Liang Chen

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/2714365/liang-chen-publications-by-year.pdf

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

192	11,624	57	103
papers	citations	h-index	g-index
200 ext. papers	14,015 ext. citations	8.2 avg, IF	6.78 L-index

#	Paper	IF	Citations
192	Ligand Defect Density Regulation in Metal-Organic Frameworks by Functional Group Engineering on Linkers <i>Nano Letters</i> , 2022 ,	11.5	5
191	Photosynthetic and hydraulic traits influence forest resistance and resilience to drought stress across different biomes <i>Science of the Total Environment</i> , 2022 , 154517	10.2	4
190	Investigation on a Zr-based metal-organic framework (MOF-801) for the high-performance separation of light alkanes. <i>Chemical Communications</i> , 2021 , 57, 13008-13011	5.8	O
189	Tuning the magnetic properties of Fe3GeTe2 by doping with 3d transition-metals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics,</i> 2021 , 396, 127219	2.3	O
188	High-Throughput Screening of a Single-Atom Alloy for Electroreduction of Dinitrogen to Ammonia. <i>ACS Applied Materials & Dinitrogen to Ammonia</i> .	9.5	13
187	MXenes as Superexcellent Support for Confining Single Atom: Properties, Synthesis, and Electrocatalytic Applications. <i>Small</i> , 2021 , 17, e2007113	11	13
186	Fast and Stable Electrochemical Production of H2O2 by Electrode Architecture Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7120-7129	8.3	8
185	Heterogeneous single-cluster catalysts (Mn3, Fe3, Co3, and Mo3) supported on nitrogen-doped graphene for robust electrochemical nitrogen reduction. <i>Journal of Energy Chemistry</i> , 2021 , 54, 612-619	12	19
184	Effects of stand age on tree biomass partitioning and allometric equations in Chinese fir (Cunninghamia lanceolata) plantations. <i>European Journal of Forest Research</i> , 2021 , 140, 317-332	2.7	9
183	Stability in subtropical forests: The role of tree species diversity, stand structure, environmental and socio-economic conditions. <i>Global Ecology and Biogeography</i> , 2021 , 30, 500-513	6.1	9
182	MOF-Derived Zinc-Doped Ruthenium Oxide Hollow Nanorods as Highly Active and Stable Electrocatalysts for Oxygen Evolution in Acidic Media. <i>ChemNanoMat</i> , 2021 , 7, 117-121	3.5	4
181	Tight coupling of fungal community composition with soil quality in a Chinese fir plantation chronosequence. <i>Land Degradation and Development</i> , 2021 , 32, 1164-1178	4.4	10
180	Recent advances on electrocatalytic fixation of nitrogen under ambient conditions. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 5516-5533	7.8	4
179	Transformation from a non-radical to a radical pathway the amorphization of a Ni(OH) catalyst as a peroxymonosulfate activator for the ultrafast degradation of organic pollutants. <i>Nanoscale</i> , 2021 , 13, 7700-7708	7.7	0
178	Ultrathin Reduced Graphene Oxide/Organosilica Hybrid Membrane for Gas Separation. <i>Jacs Au</i> , 2021 , 1, 328-335		4
177	Recent Advance of Transition-Metal-Based Layered Double Hydroxide Nanosheets: Synthesis, Properties, Modification, and Electrocatalytic Applications. <i>Advanced Energy Materials</i> , 2021 , 11, 200286	5 3 1.8	43
176	Forest conversion to plantations: A meta-analysis of consequences for soil and microbial properties and functions. <i>Global Change Biology</i> , 2021 , 27, 5643-5656	11.4	6

(2020-2021)

175	Enhancement of Mass Transfer for Facilitating Industrial-Level CO2 Electroreduction on Atomic Ni?N4 Sites. <i>Advanced Energy Materials</i> , 2021 , 11, 2102152	21.8	8
174	Systematical review of interactions between microplastics and microorganisms in the soil environment. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126288	12.8	21
173	Atomically Dispersed High-Density Al-N Sites in Porous Carbon for Efficient Photodriven CO Cycloaddition. <i>Advanced Materials</i> , 2021 , 33, e2103186	24	12
172	Ecosystem service multifunctionality of Chinese fir plantations differing in stand age and implications for sustainable management. <i>Science of the Total Environment</i> , 2021 , 788, 147791	10.2	2
171	Soil Fungal Communities and Enzyme Activities along Local Tree Species Diversity Gradient in Subtropical Evergreen Forest. <i>Forests</i> , 2021 , 12, 1321	2.8	
170	Microwave-assisted synthesis of Zr-based metalörganic framework (Zr-fum-fcu-MOF) for gas adsorption separation. <i>Chemical Physics Letters</i> , 2021 , 780, 138906	2.5	3
169	Enhanced catalytic performance of Pt by coupling with carbon defects. <i>Innovation(China)</i> , 2021 , 2, 1001	6:1 7.8	2
168	Theoretical investigation of defective MXenes as potential electrocatalysts for CO reduction toward C products. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 12431-12438	3.6	2
167	Recent Progress in Low Pt Content Electrocatalysts for Hydrogen Evolution Reaction. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000396	4.6	32
166	The soil properties and their effects on plant diversity in different degrees of rocky desertification. <i>Science of the Total Environment</i> , 2020 , 736, 139667	10.2	12
165	Ammonia Thermal Treatment toward Topological Defects in Porous Carbon for Enhanced Carbon Dioxide Electroreduction. <i>Advanced Materials</i> , 2020 , 32, e2001300	24	60
164	Effects of tree species richness on fine root production varied with stand density and soil nutrients in subtropical forests. <i>Science of the Total Environment</i> , 2020 , 733, 139344	10.2	6
163	Recent Advances in Metal-Organic Frameworks and Their Derived Materials for Electrocatalytic Water Splitting. <i>ChemElectroChem</i> , 2020 , 7, 1805-1824	4.3	27
162	Graphdiyne: A Rising Star of Electrocatalyst Support for Energy Conversion. <i>Advanced Energy Materials</i> , 2020 , 10, 2000177	21.8	53
161	Transition metal based heterogeneous electrocatalysts for the oxygen evolution reaction at near-neutral pH. <i>Nanoscale</i> , 2020 , 12, 9924-9934	7.7	11
160	Strategy to improve gold nanoparticles loading efficiency on defect-free high silica ZSM-5 zeolite for the reduction of nitrophenols. <i>Chemosphere</i> , 2020 , 256, 127083	8.4	41
159	Mg-Doping improves the performance of Ru-based electrocatalysts for the acidic oxygen evolution reaction. <i>Chemical Communications</i> , 2020 , 56, 1749-1752	5.8	21
158	Anchoring single-unit-cell defect-rich bismuth molybdate layers on ultrathin carbon nitride nanosheet with boosted charge transfer for efficient photocatalytic ciprofloxacin degradation. Journal of Colloid and Interface Science, 2020, 560, 701-713	9.3	42

157	Highly efficient N fixation catalysts: transition-metal carbides MC (MXenes). Nanoscale, 2020, 12, 538-5	54 ₹ .7	46
156	A Co-Doped Nanorod-like RuO Electrocatalyst with Abundant Oxygen Vacancies for Acidic Water Oxidation. <i>IScience</i> , 2020 , 23, 100756	6.1	61
155	Species richness and functional-trait effects on fine root biomass along a subtropical tree diversity gradient. <i>Plant and Soil</i> , 2020 , 446, 515-527	4.2	9
154	Visible/infrared light-driven high-efficiency CO2 conversion into ethane based on a B C o synergistic catalyst. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22327-22334	13	11
153	Organic matter stabilization in aggregates and density fractions in paddy soil depending on long-term fertilization: Tracing of pathways by 13C natural abundance. <i>Soil Biology and Biochemistry</i> , 2020 , 149, 107931	7.5	19
152	Integrating PtNi nanoparticles on NiFe layered double hydroxide nanosheets as a bifunctional catalyst for hybrid sodiumBir batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16355-16365	13	13
151	Synergistic effects of heteroatom-decorated MXene catalysts for CO reduction reactions. <i>Nanoscale</i> , 2020 , 12, 15880-15887	7.7	13
150	Double Atom Catalysts: Heteronuclear Transition Metal Dimer Anchored on Nitrogen-Doped Graphene as Superior Electrocatalyst for Nitrogen Reduction Reaction. <i>Advanced Theory and Simulations</i> , 2020 , 3, 2000190	3.5	6
149	Effects of root exudate stoichiometry on CO2 emission from paddy soil. <i>European Journal of Soil Biology</i> , 2020 , 101, 103247	2.9	3
148	Atomically dispersed Lewis acid sites boost 2-electron oxygen reduction activity of carbon-based catalysts. <i>Nature Communications</i> , 2020 , 11, 5478	17.4	38
147	Soil Phosphorus Bioavailability and Recycling Increased with Stand Age in Chinese Fir Plantations. <i>Ecosystems</i> , 2020 , 23, 973-988	3.9	19
146	Chromium-ruthenium oxide solid solution electrocatalyst for highly efficient oxygen evolution reaction in acidic media. <i>Nature Communications</i> , 2019 , 10, 162	17.4	201
145	Multiple charge-carrier transfer channels of Z-scheme bismuth tungstate-based photocatalyst for tetracycline degradation: Transformation pathways and mechanism. <i>Journal of Colloid and Interface Science</i> , 2019 , 555, 770-782	9.3	32
144	Theoretical Investigation on the Single Transition-Metal Atom-Decorated Defective MoS for Electrocatalytic Ammonia Synthesis. <i>ACS Applied Materials & Amp; Interfaces</i> , 2019 , 11, 36506-36514	9.5	49
143	CrC Nanoparticle-Embedded Carbon Nanofiber for Artificial Synthesis of NH through N Fixation under Ambient Conditions. <i>ACS Applied Materials & Amp; Interfaces</i> , 2019 , 11, 35764-35769	9.5	30
142	Rationally Designed High-Performance Spin Filter Based on Two-Dimensional Half-Metal Cr2NO2. <i>Matter</i> , 2019 , 1, 1304-1315	12.7	13
141	Degradation of naphthalene with magnetic bio-char activate hydrogen peroxide: Synergism of bio-char and Fe-Mn binary oxides. <i>Water Research</i> , 2019 , 160, 238-248	12.5	183
140	Theoretical Screening of Single Transition Metal Atoms Embedded in MXene Defects as Superior Electrocatalyst of Nitrogen Reduction Reaction. <i>Small Methods</i> , 2019 , 3, 1900337	12.8	124

(2018-2019)

Metal-support interaction boosted electrocatalysis of ultrasmall iridium nanoparticles supported on nitrogen doped graphene for highly efficient water electrolysis in acidic and alkaline media. Nano Energy, 2019 , 62, 117-126	17.1	81
Contrasting patterns and drivers of soil fungal communities in subtropical deciduous and evergreen broadleaved forests. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 5421-5433	5.7	12
Effects of stand age, richness and density on productivity in subtropical forests in China. <i>Journal of Ecology</i> , 2019 , 107, 2266-2277	6	52
Linkage between tree species richness and soil microbial diversity improves phosphorus bioavailability. <i>Functional Ecology</i> , 2019 , 33, 1549-1560	5.6	24
Fabrication of highly selective organosilica membrane for gas separation by mixing bis(triethoxysilyl)ethane with methyltriethoxysilane. <i>Separation and Purification Technology</i> , 2019 , 222, 162-167	8.3	10
Does rice straw application reduce NO emissions from surface flow constructed wetlands for swine wastewater treatment?. <i>Chemosphere</i> , 2019 , 226, 273-281	8.4	12
Hexagonal boron nitride nanosheet for effective ambient N2 fixation to NH3. <i>Nano Research</i> , 2019 , 12, 919-924	10	88
Fabrication of novel magnetic MnFeO/bio-char composite and heterogeneous photo-Fenton degradation of tetracycline in near neutral pH. <i>Chemosphere</i> , 2019 , 224, 910-921	8.4	168
Fabricating Single-Atom Catalysts from Chelating Metal in Open Frameworks. <i>Advanced Materials</i> , 2019 , 31, e1808193	24	103
Design of thin and tubular MOFs-polymer mixed matrix membranes for highly selective separation of H2 and CO2. <i>Separation and Purification Technology</i> , 2019 , 220, 197-205	8.3	15
The effect of Fe vacancies and Cu adhesion on the magnetic properties of FeGeTe. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7588-7593	3.6	7
Transitional Metal Catalytic Pyrite Cathode Enables Ultrastable Four-Electron-Based All-Solid-State Lithium Batteries. <i>ACS Nano</i> , 2019 , 13, 9551-9560	16.7	28
Ultrafine Defective RuO2 Electrocatayst Integrated on Carbon Cloth for Robust Water Oxidation in Acidic Media. <i>Advanced Energy Materials</i> , 2019 , 9, 1901313	21.8	95
Split N and P addition decreases straw mineralization and the priming effect of a paddy soil: a 100-day incubation experiment. <i>Biology and Fertility of Soils</i> , 2019 , 55, 701-712	6.1	16
Electrochemical biosensor for amplified detection of Pb based on perfect match of reduced graphene oxide-gold nanoparticles and single-stranded DNAzyme. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 7499-7509	4.4	13
A molecular-templating strategy to polyamine-incorporated porous organic polymers for unprecedented CO2 capture and separation. <i>Science China Materials</i> , 2019 , 62, 448-454	7.1	9
Coexistence of piezoelectricity and magnetism in two-dimensional vanadium dichalcogenides. <i>Physical Chemistry Chemical Physics</i> , 2018 , 21, 132-136	3.6	53
Ultrasmall RuP nanoparticles on graphene: a highly efficient hydrogen evolution reaction electrocatalyst in both acidic and alkaline media. <i>Chemical Communications</i> , 2018 , 54, 3343-3346	5.8	77
	on nitrogen doped graphene for highly efficient water electrolysis in acidic and alkaline media. <i>Nano Energy</i> , 2019, 62, 117-126 Contrasting patterns and drivers of soil fungal communities in subtropical deciduous and evergreen broadleaved forests. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5421-5433 Effects of stand age, richness and density on productivity in subtropical forests in China. <i>Journal of Ecology</i> , 2019, 107, 2266-2277 Linkage between tree species richness and soil microbial diversity improves phosphorus bioavailability. <i>Functional Ecology</i> , 2019, 33, 1549-1560 Fabrication of highly selective organosilica membrane for gas separation by mixing bistriethoxysitylethane with methyltriethoxysilane. <i>Separation and Purification Technology</i> , 2019, 222, 162-167 Does rice straw application reduce NO emissions from surface flow constructed wetlands for swine wastewater treatment?. <i>Chemosphere</i> , 2019, 226, 273-281 Hexagonal boron nitride nanosheet for effective ambient N2 fixation to NH3. <i>Nano Research</i> , 2019, 12, 919-924 Fabrication of novel magnetic MnFeO/bio-char composite and heterogeneous photo-Fenton degradation of tetracycline in near neutral pH. <i>Chemosphere</i> , 2019, 224, 910-921 Fabricating Single-Atom Catalysts from Chelating Metal in Open Frameworks. <i>Advanced Materials</i> , 2019, 31, e1808193 Design of thin and tubular MOFs-polymer mixed matrix membranes for highly selective separation of H2 and CO2. <i>Separation and Purification Technology</i> , 2019, 220, 197-205 The effect of Fe vacancies and Cu adhesion on the magnetic properties of FeGeTe. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7588-7593 Transitional Metal Catalytic Pyrite Cathode Enables Ultrastable Four-Electron-Based All-Solid-State Lithium Batteries. <i>ACS Nano</i> , 2019, 21, 7588-7593 Transitional Metal Catalytic Pyrite Cathode Enables Ultrastable Four-Electron-Based All-Solid-State Lithium Batteries. <i>ACS Nano</i> , 2019, 21, 7588-7593 Transitional Metal Catalytic Pyrite Cathode Enables Ultrastable Four-Electron-Bas	on nitrogen doped graphene for highly efficient water electrolysis in acidic and alkaline media. Anno Energy, 2019, 62, 117-126 Contrasting patterns and drivers of soil fungal communities in subtropical deciduous and evergreen broadleaved forests. Applied Microbiology and Biotechnology, 2019, 103, 5421-5433 57 Effects of stand age, richness and density on productivity in subtropical forests in China. Journal of Ecology, 2019, 107, 2266-2277 Linkage between tree species richness and soil microbial diversity improves phosphorus bioavailability. Fabrication of highly selective organosilica membrane for gas separation by mixing bistriethoxysily) ethane with methyltriethoxysilane. Separation and Purification Technology, 2019, 222, 162-167 Does rice straw application reduce NO emissions from surface flow constructed wetlands for swine wastewater treatment?. Chemosphere, 2019, 226, 273-281 Hexagonal boron nitride nanosheet for effective ambient N2 fixation to NH3. Nano Research, 2019, 12, 919-924 Fabrication of novel magnetic MnFeO/bio-char composite and heterogeneous photo-Fenton degradation of tetracycline in near neutral pH. Chemosphere, 2019, 224, 910-921 83 Design of thin and tubular MOFs-polymer mixed matrix membranes for highly selective separation of H2 and CO2. Separation and Purification Technology, 2019, 220, 197-205 The effect of Fe vacancies and Cu adhesion on the magnetic properties of FeGeTe. Physical Chemistry Chemical Physics, 2019, 21, 7588-7593 Transitional Metal Catalytic Pyrite Cathode Enables Ultrastable Four-Electron-Based All-Solid-State Lithium Batteries. ACS Nano, 2019, 113, 9551-9560 Ultrafine Defective RuO2 Electrocatayst Integrated on Carbon Cloth for Robust Water Oxidation in Acidic Media. Advanced Energy Materials, 2019, 9, 1901313 Split N and P addition decreases straw mineralization and the priming effect of a paddy soil: a 100-day incubation experiment. Biology and Fertility of Soils, 2019, 55, 701-712 6.1 Electrochemical biosensor for amplifie

121	Recent Progress in the Theoretical Investigation of Electrocatalytic Reduction of CO2. <i>Advanced Theory and Simulations</i> , 2018 , 1, 1800004	3.5	37
120	Efficient Hydrogen Evolution Electrocatalysis at Alkaline pH by Interface Engineering of NiP-CeO. <i>Inorganic Chemistry</i> , 2018 , 57, 548-552	5.1	63
119	Preparation of water-compatible molecularly imprinted thiol-functionalized activated titanium dioxide: Selective adsorption and efficient photodegradation of 2, 4-dinitrophenol in aqueous solution. <i>Journal of Hazardous Materials</i> , 2018 , 346, 113-123	12.8	120
118	Ultrafine PtO nanoparticles coupled with a Co(OH)F nanowire array for enhanced hydrogen evolution. <i>Chemical Communications</i> , 2018 , 54, 810-813	5.8	54
117	A Ni(OH)2PtO2 hybrid nanosheet array with ultralow Pt loading toward efficient and durable alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1967-1970	13	119
116	Si/Ag/C Nanohybrids with in Situ Incorporation of Super-Small Silver Nanoparticles: Tiny Amount, Huge Impact. <i>ACS Nano</i> , 2018 , 12, 861-875	16.7	49
115	Selective phosphidation: an effective strategy toward CoP/CeO2 interface engineering for superior alkaline hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1985-1990	13	151
114	Seasonality distribution of the abundance and activity of nitrification and denitrification microorganisms in sediments of surface flow constructed wetlands planted with Myriophyllum elatinoides during swine wastewater treatment. <i>Bioresource Technology</i> , 2018 , 248, 89-97	11	49
113	Study on biomolecules in extractives of fruit shell by GC-MS. <i>Saudi Journal of Biological Sciences</i> , 2018 , 25, 234-236	4	28
112	Self-supported CoMoS4 nanosheet array as an efficient catalyst for hydrogen evolution reaction at neutral pH. <i>Nano Research</i> , 2018 , 11, 2024-2033	10	120
111	Critical pore dimensions for gases in a BTESE-derived organic-inorganic hybrid silica: A theoretical analysis. <i>Separation and Purification Technology</i> , 2018 , 191, 27-37	8.3	5
110	Stability and electronic properties of sulfur terminated two-dimensional early transition metal carbides and nitrides (MXene). <i>Computational Materials Science</i> , 2018 , 153, 303-308	3.2	27
109	Effects of Forest Restoration on Soil Carbon, Nitrogen, Phosphorus, and Their Stoichiometry in Hunan, Southern China. <i>Sustainability</i> , 2018 , 10, 1874	3.6	16
108	Phase-selective synthesis of self-supported RuP films for efficient hydrogen evolution electrocatalysis in alkaline media. <i>Nanoscale</i> , 2018 , 10, 13930-13935	7.7	47
107	High-Performance Electrohydrogenation of N2 to NH3 Catalyzed by Multishelled Hollow Cr2O3 Microspheres under Ambient Conditions. <i>ACS Catalysis</i> , 2018 , 8, 8540-8544	13.1	218
106	Assembling Ultrasmall Copper-Doped Ruthenium Oxide Nanocrystals into Hollow Porous Polyhedra: Highly Robust Electrocatalysts for Oxygen Evolution in Acidic Media. <i>Advanced Materials</i> , 2018 , 30, e1801351	24	199
105	Insights into High Conductivity of the Two-Dimensional Iodine-Oxidized sp-c-COF. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 43595-43602	9.5	17
104	High magnetoresistance in ultra-thin two-dimensional Cr-based MXenes. <i>Nanoscale</i> , 2018 , 10, 19492-19	9 <i>4₉3</i> 7	13

(2017-2018)

103	Ultrathin-Nanosheets-Composed CoSP Nanobrushes as an All-pH Highly Efficient Catalyst toward Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15618-15623	8.3	11
102	Boosted Electrocatalytic N2 Reduction to NH3 by Defect-Rich MoS2 Nanoflower. <i>Advanced Energy Materials</i> , 2018 , 8, 1801357	21.8	371
101	Electrochemical Ammonia Synthesis via Nitrogen Reduction Reaction on a MoS Catalyst: Theoretical and Experimental Studies. <i>Advanced Materials</i> , 2018 , 30, e1800191	24	524
100	Recent progress in single-atom electrocatalysts: concept, synthesis, and applications in clean energy conversion. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14025-14042	13	160
99	Electrochemical N fixation to NH under ambient conditions: MoN nanorod as a highly efficient and selective catalyst. <i>Chemical Communications</i> , 2018 , 54, 8474-8477	5.8	224
98	Particle size studies to reveal crystallization mechanisms of the metal organic framework HKUST-1 during sonochemical synthesis. <i>Ultrasonics Sonochemistry</i> , 2017 , 34, 365-370	8.9	32
97	Topotactic Conversion of FeO Nanowires into FeP as a Superior Fluorosensor for Nucleic Acid Detection: Insights from Experiment and Theory. <i>Analytical Chemistry</i> , 2017 , 89, 2191-2195	7.8	34
96	Al-Doped CoP nanoarray: a durable water-splitting electrocatalyst with superhigh activity. <i>Nanoscale</i> , 2017 , 9, 4793-4800	7.7	200
95	Facile synthesis of MOFs with uncoordinated carboxyl groups for selective CO2 capture via postsynthetic covalent modification. <i>RSC Advances</i> , 2017 , 7, 3713-3719	3.7	34
94	In situ formation of a 3D core/shell structured Ni3N@Ni B i nanosheet array: an efficient non-noble-metal bifunctional electrocatalyst toward full water splitting under near-neutral conditions. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7806-7810	13	172
93	Cobalt-Borate Nanoarray: An Efficient and Durable Electrocatalyst for Water Oxidation under Benign Conditions. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 15383-15387	9.5	26
92	Bimetallic Nickel-Substituted Cobalt-Borate Nanowire Array: An Earth-Abundant Water Oxidation Electrocatalyst with Superior Activity and Durability at Near Neutral pH. <i>Small</i> , 2017 , 13, 1700394	11	84
91	Self-Standing CoP Nanosheets Array: A Three-Dimensional Bifunctional Catalyst Electrode for Overall Water Splitting in both Neutral and Alkaline Media. <i>ChemElectroChem</i> , 2017 , 4, 1840-1845	4.3	322
90	Enhanced Electrocatalysis for Energy-Efficient Hydrogen Production over CoP Catalyst with Nonelectroactive Zn as a Promoter. <i>Advanced Energy Materials</i> , 2017 , 7, 1700020	21.8	428
89	Metal-Organic Frameworks for Carbon Dioxide Capture and Methane Storage. <i>Advanced Energy Materials</i> , 2017 , 7, 1601296	21.8	260
88	Co-based nanowire films as complementary hydrogen- and oxygen-evolving electrocatalysts in neutral electrolyte. <i>Catalysis Science and Technology</i> , 2017 , 7, 2689-2694	5.5	34
87	A NiCoO@Ni-Co-Ci core-shell nanowire array as an efficient electrocatalyst for water oxidation at near-neutral pH. <i>Chemical Communications</i> , 2017 , 53, 7812-7815	5.8	40
86	Three-Dimensional Nickel-Borate Nanosheets Array for Efficient Oxygen Evolution at Near-Neutral pH. <i>Chemistry - A European Journal</i> , 2017 , 23, 6959-6963	4.8	38

85	Pore-neck resistance to light gases in a microporous BTESE-derived silica: A comparison of membrane and xerogel powder. <i>Journal of Membrane Science</i> , 2017 , 531, 36-46	9.6	4
84	Formation of New Phases to Improve the Visible-Light Photocatalytic Activity of Tio2 (B) Via Introducing Alien Elements. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 52-59	3.8	1
83	Benzoate Anion-Intercalated Layered Cobalt Hydroxide Nanoarray: An Efficient Electrocatalyst for the Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2017 , 10, 4004-4008	8.3	42
82	Tuning magnetic properties of Cr2M2C3T2 (M = Ti and V) using extensile strain. <i>Computational Materials Science</i> , 2017 , 139, 313-319	3.2	22
81	Two-dimensional semiconducting gold. <i>Physical Review B</i> , 2017 , 95,	3.3	10
80	An amorphous FeMoS nanorod array toward efficient hydrogen evolution electrocatalysis under neutral conditions. <i>Chemical Communications</i> , 2017 , 53, 9000-9003	5.8	108
79	A self-supported NiMoS4 nanoarray as an efficient 3D cathode for the alkaline hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16585-16589	13	94
78	Self-Templating Construction of Hollow Amorphous CoMoS Nanotube Array towards Efficient Hydrogen Evolution Electrocatalysis at Neutral pH. <i>Chemistry - A European Journal</i> , 2017 , 23, 12718-127	23 ⁸	40
77	In situ fabrication of ZnO@N-doped nanoporous carbon core-shell heterostructures with high photocatalytic and adsorption capacity by a calcination of ZnO@MOF strategy. <i>Journal of Solid State Chemistry</i> , 2017 , 255, 108-114	3.3	23
76	Metal-Organic Frameworks-Derived Porous In2O3 Hollow Nanorod for High-Performance Ethanol Gas Sensor. <i>ChemistrySelect</i> , 2017 , 2, 10918-10925	1.8	33
75	Nanoscale MOF/organosilica membranes on tubular ceramic substrates for highly selective gas separation. <i>Energy and Environmental Science</i> , 2017 , 10, 1812-1819	35.4	73
74	Se-Ni(OH)2-shelled vertically oriented NiSe nanowires as a superior electrocatalyst toward urea oxidation reaction of fuel cells. <i>Electrochimica Acta</i> , 2017 , 248, 243-249	6.7	43
73	Spatiotemporal and species variations in prokaryotic communities associated with sediments from surface-flow constructed wetlands for treating swine wastewater. <i>Chemosphere</i> , 2017 , 185, 1-10	8.4	17
72	Fe-Based Metal-Organic Framework and Its Derivatives for Reversible Lithium Storage. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 768-774	9.1	23
71	Mn Doping of CoP Nanosheets Array: An Efficient Electrocatalyst for Hydrogen Evolution Reaction with Enhanced Activity at All pH Values. <i>ACS Catalysis</i> , 2017 , 7, 98-102	13.1	362
7º	Irrigation management and phosphorus addition alter the abundance of carbon dioxide-fixing autotrophs in phosphorus-limited paddy soil. <i>FEMS Microbiology Ecology</i> , 2017 , 93,	4.3	14
69	Differential Permeability of Proton Isotopes through Graphene and Graphene Analogue Monolayer. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3395-400	6.4	30
68	Monopolar Magnetic MOF-74 with Hybrid Node NiBe. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26908-	26914	5

(2013-2016)

67	N-rich porous carbon with high CO2 capture capacity derived from polyamine-incorporated metalBrganic framework materials. <i>RSC Advances</i> , 2016 , 6, 53017-53024	3.7	20
66	Facile synthesis of Fe-MOF/RGO and its application as a high performance anode in lithium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 30763-30768	3.7	78
65	Amine-functionalized metal b rganic frameworks: structure, synthesis and applications. <i>RSC Advances</i> , 2016 , 6, 32598-32614	3.7	117
64	Hybrid organosilica membrane with high CO2 permselectivity fabricated by a two-step hot coating method. <i>Journal of Membrane Science</i> , 2016 , 506, 31-37	9.6	16
63	Tunable electronic and magnetic properties of Cr2M?C2T2 (M? = Ti or V; T = O, OH or F). <i>Applied Physics Letters</i> , 2016 , 109, 203109	3.4	55
62	Investigation of magnetic and electronic properties of transition metal doped Sc2CT2 (T = O, OH or F) using a first principles study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12914-9	3.6	53
61	Ternary FeCoP Nanowire Array as a Robust Hydrogen Evolution Reaction Electrocatalyst with Pt-like Activity: Experimental and Theoretical Insight. <i>Nano Letters</i> , 2016 , 16, 6617-6621	11.5	531
60	Formation and Stability of Low-Dimensional Structures for Group VIIIB and IB Transition Metals: The Role of sd Hybridization. <i>Advanced Science</i> , 2016 , 3, 1500314	13.6	6
59	Kinetically Stabilized Pd@Pt CoreBhell Octahedral Nanoparticles with Thin Pt Layers for Enhanced Catalytic Hydrogenation Performance. <i>ACS Catalysis</i> , 2015 , 5, 1335-1343	13.1	62
58	An exceptionally stable functionalized metal-organic framework for lithium storage. <i>Chemical Communications</i> , 2015 , 51, 697-9	5.8	117
57	The stabilities and electronic structures of single-layer bismuth oxyhalides for photocatalytic water splitting. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25854-61	3.6	90
56	Enhanced selective CO2 adsorption on polyamine/MIL-101(Cr) composites. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14658-14665	13	98
55	Study on Superior Tree Selection Methods of Phoebe Hui in Hunan. <i>Advanced Materials Research</i> , 2014 , 1010-1012, 1198-1201	0.5	
54	First-principles study of microporous magnets M-MOF-74 (M = Ni, Co, Fe, Mn): the role of metal centers. <i>Inorganic Chemistry</i> , 2013 , 52, 9356-62	5.1	79
53	A highly permeable mixed matrix membrane containing CAU-1-NH2 for H2 and CO2 separation. <i>Chemical Communications</i> , 2013 , 49, 8513-5	5.8	66
52	Solgel auto-combustion synthesis of NitlexZr1NO2 catalysts for carbon dioxide reforming of methane. <i>RSC Advances</i> , 2013 , 3, 22285	3.7	20
51	Remarkable CO2/CH4 selectivity and CO2 adsorption capacity exhibited by polyamine-decorated metal-organic framework adsorbents. <i>Chemical Communications</i> , 2013 , 49, 6873-5	5.8	106
50	A hollow ceramic fiber supported ZIF-8 membrane with enhanced gas separation performance prepared by hot dip-coating seeding. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13046	13	51

49	Designed Synthesis of Functionalized Two-Dimensional Metal (Drganic Frameworks with Preferential CO2 Capture. <i>ChemPlusChem</i> , 2013 , 78, 86-91	2.8	45
48	High performance ZIF-8 molecular sieve membrane on hollow ceramic fiber via crystallizing-rubbing seed deposition. <i>Chemical Engineering Journal</i> , 2013 , 220, 1-5	14.7	102
47	Methane reforming with carbon dioxide over mesoporous nickelllumina composite catalyst. <i>Chemical Engineering Journal</i> , 2013 , 221, 25-31	14.7	78
46	Colorimetric response of dithizone product and hexadecyl trimethyl ammonium bromide modified gold nanoparticle dispersion to 10 types of heavy metal ions: understanding the involved molecules from experiment to simulation. <i>Langmuir</i> , 2013 , 29, 7591-9	4	53
45	Synthesis of thin amine-functionalized MIL-53 membrane with high hydrogen permeability. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 10795-10801	6.7	9
44	Polyethyleneimine incorporated metal-organic frameworks adsorbent for highly selective CO2 capture. <i>Scientific Reports</i> , 2013 , 3, 1859	4.9	196
43	Facile synthesis of aluminum-based metal-organic frameworks with different morphologies and structures through an OH(-)-assisted method. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 1873-8	4.5	11
42	Surface-termination-dependent Pd bonding and aggregation of nanoparticles on LaFeO(3)(001). <i>Journal of Chemical Physics</i> , 2013 , 138, 144705	3.9	9
41	Catalytic Oxygen Activation on Helical Gold Nanowires. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 111	89 ₃ :181 1	9412
40	Direct synthesis of amine-functionalized MIL-101(Cr) nanoparticles and application for CO2 capture. <i>RSC Advances</i> , 2012 , 2, 6417	3.7	177
39	Highly efficient synthesis of aromatic azos catalyzed by unsupported ultra-thin Pt nanowires. <i>Chemical Communications</i> , 2012 , 48, 3445-7	5.8	81
38	Understanding the chiral selectivity of gold nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 2707-2711	2.3	6
37	A rapid and sensitive colorimetric assay method for Co2+ based on the modified Au nanoparticles (NPs): understanding the involved interactions from experiments and simulations. <i>Talanta</i> , 2012 , 94, 271-7	6.2	32
36	Catalyzed activation of CO2 by a Lewis-base site in WauBTC hybrid metal organic frameworks. <i>Chemical Science</i> , 2012 , 3, 2708	9.4	26
35	Density functional study of hydrogen spillover on direct Pd-doped metal-organic frameworks IRMOF-1. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5081-5089	6.7	17
34	Spin-flip phenomena at the Co graphene Co interfaces. <i>Applied Physics Letters</i> , 2011 , 98, 133111	3.4	11
33	A first principles study of gas adsorption on charged CuBTC. <i>Computational and Theoretical Chemistry</i> , 2011 , 976, 153-160	2	48
32	First principles study of oxygen adsorption and dissociation on the Pd/Au surface alloys. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7112-20	3.6	8

31	Force fields for metallic clusters and nanoparticles. Journal of Computational Chemistry, 2011, 32, 1711-	· 2 ₃ 0 ₅	8
30	Ultrathin platinum nanowire catalysts for direct C-N coupling of carbonyls with aromatic nitro compounds under 1 bar of hydrogen. <i>Chemistry - A European Journal</i> , 2011 , 17, 14283-7	4.8	63
29	The isomeric effect on the adjacent Si dimer didechlorination of trans and iso-dichloroethylene on Si(100)-2 1 . <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7121-8	3.6	2
28	Oxidation of benzylic compounds by gold nanowires at 1 atm O2. <i>Chemical Communications</i> , 2011 , 47, 1303-5	5.8	37
27	Defect-induced magnetism in neutron irradiated 6H-SiC single crystals. <i>Physical Review Letters</i> , 2011 , 106, 087205	7.4	128
26	Molecular simulation of CO2, N2 and CH4 adsorption and separation in ZIF-78 and ZIF-79. <i>Molecular Simulation</i> , 2011 , 37, 1131-1142	2	23
25	First principles study of vacancy and tungsten diffusion in fcc cobalt. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2010 , 18, 015008	2	11
24	A first-principles study on the adhesion of Pt layers to NiO(100) and IrO2(110) surfaces. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 015003	1.8	2
23	Origin of Rh and Pd agglomeration on the CeO2(111) surface. <i>Physical Review B</i> , 2010 , 82,	3.3	17
22	Vacancy-mediated diffusion of carbon in cobalt and its influence on CO activation. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 7848-55	3.6	34
21	A Comparative Study of Hydrogen Spillover on Pd and Pt Decorated MoO3(010) Surfaces from First Principles. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3052-3058	3.8	23
20	Hydrogen adsorption and desorption on the Pt and Pd subnano clusters (a review. <i>Frontiers of Physics in China</i> , 2009 , 4, 356-366		23
19	Sequential H2 Chemisorption and H Desorption on Icosahedral Pt13 and Pd13 Clusters: A Density Functional Theory Study. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009 , 6, 1320-1327	0.3	12
18	Hydrogen Absorption and Diffusion in Bulk EMoO3. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11399-11	408	104
17	A Dominant Dissociation Mode of cis-Dichloroethylene on Si(100)2 [1: Adjacent Si Dimer Double Dechlorination. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21797-21804	3.8	3
16	An enhanced hydrogen adsorption enthalpy for fluoride intercalated graphite compounds. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17732-3	16.4	45
15	Hydrogen dissociative chemisorption and desorption on saturated subnano palladium clusters (Pdn, n = 2-9). <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5445-51	3.6	47
14	On the Mechanisms of Hydrogen Spillover in MoO3. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1755-17.	58 .8	79

13	Prompted hydrogenation of carbon nanotubes by doping light metals. <i>Applied Physics Letters</i> , 2008 , 93, 043104	3.4	13
12	Influence of CO Poisoning on Hydrogen Chemisorption onto a Pt6 Cluster. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13937-13942	3.8	30
11	Hydrogen spillover in the context of hydrogen storage using solid-state materials. <i>Energy and Environmental Science</i> , 2008 , 1, 338	35.4	116
10	Density Functional Study of Sequential H2 Dissociative Chemisorption on a Pt6 Cluster. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 5514-5519	3.8	73
9	Polysulfone and functionalized carbon nanotube mixed matrix membranes for gas separation: Theory and experiment. <i>Journal of Membrane Science</i> , 2007 , 294, 147-158	9.6	310
8	Mechanistic Study on Hydrogen Spillover onto Graphitic Carbon Materials. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18995-19000	3.8	156
7	First principles study of adsorption and dissociation of CO on W(111). <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1344-9	3.4	21
6	Formation of odd-numbered clusters of CO2 adsorbed on nanotube bundles. <i>Physical Review Letters</i> , 2005 , 94, 125701	7.4	28
5	Displacement of CO2 by Xe in single-walled carbon nanotube bundles. <i>Physical Review B</i> , 2004 , 70,	3.3	24
4	Trapped CO2 in Carbon Nanotube Bundles. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12930-12941	3.4	91
3	Adsorption of CF4 on the internal and external surfaces of opened single-walled carbon nanotubes: a vibrational spectroscopy study. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5889-96	16.4	103
2	Understanding the CO2/CH4/N2 Separation Performance of Nanoporous Amorphous N-Doped Carbon Combined Hybrid Monte Carlo with Machine Learning. <i>Advanced Theory and Simulations</i> ,210037	83.5	О
1	Ultra-small RuO2 nanoparticles supported on carbon cloth as a high-performance pseudocapacitive	8.7	0