 92, 76-80.	3.2	32
118	Ultra-small colloidal heavy-metal-free nanoplatelets for efficient hydrogen generation. Applied Catalysis B: Environmental, 2019, 250, 234-241.	20.2	14
119	Direct on-surface synthesis of goldâ€“phthalocyanine via cyclization of cyano-groups with gold adatoms. Materials Chemistry Frontiers, 2019, 3, 1406-1410.	5.9	3
120	Covalent organic frameworks from a monomer with reduced symmetry: polymorphism and SierpiÅ„ski triangles. Chemical Communications, 2019, 55, 13586-13589.	4.1	17
121	3D low toxicity Cuâ€“Pb binary perovskite films and their photoluminescent/photovoltaic performance. Journal of Materials Chemistry A, 2019, 7, 27225-27235.	10.3	34
122	A bridge for charge carriers. Nature Energy, 2019, 4, 910-911.	39.5	0
123	Two-dimensional polymers grow up. Science, 2019, 366, 1308-1309.	12.6	8
124	Epitaxial growth and defect repair of heterostructured CuInSe_xS_{2â^'x}/CdSeS/CdS quantum dots. Nanoscale, 2019, 11, 19529-19535.	5.6	3
125	Highly Compact TiO₂ Films by Spray Pyrolysis and Application in Perovskite Solar Cells. Advanced Engineering Materials, 2019, 21, 1801196.	3.5	33
126	Graphene oxide/cobalt-based nanohybrid electrodes for robust hydrogen generation. Applied Catalysis B: Environmental, 2019, 245, 167-176.	20.2	21

#	Article	IF	Citations
127	CuS/Graphene Nanocomposite as a Transparent Conducting Oxide and Pt-Free Counter Electrode for Dye-Sensitized Solar Cells. Journal of the Electrochemical Society, 2019, 166, H3065-H3073.	2.9	22
128	Interfacial engineering in colloidal â€œgiantâ€•quantum dots for high-performance photovoltaics. Nano Energy, 2019, 55, 377-388.	16.0	44
129	Controlled synthesis of graphene via electrochemical route and its use as efficient metal-free catalyst for oxygen reduction. Applied Catalysis B: Environmental, 2019, 243, 373-380.	20.2	39
130	Enhanced stability of higher UV-densified Fiber Bragg Gratings after thermal regeneration. Optics Communications, 2019, 435, 345-349.	2.1	4
131	Insight into phosphate doped BiVO4 heterostructure for multifunctional photocatalytic performances: A combined experimental and DFT study. Applied Surface Science, 2019, 466, 787-800.	6.1	36
132	Heterostructured quantum dot architectures for efficient and stable photoelectrochemical hydrogen production. Journal of Materials Chemistry A, 2018, 6, 6822-6829.	10.3	44
133	Plasmonic Glasses and Films Based on Alternative Inexpensive Materials for Blocking Infrared Radiation. Nano Letters, 2018, 18, 3147-3156.	9.1	43
134	Towards Longâ€Term Thermal Stability of Dyeâ€Sensitized Solar Cells Using Multiwalled Carbon Nanotubes. ChemPlusChem, 2018, 83, 682-690.	2.8	18
135	Improved photovoltaic performance from inorganic perovskite oxide thin films with mixed crystal phases. Nature Photonics, 2018, 12, 271-276.	31.4	84
136	Structure/Property Relations in â€œGiantâ€•Semiconductor Nanocrystals: Opportunities in Photonics and Electronics. Accounts of Chemical Research, 2018, 51, 609-618.	15.6	51
137	Dual Template Engaged Synthesis of Hollow Ballâ€inâ€Tube Asymmetrical Structured Ceria. Particle and Particle Systems Characterization, 2018, 35, 1700367.	2.3	3
138	Blocking germanium diffusion inside silicon dioxide using a co-implanted silicon barrier. Journal of Applied Physics, 2018, 123, .	2.5	5
139	First-principles study on ZnV2O6 and Zn2V2O7: Two new photoanode candidates for photoelectrochemical water oxidation. Ceramics International, 2018, 44, 6607-6613.	4.8	43
140	Highly Sensitive Switchable Heterojunction Photodiode Based on Epitaxial Bi₂FeCrO₆ Multiferroic Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 12790-12797.	8.0	31
141	Nearâ€Infrared, Heavy Metalâ€Free Colloidal â€œGiantâ€•Core/Shell Quantum Dots. Advanced Energy Materials, 2018, 8, 1701432.	19.5	90
142	Colloidal carbon dots based highly stable luminescent solar concentrators. Nano Energy, 2018, 44, 378-387.	16.0	150
143	Upconverting nanocomposites with combined photothermal and photodynamic effects. Nanoscale, 2018, 10, 791-799.	5.6	61
144	Template-Driven Dense Packing of Pentagonal Molecules in Monolayer Films. Nano Letters, 2018, 18, 7570-7575.	9.1	11

#	Article	IF	Citations
145	Direct Measurement of Electronic Band Structure in Single Quantum Dots of Metal Chalcogenide Composites. Small, 2018, 14, e1801668.	10.0	18
146	Tailoring the interfacial structure of colloidal â€œgiantâ€•quantum dots for optoelectronic applications. Nanoscale, 2018, 10, 17189-17197.	5.6	22
147	Hybrid TiO2-Graphene nanoribbon photoanodes to improve the photoconversion efficiency of dye sensitized solar cells. Journal of Power Sources, 2018, 396, 566-573.	7.8	38
148	Optoelectronic Properties in Nearâ€Infrared Colloidal Heterostructured Pyramidal â€œGiantâ€•Core/Shell Quantum Dots. Advanced Science, 2018, 5, 1800656.	11.2	63
149	Supramolecular Assemblies on Surfaces: Nanopatterning, Functionality, and Reactivity. ACS Nano, 2018, 12, 7445-7481.	14.6	225
150	Highly stable photoelectrochemical cells for hydrogen production using a SnO₂â€“TiO₂/quantum dot heterostructured photoanode. Nanoscale, 2018, 10, 15273-15284.	5.6	38
151	Probing functional self-assembled molecular architectures with solution/solid scanning tunnelling microscopy. Chemical Communications, 2018, 54, 10527-10539.	4.1	27
152	Room-temperature surface-assisted reactivity of a melanin precursor: silver metalâ€“organic coordination versus covalent dimerization on gold. Nanoscale, 2018, 10, 16721-16729.	5.6	23
153	Photocatalytic Activity of ZnV₂O₆/Reduced Graphene Oxide Nanocomposite: From Theory to Experiment. Journal of the Electrochemical Society, 2018, 165, H353-H359.	2.9	39
154	Solvent-Antisolvent Ambient Processed Large Grain Size Perovskite Thin Films for High-Performance Solar Cells. Scientific Reports, 2018, 8, 12885.	3.3	109
155	Cure kinetics of poly (5-ethylidene-2-norbornene) with 2nd generation Hoveyda-Grubbsâ€™ catalyst for self-healing applications. Polymer, 2018, 153, 1-8.	3.8	10
156	Efficient and stable tandem luminescent solar concentrators based on carbon dots and perovskite quantum dots. Nano Energy, 2018, 50, 756-765.	16.0	170
157	Harnessing the properties of colloidal quantum dots in luminescent solar concentrators. Chemical Society Reviews, 2018, 47, 5866-5890.	38.1	169
158	Multifunctional Materials For Emerging Solar Technologies. , 2018, , .		0
159	Nanoporous copper-cobalt mixed oxide nanorod bundles as high performance pseudocapacitive electrodes. Journal of Electroanalytical Chemistry, 2017, 787, 24-35.	3.8	35
160	Efficient Upconverting Multiferroic Core@Shell Photocatalysts: Visible-to-Near-Infrared Photon Harvesting. ACS Applied Materials & Interfaces, 2017, 9, 8142-8150.	8.0	79
161	Nanofiber-Structured TiO2Nanocrystals as a Scattering Layer in Dye-Sensitized Solar Cells. ECS Journal of Solid State Science and Technology, 2017, 6, N32-N37.	1.8	10
162	Organic analogues of graphene. Nature, 2017, 542, 423-424.	27.8	28

#	Article	IF	Citations
163	Enhanced radiation resistance of near-infrared photoluminescence emission induced by Er/Si nanoclustering. Materials and Design, 2017, 126, 57-63.	7.0	1
164	The role of halogens in on-surface Ullmann polymerization. Faraday Discussions, 2017, 204, 453-469.	3.2	54
165	2D Supramolecular networks of dibenzonitrilediacetylene on Ag(111) stabilized by intermolecular hydrogen bonding. Physical Chemistry Chemical Physics, 2017, 19, 10602-10610.	2.8	6
166	Benzene and Pyridine on Silicon (001): A Trial Ground for Long-Range Corrections in Density Functional Theory. Journal of Physical Chemistry C, 2017, 121, 10484-10500.	3.1	2
167	Multiferroic Bi₂FeCrO₆ based pâ€“iâ€“n heterojunction photovoltaic devices. Journal of Materials Chemistry A, 2017, 5, 10355-10364.	10.3	53
168	Perovskite quantum dots integrated in large-area luminescent solar concentrators. Nano Energy, 2017, 37, 214-223.	16.0	155
169	Ultrasmall Nanoplatelets: The Ultimate Tuning of Optoelectronic Properties. Advanced Energy Materials, 2017, 7, 1602728.	19.5	30
170	Ultrasmall PbS quantum dots: a facile and greener synthetic route and their high performance in luminescent solar concentrators. Journal of Materials Chemistry A, 2017, 5, 10250-10260.	10.3	48
171	Epitaxial magnetite nanorods with enhanced room temperature magnetic anisotropy. Nanoscale, 2017, 9, 7858-7867.	5.6	27
172	Combined magnetron sputtering and pulsed laser deposition of TiO 2 and BFCO thin films. Scientific Reports, 2017, 7, 2503.	3.3	34
173	Selective binding in different adsorption sites of a 2D covalent organic framework. CrystEngComm, 2017, 19, 4927-4932.	2.6	27
174	Manipulation of charge transfer in vertically aligned epitaxial ferroelectric KNbO3 nanowire array photoelectrodes. Nano Energy, 2017, 35, 92-100.	16.0	67
175	Control of Fullerene Crystallization from 2D to 3D through Combined Solvent and Template Effects. Journal of the American Chemical Society, 2017, 139, 16732-16740.	13.7	35
176	Enhanced conversion efficiency in Si solar cells employing photoluminescent down-shifting CdSe/CdS core/shell quantum dots. Scientific Reports, 2017, 7, 14104.	3.3	44
177	Dual emission and optical gain in PbS/CdS nanocrystals: Role of shell volume and of core/shell interface. Physical Review B, 2017, 96, .	3.2	14
178	Controlled synthesis of near-infrared quantum dots for optoelectronic devices. Nanoscale, 2017, 9, 16843-16851.	5.6	17
179	Probing properties of molecule-based interface systems: general discussion and Discussion of the Concluding Remarks. Faraday Discussions, 2017, 204, 503-530.	3.2	0
180	A low-loss origami plasmonic waveguide. Science, 2017, 357, 452-453.	12.6	7

#	Article	IF	Citations
181	Photoelectrochemical properties of BiMnO 3 thin films and nanostructures. Journal of Power Sources, 2017, 365, 162-168.	7.8	25
182	Nanoelectromagnetic of the N-doped single wall carbon nanotube in the extremely high frequency band. Nanoscale, 2017, 9, 14192-14200.	5.6	8
183	Colloidal Quantum Dots for Solar Technologies. CheM, 2017, 3, 229-258.	11.7	107
184	A 2D Substitutional Solid Solution through Hydrogen Bonding of Molecular Building Blocks. ACS Nano, 2017, 11, 8901-8909.	14.6	35
185	Highly Stable Colloidal â€œGiantâ€•Quantum Dots Sensitized Solar Cells. Advanced Functional Materials, 2017, 27, 1701468.	14.9	92
186	Nanofiber-supported CuS nanoplatelets as high efficiency counter electrodes for quantum dot-based photoelectrochemical hydrogen production. Materials Chemistry Frontiers, 2017, 1, 65-72.	5.9	22
187	Heavy metal-free, near-infrared colloidal quantum dots for efficient photoelectrochemical hydrogen generation. Nano Energy, 2017, 31, 441-449.	16.0	116
188	Development of regenerated fiber Bragg grating sensors with long-term stability. Optics Express, 2016, 24, 21897.	3.4	26
189	Luminescent Solar Concentrators: Near Infrared, Highly Efficient Luminescent Solar Concentrators (Adv. Energy Mater. 11/2016). Advanced Energy Materials, 2016, 6, .	19.5	1
190	Near Infrared, Highly Efficient Luminescent Solar Concentrators. Advanced Energy Materials, 2016, 6, 1501913.	19.5	161
191	High efficiency, Pt-free photoelectrochemical cells for solar hydrogen generation based on â€œgiantâ€• quantum dots. Nano Energy, 2016, 27, 265-274.	16.0	103
192	Influence of photo-luminescent CdSe/CdS core shell quantum dots in solar cell efficiency. Journal of Physics: Conference Series, 2016, 773, 012088.	0.4	2
193	Functionalized multi-wall carbon nanotubes/TiO₂ composites as efficient photoanodes for dye sensitized solar cells. Journal of Materials Chemistry C, 2016, 4, 3555-3562.	5.5	68
194	Facile Synthesis of Nanosheet-like CuO Film and its Potential Application as a High-Performance Pseudocapacitor Electrode. Electrochimica Acta, 2016, 198, 220-230.	5.2	77
195	Electrical and Optical Properties of Transparent Conducting pâ€Type SrTiO₃ Thin Films. Journal of the American Ceramic Society, 2016, 99, 226-233.	3.8	14
196	Multifunctional Liposome Nanocarriers Combining Upconverting Nanoparticles and Anticancer Drugs. Journal of Physical Chemistry B, 2016, 120, 4992-5001.	2.6	58
197	Asymmetry in supramolecular assembly. Science, 2016, 353, 1098-1099.	12.6	6
198	Solar Concentrators: Absorption Enhancement in â€œGiantâ€•Core/Alloyed-Shell Quantum Dots for Luminescent Solar Concentrator (Small 38/2016). Small, 2016, 12, 5368-5368.	10.0	1

#	Article	IF	Citations
199	Absorption Enhancement in â€œGiantâ€•Core/Alloyed-Shell Quantum Dots for Luminescent Solar Concentrator. Small, 2016, 12, 5354-5365.	10.0	112
200	Physical aspects of ferroelectric semiconductors for photovoltaic solar energy conversion. Physics Reports, 2016, 653, 1-40.	25.6	166
201	Interfacial reaction-directed synthesis of a ceria nanotube-embedded ultra-small Pt nanoparticle catalyst with high catalytic activity and thermal stability. Journal of Materials Chemistry A, 2016, 4, 14148-14154.	10.3	34
202	Mechanistic Picture and Kinetic Analysis of Surface-Confined Ullmann Polymerization. Journal of the American Chemical Society, 2016, 138, 16696-16702.	13.7	81
203	Green synthesis of near infrared core/shell quantum dots for photocatalytic hydrogen production. Nanotechnology, 2016, 27, 495405.	2.6	25
204	Engineering interfacial structure in â€œGiantâ€•PbS/CdS quantum dots for photoelectrochemical solar energy conversion. Nano Energy, 2016, 30, 531-541.	16.0	88
205	Platinum/Palladium hollow nanofibers as high-efficiency counter electrodes for enhanced charge transfer. Journal of Power Sources, 2016, 335, 138-145.	7.8	36
206	Enhanced photovoltaic properties in dye sensitized solar cells by surface treatment of SnO2 photoanodes. Scientific Reports, 2016, 6, 23312.	3.3	80
207	Lanthanide Ion Doped Upconverting Nanoparticles: Synthesis, Structure and Properties. Small, 2016, 12, 3888-3907.	10.0	91
208	Defect-induced enhanced photocatalytic activities of reducedÎ±-Fe₂O₃nanoblades. Nanotechnology, 2016, 27, 295703.	2.6	17
209	Enhanced photovoltaic properties in bilayer BiFeO3/Bi-Mn-O thin films. Nanotechnology, 2016, 27, 215402.	2.6	40
210	Stable multilevel memories. Nature Photonics, 2016, 10, 434-436.	31.4	5
211	Unravelling the Self-Assembly of Hydrogen Bonded NDI Semiconductors in 2D and 3D. Chemistry of Materials, 2016, 28, 951-961.	6.7	41
212	Quantum Dots: Nearâ€Infrared Colloidal Quantum Dots for Efficient and Durable Photoelectrochemical Solarâ€Driven Hydrogen Production (Adv. Sci. 3/2016). Advanced Science, 2016, 3, .	11.2	0
213	Nearâ€Infrared Colloidal Quantum Dots for Efficient and Durable Photoelectrochemical Solarâ€Driven Hydrogen Production. Advanced Science, 2016, 3, 1500345.	11.2	76
214	Structure versus properties inÎ±-Fe₂O₃nanowires and nanoblades. Nanotechnology, 2016, 27, 035702.	2.6	19
215	Dual emission in asymmetric â€œgiantâ€•PbS/CdS/CdS core/shell/shell quantum dots. Nanoscale, 2016, 8, 4217-4226.	5.6	54
216	Photovoltaic properties of Bi₂FeCrO₆films epitaxially grown on (100)-oriented silicon substrates. Nanoscale, 2016, 8, 3237-3243.	5.6	31

#	Article	IF	Citations
217	Quasi one-dimensional band dispersion and surface metallization in long-range ordered polymeric wires. Nature Communications, 2016, 7, 10235.	12.8	91
218	Temperature-dependent Raman spectroscopy studies of fibers. , 2016, , .		0
219	Co-mediated nucleation of erbium/silicon nanoclusters in fused silica. Journal of Materials Research, 2015, 30, 3003-3010.	2.6	2
220	Temperature Sensors: Ultrasensitive, Biocompatible, Self-Calibrating, Multiparametric Temperature Sensors (Small 43/2015). Small, 2015, 11, 5740-5740.	10.0	0
221	Memory operation devices based on light-illumination ambipolar carbon-nanotube thin-film-transistors. Journal of Applied Physics, 2015, 118, .	2.5	3
222	Epitaxial Bi₂FeCrO₆ Multiferroic Thin Film as a New Visible Light Absorbing Photocathode Material. Small, 2015, 11, 4018-4026.	10.0	73
223	Self-assembly of indole-2-carboxylic acid at graphite and gold surfaces. Journal of Chemical Physics, 2015, 142, 101923.	3.0	21
224	With great structure comes great functionality: Understanding and emulating spider silk. Journal of Materials Research, 2015, 30, 108-120.	2.6	12
225	High-performance thin-film-transistors based on semiconducting-enriched single-walled carbon nanotubes processed by electrical-breakdown strategy. Applied Surface Science, 2015, 328, 349-355.	6.1	6
226	A single multifunctional nanoplatform based on upconversion luminescence and gold nanorods. Nanoscale, 2015, 7, 5178-5185.	5.6	57
227	Soft-landing electrospray ion beam deposition of sensitive oligoynes on surfaces in vacuum. International Journal of Mass Spectrometry, 2015, 377, 228-234.	1.5	25
228	Pentacene on Ni(111): room-temperature molecular packing and temperature-activated conversion to graphene. Nanoscale, 2015, 7, 3263-3269.	5.6	25
229	Reaction pathways for pyridine adsorption on silicon (0â€‰0â€‰1). Journal of Physics Condensed Matter, 2015, 27, 054001.	1.8	3
230	Substrate Effects in the Supramolecular Assembly of 1,3,5-Benzene Tricarboxylic Acid on Graphite and Graphene. Langmuir, 2015, 31, 7016-7024.	3.5	63
231	Template engaged synthesis of hollow ceria-based composites. Nanoscale, 2015, 7, 5578-5591.	5.6	33
232	Self-organization of an optomagnetic CoFe₂O₄â€“ZnS nanocomposite: preparation and characterization. Journal of Materials Chemistry C, 2015, 3, 3935-3945.	5.5	22
233	Modulating Exciton Dynamics in Composite Nanocrystals for Excitonic Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 2489-2495.	4.6	20
234	Solution and air stable host/guest architectures from a single layer covalent organic framework. Chemical Communications, 2015, 51, 16510-16513.	4.1	48

#	Article	IF	Citations
235	Ultrasensitive, Biocompatible, Selfâ€Calibrating, Multiparametric Temperature Sensors. Small, 2015, 11, 5741-5746.	10.0	43
236	Tailoring the Reaction Path in the On-Surface Chemistry of Thienoacenes. Journal of Physical Chemistry C, 2015, 119, 22432-22438.	3.1	12
237	Antibacterial Coatings: Challenges, Perspectives, and Opportunities. Trends in Biotechnology, 2015, 33, 637-652.	9.3	599
238	Nanoporous twinned PtPd with highly catalytic activity and stability. Journal of Materials Chemistry A, 2015, 3, 2050-2056.	10.3	43
239	Dynamics of semiconducting nanocrystal uptake into mesoporous TiO₂ thick films by electrophoretic deposition. Journal of Materials Chemistry A, 2015, 3, 847-856.	10.3	30
240	Bandgap tuning of multiferroic oxide solar cells. Nature Photonics, 2015, 9, 61-67.	31.4	640
241	Graphene below the percolation threshold in TiO₂for dye-sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 2580-2588.	10.3	70
242	Supporting the Development and Deployment of Sustainable Energy Technologies Through Targeted Scientific Training. , 2015, , 231-233.		0
243	Photovoltaic effect in multiphase Bi-Mn-O thin films. Optics Express, 2014, 22, A80.	3.4	46
244	Photoluminescence mapping of oxygen-defect emission for nanoscale spatial characterization of fiber Bragg gratings. Journal of Applied Physics, 2014, 116, 064906.	2.5	5
245	In situinvestigation of explosive crystallization in a-Ge: Experimental determination of the interface response function using dynamic transmission electron microscopy. Journal of Applied Physics, 2014, 116, 093512.	2.5	23
246	Evidence of antibacterial activity on titanium surfaces through nanotextures. Applied Surface Science, 2014, 308, 275-284.	6.1	59
247	Molecular Selfâ€Assembly on Graphene. Small, 2014, 10, 1038-1049.	10.0	184
248	Photovoltaic Properties of Multiferroic BiFeO₃/BiCrO₃ Heterostructures. Journal of the American Ceramic Society, 2014, 97, 1837-1840.	3.8	36
249	Influence of silicon dangling bonds on germanium thermal diffusion within SiO2 glass. Applied Physics Letters, 2014, 104, .	3.3	11
250	Controlling photoinduced electron transfer from PbS@CdS core@shell quantum dots to metal oxide nanostructured thin films. Nanoscale, 2014, 6, 7004-7011.	5.6	81
251	Superparamagnetic imposed diatom frustules for the effective removal of phosphates. Green Chemistry, 2014, 16, 82-85.	9.0	12
252	Thermal evolution of the submonolayer near-surface alloy of ZnPd on Pd(111). Physical Chemistry Chemical Physics, 2014, 16, 4764.	2.8	5

#	Article	IF	Citations
253	Reply to â€œComment on â€˜Insight into Organometallic Intermediate and Its Evolution to Covalent Bonding in Surface-Confined Ullmann Polymerizationâ€™â€•. ACS Nano, 2014, 8, 1969-1971.	14.6	19
254	Size Dependence of Temperature-Related Optical Properties of PbS and PbS/CdS Core/Shell Quantum Dots. Journal of Physical Chemistry C, 2014, 118, 20585-20593.	3.1	54
255	Tip-induced Câ€“H activation and oligomerization of thienoanthracenes. Chemical Communications, 2014, 50, 8791-8793.	4.1	14
256	Hollow micro/nanostructured materials prepared by ion exchange synthesis and their potential applications. New Journal of Chemistry, 2014, 38, 1883-1904.	2.8	24
257	Ullmann-type coupling of brominated tetrathienoanthracene on copper and silver. Nanoscale, 2014, 6, 2660-2668.	5.6	106
258	Substrate, Molecular Structure, and Solvent Effects in 2D Self-Assembly via Hydrogen and Halogen Bonding. Journal of Physical Chemistry C, 2014, 118, 25505-25516.	3.1	59
259	The influence of the gas environment on morphology and chemical composition of surfaces micro-machined with a femtosecond laser. Applied Surface Science, 2014, 320, 455-465.	6.1	20
260	Long-term stability of hydrogenated DLC coatings: Effects of aging on the structural, chemical and mechanical properties. Diamond and Related Materials, 2014, 48, 65-72.	3.9	54
261	Reduced graphene oxide growth on 316L stainless steel for medical applications. Nanoscale, 2014, 6, 8664-8670.	5.6	76
262	Shape-controlled synthesis of ruthenium nanocrystals and their catalytic applications. New Journal of Chemistry, 2014, 38, 1827-1833.	2.8	38
263	Pulsed laser deposition growth of rutile TiO2 nanowires on Silicon substrates. Applied Surface Science, 2014, 313, 48-52.	6.1	30
264	Hybrid Carbon Nanotubesâ€“TiO₂ Photoanodes for High Efficiency Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 14510-14517.	3.1	121
265	Sustainable sensors from silk. Nature Materials, 2013, 12, 98-100.	27.5	49
266	Covalently bonded networks through surface-confined polymerization. Surface Science, 2013, 613, 6-14.	1.9	75
267	Unzipping oyster shell. RSC Advances, 2013, 3, 3284.	3.6	5
268	Surface structure of Pd(111) with less than half a monolayer of Zn. Physical Chemistry Chemical Physics, 2013, 15, 12488.	2.8	5
269	Two-Dimensional Self-Assembly of a Symmetry-Reduced Tricarboxylic Acid. Langmuir, 2013, 29, 7318-7324.	3.5	37
270	Effect of multi-walled carbon nanotubes on the stability of dye sensitized solar cells. Journal of Power Sources, 2013, 233, 93-97.	7.8	66

#	Article	IF	Citations
271	Diatom frustules as light traps enhance DSSC efficiency. Nanoscale, 2013, 5, 873-876.	5.6	74
272	1,5-, 2,6- and 9,10-distyrylanthracenes as luminescent organic semiconductors. Journal of Materials Chemistry C, 2013, 1, 2817.	5.5	48
273	Unprecedented Transformation of Tetrathienoanthracene into Pentacene on Ni(111). ACS Nano, 2013, 7, 1652-1657.	14.6	54
274	Gold nanoparticle decorated ceria nanotubes with significantly high catalytic activity for the reduction of nitrophenol and mechanism study. Applied Catalysis B: Environmental, 2013, 132-133, 107-115.	20.2	199
275	Synthesis and electronic structure of a two dimensional Ï€-conjugated polythiophene. Chemical Science, 2013, 4, 3263.	7.4	130
276	Asymmetric Silver â€œNanocarrotâ€•Structures: Solution Synthesis and Their Asymmetric Plasmonic Resonances. Journal of the American Chemical Society, 2013, 135, 9616-9619.	13.7	43
277	Effect of Redox Reaction Products on the Luminescence Switching Behavior in CePO₄:Tb Nanorods. Journal of Physical Chemistry C, 2013, 117, 10031-10038.	3.1	26
278	In situ coating of diatom frustules with silver nanoparticles. Green Chemistry, 2013, 15, 2060.	9.0	16
279	Remarkably enhanced photocatalytic activity of laser ablated Au nanoparticle decorated BiFeO3 nanowires under visible-light. Chemical Communications, 2013, 49, 5856.	4.1	154
280	In Situ Formation of Dendrites in Eumelanin Thin Films between Gold Electrodes. Advanced Functional Materials, 2013, 23, 5591-5598.	14.9	34
281	Selfâ€Assembly of a Halogenated Molecule on Oxideâ€Passivated Cu(110). Chemistry - an Asian Journal, 2013, 8, 1813-1817.	3.3	14
282	Insight into Organometallic Intermediate and Its Evolution to Covalent Bonding in Surface-Confined Ullmann Polymerization. ACS Nano, 2013, 7, 8190-8198.	14.6	190
283	Complex crystallization dynamics in amorphous germanium observed with dynamic transmission electron microscopy. Physical Review B, 2013, 87, .	3.2	34
284	Ultrafast Microwave Hydrothermal Synthesis of <scp><scp>BiFeO</scp></scp>₃ Nanoplates. Journal of the American Ceramic Society, 2013, 96, 3155-3162.	3.8	49
285	Fluidic patch antenna based on liquid metal alloy/single-wall carbon-nanotubes operating at the S-band frequency. Applied Physics Letters, 2013, 103, .	3.3	43
286	Characterization of individual multifunctional nanoobjects with restricted geometry. Phase Transitions, 2013, 86, 635-650.	1.3	5
287	Mechanical and electrical properties of epitaxial Si nanowires grown by pulsed laser deposition. Journal of Physics Condensed Matter, 2012, 24, 445008.	1.8	4
288	Ferroelectric switching in Bi₄Ti₃O₁₂nanorods. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1903-1911.	3.0	12

#	Article	IF	Citations
289	Single-crystalline BiFeO3 nanowires and their ferroelectric behavior. Applied Physics Letters, 2012, 101, 192903.	3.3	31
290	Controlling anatase coating of diatom frustules by varying the binding layer. CrystEngComm, 2012, 14, 3446.	2.6	13
291	Rough Fibrils Provide a Toughening Mechanism in Biological Fibers. ACS Nano, 2012, 6, 1961-1969.	14.6	59
292	2D Self-Assembly of Fused Oligothiophenes: Molecular Control of Morphology. ACS Nano, 2012, 6, 7973-7980.	14.6	24
293	Binding Geometry of Hydrogen-Bonded Chain Motif in Self-Assembled Gratings and Layers on Ag(111). Langmuir, 2012, 28, 14291-14300.	3.5	11
294	Halogen bonds in 2D supramolecular self-assembly of organic semiconductors. Nanoscale, 2012, 4, 5965.	5.6	120
295	Blending organic building blocks. Nature Photonics, 2012, 6, 639-640.	31.4	4
296	Electromagnetic energy absorption potential and microwave heating capacity of SiC thin films in the 1â€“16GHz frequency range. Applied Surface Science, 2012, 258, 5482-5485.	6.1	26
297	Ruthenium Grubbsâ€™ catalyst nanostructures grown by UV-excimer-laser ablation for self-healing applications. Applied Surface Science, 2012, 258, 9800-9804.	6.1	13
298	Approaches for ultrafast imaging of transient materials processes in the transmission electron microscope. Micron, 2012, 43, 1108-1120.	2.2	67
299	Enormous Surfaceâ€Enhanced Raman Scattering from Dimers of Flowerâ€Like Silver Mesoparticles. Small, 2012, 8, 3400-3405.	10.0	30
300	Rising from the Falls. Nature Materials, 2012, 11, 187-188.	27.5	4
301	Ambipolar operation of hybrid SiC-carbon nanotube based thin film transistors for logic circuits applications. Applied Physics Letters, 2012, 101, 043121.	3.3	9
302	In situ facile synthesis of ruthenium nanocluster catalyst supported on carbon black for hydrogen generation from the hydrolysis of ammonia-borane. International Journal of Hydrogen Energy, 2012, 37, 17921-17927.	7.1	154
303	Hollow ruthenium nanoparticles with small dimensions derived from Ni@Ru core@shell structure: synthesis and enhanced catalytic dehydrogenation of ammonia borane. Chemical Communications, 2012, 48, 8009.	4.1	66
304	Multiferroic nanoscale Bi2FeCrO6 material for spintronic-related applications. Nanoscale, 2012, 4, 5588.	5.6	11
305	Interfacial Reactionâ€Directed Synthesis of Ceâ€“Mn Binary Oxide Nanotubes and Their Applications in CO Oxidation and Water Treatment. Advanced Functional Materials, 2012, 22, 3914-3920.	14.9	110
306	Maximizing Fieldâ€Effect Mobility and Solidâ€State Luminescence in Organic Semiconductors. Angewandte Chemie - International Edition, 2012, 51, 3837-3841.	13.8	135

#	Article	IF	Citations
307	Synthesis of Niâ€“Ru Alloy Nanoparticles and Their High Catalytic Activity in Dehydrogenation of Ammonia Borane. Chemistry - A European Journal, 2012, 18, 7925-7930.	3.3	185
308	Recent progress in nanostructured multiferroic Bi2FeCrO6 thin films. Journal of Solid State Chemistry, 2012, 189, 13-20.	2.9	34
309	The Self-Healing Capability of Carbon Fibre Composite Structures Subjected to Hypervelocity Impacts Simulating Orbital Space Debris. ISRN Nanomaterials, 2012, 2012, 1-16.	0.7	14
310	Bifunctional catalytic/magnetic Ni@Ru coreâ€“shell nanoparticles. Chemical Communications, 2011, 47, 6308.	4.1	128
311	The critical role of water in spider silk and its consequence for protein mechanics. Nanoscale, 2011, 3, 3805.	5.6	35
312	Halogen bonds as stabilizing interactions in a chiral self-assembled molecular monolayer. Chemical Communications, 2011, 47, 9453.	4.1	91
313	Spider silk as a load bearing biomaterial: tailoring mechanical properties via structural modifications. Nanoscale, 2011, 3, 870.	5.6	28
314	Expanding the Scope of Molecular Self-organization Studies through Temperature Control at the Solution/Solid Interface. Australian Journal of Chemistry, 2011, 64, 1299.	0.9	15
315	Kinetics and thermodynamics in surface-confined molecular self-assembly. Chemical Science, 2011, 2, 2290.	7.4	122
316	Epitaxial Patterning of Bi₂FeCrO₆ Double Perovskite Nanostructures: Multiferroic at Room Temperature. Advanced Materials, 2011, 23, 1724-1729.	21.0	66
317	Photovoltaic properties of Bi2FeCrO6 epitaxial thin films. Applied Physics Letters, 2011, 98, .	3.3	153
318	High-frequency electromagnetic properties of epitaxial Bi2FeCrO6 thin films grown by pulsed laser deposition. Applied Physics Letters, 2011, 99, 183505.	3.3	12
319	Transformations of Molecular Frameworks by Hostâ€“Guest Response: Novel Routes toward Two-Dimensional Self-Assembly at the Solidâ€“Liquid Interface. Japanese Journal of Applied Physics, 2011, 50, 08LA02.	1.5	7
320	Near-IR Photoresponse in New Up-Converting CdSe/NaYF₄:Yb,Er Nanoheterostructures. Journal of the American Chemical Society, 2010, 132, 8868-8869.	13.7	183
321	Highly Emissive and Electrochemically Stable Thienylene Vinylene Oligomers and Copolymers: An Unusual Effect of Alkylsulfanyl Substituents. Advanced Functional Materials, 2010, 20, 1661-1669.	14.9	22
322	Multiple NaNbO₃/Nb₂O₅ Heterostructure Nanotubes: A New Class of Ferroelectric/Semiconductor Nanomaterials. Advanced Materials, 2010, 22, 1741-1745.	21.0	104
323	Order and disorder in the heteroepitaxy of semiconductor nanostructures. Materials Science and Engineering Reports, 2010, 70, 243-264.	31.8	28
324	Adsorption of proteins on nanoporous Ti surfaces. Surface Science, 2010, 604, 1445-1451.	1.9	49

#	Article	IF	Citations
325	Nanoscale patterning of functional perovskite-type complex oxides by pulsed laser deposition through a nanostencil. Applied Surface Science, 2010, 256, 4777-4783.	6.1	15
326	Seeing both sides. Nature Chemistry, 2010, 2, 344-345.	13.6	16
327	EFFECT OF EPITAXIAL STRAIN ON THE STRUCTURAL AND FERROELECTRIC PROPERTIES OF Bi₂FeCrO₆ THIN FILMS. Functional Materials Letters, 2010, 03, 83-88.	1.2	14
328	Nanocrystallization of amorphous germanium films observed with nanosecond temporal resolution. Applied Physics Letters, 2010, 97, .	3.3	40
329	Step-by-step growth of epitaxially aligned polythiophene by surface-confined reaction. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11200-11204.	7.1	117
330	The elastic moduli of oriented tin oxide nanowires. Nanotechnology, 2009, 20, 115705.	2.6	44
331	Influence of Treatment Conditions on the Chemical Oxidative Activity of H₂SO₄/H₂O₂ Mixtures for Modulating the Topography of Titanium. Advanced Engineering Materials, 2009, 11, B227.	3.5	35
332	Improving Biocompatibility of Implantable Metals by Nanoscale Modification of Surfaces: An Overview of Strategies, Fabrication Methods, and Challenges. Small, 2009, 5, 996-1006.	10.0	182
333	Synthesis of Polyphenylene Molecular Wires by Surfaceâ€Confined Polymerization. Small, 2009, 5, 592-597.	10.0	314
334	Supramolecular Ordering in Oligothiopheneâ"Fullerene Monolayers. Journal of the American Chemical Society, 2009, 131, 16844-16850.	13.7	134
335	Inducing Nonlocal Reactions with a Local Probe. ACS Nano, 2009, 3, 3347-3351.	14.6	22
336	Nanoscale Oxidative Patterning of Metallic Surfaces to Modulate Cell Activity and Fate. Nano Letters, 2009, 9, 659-665.	9.1	134
337	Extending Polymer Conjugation into the Second Dimension. Science, 2009, 323, 216-217.	12.6	296
338	Supramolecular assembly of heterocirculenes in 2D and 3D. Chemical Communications, 2009, , 1192.	4.1	100
339	Multiexponential photoluminescence decay of blinking nanocrystal ensembles. Physical Review B, 2009, 80, .	3.2	19
340	Tailoring the surface properties of Ti6Al4V by controlled chemical oxidation. Biomaterials, 2008, 29, 1285-1298.	11.4	197
341	Surface Nanopatterning to Control Cell Growth. Advanced Materials, 2008, 20, 1488-1492.	21.0	155
342	Materials Science in the Developing World: Challenges and Perspectives for Africa. Advanced Materials, 2008, 20, 4627-4640.	21.0	13

#	Article	IF	Citations
343	Self-assembly of rubrene on Cu(111). Nanotechnology, 2008, 19, 424021.	2.6	24
344	Two-Dimensional Structural Motif in Thienoacene Semiconductors: Synthesis, Structure, and Properties of Tetrathienoanthracene Isomers. Chemistry of Materials, 2008, 20, 2484-2494.	6.7	144
345	Heterocirculenes as a new class of organic semiconductors. Chemical Communications, 2008, , 5354.	4.1	126
346	Environmentally stable light emitting field effect transistors based on 2-(4-pentylstyryl)tetracene. Journal of Materials Chemistry, 2008, 18, 158-161.	6.7	49
347	Fullerene on Nitrogen-Adsorbed Cu(001) Nanopatterned Surfaces: From Preferential Nucleation to Layer-by-Layer Growth. Journal of Physical Chemistry C, 2008, 112, 10187-10192.	3.1	15
348	Self-assembly of Rubrene on Copper Surfaces. Journal of Physical Chemistry C, 2008, 112, 10214-10221.	3.1	31
349	Two-Dimensional Nanotemplates as Surface Cues for the Controlled Assembly of Organic Molecules. Topics in Current Chemistry, 2008, 285, 203-267.	4.0	102
350	In situnanoscale mapping of the chemical composition of surfaces and 3D nanostructures by photoelectron spectromicroscopy. Nanotechnology, 2008, 19, 265703.	2.6	4
351	Self-assembled monolayer of alkanephosphoric acid on nanotextured Ti. Journal of Chemical Physics, 2008, 128, 144705.	3.0	29
352	Towards ferroelectric and multiferroic nanostructures and their characterisation. International Journal of Nanotechnology, 2008, 5, 930.	0.2	17
353	Site-controlled growth of Ge nanostructures on Si(100) via pulsed laser deposition nanostenciling. Applied Physics Letters, 2007, 91, 113112.	3.3	14
354	Stabilization of exotic minority phases in a multicomponent self-assembled molecular network. Nanotechnology, 2007, 18, 424031.	2.6	90
355	Crystal Engineering in Two Dimensions:â€‰ An Approach to Molecular Nanopatterning. Journal of Physical Chemistry C, 2007, 111, 16996-17007.	3.1	132
356	Ensuring Homology between 2D and 3D Molecular Crystals. Langmuir, 2007, 23, 11980-11985.	3.5	19
357	Luminescent silicon nanostructures synthesized by laser ablation. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1623-1638.	1.8	17
358	Nanostenciling of Functional Materials by Room Temperature Pulsed Laser Deposition. IEEE Nanotechnology Magazine, 2006, 5, 470-477.	2.0	17
359	A novel approach to the synthesis of photoluminescent germanium nanoparticles by reactive laser ablation. Nanotechnology, 2006, 17, 2152-2155.	2.6	38
360	SCANNING TUNNELING MICROSCOPY MANIPULATION OF COMPLEX ORGANIC MOLECULES ON SOLID SURFACES. Annual Review of Physical Chemistry, 2006, 57, 497-525.	10.8	114

#	Article	IF	Citations
361	Rational Modulation of the Periodicity in Linear Hydrogen-Bonded Assemblies of Trimesic Acid on Surfaces. Journal of the American Chemical Society, 2006, 128, 4212-4213.	13.7	169
362	Chemical Mapping of Individual Semiconductor Nanostructures. Small, 2006, 2, 401-405.	10.0	28
363	Ordered Assembly of Î±-Quinquethiophene on a Copper Oxide Nanotemplate. Small, 2006, 2, 1366-1371.	10.0	36
364	Playing Tetris at the nanoscale. Surface Science, 2006, 600, 1-5.	1.9	23
365	Characterization of a bioactive nanotextured surface created by controlled chemical oxidation of titanium. Surface Science, 2006, 600, 4613-4621.	1.9	98
366	Nucleation and growth of Si nanocrystals in an amorphousSiO2matrix. Physical Review B, 2006, 74, .	3.2	45
367	Correlation between plasma dynamics and porosity of Ge films synthesized by pulsed laser deposition. Applied Physics Letters, 2006, 89, 131501.	3.3	26
368	Photoluminescent silicon nanocrystals synthesized by reactive laser ablation. Applied Physics Letters, 2006, 88, 073105.	3.3	49
369	Alloying of self-organized semiconductor 3D islands. Journal of Experimental Nanoscience, 2006, 1, 279-305.	2.4	25
370	Semiconductor and insulator nanostructures: challenges and opportunities. Microelectronic Engineering, 2005, 80, 448-456.	2.4	12
371	Packing-induced electronic structure changes in bundled single-wall carbon nanotubes. Applied Physics Letters, 2005, 87, 103106.	3.3	15
372	Complex oxide nanostructures by pulsed laser deposition through nanostencils. Applied Physics Letters, 2005, 86, 183107.	3.3	60
373	Selective Adsorption of Pyridine at Isolated Reactive Sites on Si(100). Journal of Physical Chemistry B, 2005, 109, 20055-20059.	2.6	32
374	One-Dimensional Assembly and Selective Orientation of Lander Molecules on an Oâ€“Cu Template. Angewandte Chemie - International Edition, 2004, 43, 2092-2095.	13.8	99
375	Nanostructured surfaces: challenges and frontiers in nanotechnology. Journal of Physics Condensed Matter, 2004, 16, S1373-S1436.	1.8	215
376	Properties of large organic molecules on metal surfaces. Progress in Surface Science, 2003, 71, 95-146.	8.3	419
377	Atomic description of elementary surface processes: diffusion and dynamics. Surface Science, 2002, 500, 395-413.	1.9	42
378	Evolution of the intermixing process in Ge/Si(111) self-assembled islands. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 88, 264-268.	3.5	33

#	Article	IF	Citations
379	Photovoltaic properties of hybrid c-Si/ZnO nanorods solar cells. Materials Advances, 0, , .	5.4	1