

# Qing Jiang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

799  
papers

29,135  
citations

85  
h-index

132  
g-index

827  
ext. papers

33,504  
ext. citations

6.2  
avg, IF

7.73  
L-index

#	Paper	IF	Citations
799	A transferable machine-learning scheme from pure metals to alloys for predicting adsorption energies. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 872-880	13	3
798	Aluminum-copper alloy anode materials for high-energy aqueous aluminum batteries.. <i>Nature Communications</i> , <b>2022</b> , 13, 576	17.4	8
797	Interface Engineering of Co/CoMoN/NF Heterostructures for High-Performance Electrochemical Overall Water Splitting.. <i>Advanced Science</i> , <b>2022</b> , e2105313	13.6	6
796	Mechanistic insights into the electrochemical Li/Na/K-ion storage for aqueous bismuth anode. <i>Energy Storage Materials</i> , <b>2022</b> , 45, 33-39	19.4	5
795	Effectively boosting selective ammonia synthesis on electron-deficient surface of MoB2. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 305, 121023	21.8	5
794	Inhibited shuttle effect by functional separator for room-temperature sodium-sulfur batteries. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 113, 207-216	9.1	2
793	Ultrasmall AuPd nanoclusters on amine-functionalized carbon blacks as high-performance bi-functional catalysts for ethanol electrooxidation and formic acid dehydrogenation. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 68, 556-563	12	2
792	Ga doping enables superior alkaline hydrogen evolution reaction performances of CoP. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132012	14.7	8
791	Effects of surface and grain boundary on temperature-pressure nano-phase diagrams of nanostructured carbon. <i>Scripta Materialia</i> , <b>2022</b> , 207, 114267	5.6	0
790	Supported Double and Triple Metal Atom Catalysts <b>2022</b> , 613-643		0
789	Os B N /C N as an Efficient Electrocatalyst for Nitrogen Reduction Reaction.. <i>ChemSusChem</i> , <b>2022</b> , e202103648	10.3	0
788	A universal picture for ejecting atoms on metallics. <i>Acta Materialia</i> , <b>2022</b> , 228, 117792	8.4	
787	Tri-metallic AuPdIr nanoalloy towards efficient hydrogen generation from formic acid. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 309, 121228	21.8	1
786	Boosting the OER/ORR/HER activity of Ru-doped Ni/Co oxides heterostructure. <i>Chemical Engineering Journal</i> , <b>2022</b> , 439, 135634	14.7	6
785	Tetragonal transition metal selenide for hydrogen evolution. <i>Applied Surface Science</i> , <b>2022</b> , 591, 1532496.7	6.7	1
784	Ultrahigh-energy and -power aqueous rechargeable zinc-ion microbatteries based on highly cation-compatible vanadium oxides. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 120, 159-166	9.1	3
783	W coordinated with unsymmetrical S1N3 (W-S1N3) as an electrocatalyst for efficient ammonia synthesis. <i>Materials Letters</i> , <b>2022</b> , 320, 132381	3.3	

782	Design heterostructure of NiS-NiS <sub>2</sub> on NiFe Layered Double Hydroxide with Mo doping for efficient overall water splitting. <i>Materials Today Energy</i> , <b>2021</b> , 100906	7	4
781	Tailoring electronic structure of copper nanosheets by silver doping toward highly efficient electrochemical reduction of nitrogen to ammonia. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133752	14.7	7
780	Interface Engineering of CoP/NiP for Boosting the Wide pH Range Water-Splitting Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	2
779	Boosting Production of HCOOH from CO <sub>2</sub> Electroreduction via Bi/CeOx. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 8880-8884	3.6	3
778	Steric Hindrance- and Work Function-Promoted High Performance for Electrochemical CO Methanation on Antisite Defects of MoS and WS. <i>ChemSusChem</i> , <b>2021</b> , 14, 2255-2261	8.3	1
777	CoMoO <sub>3</sub> Nanoplate/Reduced Graphene Oxide Composites Decorated with Ag Nanoparticles for Electrocatalytic Water Oxidation. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 5383-5393	5.6	3
776	Mo-/Co-N-C Hybrid Nanosheets Oriented on Hierarchical Nanoporous Cu as Versatile Electrocatalysts for Efficient Water Splitting. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102285	15.6	15
775	An effective scheme to determine surface energy and its relation with adsorption energy. <i>Acta Materialia</i> , <b>2021</b> , 212, 116895	8.4	6
774	CoMoO <sub>4</sub> /rGO hybrid structure embellished with Cu nanoparticles: An electrocatalyst rich in oxygen vacancies towards enhanced oxygen evolution reaction. <i>Materials Letters</i> , <b>2021</b> , 293, 129741	3.3	1
773	Ball-Cactus-Like Bi Embedded in N-Riched Carbon Nanonetworks Enables the Best Potassium Storage Performance. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103067	15.6	12
772	Ce-Modified Ni(OH) <sub>2</sub> Nanoflowers Supported on NiSe <sub>2</sub> Octahedra Nanoparticles as High-Efficient Oxygen Evolution Electrocatalyst. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101266	21.8	22
771	Potassium-ion batteries with novel N, O enriched corn silk-derived carbon as anode exhibiting excellent rate performance. <i>Journal of Power Sources</i> , <b>2021</b> , 481, 228644	8.9	18
770	W-N <sub>3</sub> center supported on blue phosphorus as a promising efficient electrocatalyst with ultra-low limiting potential for nitrogen fixation. <i>Applied Surface Science</i> , <b>2021</b> , 536, 147706	6.7	6
769	Al, Fe-codoped CoP nanoparticles anchored on reduced graphene oxide as bifunctional catalysts to enhance overall water splitting. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 127856	14.7	15
768	Constructing ultra-long life and super-rate rechargeable aqueous zinc-ion batteries by integrating Mn doped V <sub>6</sub> O <sub>13</sub> nanoribbons with sulfur-nitrogen modified porous carbon. <i>Materials Today Energy</i> , <b>2021</b> , 19, 100593	7	13
767	Mn-doped ZnO microspheres as cathode materials for aqueous zinc ion batteries with ultrastability up to 10 000 cycles at a large current density. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 127770	14.7	4
766	Nanoporous Surface High-Entropy Alloys as Highly Efficient Multisite Electrocatalysts for Nonacidic Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009613	15.6	47
765	Mechanochemistry for ammonia synthesis under mild conditions. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 325-330	38.0	51

764	Metal-organic framework derived Co <sub>3</sub> O <sub>4</sub> @Mo-Co <sub>3</sub> S <sub>4</sub> -Ni <sub>3</sub> S <sub>2</sub> heterostructure supported on Ni foam for overall water splitting. <i>Chemical Engineering Journal</i> , <b>2021</b> , 413, 127482	14.7	17
763	Designing fluorographene with FeN <sub>4</sub> and CoN <sub>4</sub> moieties for oxygen electrode reaction: A density functional theory study. <i>Applied Surface Science</i> , <b>2021</b> , 537, 147846	6.7	10
762	Insights into oxygen activation on metal clusters for catalyst design. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11726-11733	13	2
761	Electronic and geometric determinants of adsorption: fundamentals and applications. <i>JPhys Energy</i> , <b>2021</b> , 3, 022001	4.9	6
760	Understanding water slippage through carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 14737-14745	3.6	1
759	Low-crystallinity mesoporous NiGaFe hydroxide nanosheets on macroporous Ni foam for high-efficiency oxygen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 6223-6231	13	9
758	Tuning the electronic structure of NiCoVO nanosheets through S doping for enhanced oxygen evolution. <i>Nanoscale</i> , <b>2021</b> , 13, 17022-17027	7.7	2
757	Enabling high-performance room-temperature sodium/sulfur batteries with few-layer 2H-MoSe <sub>2</sub> embellished nitrogen-doped hollow carbon spheres as polysulfide barriers. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 3451-3463	13	11
756	Rational design of an Fe cluster catalyst for robust nitrogen activation. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 21219-21227	13	3
755	Regulating Fe <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> by Au Nanoparticles for Efficient N <sub>2</sub> Electroreduction under Ambient Conditions. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003701	21.8	11
754	Boosting Production of HCOOH from CO Electroreduction via Bi/CeO. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 8798-8802	16.4	35
753	Nanoporous Intermetallic Cu Sn/Cu Hybrid Electrodes as Efficient Electrocatalysts for Carbon Dioxide Reduction. <i>Small</i> , <b>2021</b> , 17, e2100683	11	5
752	MOF-Derived Fe S Nanoparticles/N-Doped Carbon Nanofibers as an Ultra-Stable Anode for Sodium-Ion Batteries. <i>Small</i> , <b>2021</b> , 17, e2102349	11	8
751	Sodium storage performance of ultrasmall SnSb nanoparticles. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129617	14.7	4
750	Synergistic Effect of Active Sites of Double-Atom Catalysts for Nitrogen Reduction Reaction. <i>ChemSusChem</i> , <b>2021</b> , 14, 4593-4600	8.3	2
749	Well-dispersive Pt nanoparticles grown on 3D nitrogen- and sulfur-codoped graphene nanoribbon architectures: highly active electrocatalysts for methanol oxidation. <i>Materials Today Energy</i> , <b>2021</b> , 21, 100814	7	5
748	A self-supporting bifunctional catalyst electrode made of amorphous and porous CoP <sub>3</sub> nanoneedle array: exhaling during overall water splitting. <i>Electrochimica Acta</i> , <b>2021</b> , 393, 138986	6.7	2
747	High spin polarization ultrafine Rh nanoparticles on CNT for efficient electrochemical N <sub>2</sub> fixation to ammonia. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 298, 120592	21.8	9

746	Theory-guided design of nanoporous CuMn alloy for efficient electrocatalytic nitrogen reduction to ammonia. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 131843	14.7	9
745	Mo decoration on graphene edge for nitrogen fixation: A computational investigation. <i>Applied Surface Science</i> , <b>2021</b> , 568, 150867	6.7	3
744	Design of bimetallic atomic catalysts for CO <sub>2</sub> reduction based on an effective descriptor. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 4770-4780	13	13
743	Rational design of porous Sn nanospheres/N-doped carbon nanofibers as an ultra-stable potassium-ion battery anode material. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5740-5750	13	14
742	Efficient Electrocatalytic Nitrogen Reduction to Ammonia on Ultrafine Sn Nanoparticles.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 59834-59842	9.5	3
741	Mesoporous FeMoV Oxide Nanosheets Supported on Nickel Foam as Highly Efficient Electrocatalysts for the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 14059-14067	6.1	1
740	Eggshell-like MoS <sub>2</sub> Nanostructures with Negative Curvature and Stepped Faces for Efficient Hydrogen Evolution Reactions. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 14086-14093	5.6	1
739	Giant Rashba splitting in one-dimensional atomic tellurium chains. <i>Nanoscale</i> , <b>2020</b> , 12, 10277-10283	7.7	6
738	Hydrangea-like microspheres as anodes toward long-life and high-capacity lithium storage. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 12151-12164	4.3	3
737	3D hierarchical self-supported NiO/Co <sub>3</sub> O <sub>4</sub> @C/CoS <sub>2</sub> nanocomposites as electrode materials for high-performance supercapacitors. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 2785-2791	5.1	13
736	Mesoporous Nitrogen-Doped Carbon Nanospheres as Sulfur Matrix and a Novel Chelate-Modified Separator for High-Performance Room-Temperature Na-S Batteries. <i>Small</i> , <b>2020</b> , 16, e1907464	11	24
735	Composition- and layer-dependent bandgap of two-dimensional transition metal dichalcogenides alloys. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 124, 114243	3	1
734	Spontaneously separated intermetallic CoMo from nanoporous copper as versatile electrocatalysts for highly efficient water splitting. <i>Nature Communications</i> , <b>2020</b> , 11, 2940	17.4	76
733	Lamella-nanostructured eutectic zinc-aluminum alloys as reversible and dendrite-free anodes for aqueous rechargeable batteries. <i>Nature Communications</i> , <b>2020</b> , 11, 1634	17.4	195
732	Determining the adsorption energies of small molecules with the intrinsic properties of adsorbates and substrates. <i>Nature Communications</i> , <b>2020</b> , 11, 1196	17.4	58
731	A triple atom catalyst with ultrahigh loading potential for nitrogen electrochemical reduction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15086-15093	13	19
730	Graphene-MoS <sub>2</sub> vertically anchored on an MXene-derived accordion-like TiO <sub>2</sub> /C skeleton: an ultrastable HER catalyst. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 14223-14233	13	17
729	Nonlocal Electronic Correlations in the Cohesive Properties of High-Pressure Hydrogen Solids. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1521-1527	6.4	3

728	Efficient CO <sub>2</sub> Reduction to HCOOH with High Selectivity and Energy Efficiency over Bi/rGO Catalyst. <i>Small Methods</i> , <b>2020</b> , 4, 1900846	12.8	34
727	The VN <sub>3</sub> embedded graphane with the improved selectivity for nitrogen fixation. <i>Applied Surface Science</i> , <b>2020</b> , 513, 145855	6.7	12
726	Rice-shaped Fe <sub>2</sub> O <sub>3</sub> @C@Mn <sub>3</sub> O <sub>4</sub> with three-layer core-shell structure as a high-performance anode for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 861, 113942	4.1	3
725	Recent progress on metallic Sn- and Sb-based anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2913-2933	13	46
724	Flexible Co-Mo-N/Au Electrodes with a Hierarchical Nanoporous Architecture as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907214	24	57
723	Effective scheme for understanding rolling and sliding at nanoscale. <i>Carbon</i> , <b>2020</b> , 161, 269-276	10.4	3
722	Engineering oxygen vacancy on iron oxides/hollow carbon cloth electrode toward stable lithium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124229	14.7	14
721	Sulfur-Modified Carbon-Coated CoMoO <sub>3</sub> Nanohybrid Electrodes for Enhanced Lithium-Storage Capacity. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 1808-1820	5.6	4
720	Intermetallic CuZr Clusters Anchored on Hierarchical Nanoporous Copper as Efficient Catalysts for Hydrogen Evolution Reaction. <i>Research</i> , <b>2020</b> , 2020, 2987234	7.8	11
719	Universal Principle to Describe Reactivity and Selectivity of CO <sub>2</sub> Electroreduction on Transition Metals and Single-Atom Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 25898-25906	3.8	7
718	MnO/Mn <sub>2</sub> O <sub>3</sub> Nanowires Coated by Porous N-Doped Carbon for Long-Cycle and High-Rate Lithium-Ion Batteries. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 5612-5624	5.6	13
717	Highly Nitrogen-Doped Porous Carbon Nanosheets as High-Performance Anode for Potassium-Ion Batteries. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 185-193	5.6	19
716	N/O Dual-Doped Environment-Friendly Hard Carbon as Advanced Anode for Potassium-Ion Batteries. <i>Advanced Science</i> , <b>2020</b> , 7, 1902547	13.6	113
715	Distinguishing the Structure of High-Pressure Hydrogen with Dielectric Constants. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 664-669	6.4	2
714	3D flower-Like Co <sub>1-x</sub> S/MoS <sub>2</sub> composite for long-life and high-rate lithium storage. <i>Journal of Energy Storage</i> , <b>2020</b> , 27, 101135	7.8	6
713	NiS <sub>2</sub> nanoparticles anchored on open carbon nanohelmets as an advanced anode for lithium-ion batteries. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 512-519	5.1	10
712	A layered porous Ni structure contributes to superior low-temperature performance of hydrogen storage alloys. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 2157-2167	6.7	4
711	Suppressed Shuttle via Inhibiting the Formation of Long-Chain Lithium Polysulfides and Functional Separator for Greatly Improved Lithium/Organosulfur Batteries Performance. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902695	21.8	15

710	Design of Effective Graphene with the TM/O Moiety for the Oxygen Electrode Reaction. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 260-267	6.1	13
709	Effective Descriptor for Designing High-Performance Catalysts for the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 23134-23142	3.8	9
708	Oxidation Resistance Failure of Dilute CuAl alloys at 800 °C. <i>Materials Today Communications</i> , <b>2020</b> , 25, 101529	2.5	0
707	Enhancing the brightness and saturation of noniridescent structural colors by optimizing the grain size. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 4581-4590	5.1	3
706	Hollow N-doped carbon nanofibers provide superior potassium-storage performance. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 4187-4198	5.1	4
705	High-loading intrinsic active sites for ammonia synthesis using efficient single-atom catalyst: 2D tungsten-porphyrin sheet. <i>Applied Surface Science</i> , <b>2020</b> , 529, 147183	6.7	10
704	Scheme for Screening O <sub>2</sub> Reduction Electrocatalysts: From Pure Metals and Alloys to Single-Atom Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 25412-25420	3.8	6
703	MOF-derived LDH wrapped with rGO as an efficient sulfur host for lithium-sulfur batteries. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 876, 114545	4.1	5
702	A machine learning scheme for the catalytic activity of alloys with intrinsic descriptors. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17507-17515	13	21
701	Electrochemical performance of electrospun lotus root structure porous multichannel carbon nanotubes for lithium-sulfur battery applications. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 878, 114564	4.1	6
700	Distinguishing the Structures of High-Pressure Hydrides with Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 9439-9445	6.4	0
699	Composites of Reduced Graphene Oxide and Fe <sub>2</sub> O <sub>3</sub> Nanoparticles Anchored on MoS <sub>2</sub> Nanosheets for Lithium Storage. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 9009-9015	5.6	2
698	Fe <sub>7</sub> Se <sub>8</sub> nanoparticles anchored on N-doped carbon nanofibers as high-rate anode for sodium-ion batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 24, 439-449	19.4	66
697	CO adsorption on metal doped 2D InSe: Mechanism and application. <i>Progress in Natural Science: Materials International</i> , <b>2019</b> , 29, 305-309	3.6	6
696	Dual-phase nanostructuring of layered metal oxides for high-performance aqueous rechargeable potassium ion microbatteries. <i>Nature Communications</i> , <b>2019</b> , 10, 4292	17.4	48
695	Three-dimensional Ni/MnO <sub>2</sub> nanocylinder array with high capacitance for supercapacitors. <i>Results in Physics</i> , <b>2019</b> , 12, 1411-1416	3.7	7
694	Highly Efficient Photoelectrochemical Water Splitting: Surface Modification of Cobalt-Phosphate-Loaded Co <sub>3</sub> O <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> p-n Heterojunction Nanorod Arrays. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1801902	15.6	119
693	Atomic (single, double, and triple atoms) catalysis: frontiers, opportunities, and challenges. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3492-3515	13	160

692	Tuning the catalytic activity of a single Mo atom supported on graphene for nitrogen reduction via Se atom doping. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 14583-14588	3.6	40
691	Nanoporous PalladiumSilver Surface Alloys as Efficient and pH-Universal Catalysts for the Hydrogen Evolution Reaction. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1379-1386	20.1	44
690	Fe <sub>3</sub> 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> , <b>2019</b> , 29, 1901949	15.6	136
689	Generating Defect-Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 9464-9469	16.4	178
688	Generating Defect-Rich Bismuth for Enhancing the Rate of Nitrogen Electroreduction to Ammonia. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 9564-9569	3.6	30
687	Enhanced reversible capability of a macroporous ZnMn <sub>2</sub> O <sub>4</sub> /C microsphere anode with a water-soluble binder for long-life and high-rate lithium-ion storage. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 1535-1545	6.8	21
686	Favored decomposition paths of hydrogen sulfide at high pressure. <i>New Journal of Physics</i> , <b>2019</b> , 21, 033023	2.9	5
685	Ethanol Assisted Transfer for Clean Assembly of 2D Building Blocks and Suspended Structures. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902427	15.6	8
684	Simultaneous Achieving of High Faradaic Efficiency and CO Partial Current Density for CO <sub>2</sub> Reduction via Robust, Noble-Metal-Free Zn Nanosheets with Favorable Adsorption Energy. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900276	21.8	51
683	Molecular Switch by Adsorbing the Au <sub>6</sub> Cluster on Single-Walled Carbon Nanotubes: Role of Many-Body Effects of vdW Forces. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 9217-9222	3.8	3
682	Single metal atoms regulated flexibly by a 2D InSe substrate for CO <sub>2</sub> reduction electrocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8210-8217	13	17
681	Charge Storage by Electrochemical Reaction of Water Bilayers Absorbed on MoS Monolayers. <i>Scientific Reports</i> , <b>2019</b> , 9, 3980	4.9	9
680	Nanoporous gold supported chromium-doped NiFe oxyhydroxides as high-performance catalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9690-9697	13	22
679	Design of Pt/t-ZrO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> efficient photocatalyst for the hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 251, 305-312	21.8	60
678	A Simple and Effective Principle for a Rational Design of Heterogeneous Catalysts for Dehydrogenation of Formic Acid. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806781	24	53
677	Monolayer tellurenyne assembled with helical telluryne: structure and transport properties. <i>Nanoscale</i> , <b>2019</b> , 11, 4053-4060	7.7	7
676	Raising glass transition temperature of polymer nanofilms as a function of negative interface energy. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 5224-5231	3.6	
675	The microtubule-associated protein EML3 regulates mitotic spindle assembly by recruiting the Augmin complex to spindle microtubules. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 5643-5656	5.4	4



674	Improved electrochemical performance of Li-S battery with carbon and polymer-modified cathode. <i>Applied Surface Science</i> , <b>2019</b> , 479, 265-272	6.7	22
673	N-Doped Carbon Nanonecklaces with Encapsulated Sb as a Sodium-Ion Battery Anode. <i>Matter</i> , <b>2019</b> , 1, 720-733	12.7	43
672	Recent advances of nanoporous metal-based catalyst: synthesis, application and perspectives. <i>Journal of Iron and Steel Research International</i> , <b>2019</b> , 26, 779-795	1.2	5
671	Insight into the excellent catalytic activity of (CoMo)S <sub>2</sub> /graphene for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 258, 118012	21.8	31
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669	ZnFe <sub>2</sub> O <sub>4</sub> @PPy core-shell structure for high-rate lithium-ion storage. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 851, 113442	4.1	11
668	Dissociating stable nitrogen molecules under mild conditions by cyclic strain engineering. <i>Science Advances</i> , <b>2019</b> , 5, eaax8275	14.3	8
667	Facile Synthesis of Flower-Like MnCo O @PANI-rGO: A High-Performance Anode Material for Lithium-Ion Batteries. <i>ChemPlusChem</i> , <b>2019</b> , 84, 1596-1603	2.8	4
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665	Low-Temperature Conversion of Alcohols into Bulky Nanoporous Graphene and Pure Hydrogen with Robust Selectivity on CaO. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807267	24	16
664	Understanding electro-catalysis by using density functional theory. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 23782-23802	3.6	30
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657	In-situ synthesis of Co <sub>1-x</sub> S-rGO composite for high-rate lithium-ion storage. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 833, 380-386	4.1	9

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655	Prevention of dendrite growth and volume expansion to give high-performance aprotic bimetallic Li-Na alloy-O batteries. <i>Nature Chemistry</i> , <b>2019</b> , 11, 64-70	17.6	198
654	Tailoring Oxygen Vacancies of BiVO <sub>4</sub> toward Highly Efficient Noble-Metal-Free Electrocatalyst for Artificial N <sub>2</sub> Fixation under Ambient Conditions. <i>Small Methods</i> , <b>2019</b> , 3, 1800333	12.8	61
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651	Adsorption of Na on silicene for potential anode for Na-ion batteries. <i>Electrochimica Acta</i> , <b>2019</b> , 297, 497-503	6.7	19
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640	Discovery of cobweb-like MoC <sub>6</sub> and its application for nitrogen fixation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9623-9628	13	60
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545	Highly Uniform Perfluoropropane-Loaded Cerasomal Microbubbles As a Novel Ultrasound Contrast Agent. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 15024-32	9.5	19
544	Facile Synthesis of Ni Zn Fe O (x=0, 0.25, 0.5, 0.75, 1) as Anode Materials for Lithium Storage. <i>ChemPlusChem</i> , <b>2016</b> , 81, 1174-1181	2.8	10
543	Edge or interface effect on bandgap openings in graphene nanostructures: A thermodynamic approach. <i>Coordination Chemistry Reviews</i> , <b>2016</b> , 326, 1-33	23.2	15
542	Effects of size on mass density and its influence on mechanical and thermal properties of ZrO <sub>2</sub> nanoparticles in different structures. <i>Bulletin of Materials Science</i> , <b>2016</b> , 39, 1295-1302	1.7	10
541	Scalable Nanoporous (PtNi)Al Intermetallic Compounds as Highly Active and Stable Catalysts for Oxygen Electroreduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 32910-32917	9.5	21
540	Design of Hydrogen Storage Alloys/Nanoporous Metals Hybrid Electrodes for Nickel-Metal Hydride Batteries. <i>Scientific Reports</i> , <b>2016</b> , 6, 27601	4.9	21
539	A novel open architecture built by ultra-fine single-crystal Co <sub>2</sub> (CO <sub>3</sub> )(OH) <sub>2</sub> nanowires and reduced graphene oxide for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17171-17179	13	53
538	Nanoporous (Pt <sub>1-x</sub> Fe <sub>x</sub> ) <sub>3</sub> Al intermetallic compounds for greatly enhanced oxygen electroreduction catalysis. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18878-18884	13	16
537	Robust superhydrophobic surface on Al substrate with durability, corrosion resistance and ice-phobicity. <i>Scientific Reports</i> , <b>2016</b> , 6, 20933	4.9	63
536	High Efficient Photo-Fenton Catalyst of Fe <sub>2</sub> O <sub>3</sub> /MoS <sub>2</sub> Hierarchical Nanoheterostructures: Reutilization for Supercapacitors. <i>Scientific Reports</i> , <b>2016</b> , 6, 31591	4.9	55
535	Remarkable Improvements in Volumetric Energy and Power of 3D MnO <sub>2</sub> Microsupercapacitors by Tuning Crystallographic Structures. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1830-1839	15.6	96
534	A unique porous architecture built by ultrathin wrinkled NiCoO <sub>2</sub> /rGO/NiCoO <sub>2</sub> sandwich nanosheets for pseudocapacitance and Li ion storage. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10304-10313	13	57
533	Effect of modification degree of nanohydroxyapatite on biocompatibility and mechanical property of injectable poly(methyl methacrylate)-based bone cement. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2016</b> , 104, 576-84	3.5	18
532	Controlling phase transition for single-layer MTe <sub>2</sub> (M = Mo and W): modulation of the potential barrier under strain. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 4086-94	3.6	74
531	Ultrahigh-Power Pseudocapacitors Based on Ordered Porous Heterostructures of Electron-Correlated Oxides. <i>Advanced Science</i> , <b>2016</b> , 3, 1500319	13.6	36



530	Nanostructured Co <sub>x</sub> Ni <sub>1-x</sub> bimetallic alloys for high efficient and ultrafast adsorption: experiments and first-principles calculations. <i>RSC Advances</i> , <b>2016</b> , 6, 9209-9220	3.7	12
529	Enzymatic PEGylated Poly(lactone-co- $\alpha$ -amino ester) Nanoparticles as Biodegradable, Biocompatible and Stable Vectors for Gene Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 490-501	9.5	34
528	In situ prepared reduced graphene oxide/CoO nanowires mutually-supporting porous structure with enhanced lithium storage performance. <i>Electrochimica Acta</i> , <b>2016</b> , 190, 276-284	6.7	51
527	Photothermo-chemotherapy of cancer employing drug leakage-free gold nanoshells. <i>Biomaterials</i> , <b>2016</b> , 78, 40-9	15.6	68
526	A Novel and Effective Method for Congestive Heart Failure Detection and Quantification Using Dynamic Heart Rate Variability Measurement. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165304	3.7	33
525	Local Geometric Effects on Stability and Energy Gap of Thiolate-Protected Gold Nanoparticles. <i>ChemPhysChem</i> , <b>2016</b> , 17, 2998-3003	3.2	3
524	Facile Synthesis of Non-Graphitizable Polypyrrole-Derived Carbon/Carbon Nanotubes for Lithium-ion Batteries. <i>Scientific Reports</i> , <b>2016</b> , 6, 19317	4.9	47
523	Discriminating between Metallic and Semiconducting Single-Walled Carbon Nanotubes Using Physisorbed Adsorbates: Role of Wavelike Charge-Density Fluctuations. <i>Physical Review Letters</i> , <b>2016</b> , 117, 246101	7.4	16
522	Hydrogen storage alloys/reduced graphite oxide: an efficient hybrid electrode with enhanced high-rate dischargeability. <i>Electrochimica Acta</i> , <b>2016</b> , 200, 59-65	6.7	26
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518	A Mini Review on the Functional Biomaterials Based on Poly(lactic acid) Stereocomplex. <i>Polymer Reviews</i> , <b>2016</b> , 56, 262-286	14	63
517	Dual-targeting hybrid nanoparticles for the delivery of SN38 to Her2 and CD44 overexpressed human gastric cancer. <i>Nanoscale</i> , <b>2016</b> , 8, 11543-58	7.7	41
516	In situ grown Co <sub>3</sub> O <sub>4</sub> on hydrogen storage alloys for enhanced electrochemical performance. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 8946-8953	6.7	19
515	In situ transformation of casein/CaCO <sub>3</sub> microspheres into hierarchical hydroxyapatite composite microparticles and its cytocompatibility evaluation. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 6836-6849	4.3	4
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505	Construction of Silver Nanoparticle-Loaded Micelles Via Coordinate Interaction and Their Antibacterial Activity. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2015</b> , 64, 848-856	3	5
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4 <sup>16</sup>	Low-temperature hydrothermal synthesis of Fe/Fe <sub>3</sub> O <sub>4</sub> nanocomposite for fast Congo red removal. <i>Dalton Transactions</i> , <b>2013</b> , 42, 2572-9	4.3	53
4 <sup>15</sup>	Dense and smooth amorphous films of multicomponent FeCoNiCuVZrAl high-entropy alloy deposited by direct current magnetron sputtering. <i>Materials &amp; Design</i> , <b>2013</b> , 46, 675-679		58
4 <sup>14</sup>	Effects of Mass Layer Stiffness and Imperfect Bonding on a Quartz Crystal Microbalance. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 574-580	4	3
4 <sup>13</sup>	Bandgap Opening of Bilayer Graphene by Dual Doping from Organic Molecule and Substrate. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 12873-12881	3.8	66
4 <sup>12</sup>	Microstructure and tensile properties of FeMnNiCuCoSn <sub>x</sub> high entropy alloys. <i>Materials &amp; Design</i> , <b>2013</b> , 44, 223-227		46
4 <sup>11</sup>	A comparable study of structural and electrical transport properties of Al and Cu nanowires using first-principle calculations. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 263108	3.4	4
4 <sup>10</sup>	Effect of Lanthanum on Grain Refinement of Casting Aluminum-Copper Alloy. <i>International Journal of Metalcasting</i> , <b>2013</b> , 7, 49-54	1.4	10
4 <sup>09</sup>	Dislocation-mediated creep process in nanocrystalline Cu. <i>Chinese Physics B</i> , <b>2013</b> , 22, 037303	1.2	7
4 <sup>08</sup>	An efficient CoAuPd/C catalyst for hydrogen generation from formic acid at room temperature. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 4406-9	16.4	304
4 <sup>07</sup>	Effects of asymmetric and nonuniform mass layers on quartz crystal microbalances. <i>Philosophical Magazine Letters</i> , <b>2013</b> , 93, 27-33	1	0
4 <sup>06</sup>	An Efficient CoAuPd/C Catalyst for Hydrogen Generation from Formic Acid at Room Temperature. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 4502-4505	3.6	46
4 <sup>05</sup>	Microstructure and the properties of FeCoCuNiSn <sub>x</sub> high entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 548, 64-68	5.3	98

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403	Improved electromigration reliability of Cu films by doping and interface engineering. <i>Solid State Communications</i> , <b>2012</b> , 152, 210-214	1.6	
402	Size effect on surface tension of liquid binary alloy droplets. <i>Solid State Communications</i> , <b>2012</b> , 152, 573-576	5	
401	Superhydrophobic Behavior and Optical Properties of ZnO Film Fabricated by Hydrothermal Method. <i>Journal of Materials Science and Technology</i> , <b>2012</b> , 28, 103-108	9.1	9
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399	Fabrication and characterization of a novel fluffy polypyrrole fibrous scaffold designed for 3D cell culture. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 18321		44
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396	Enhanced UV emission of Y-doped ZnO nanoparticles. <i>Applied Surface Science</i> , <b>2012</b> , 258, 6735-6738	6.7	65
395	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> , <b>2012</b> , 37, 10229-10235	6.7	79
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393	Improvement of electromigration reliability and diffusion of Cu films using coherent Cu(111)/Cr <sub>2</sub> O <sub>3</sub> (0001) interfaces. <i>Chemical Physics Letters</i> , <b>2012</b> , 542, 85-88	2.5	10
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388	First-principles study of optical properties in Ca-doped ZnO alloys. <i>Open Physics</i> , <b>2012</b> , 10,	1.3	2
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382	Reversible Transition of Graphene from Hydrophobic to Hydrophilic in the Presence of an Electric Field. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 19321-19326	3.8	42
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379	Density functional theory calculations for two-dimensional silicene with halogen functionalization. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 257-61	3.6	175
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360	Thermodynamics of Interfaces <b>2011</b> , 207-293		
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6	Reverse Hall-Petch Relationship of Metals in Nanometer Size		4
5	Size Dependent Surface Energy and Surface Tension		1
4	Two-dimensional equations for electroelastic plates under biasing fields		1
3	Wave propagation in electrostrictive materials under biasing fields		3
2	Analysis of a plate piezoelectric gyroscope by equations for a piezoelectric parallelepiped		1
1	Physicochemical insight into gap openings in graphene		1