

Mohamed N Hedhili

List of Publications by Year in descending order

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140
papers

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17405

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141
docs citations

141
times ranked

21146
citing authors

#	ARTICLE	IF	CITATIONS
1	High-yield Ti ₃ C ₂ T _x MXene/MoS ₂ Integrated Circuits. <i>Advanced Materials</i> , 2022, 34, e2107370.	11.1	24
2	Thermal treatment of hydroxyl functionalized polytriazole and its effect on gas transport: From crosslinking to carbon molecular sieve. <i>Journal of Membrane Science</i> , 2022, 642, 119963.	4.1	6
3	Organic Acid Etching Strategy for Dendrite Suppression in Aqueous Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, 2102797.	10.2	79
4	Electrochemical Thin-Film Transistors using Covalent Organic Framework Channel. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	16
5	Iron-Cobalt-Based Materials: An Efficient Bimetallic Catalyst for Ammonia Synthesis at Low Temperatures. <i>ACS Catalysis</i> , 2022, 12, 587-599.	5.5	17
6	Evolution of cellulose acetate to monolayer graphene. <i>Carbon</i> , 2021, 174, 24-35.	5.4	15
7	Active and stable Fe-based catalyst, mechanism, and key role of alkali promoters in ammonia synthesis. <i>Journal of Catalysis</i> , 2021, 394, 353-365.	3.1	16
8	Improved H ₂ detection performance of GaN sensor with Pt/Sulfide treatment of porous active layer prepared by metal electroless etching. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4614-4625.	3.8	8
9	[Cu ₂₃ (PhSe) ₁₆ (Ph ₃ P) ₈ (H) ₆]·4BF ₄ : Atomic-Level Insights into Cuboidal Polyhydrido Copper Nanoclusters and Their Quasi-simple Cubic Self-Assembly. , 2021, 3, 90-99.		41
10	Engineering Band-Type Alignment in CsPbBr ₃ Perovskite-Based Artificial Multiple Quantum Wells. <i>Advanced Materials</i> , 2021, 33, e2005166.	11.1	12
11	Synthesis and Characterization of Iron-Doped TiO ₂ Nanoparticles Using Ferrocene from Flame Spray Pyrolysis. <i>Catalysts</i> , 2021, 11, 438.	1.6	31
12	[Cu ₁₅ (PPh ₃) ₆ (PET) ₁₃] ²⁺ : a Copper Nanocluster with Crystallization Enhanced Photoluminescence. <i>Small</i> , 2021, 17, e2006839.	5.2	50
13	Achieving room-temperature M ₂ -phase VO ₂ nanowires for superior thermal actuation. <i>Nano Research</i> , 2021, 14, 4146-4153.	5.8	10
14	Covalent Assembly of Two-Dimensional COF/MXene Heterostructures Enables Fast Charging Lithium Hosts. <i>Advanced Functional Materials</i> , 2021, 31, 2101194.	7.8	83
15	Characterization of Silica-Supported Tungsten Bis- and Tris-hydrides by Advanced Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12819-12826.	1.5	3
16	[Cu ₃₆ H ₁₀ (PET) ₂₄ (PPh ₃) ₆ Cl ₂] Reveals Surface Vacancy Defects in Ligand-Stabilized Metal Nanoclusters. <i>Journal of the American Chemical Society</i> , 2021, 143, 11026-11035.	6.6	46
17	Naturally Extracted Hydrophobic Solvent and Self-Assembly in Interfacial Polymerization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44824-44832.	4.0	10
18	Optical Properties and First Principles Study of CH ₃ NH ₃ PbBr ₃ Perovskite Structures for Solar Cell Application. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 275-282.	0.3	0

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19	Tailored pore size and microporosity of covalent organic framework (COF) membranes for improved molecular separation. , 2021, 1, 100008.		6
20	Atomic Layer Deposition of Vanadium Oxide as Hole-Selective Contact for Crystalline Silicon Solar Cells. Advanced Electronic Materials, 2020, 6, 2000467.	2.6	67
21	Single-Crystalline All-Oxide $\text{In}_2\text{O}_3/\text{Al}_2\text{O}_3$ Heterostructures for Deep-Ultraviolet Photodetection. ACS Applied Materials & Interfaces, 2020, 12, 53932-53941.	4.0	14
22	Electropolymerized Conjugated Microporous Nanoskin Regulating Polysulfide and Electrolyte for High-Energy Li-S Batteries. ACS Nano, 2020, 14, 17163-17173.	7.3	55
23	Aberration-corrected STEM imaging of 2D materials: Artifacts and practical applications of threefold astigmatism. Science Advances, 2020, 6, .	4.7	13
24	Optical Properties and First-Principles Study of $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Perovskite Structures. ACS Omega, 2020, 5, 12313-12319.	1.6	12
25	A Highly Conductive Titanium Oxynitride Electron-Selective Contact for Efficient Photovoltaic Devices. Advanced Materials, 2020, 32, e2002608.	11.1	46
26	Interface Matters: Enhanced Photoluminescence and Long-Term Stability of Zero-Dimensional Cesium Lead Bromide Nanocrystals <i>via</i> Gas-Phase Aluminum Oxide Encapsulation. ACS Applied Materials & Interfaces, 2020, 12, 35598-35605.	4.0	14
27	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. ACS Energy Letters, 2020, 5, 793-798.	8.8	208
28	Real-Space Mapping of Surface-Oxygen Defect States in Photovoltaic Materials Using Low-Voltage Scanning Ultrafast Electron Microscopy. ACS Applied Materials & Interfaces, 2020, 12, 7760-7767.	4.0	12
29	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. Nature Energy, 2020, 5, 131-140.	19.8	894
30	Pore engineering of ultrathin covalent organic framework membranes for organic solvent nanofiltration and molecular sieving. Chemical Science, 2020, 11, 5434-5440.	3.7	78
31	Electropolymerization growth of an ultrathin, compact, conductive and microporous (UCCM) polycarbazole membrane for high energy Li-S batteries. Nano Energy, 2020, 73, 104769.	8.2	29
32	Role of acid mixtures etching on the surface chemistry and sodium ion storage in $\text{Ti}_3\text{C}_2\text{Tx}$ MXene. Chemical Communications, 2020, 56, 6090-6093.	2.2	76
33	$[\text{Cu}_{81}(\text{PhS})_{46}(\text{tBuNH}_2)_{10}(\text{H})_{32}]^{3+}$ Reveals the Coexistence of Large Planar Cores and Hemispherical Shells in High-Nuclearity Copper Nanoclusters. Journal of the American Chemical Society, 2020, 142, 8696-8705.	6.6	81
34	Novel p-Type Wide Bandgap Manganese Oxide Quantum Dots Operating at Deep UV Range for Optoelectronic Devices. Advanced Optical Materials, 2019, 7, 1900801.	3.6	35
35	Heterostructured MXene and g-C ₃ N ₄ for high-rate lithium intercalation. Nano Energy, 2019, 65, 104030.	8.2	54
36	Enhancement of Dielectric Permittivity of $\text{Ti}_3\text{C}_2\text{Tx}$ MXene/Polymer Composites by Controlling Flake Size and Surface Termination. ACS Applied Materials & Interfaces, 2019, 11, 27358-27362.	4.0	68

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37	[Cu ₆₁ (S ^t Bu) ₂₆ S ₆ Cl ₆ H ₁₄] ⁺ : A Core-Shell Superatom Nanocluster with a Quasi- <i>J</i> ₃₆ Cu ₁₉ Core and an ω -18-Crown-6-Metal-Sulfide-like Stabilizing Belt. , 2019, 1, 297-302.		76
38	Use of the Phen-NaDPO:Sn(SCN) ₂ Blend as Electron Transport Layer Results to Consistent Efficiency Improvements in Organic and Hybrid Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1905810.	7.8	41
39	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17849-17855.	7.2	117
40	Deep-Ultraviolet Photodetection Using Single-Crystalline $\text{In}^2\text{-Ga}_2\text{O}_3/\text{NiO}$ Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35095-35104.	4.0	75
41	Extraordinary Carrier Diffusion on CdTe Surfaces Uncovered by 4D Electron Microscopy. <i>Chem</i> , 2019, 5, 706-718.	5.8	21
42	Twofold Porosity and Surface Functionalization Effect on Pt-Porous GaN for High-Performance H ₂ -Gas Sensors at Room Temperature. <i>ACS Omega</i> , 2019, 4, 1678-1684.	1.6	16
43	Graphitic Nanocarbon with Engineered Defects for High-Performance Potassium-Ion Battery Anodes. <i>Advanced Functional Materials</i> , 2019, 29, 1903641.	7.8	212
44	MXenes for Plasmonic Photodetection. <i>Advanced Materials</i> , 2019, 31, e1807658.	11.1	175
45	Turning a Methanation Co Catalyst into an In-Co Methanol Producer. <i>ACS Catalysis</i> , 2019, 9, 6910-6918.	5.5	88
46	Assembly of Atomically Precise Silver Nanoclusters into Nanocluster-Based Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 9585-9592.	6.6	132
47	High-Performance Monolayer MoS ₂ Films at the Wafer Scale by Two-Step Growth. <i>Advanced Functional Materials</i> , 2019, 29, 1901070.	7.8	40
48	Design and Mechanistic Study of Highly Durable Carbon-Coated Cobalt Diphosphide Core-Shell Nanostructure Electrocatalysts for the Efficient and Stable Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20752-20761.	4.0	20
49	Perovskite-Based Artificial Multiple Quantum Wells. <i>Nano Letters</i> , 2019, 19, 3535-3542.	4.5	27
50	A strategy to convert propane to aromatics (BTX) using TiNp ₄ grafted at the periphery of ZSM-5 by surface organometallic chemistry. <i>Dalton Transactions</i> , 2019, 48, 6611-6620.	1.6	6
51	Zr-Doped Indium Oxide (IZRO) Transparent Electrodes for Perovskite-Based Tandem Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1901741.	7.8	124
52	Light-Induced Self-Assembly of Cubic CsPbBr ₃ Perovskite Nanocrystals into Nanowires. <i>Chemistry of Materials</i> , 2019, 31, 6642-6649.	3.2	119
53	One-step growth of reduced graphene oxide on arbitrary substrates. <i>Carbon</i> , 2019, 144, 457-463.	5.4	12
54	Tantalum Nitride Electron-Selective Contact for Crystalline Silicon Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800608.	10.2	112

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55	MoS _x -coated NbS ₂ nanoflakes grown on glass carbon: an advanced electrocatalyst for the hydrogen evolution reaction. <i>Nanoscale</i> , 2018, 10, 3444-3450.	2.8	24
56	Imaging Localized Energy States in Silicon-Doped InGaN Nanowires Using 4D Electron Microscopy. <i>ACS Energy Letters</i> , 2018, 3, 476-481.	8.8	15
57	Reticular Chemistry in Action: A Hydrolytically Stable MOF Capturing Twice Its Weight in Adsorbed Water. <i>CheM</i> , 2018, 4, 94-105.	5.8	282
58	New Insights on Graphite Anode Stability in Rechargeable Batteries: Li Ion Coordination Structures Prevail over Solid Electrolyte Interphases. <i>ACS Energy Letters</i> , 2018, 3, 335-340.	8.8	217
59	Ni ²⁺ -Sn-Supported ZrO ₂ Catalysts Modified by Indium for Selective CO ₂ Hydrogenation to Methanol. <i>ACS Omega</i> , 2018, 3, 3688-3701.	1.6	130
60	Bidentate Ligand-Passivated CsPbI ₃ Perovskite Nanocrystals for Stable Near-Unity Photoluminescence Quantum Yield and Efficient Red Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2018, 140, 562-565.	6.6	745
61	Single crystal hybrid perovskite field-effect transistors. <i>Nature Communications</i> , 2018, 9, 5354.	5.8	255
62	Efficient electrochemical transformation of CO ₂ to C ₂ /C ₃ chemicals on benzimidazole-functionalized copper surfaces. <i>Chemical Communications</i> , 2018, 54, 11324-11327.	2.2	39
63	Giant Photoluminescence Enhancement in CsPbCl ₃ Perovskite Nanocrystals by Simultaneous Dual-Surface Passivation. <i>ACS Energy Letters</i> , 2018, 3, 2301-2307.	8.8	244
64	Inherent electrochemistry and charge transfer properties of few-layered two-dimensional Ti ₃ C ₂ T _x MXene. <i>Nanoscale</i> , 2018, 10, 17030-17037.	2.8	46
65	Imaging the Reduction of Electron Trap States in Shelled Copper Indium Gallium Selenide Nanocrystals Using Ultrafast Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15010-15016.	1.5	4
66	The impact of surface chemistry and texture on the CO ₂ uptake capacity of graphene oxide. <i>Inorganica Chimica Acta</i> , 2018, 482, 470-477.	1.2	13
67	Symmetrical synergy of hybrid Co ₉ S ₈ -MoS _x electrocatalysts for hydrogen evolution reaction. <i>Nano Energy</i> , 2017, 32, 470-478.	8.2	116
68	Impact of N-plasma and Ga-irradiation on MoS ₂ layer in molecular beam epitaxy. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	38
69	Doping-Induced Anisotropic Self-Assembly of Silver Icosahedra in [Pt ₂ Ag ₂₃ Cl ₇ (PPH ₃) ₁₀] Nanoclusters. <i>Journal of the American Chemical Society</i> , 2017, 139, 1053-1056.	6.6	98
70	Polydopamine/Cysteine surface modified isoporous membranes with self-cleaning properties. <i>Journal of Membrane Science</i> , 2017, 529, 185-194.	4.1	60
71	Band Alignment at GaN/Single-Layer WSe ₂ Interface. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9110-9117.	4.0	72
72	Oxidant-Dependent Thermoelectric Properties of Undoped ZnO Films by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2017, 29, 2794-2802.	3.2	27

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73	Photophysical Properties of SrTaO ₂ N Thin Films and Influence of Anion Ordering: A Joint Theoretical and Experimental Investigation. Chemistry of Materials, 2017, 29, 3989-3998.	3.2	37
74	Amorphous NiFe-OH/NiFeP Electrocatalyst Fabricated at Low Temperature for Water Oxidation Applications. ACS Energy Letters, 2017, 2, 1035-1042.	8.8	505
75	Microemulsion prepared Ni ₈₈ Pt ₁₂ for methane cracking. RSC Advances, 2017, 7, 4078-4082.	1.7	5
76	Exploring the Potential of Different-Sized Supported Subnanometer Pt Clusters as Catalysts for Wet Chemical Applications. ACS Catalysis, 2017, 7, 4152-4162.	5.5	41
77	Pyridine-Induced Dimensionality Change in Hybrid Perovskite Nanocrystals. Chemistry of Materials, 2017, 29, 4393-4400.	3.2	100
78	Direct versus ligand-exchange synthesis of [PtAg ₂₈ (BDT) ₁₂ (TPP) ₄] ⁴⁺ nanoclusters: effect of a single-atom dopant on the optoelectronic and chemical properties. Nanoscale, 2017, 9, 9529-9536.	2.8	62
79	The structure and binding mode of citrate in the stabilization of gold nanoparticles. Nature Chemistry, 2017, 9, 890-895.	6.6	222
80	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. Nature Communications, 2017, 8, 13592.	5.8	142
81	Engineering Interfacial Charge Transfer in CsPbBr ₃ Perovskite Nanocrystals by Heterovalent Doping. Journal of the American Chemical Society, 2017, 139, 731-737.	6.6	406
82	Symmetric synergy of hybrid CoS ₂ @WS ₂ electrocatalysts for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 15552-15558.	5.2	81
83	Type-I band alignment at MoS ₂ /In _{0.15} Al _{0.85} N lattice matched heterojunction and realization of MoS ₂ quantum well. Applied Physics Letters, 2017, 111, .	1.5	30
84	Reverse microemulsion prepared Ni@Pt catalysts for methane cracking to produce CO _x -free hydrogen. RSC Advances, 2017, 7, 43546-43550.	1.7	4
85	Anisotropic Self-Assembly of Organic-Inorganic Hybrid Microtoroids. Journal of the American Chemical Society, 2017, 139, 10232-10238.	6.6	18
86	A general approach for the synthesis of bimetallic M@Sn (M = Ru, Rh and Ir) catalysts for efficient hydrogenolysis of ester. Catalysis Science and Technology, 2017, 7, 581-586.	2.1	6
87	Gold Nanoparticles Supported on Fibrous Silica Nanospheres (KCC-1) as Efficient Heterogeneous Catalysts for CO Oxidation. ChemCatChem, 2016, 8, 1671-1678.	1.8	50
88	Determination of band offsets at GaN/single-layer MoS ₂ heterojunction. Applied Physics Letters, 2016, 109, .	1.5	64
89	CO ₂ conversion: the potential of porous-organic polymers (POPs) for catalytic CO ₂ epoxide insertion. Journal of Materials Chemistry A, 2016, 4, 7453-7460.	5.2	107
90	Selenide-Based Electrocatalysts and Scaffolds for Water Oxidation Applications. Advanced Materials, 2016, 28, 77-85.	11.1	544

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91	Ni ^{II} –O (M = Sn, Ti, W) Catalysts Prepared by a Dry Mixing Method for Oxidative Dehydrogenation of Ethane. <i>ACS Catalysis</i> , 2016, 6, 2852-2866.	5.5	120
92	Highly acid-durable carbon coated Co ₃ O ₄ nanoarrays as efficient oxygen evolution electrocatalysts. <i>Nano Energy</i> , 2016, 25, 42-50.	8.2	187
93	Activating basal-plane catalytic activity of two-dimensional MoS ₂ monolayer with remote hydrogen plasma. <i>Nano Energy</i> , 2016, 30, 846-852.	8.2	136
94	Transmission electron microscopy of carbon-coated and iron-doped titania nanoparticles. <i>Nanotechnology</i> , 2016, 27, 365709.	1.3	6
95	A New Class of Atomically Precise, Hydride-Rich Silver Nanoclusters Co-Protected by Phosphines. <i>Journal of the American Chemical Society</i> , 2016, 138, 13770-13773.	6.6	114
96	Generation and Characteristics of IV-VI transition Metal Nitride and Carbide Nanoparticles using a Reactive Mesoporous Carbon Nitride. <i>ChemistrySelect</i> , 2016, 1, 290-296.	0.7	9
97	A process to enhance the specific surface area and capacitance of hydrothermally reduced graphene oxide. <i>Nanoscale</i> , 2016, 8, 17782-17787.	2.8	98
98	Highly Efficient Perovskite Quantum Dot Light Emitting Diodes by Surface Engineering. <i>Advanced Materials</i> , 2016, 28, 8718-8725.	11.1	917
99	Shape-Tunable Charge Carrier Dynamics at the Interfaces between Perovskite Nanocrystals and Molecular Acceptors. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3913-3919.	2.1	43
100	Low overpotential and high current CO ₂ reduction with surface reconstructed Cu foam electrodes. <i>Nano Energy</i> , 2016, 27, 121-129.	8.2	100
101	Multistate Resistive Switching Memory for Synaptic Memory Applications. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600192.	1.9	19
102	Design of a core-shell Pt–SiO ₂ catalyst in a reverse microemulsion system: Distinctive kinetics on CO oxidation at low temperature. <i>Journal of Catalysis</i> , 2016, 340, 368-375.	3.1	61
103	Ultrathin Cu ₂ O as an efficient inorganic hole transporting material for perovskite solar cells. <i>Nanoscale</i> , 2016, 8, 6173-6179.	2.8	191
104	Synthesis of TiO ₂ nanoparticles containing Fe, Si, and V using multiple diffusion flames and catalytic oxidation capability of carbon-coated nanoparticles. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	14
105	H ₂ O ₂ -assisted room temperature oxidation of Ti ₂ C MXene for Li-ion battery anodes. <i>Nanoscale</i> , 2016, 8, 7580-7587.	2.8	396
106	Nanocrystals: Fabricating a Homogeneously Alloyed AuAg Shell on Au Nanorods to Achieve Strong, Stable, and Tunable Surface Plasmon Resonances (<i>Small</i> 39/2015). <i>Small</i> , 2015, 11, 5328-5328.	5.2	1
107	Six-Fold Mobility Improvement of Indium–Zinc Oxide Thin-Film Transistors Using a Simple Water Treatment. <i>Advanced Electronic Materials</i> , 2015, 1, 1500014.	2.6	11
108	Fabricating a Homogeneously Alloyed AuAg Shell on Au Nanorods to Achieve Strong, Stable, and Tunable Surface Plasmon Resonances. <i>Small</i> , 2015, 11, 5214-5221.	5.2	76

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109	Mechanistic Insight into the Stability of HfO ₂ -Coated MoS ₂ Nanosheet Anodes for Sodium Ion Batteries. <i>Small</i> , 2015, 11, 4341-4350.	5.2	78
110	Rugae-like FeP nanocrystal assembly on a carbon cloth: an exceptionally efficient and stable cathode for hydrogen evolution. <i>Nanoscale</i> , 2015, 7, 10974-10981.	2.8	133
111	CoP nanosheet assembly grown on carbon cloth: A highly efficient electrocatalyst for hydrogen generation. <i>Nano Energy</i> , 2015, 15, 634-641.	8.2	357
112	Inkjet printing for direct micropatterning of a superhydrophobic surface: toward biomimetic fog harvesting surfaces. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2844-2852.	5.2	293
113	Semi-metallic, strong and stretchable wet-spun conjugated polymer microfibers. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2528-2538.	2.7	130
114	Controlled Surface Segregation Leads to Efficient Coke-Resistant Nickel/Platinum Bimetallic Catalysts for the Dry Reforming of Methane. <i>ChemCatChem</i> , 2015, 7, 819-829.	1.8	78
115	Palladium Nanoparticles Supported on Fibrous-Structured Silica Nanospheres (KCC-1): An Efficient and Selective Catalyst for the Transfer Hydrogenation of Alkenes. <i>ChemCatChem</i> , 2015, 7, 635-642.	1.8	66
116	Highly Stable Supercapacitors with Conducting Polymer Core-Shell Electrodes for Energy Storage Applications. <i>Advanced Energy Materials</i> , 2015, 5, 1401805.	10.2	139
117	Nanoscale Cross-Point Resistive Switching Memory Comprising p-Type SnO Bilayers. <i>Advanced Electronic Materials</i> , 2015, 1, 1400035.	2.6	27
118	A high-throughput reactor system for optimization of Mo-V-Nb mixed oxide catalyst composition in ethane ODH. <i>Catalysis Science and Technology</i> , 2015, 5, 4164-4173.	2.1	28
119	Surface Passivation of MoO ₃ Nanorods by Atomic Layer Deposition toward High Rate Durable Li Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13154-13163.	4.0	105
120	A facile strategy for the fabrication of a bioinspired hydrophilic-superhydrophobic patterned surface for highly efficient fog-harvesting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18963-18969.	5.2	171
121	Nano-design of quantum dot-based photocatalysts for hydrogen generation using advanced surface molecular chemistry. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1001-1009.	1.3	12
122	Photocatalysis with Chromium-Doped TiO ₂ : Bulk and Surface Doping. <i>ChemSusChem</i> , 2014, 7, 1361-1371.	3.6	68
123	Direct Functionalization of Nanodiamonds with Maleimide. <i>Chemistry of Materials</i> , 2014, 26, 2766-2769.	3.2	25
124	Morphological and Electrochemical Cycling Effects in MnO ₂ Nanostructures by 3D Electron Tomography. <i>Advanced Functional Materials</i> , 2014, 24, 3130-3143.	7.8	107
125	MnO ₂ : Morphological and Electrochemical Cycling Effects in MnO ₂ Nanostructures by 3D Electron Tomography (Adv. Funct. Mater. 21/2014). <i>Advanced Functional Materials</i> , 2014, 24, 3106-3106.	7.8	2
126	Fe-N-C Electrocatalysts for Oxygen Reduction Reaction Synthesized by Using Aniline Salt and Fe ³⁺ /H ₂ O ₂ Catalytic System. <i>Electrochimica Acta</i> , 2014, 146, 809-818.	2.6	26

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127	Microwave-Assisted Self-Doping of TiO ₂ Photonic Crystals for Efficient Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2014, 6, 691-696.	4.0	97
128	Nitridated Fibrous Silica (KCC-1) as a Sustainable Solid Base Nanocatalyst. ACS Sustainable Chemistry and Engineering, 2013, 1, 1192-1199.	3.2	99
129	Palladium supported on natural phosphate: Catalyst for Suzuki coupling reactions in water. Applied Catalysis A: General, 2013, 450, 13-18.	2.2	47
130	Electrochemical reduction induced self-doping of Ti ³⁺ for efficient water splitting performance on TiO ₂ based photoelectrodes. Physical Chemistry Chemical Physics, 2013, 15, 15637.	1.3	174
131	Plasmonic Gold Nanocrystals Coupled with Photonic Crystal Seamlessly on TiO ₂ Nanotube Photoelectrodes for Efficient Visible Light Photoelectrochemical Water Splitting. Nano Letters, 2013, 13, 14-20.	4.5	692
132	Impact of Soft Annealing on the Performance of Solution-Processed Amorphous Zinc Tin Oxide Thin-Film Transistors. ACS Applied Materials & Interfaces, 2013, 5, 3587-3590.	4.0	22
133	Electron irradiation induced reduction of the permittivity in chalcogenide glass (As ₂ S ₃) thin film. Journal of Applied Physics, 2013, 113, 044116.	1.1	13
134	Three-dimensional assemblies of graphene prepared by a novel chemical reduction-induced self-assembly method. Nanoscale, 2012, 4, 7038.	2.8	171
135	Synthesis of Ru nanoparticles confined in magnesium oxide-modified mesoporous alumina and their enhanced catalytic performance during ammonia decomposition. Catalysis Communications, 2012, 26, 248-252.	1.6	16
136	Hollow Au@Pd and Au@Pt core-shell nanoparticles as electrocatalysts for ethanol oxidation reactions. Journal of Materials Chemistry, 2012, 22, 25003.	6.7	140
137	Nanoroses of Nickel Oxides: Synthesis, Electron Tomography Study, and Application in CO Oxidation and Energy Storage. ChemSusChem, 2012, 5, 1241-1248.	3.6	30
138	Highly Selective and Complete Conversion of Cellobiose to Gluconic Acid over Au/Cs ₂ HPW ₁₂ O ₄₀ Nanocomposite Catalyst. ChemCatChem, 2011, 3, 1294-1298.	1.8	80
139	Correlation of Mn charge state with the electrical resistivity of Mn doped indium tin oxide thin films. Applied Physics Letters, 2010, 97, .	1.5	37
140	Engineering of refractive index in sulfide chalcogenide glass by direct laser writing. , 2010, , .		0