

Qing Jiang

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799
papers

29,135
citations

85
h-index

132
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827
ext. papers

33,504
ext. citations

6.2
avg, IF

7.73
L-index

#	Paper	IF	Citations
799	Electrochemical Reduction of N under Ambient Conditions for Artificial N Fixation and Renewable Energy Storage Using N /NH Cycle. <i>Advanced Materials</i> , 2017 , 29, 1604799	24	762
798	Au Sub-Nanoclusters on TiO toward Highly Efficient and Selective Electrocatalyst for N Conversion to NH at Ambient Conditions. <i>Advanced Materials</i> , 2017 , 29, 1606550	24	619
797	Amorphizing of Au Nanoparticles by CeO -RGO Hybrid Support towards Highly Efficient Electrocatalyst for N Reduction under Ambient Conditions. <i>Advanced Materials</i> , 2017 , 29, 1700001	24	414
796	Enhancement of CO detection in Al doped graphene. <i>Chemical Physics Letters</i> , 2008 , 461, 276-279	2.5	365
795	Anchoring PdCu Amorphous Nanocluster on Graphene for Electrochemical Reduction of N ₂ to NH ₃ under Ambient Conditions in Aqueous Solution. <i>Advanced Energy Materials</i> , 2018 , 8, 1800124	21.8	312
794	An efficient CoAuPd/C catalyst for hydrogen generation from formic acid at room temperature. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4406-9	16.4	304
793	CO Catalytic Oxidation on Copper-Embedded Graphene. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3678-3683	3.683	302
792	Noble-metal-free cobalt phosphide modified carbon nitride: An efficient photocatalyst for hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 477-483	21.8	301
791	Formation Mechanism of β Phase in PVDF/CNT Composite Prepared by the Sonication Method. <i>Macromolecules</i> , 2009 , 42, 8870-8874	5.5	266
790	Size dependent interface energy and its applications. <i>Surface Science Reports</i> , 2008 , 63, 427-464	12.9	263
789	Melting thermodynamics of organic nanocrystals. <i>Journal of Chemical Physics</i> , 1999 , 111, 2176-2180	3.9	238
788	Adsorption capability for Congo red on nanocrystalline MFe ₂ O ₄ (M=Mn, Fe, Co, Ni) spinel ferrites. <i>Chemical Engineering Journal</i> , 2012 , 181-182, 72-79	14.7	232
787	Allele-defined genome of the autopolyploid sugarcane <i>Saccharum spontaneum</i> L. <i>Nature Genetics</i> , 2018 , 50, 1565-1573	36.3	229
786	Nanoporous gold supported cobalt oxide microelectrodes as high-performance electrochemical biosensors. <i>Nature Communications</i> , 2013 , 4, 2169	17.4	227
785	Effect of alloying elements on microstructure and properties of multiprincipal elements high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 475, 752-757	5.7	213
784	Lattice Contraction and Surface Stress of fcc Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 6275-6277	3.4	207
783	Excess van der Waals interaction energy of a multiwalled carbon nanotube with an extruded core and the induced core oscillation. <i>Physical Review B</i> , 2002 , 65,	3.3	198

782	Prevention of dendrite growth and volume expansion to give high-performance aprotic bimetallic Li-Na alloy-O batteries. <i>Nature Chemistry</i> , 2019 , 11, 64-70	17.6	198
781	Lamella-nanostructured eutectic zinc-aluminum alloys as reversible and dendrite-free anodes for aqueous rechargeable batteries. <i>Nature Communications</i> , 2020 , 11, 1634	17.4	195
780	Al doped graphene: A promising material for hydrogen storage at room temperature. <i>Journal of Applied Physics</i> , 2009 , 105, 074307	2.5	183
779	Modelling of surface energies of elemental crystals. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 521-530	13.0	180
778	Generating Defect-Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9464-9469	16.4	178
777	Au@Pd core-shell nanoclusters growing on nitrogen-doped mildly reduced graphene oxide with enhanced catalytic performance for hydrogen generation from formic acid. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12721	13	175
776	AuPdMnOx/MOF@Graphene: An Efficient Catalyst for Hydrogen Production from Formic Acid at Room Temperature. <i>Advanced Energy Materials</i> , 2015 , 5, 1500107	21.8	175
775	Density functional theory calculations for two-dimensional silicene with halogen functionalization. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 257-61	3.6	175
774	Enhanced Hydrogen Storage on Li-Dispersed Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2028-2033	3.8	175
773	First principle calculations of the electronic properties of nitrogen-doped carbon nanoribbons with zigzag edges. <i>Carbon</i> , 2008 , 46, 537-543	10.4	170
772	Amorphizing of Cu Nanoparticles toward Highly Efficient and Robust Electrocatalyst for CO Reduction to Liquid Fuels with High Faradaic Efficiencies. <i>Advanced Materials</i> , 2018 , 30, e1706194	24	164
771	Advanced catalysts for sustainable hydrogen generation and storage via hydrogen evolution and carbon dioxide/nitrogen reduction reactions. <i>Progress in Materials Science</i> , 2018 , 92, 64-111	42.2	161
770	Atomic (single, double, and triple atoms) catalysis: frontiers, opportunities, and challenges. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3492-3515	13	160
769	Size-dependent cohesive energy of nanocrystals. <i>Chemical Physics Letters</i> , 2002 , 366, 551-554	2.5	160
768	High-Energy-Density Flexible Potassium-Ion Battery Based on Patterned Electrodes. <i>Joule</i> , 2018 , 2, 736-746	14.6	158
767	Synthesis and optical properties of flower-like ZnO nanorods by thermal evaporation method. <i>Applied Surface Science</i> , 2011 , 257, 5083-5087	6.7	158
766	High corrosion-resistance nanocrystalline Ni coating on AZ91D magnesium alloy. <i>Surface and Coatings Technology</i> , 2006 , 200, 5413-5418	4.4	156
765	Effect of aluminum contents on microstructure and properties of Al _x CoCrFeNi alloys. <i>Journal of Alloys and Compounds</i> , 2010 , 504, S515-S518	5.7	155

764	Size-dependent melting point of noble metals. <i>Materials Chemistry and Physics</i> , 2003 , 82, 225-227	4.4	152
763	Pd/C synthesized with citric acid: an efficient catalyst for hydrogen generation from formic acid/sodium formate. <i>Scientific Reports</i> , 2012 , 2, 598	4.9	150
762	Saturation magnetization of ferromagnetic and ferrimagnetic nanocrystals at room temperature. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 320-325	3	148
761	Water-soluble Fe ₃ O ₄ nanoparticles with high solubility for removal of heavy-metal ions from waste water. <i>Dalton Transactions</i> , 2012 , 41, 4544-51	4.3	145
760	Size-Dependent Surface Energies of Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 5617-5619	3.4	137
759	Single or Double: Which Is the Altar of Atomic Catalysts for Nitrogen Reduction Reaction?. <i>Small Methods</i> , 2019 , 3, 1800291	12.8	137
758	Fe ₃ C-Co Nanoparticles Encapsulated in a Hierarchical Structure of N-Doped Carbon as a Multifunctional Electrocatalyst for ORR, OER, and HER. <i>Advanced Functional Materials</i> , 2019 , 29, 1901949	15.6	136
757	Synthesis of potassium-modified graphitic carbon nitride with high photocatalytic activity for hydrogen evolution. <i>ChemSusChem</i> , 2014 , 7, 2654-8	8.3	136
756	Modelling for size-dependent and dimension-dependent melting of nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 2653-2656	3	133
755	Rapid and energy-efficient synthesis of a graphene/CuCo hybrid as a high performance catalyst. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10990		125
754	Reconstructed Orthorhombic V ₂ O ₅ Polyhedra for Fast Ion Diffusion in K-Ion Batteries. <i>Chem</i> , 2019 , 5, 168-179	16.2	123
753	Growth of zinc phosphate coatings on AZ91D magnesium alloy. <i>Surface and Coatings Technology</i> , 2006 , 201, 1814-1820	4.4	122
752	Highly Efficient Photoelectrochemical Water Splitting: Surface Modification of Cobalt-Phosphate-Loaded Co ₃ O ₄ /Fe ₂ O ₃ p-n Heterojunction Nanorod Arrays. <i>Advanced Functional Materials</i> , 2019 , 29, 1801902	15.6	119
751	Anchoring and Upgrading Ultrafine NiPd on Room-Temperature-Synthesized Bifunctional NH ₂ -rGO toward Low-Cost and Highly Efficient Catalysts for Selective Formic Acid Dehydrogenation. <i>Advanced Materials</i> , 2018 , 30, e1703038	24	119
750	Modeling of the Melting Point, Debye Temperature, Thermal Expansion Coefficient, and the Specific Heat of Nanostructured Materials. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16896-16900	3.8	116
749	Recent Advances toward the Rational Design of Efficient Bifunctional Air Electrodes for Rechargeable Zn-Air Batteries. <i>Small</i> , 2018 , 14, e1703843	11	115
748	Surface tension and its temperature coefficient for liquid metals. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15463-8	3.4	114
747	Mesostructured Intermetallic Compounds of Platinum and Non-Transition Metals for Enhanced Electrocatalysis of Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2015 , 25, 230-237	15.6	113

746	Tunable band gaps in silicene-MoS ₂ heterobilayers. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 11673-386	3.6	113
745	Grain size-dependent diffusion activation energy in nanomaterials. <i>Solid State Communications</i> , 2004 , 130, 581-584	1.6	113
744	N/O Dual-Doped Environment-Friendly Hard Carbon as Advanced Anode for Potassium-Ion Batteries. <i>Advanced Science</i> , 2020 , 7, 1902547	13.6	113
743	Enhancing photocatalytic activity of disorder-engineered C/TiO ₂ and TiO ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7439-7445	13	111
742	Size effects on Debye temperature, Einstein temperature, and volume thermal expansion coefficient of nanocrystals. <i>Solid State Communications</i> , 2006 , 139, 148-152	1.6	110
741	Effect of a rippling mode on resonances of carbon nanotubes. <i>Physical Review Letters</i> , 2001 , 86, 4843-6	7.4	110
740	Ag _{0.1} -Pd _{0.9} /rGO: an efficient catalyst for hydrogen generation from formic acid/sodium formate. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12188	13	109
739	Size-dependent surface tension and Tolman's length of droplets. <i>Langmuir</i> , 2005 , 21, 779-81	4	106
738	Decorating Waste Cloth via Industrial Wastewater for Tube-Type Flexible and Wearable Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1603719	24	105
737	Thermal stability of crystalline thin films. <i>Thin Solid Films</i> , 1998 , 312, 357-361	2.2	104
736	Enhanced tensile ductility in an electrodeposited nanocrystalline Ni. <i>Scripta Materialia</i> , 2006 , 54, 579-584	5.6	104
735	Size-dependent interface energy and related interface stress. <i>Acta Materialia</i> , 2001 , 49, 3143-3147	8.4	103
734	Visible-light photocatalysis in nitrogen-carbon-doped TiO ₂ films obtained by heating TiO ₂ gel film in an ionized N ₂ gas. <i>Thin Solid Films</i> , 2008 , 516, 1736-1742	2.2	102
733	Hydrogen generation from formic acid decomposition at room temperature using a NiAuPd alloy nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4850-4856	6.7	101
732	Experimental and modelling investigations on strain rate sensitivity of an electrodeposited 20 nm grain sized Ni. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 7440-7446	3	99
731	Hall-Petch relationship in nanometer size range. <i>Journal of Alloys and Compounds</i> , 2003 , 361, 160-164	5.7	99
730	Microstructure and the properties of FeCoCuNiSn _x high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 548, 64-68	5.3	98
729	Design of Dual-Modified MoS ₂ with Nanoporous Ni and Graphene as Efficient Catalysts for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2018 , 8, 8107-8114	13.1	97

728	Highly efficient hydrogen generation from hydrous hydrazine over amorphous Ni _{0.9} Pt _{0.1} /Ce ₂ O ₃ nanocatalyst at room temperature. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14957	13	97
727	Remarkable Improvements in Volumetric Energy and Power of 3D MnO ₂ Microsupercapacitors by Tuning Crystallographic Structures. <i>Advanced Functional Materials</i> , 2016 , 26, 1830-1839	15.6	96
726	Electroless Ni ₃ P deposition plus zinc phosphate coating on AZ91D magnesium alloy. <i>Surface and Coatings Technology</i> , 2006 , 200, 5956-5962	4.4	96
725	Structure and photocatalytic property of Mo-doped TiO ₂ nanoparticles. <i>Powder Technology</i> , 2013 , 244, 9-15	5.2	94
724	Recent advances in metal-nitrogen-carbon catalysts for electrochemical water splitting. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2155-2173	7.8	92
723	Ag ₂ O modified g-C ₃ N ₄ for highly efficient photocatalytic hydrogen generation under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15710-15714	13	92
722	Layered SiC sheets: a potential catalyst for oxygen reduction reaction. <i>Scientific Reports</i> , 2014 , 4, 3821	4.9	92
721	NiAl(110)-Cr(110) interface: A density functional theory study. <i>Physical Review B</i> , 2006 , 73,	3.3	91
720	Effect of grain size on corrosion behavior of electrodeposited bulk nanocrystalline Ni. <i>Transactions of Nonferrous Metals Society of China</i> , 2010 , 20, 82-89	3.3	90
719	Facile synthesis of nitrogen-doped graphene supported AuPd-CeO ₂ nanocomposites with high-performance for hydrogen generation from formic acid at room temperature. <i>Nanoscale</i> , 2014 , 6, 3073-7	7.7	89
718	Size and interface effects on ferromagnetic and antiferromagnetic transition temperatures. <i>Physical Review B</i> , 2006 , 73,	3.3	89
717	Size and interface effects on critical temperatures of ferromagnetic, ferroelectric and superconductive nanocrystals. <i>Acta Materialia</i> , 2005 , 53, 3305-3311	8.4	88
716	Electric field induced reversible switch in hydrogen storage based on single-layer and bilayer graphenes. <i>Carbon</i> , 2009 , 47, 3452-3460	10.4	87
715	Photocatalytic property of Fe doped anatase and rutile TiO ₂ nanocrystal particles prepared by sol-gel technique. <i>Applied Surface Science</i> , 2012 , 263, 260-265	6.7	86
714	Bandgap opening in silicene: Effect of substrates. <i>Chemical Physics Letters</i> , 2014 , 592, 222-226	2.5	85
713	Size Effect on the Phase Stability of Nanostructures. <i>Current Nanoscience</i> , 2008 , 4, 179-200	1.4	85
712	Non-noble metals applied to solar water splitting. <i>Energy and Environmental Science</i> , 2018 , 11, 3128-3156	5.4	85
711	Facile synthesis of AgAuPd/graphene with high performance for hydrogen generation from formic acid. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14535-14538	13	83

710	Optical and electrical properties of Sn-doped CdO thin films obtained by pulse laser deposition. <i>Vacuum</i> , 2011 , 85, 861-865	3.7	83
709	Melting temperatures of semiconductor nanocrystals in the mesoscopic size range. <i>Semiconductor Science and Technology</i> , 2001 , 16, L33-L35	1.8	82
708	One-step synthesis of Cu@FeNi core-shell nanoparticles: Highly active catalyst for hydrolytic dehydrogenation of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10229-10235	6.7	79
707	B2 structure of high-entropy alloys with addition of Al. <i>Journal of Applied Physics</i> , 2008 , 104, 113504	2.5	79
706	Electroless Ni-B layer with a chromium-free pretreatment on AZ91D magnesium alloy. <i>Surface and Coatings Technology</i> , 2007 , 201, 4594-4600	4.4	79
705	Size-dependent continuous binary solution phase diagram. <i>Nanotechnology</i> , 2003 , 14, 438-442	3.4	79
704	Superheating of nanocrystals embedded in matrix. <i>Chemical Physics Letters</i> , 2000 , 322, 549-552	2.5	79
703	Nitrogen/boron doping position dependence of the electronic properties of a triangular graphene. <i>ACS Nano</i> , 2010 , 4, 7619-29	16.7	78
702	Visible-light photocatalytic activity of nitrogen-doped TiO ₂ thin film prepared by pulsed laser deposition. <i>Applied Surface Science</i> , 2008 , 254, 4620-4625	6.7	78
701	Extraordinary pseudocapacitive energy storage triggered by phase transformation in hierarchical vanadium oxides. <i>Nature Communications</i> , 2018 , 9, 1375	17.4	77
700	Carbon quantum dot sensitized integrated Fe ₂ O ₃ @g-C ₃ N ₄ core-shell nanoarray photoanode towards highly efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9839-9845	13	77
699	Free energy of crystal-liquid interface. <i>Acta Materialia</i> , 1999 , 47, 2109-2112	8.4	77
698	Spontaneously separated intermetallic CoMo from nanoporous copper as versatile electrocatalysts for highly efficient water splitting. <i>Nature Communications</i> , 2020 , 11, 2940	17.4	76
697	Electroless Ni-P/Ni-B duplex coatings for improving the hardness and the corrosion resistance of AZ91D magnesium alloy. <i>Applied Surface Science</i> , 2008 , 254, 4949-4955	6.7	76
696	Lithium Ion Breathable Electrodes with 3D Hierarchical Architecture for Ultrastable and High-Capacity Lithium Storage. <i>Advanced Functional Materials</i> , 2017 , 27, 1700447	15.6	74
695	Controlling phase transition for single-layer MTe ₂ (M = Mo and W): modulation of the potential barrier under strain. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4086-94	3.6	74
694	Adipose-specific knockout of SEIPIN/BSCL2 results in progressive lipodystrophy. <i>Diabetes</i> , 2014 , 63, 2320-31	3.1	74
693	Electroless Ni-B-Ni coating on AZ91D magnesium alloy and its corrosion resistance. <i>Surface and Coatings Technology</i> , 2008 , 202, 2570-2576	4.4	74

692	Strain rate sensitivity of a nanocrystalline Cu synthesized by electric brush plating. <i>Applied Physics Letters</i> , 2006 , 88, 143115	3.4	74
691	Optical and electrical properties of In-doped CdO thin films fabricated by pulse laser deposition. <i>Applied Surface Science</i> , 2010 , 256, 2910-2914	6.7	73
690	Nanotube size-dependent melting of single crystals in carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 1997 , 64, 627-629	2.6	73
689	First-principles study of the surface energy and work function of III-V semiconductor compounds. <i>Physical Review B</i> , 2007 , 75,	3.3	73
688	Structural and optical properties of ZnO thin films deposited on quartz glass by pulsed laser deposition. <i>Applied Surface Science</i> , 2006 , 252, 8451-8455	6.7	73
687	Dual Superlyophobic Copper Foam with Good Durability and Recyclability for High Flux, High Efficiency, and Continuous Oil-Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9841-9848	9.5	72
686	Electroless deposition of Ni-W coating on AZ91D magnesium alloy. <i>Applied Surface Science</i> , 2007 , 253, 5116-5121	6.7	72
685	Field emission properties of N-doped capped single-walled carbon nanotubes: a first-principles density-functional study. <i>Journal of Chemical Physics</i> , 2007 , 126, 164702	3.9	71
684	Correlation of the applied electrical field and CO adsorption/desorption behavior on Al-doped graphene. <i>Solid State Communications</i> , 2010 , 150, 680-683	1.6	70
683	Comparison of different models for melting point change of metallic nanocrystals. <i>Journal of Materials Research</i> , 2001 , 16, 3304-3308	2.5	70
682	DNA-directed growth of ultrafine CoAuPd nanoparticles on graphene as efficient catalysts for formic acid dehydrogenation. <i>Chemical Communications</i> , 2014 , 50, 2732-4	5.8	69
681	Photothermo-chemotherapy of cancer employing drug leakage-free gold nanoshells. <i>Biomaterials</i> , 2016 , 78, 40-9	15.6	68
680	Study of the formation and growth of tannic acid based conversion coating on AZ91D magnesium alloy. <i>Surface and Coatings Technology</i> , 2009 , 204, 736-747	4.4	68
679	Noble-metal-free NiFeMo nanocatalyst for hydrogen generation from the decomposition of hydrous hydrazine. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 121-124	13	66
678	Bandgap Opening of Bilayer Graphene by Dual Doping from Organic Molecule and Substrate. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12873-12881	3.8	66
677	Fe ₇ Se ₈ nanoparticles anchored on N-doped carbon nanofibers as high-rate anode for sodium-ion batteries. <i>Energy Storage Materials</i> , 2020 , 24, 439-449	19.4	66
676	Enhanced UV emission of Y-doped ZnO nanoparticles. <i>Applied Surface Science</i> , 2012 , 258, 6735-6738	6.7	65
675	High strength and high ductility of electrodeposited nanocrystalline Ni with a broad grain size distribution. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 487, 410-416	5.3	65

674	Effects of doping nitrogen atoms on the structure and electronic properties of zigzag single-walled carbon nanotubes through first-principles calculations. <i>Nanotechnology</i> , 2007 , 18, 165702	3.4	65
673	Amorphous nickel pyrophosphate modified graphitic carbon nitride: an efficient photocatalyst for hydrogen generation from water splitting. <i>Applied Catalysis B: Environmental</i> , 2018 , 231, 43-50	21.8	64
672	Advances in Cathode Materials for High-Performance Lithium-Sulfur Batteries. <i>IScience</i> , 2018 , 6, 151-198.	6.1	64
671	Robust superhydrophobic surface on Al substrate with durability, corrosion resistance and ice-phobicity. <i>Scientific Reports</i> , 2016 , 6, 20933	4.9	63
670	Carbon-Encapsulated Co ₃ O ₄ Nanoparticles as Anode Materials with Super Lithium Storage Performance. <i>Scientific Reports</i> , 2015 , 5, 16629	4.9	63
669	A Mini Review on the Functional Biomaterials Based on Poly(lactic acid) Stereocomplex. <i>Polymer Reviews</i> , 2016 , 56, 262-286	14	63
668	Ultrasound-Triggered Phase-Transition Cationic Nanodroplets for Enhanced Gene Delivery. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13524-37	9.5	62
667	Tailoring Oxygen Vacancies of BiVO ₄ toward Highly Efficient Noble-Metal-Free Electrocatalyst for Artificial N ₂ Fixation under Ambient Conditions. <i>Small Methods</i> , 2019 , 3, 1800333	12.8	61
666	Design of Pt/t-ZrO ₂ /g-C ₃ N ₄ efficient photocatalyst for the hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 251, 305-312	21.8	60
665	Discovery of cobweb-like MoC ₆ and its application for nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9623-9628	13	60
664	Al ₁₃ @Pt ₄₂ core-shell cluster for oxygen reduction reaction. <i>Scientific Reports</i> , 2014 , 4, 5205	4.9	58
663	Determining the adsorption energies of small molecules with the intrinsic properties of adsorbates and substrates. <i>Nature Communications</i> , 2020 , 11, 1196	17.4	58
662	Dense and smooth amorphous films of multicomponent FeCoNiCuVZrAl high-entropy alloy deposited by direct current magnetron sputtering. <i>Materials & Design</i> , 2013 , 46, 675-679		58
661	Flexible Co-Mo-N/Au Electrodes with a Hierarchical Nanoporous Architecture as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020 , 32, e1907214	24	57
660	A unique porous architecture built by ultrathin wrinkled NiCoO ₂ /rGO/NiCoO ₂ sandwich nanosheets for pseudocapacitance and Li ion storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10304-10313	13	57
659	Controlling growth of ZnO rods by polyvinylpyrrolidone (PVP) and their optical properties. <i>Applied Surface Science</i> , 2009 , 255, 6978-6984	6.7	57
658	Density functional theory study of oxygen reduction reaction on Pt/Pd ₃ Al(111) alloy electrocatalyst. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14234-43	3.6	57
657	Review of Carbon Materials for Lithium-Sulfur Batteries. <i>ChemistrySelect</i> , 2018 , 3, 2245-2260	1.8	56

- 656 Prediction of Silicon Nanowires as Photocatalysts for Water Splitting: Band Structures Calculated Using Density Functional Theory. *Journal of Physical Chemistry C*, **2011**, 115, 3425-3428 3.8 56
- 655 Melting thermodynamics of nanocrystals embedded in a matrix. *Acta Materialia*, **2000**, 48, 4791-4795 8.4 56
- 654 High Efficient Photo-Fenton Catalyst of $\gamma\text{-Fe}_2\text{O}_3/\text{MoS}_2$ Hierarchical Nanoheterostructures: Reutilization for Supercapacitors. *Scientific Reports*, **2016**, 6, 31591 4.9 55
- 653 Finite size effect on melting enthalpy and melting entropy of nanocrystals. *Physica B: Condensed Matter*, **1999**, 270, 249-254 2.8 55
- 652 The performance of surfactant on the surface characteristics of electroless nickel coating on magnesium alloy. *Progress in Organic Coatings*, **2012**, 74, 788-793 4.8 54
- 651 An organic chromium-free conversion coating on AZ91D magnesium alloy. *Applied Surface Science*, **2008**, 255, 2322-2328 6.7 54
- 650 A Simple and Effective Principle for a Rational Design of Heterogeneous Catalysts for Dehydrogenation of Formic Acid. *Advanced Materials*, **2019**, 31, e1806781 24 53
- 649 A novel open architecture built by ultra-fine single-crystal $\text{Co}_2(\text{CO}_3)(\text{OH})_2$ nanowires and reduced graphene oxide for asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 17171-17179 ¹³ 53
- 648 Low-temperature hydrothermal synthesis of $\gamma\text{-Fe}/\text{Fe}_3\text{O}_4$ nanocomposite for fast Congo red removal. *Dalton Transactions*, **2013**, 42, 2572-9 4.3 53
- 647 Efficient visible-light-driven hydrogen generation from water splitting catalyzed by highly stable $\text{CdS}@\text{Mo}_2\text{C}$ core-shell nanorods. *Journal of Materials Chemistry A*, **2017**, 5, 15862-15868 13 53
- 646 Adsorption of CO on Surfaces of 4d and 5d Elements in Group VIII. *Journal of Physical Chemistry C*, **2007**, 111, 1005-1009 3.8 53
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