Qiang Xu

List of Publications by Citations

633 papers	55,774 citations	120 h-index	221 g-index
680 ext. papers	64,656 ext. citations	9.3 avg, IF	8.7 L-index

#	Paper	IF	Citations
633	Metal-organic framework composites. *Chemical Society Reviews*, **2014**, 43, 5468-512	58.5	1539
632	Metal-organic framework as a template for porous carbon synthesis. *Journal of the American Chemical Society*, **2008**, 130, 5390-1	16.4	1403
631	Metal–organic frameworks and their derived nanostructures for electrochemical energy storage and conversion. *Energy and Environmental Science*, **2015**, 8, 1837-1866	35.4	1246
630	Metal-organic frameworks meet metal nanoparticles: synergistic effect for enhanced catalysis. *Chemical Society Reviews*, **2017**, 46, 4774-4808	58.5	1137
629	From Bimetallic Metal-Organic Framework to Porous Carbon: High Surface Area and Multicomponent Active Dopants for Excellent Electrocatalysis. *Advanced Materials*, **2015**, 27, 5010-6	24	1016
628	From metal-organic framework to nanoporous carbon: toward a very high surface area and hydrogen uptake. *Journal of the American Chemical Society*, **2011**, 133, 11854-7	16.4	950
627	Metal-Organic Frameworks as Platforms for Catalytic Applications. *Advanced Materials*, **2018**, 30, e1703663	24	833
626	Synergistic catalysis of Au@Ag core-shell nanoparticles stabilized on metal-organic framework. *Journal of the American Chemical Society*, **2011**, 133, 1304-6	16.4	781
625	Metal–organic frameworks as platforms for clean energy. *Energy and Environmental Science*, **2013**, 6, 1656	35.4	768
624	Porous metal-organic frameworks as platforms for functional applications. *Chemical Communications*, **2011**, 47, 3351-70	5.8	743
623	Metal-Organic Frameworks for Energy Applications. *CheM*, **2017**, 2, 52-80	16.2	737
622	Au@ZIF-8: CO oxidation over gold nanoparticles deposited to metal-organic framework. *Journal of the American Chemical Society*, **2009**, 131, 11302-3	16.4	693
621	Immobilizing highly catalytically active Pt nanoparticles inside the pores of metal-organic framework: a double solvents approach. *Journal of the American Chemical Society*, **2012**, 134, 13926-9	16.4	692
620	Nanomaterials derived from metal–organic frameworks. *Nature Reviews Materials*, **2018**, 3,	73.3	689
619	Fabrication of carbon nanorods and graphene nanoribbons from a metal-organic framework. *Nature Chemistry*, **2016**, 8, 718-24	17.6	674
618	Synergistic catalysis of metal-organic framework-immobilized Au-Pd nanoparticles in dehydrogenation of formic acid for chemical hydrogen storage. *Journal of the American Chemical Society*, **2011**, 133, 11822-5	16.4	645
617	Liquid-phase chemical hydrogen storage materials. *Energy and Environmental Science*, **2012**, 5, 9698	35.4	620

616	MOF-derived electrocatalysts for oxygen reduction, oxygen evolution and hydrogen evolution reactions. *Chemical Society Reviews*, **2020**, 49, 1414-1448	58.5	587
615	A high-performance hydrogen generation system: Transition metal-catalyzed dissociation and hydrolysis of ammonia-borane. *Journal of Power Sources*, **2006**, 156, 190-194	8.9	571
614	Immobilizing metal nanoparticles to metal-organic frameworks with size and location control for optimizing catalytic performance. *Journal of the American Chemical Society*, **2013**, 135, 10210-3	16.4	568
613	Non-, micro-, and mesoporous metal-organic framework isomers: reversible transformation, fluorescence sensing, and large molecule separation. *Journal of the American Chemical Society*, **2010**, 132, 5586-7	16.4	567
612	Metal-organic framework (MOF) as a template for syntheses of nanoporous carbons as electrode materials for supercapacitor. *Carbon*, **2010**, 48, 456-463	10.4	537
611	Functional materials derived from open framework templates/precursors: synthesis and applications. *Energy and Environmental Science*, **2014**, 7, 2071	35.4	536
610	Liquid organic and inorganic chemical hydrides for high-capacity hydrogen storage. *Energy and Environmental Science*, **2015**, 8, 478-512	35.4	534
609	Preparation, adsorption properties, and catalytic activity of 3D porous metal-organic frameworks composed of cubic building blocks and alkali-metal ions. *Angewandte Chemie - International Edition*, **2006**, 45, 2542-6	16.4	492
608	Catalytic activities of non-noble metals for hydrogen generation from aqueous ammonia-borane at room temperature. *Journal of Power Sources*, **2006**, 163, 364-370	8.9	488
607	From metal-organic framework to nitrogen-decorated nanoporous carbons: high CO_2 uptake and efficient catalytic oxygen reduction. *Journal of the American Chemical Society*, **2014**, 136, 6790-3	16.4	471
606	Synergistic Catalysis over Bimetallic Alloy Nanoparticles. *ChemCatChem*, **2013**, 5, 652-676	5.2	459
605	Room temperature hydrogen generation from aqueous ammonia-borane using noble metal nano-clusters as highly active catalysts. *Journal of Power Sources*, **2007**, 168, 135-142	8.9	447
604	One-step seeding growth of magnetically recyclable Au@Co core-shell nanoparticles: highly efficient catalyst for hydrolytic dehydrogenation of ammonia borane. *Journal of the American Chemical Society*, **2010**, 132, 5326-7	16.4	425
603	Synthesis of micro/nanoscaled metal-organic frameworks and their direct electrochemical applications. *Chemical Society Reviews*, **2020**, 49, 301-331	58.5	416
602	Iron-nanoparticle-catalyzed hydrolytic dehydrogenation of ammonia borane for chemical hydrogen storage. *Angewandte Chemie - International Edition*, **2008**, 47, 2287-9	16.4	409
601	Pristine Metal-Organic Frameworks and their Composites for Energy Storage and Conversion. *Advanced Materials*, **2018**, 30, e1702891	24	399
600	Hydrogen carriers. *Nature Reviews Materials*, **2016**, 1,	73.3	394
599	Metal-organic frameworks as a platform for clean energy applications. *EnergyChem*, **2020**, 2, 100027	36.9	377

598	Recent progress in synergistic catalysis over heterometallic nanoparticles. *Journal of Materials Chemistry*, **2011**, 21, 13705		367
597	Pd Nanocubes@ZIF-8: Integration of Plasmon-Driven Photothermal Conversion with a Metal-Organic Framework for Efficient and Selective Catalysis. *Angewandte Chemie - International Edition*, **2016**, 55, 3685-9	16.4	356
596	Metal-Organic Framework-Derived Honeycomb-Like Open Porous Nanostructures as Precious-Metal-Free Catalysts for Highly Efficient Oxygen Electroreduction. *Advanced Materials*, **2016**, 28, 6391-8	24	354
595	Liquid-phase chemical hydrogen storage: catalytic hydrogen generation under ambient conditions. *ChemSusChem*, **2010**, 3, 541-9	8.3	345
594	Metal-organic framework-derived materials for electrochemical energy applications. *EnergyChem*, **2019**, 1, 100001	36.9	333
593	Atomically Dispersed Metal Sites in MOF-Based Materials for Electrocatalytic and Photocatalytic Energy Conversion. *Angewandte Chemie - International Edition*, **2018**, 57, 9604-9633	16.4	324
592	Dehydrogenation of Ammonia Borane by Metal Nanoparticle Catalysts. *ACS Catalysis*, **2016**, 6, 6892-6905	13.1	317
591	Probing the Lewis acid sites and CO catalytic oxidation activity of the porous metal-organic polymer [Cu(5-methylisophthalate)]. *Journal of the American Chemical Society*, **2007**, 129, 8402-3	16.4	309
590	Boron- and nitrogen-based chemical hydrogen storage materials. *International Journal of Hydrogen Energy*, **2009**, 34, 2303-2311	6.7	308
589	Multifunctional for One-Pot Cascade Reactions: Combination of Host–Guest Cooperation and Bimetallic Synergy in Catalysis. *ACS Catalysis*, **2015**, 5, 2062-2069	13.1	304
588	From assembled metal-organic framework nanoparticles to hierarchically porous carbon for electrochemical energy storage. *Chemical Communications*, **2014**, 50, 1519-22	5.8	299
587	Mesoporous metal-organic frameworks with size-tunable cages: selective CO_2 uptake, encapsulation of Ln^{3+} cations for luminescence, and column-chromatographic dye separation. *Advanced Materials*, **2011**, 23, 5015-20	24	299
586	Metal-Organic Framework-Based Catalysts with Single Metal Sites. *Chemical Reviews*, **2020**, 120, 12089-12174	62.1	291
585	High-Performance Energy Storage and Conversion Materials Derived from a Single Metal-Organic Framework/Graphene Aerogel Composite. *Nano Letters*, **2017**, 17, 2788-2795	11.5	289
584	Facile Synthesis of Ultrasmall CoS2 Nanoparticles within Thin N-Doped Porous Carbon Shell for High Performance Lithium-Ion Batteries. *Small*, **2015**, 11, 2511-7	11	285
583	Immobilization of Ultrafine Metal Nanoparticles to High-Surface-Area Materials and Their Catalytic Applications. *CheM*, **2016**, 1, 220-245	16.2	280
582	Noble-metal-free bimetallic nanoparticle-catalyzed selective hydrogen generation from hydrous hydrazine for chemical hydrogen storage. *Journal of the American Chemical Society*, **2011**, 133, 19638-41	16.4	270
581	Electrochemical nitrogen fixation and utilization: theories, advanced catalyst materials and system design. *Chemical Society Reviews*, **2019**, 48, 5658-5716	58.5	268

580	Metal-Organic Frameworks for Batteries. *Joule*, **2018**, 2, 2235-2259	27.8	268
579	Top-down fabrication of crystalline metal-organic framework nanosheets. *Chemical Communications*, **2011**, 47, 8436-8	5.8	266
578	New Strategies for Novel MOF-Derived Carbon Materials Based on Nanoarchitectures. *CheM*, **2020**, 6, 19-40	16.2	266
577	Reversible Hydrogen Storage via Titanium-Catalyzed LiAlH4 and Li3AlH6. *Journal of Physical Chemistry B*, **2001**, 105, 11214-11220	3.4	265
576	A highly alkaline-stable metal oxide@metal-organic framework composite for high-performance electrochemical energy storage. *National Science Review*, **2020**, 7, 305-314	10.8	265
575	Catalytic hydrolysis of ammonia borane for chemical hydrogen storage. *Catalysis Today*, **2011**, 170, 56-63	5.3	260
574	N-rich zeolite-like metal–organic framework with sodalite topology: high CO2 uptake, selective gas adsorption and efficient drug delivery. *Chemical Science*, **2012**, 3, 2114	9.4	252
573	Room-temperature hydrogen generation from hydrous hydrazine for chemical hydrogen storage. *Journal of the American Chemical Society*, **2009**, 131, 9894-5	16.4	248
572	Nitrogen-Doped Cobalt Oxide Nanostructures Derived from Cobalt–Alanine Complexes for High-Performance Oxygen Evolution Reactions. *Advanced Functional Materials*, **2018**, 28, 1800886	15.6	239
571	Metal–Organic Framework Based Catalysts for Hydrogen Evolution. *Advanced Energy Materials*, **2018**, 8, 1801193	21.8	233
570	A portable hydrogen generation system: Catalytic hydrolysis of ammonia–borane. *Journal of Alloys and Compounds*, **2007**, 446-447, 729-732	5.7	226
569	Atomically Dispersed Fe/N-Doped Hierarchical Carbon Architectures Derived from a Metal–Organic Framework Composite for Extremely Efficient Electrocatalysis. *ACS Energy Letters*, **2017**, 2, 504-511	20.1	223
568	Dissociation and hydrolysis of ammonia-borane with solid acids and carbon dioxide: An efficient hydrogen generation system. *Journal of Power Sources*, **2006**, 159, 855-860	8.9	221
567	Complete conversion of hydrous hydrazine to hydrogen at room temperature for chemical hydrogen storage. *Journal of the American Chemical Society*, **2009**, 131, 18032-3	16.4	219
566	Polydimethylsiloxane Coating for a Palladium/MOF Composite: Highly Improved Catalytic Performance by Surface Hydrophobization. *Angewandte Chemie - International Edition*, **2016**, 55, 7379-83	16.4	212
565	Encapsulating highly catalytically active metal nanoclusters inside porous organic cages. *Nature Catalysis*, **2018**, 1, 214-220	36.5	209
564	Materials Design for Rechargeable Metal-Air Batteries. *Matter*, **2019**, 1, 565-595	12.7	207
563	ZIF-8 immobilized nickel nanoparticles: highly effective catalysts for hydrogen generation from hydrolysis of ammonia borane. *Chemical Communications*, **2012**, 48, 3173-5	5.8	206

562	Converting cobalt oxide subunits in cobalt metal-organic framework into agglomerated Co3O4 nanoparticles as an electrode material for lithium ion battery. *Journal of Power Sources*, **2010**, 195, 857-861	8.9	204
561	Metal-Nanoparticle-Catalyzed Hydrogen Generation from Formic Acid. *Accounts of Chemical Research*, **2017**, 50, 1449-1458	24.3	199
560	Immobilizing highly catalytically active noble metal nanoparticles on reduced graphene oxide: a non-noble metal sacrificial approach. *Journal of the American Chemical Society*, **2015**, 137, 106-9	16.4	188
559	Tiny Pd@Co core-shell nanoparticles confined inside a metal-organic framework for highly efficient catalysis. *Small*, **2015**, 11, 71-6	11	187
558	Sodium hydroxide-assisted growth of uniform Pd nanoparticles on nanoporous carbon MSC-30 for efficient and complete dehydrogenation of formic acid under ambient conditions. *Chemical Science*, **2014**, 5, 195-199	9.4	184
557	Bimetallic Au-Ni nanoparticles embedded in SiO2 nanospheres: synergetic catalysis in hydrolytic dehydrogenation of ammonia borane. *Chemistry - A European Journal*, **2010**, 16, 3132-7	4.8	184
556	Room temperature hydrolytic dehydrogenation of ammonia borane catalyzed by Co nanoparticles. *Journal of Power Sources*, **2010**, 195, 1091-1094	8.9	184
555	Catalytic chromium reduction using formic acid and metal nanoparticles immobilized in a metal-organic framework. *Chemical Communications*, **2013**, 49, 3327-9	5.8	183
554	Ultrathin two-dimensional cobaltorganic framework nanosheets for high-performance electrocatalytic oxygen evolution. *Journal of Materials Chemistry A*, **2018**, 6, 22070-22076	13	182
553	Bimetallic MetalOrganic Frameworks for Gas Storage and Separation. *Crystal Growth and Design*, **2017**, 17, 1450-1455	3.5	181
552	Cu/Co3O4 Nanoparticles as Catalysts for Hydrogen Evolution from Ammonia Borane by Hydrolysis. *Journal of Physical Chemistry C*, **2010**, 114, 16456-16462	3.8	177
551	Synthesis of longtime water/air-stable ni nanoparticles and their high catalytic activity for hydrolysis of ammonia-borane for hydrogen generation. *Inorganic Chemistry*, **2009**, 48, 7389-93	5.1	177
550	Toward Homogenization of Heterogeneous Metal Nanoparticle Catalysts with Enhanced Catalytic Performance: Soluble Porous Organic Cage as a Stabilizer and Homogenizer. *Journal of the American Chemical Society*, **2015**, 137, 7063-6	16.4	174
549	Small molecule-driven mitophagy-mediated NLRP3 inflammasome inhibition is responsible for the prevention of colitis-associated cancer. *Autophagy*, **2014**, 10, 972-85	10.2	173
548	Immobilizing Extremely Catalytically Active Palladium Nanoparticles to Carbon Nanospheres: A Weakly-Capping Growth Approach. *Journal of the American Chemical Society*, **2015**, 137, 11743-8	16.4	172
547	OCBBCO: a neutral molecule with some boron-boron triple bond character. *Journal of the American Chemical Society*, **2002**, 124, 12936-7	16.4	169
546	Bimetallic nickel-iridium nanocatalysts for hydrogen generation by decomposition of hydrous hydrazine. *Chemical Communications*, **2010**, 46, 6545-7	5.8	165
545	Magnetically recyclable Fe@Pt core-shell nanoparticles and their use as electrocatalysts for ammonia borane oxidation: the role of crystallinity of the core. *Journal of the American Chemical Society*, **2009**, 131, 2778-9	16.4	164

544	Metal-Organic Framework Composites for Catalysis. *Matter*, **2019**, 1, 57-89	12.7	162
543	Puffing Up Energetic Metal-Organic Frameworks to Large Carbon Networks with Hierarchical Porosity and Atomically Dispersed Metal Sites. *Angewandte Chemie - International Edition*, **2019**, 58, 1975-1979	16.4	162
542	Recent advances in supramolecular and biological aspects of arene ruthenium(II) complexes. *Coordination Chemistry Reviews*, **2014**, 270-271, 31-56	23.2	159
541	Preparation and catalysis of poly(N-vinyl-2-pyrrolidone) (PVP) stabilized nickel catalyst for hydrolytic dehydrogenation of ammonia borane. *International Journal of Hydrogen Energy*, **2009**, 34, 3816-3822	6.7	159
540	From metalörganic frameworks to single/dual-atom and cluster metal catalysts for energy applications. *Energy and Environmental Science*, **2020**, 13, 1658-1693	35.4	156
539	Synthesis of open-ended MoS2 nanotubes and the application as the catalyst of methanation. *Chemical Communications*, **2002**, 1722-3	5.8	155
538	Non-noble bimetallic CuCo nanoparticles encapsulated in the pores of metalörganic frameworks: synergetic catalysis in the hydrolysis of ammonia borane for hydrogen generation. *Catalysis Science and Technology*, **2015**, 5, 525-530	5.5	154
537	Superlong Single-Crystal Metal-Organic Framework Nanotubes. *Journal of the American Chemical Society*, **2018**, 140, 15393-15401	16.4	153
536	Semisacrificial Template Growth of Self-Supporting MOF Nanocomposite Electrode for Efficient Electrocatalytic Water Oxidation. *Advanced Functional Materials*, **2019**, 29, 1807418	15.6	152
535	Highly dispersed surfactant-free nickel nanoparticles and their remarkable catalytic activity in the hydrolysis of ammonia borane for hydrogen generation. *Angewandte Chemie - International Edition*, **2012**, 51, 6753-6	16.4	149
534	Magnetically recyclable FeNi alloy catalyzed dehydrogenation of ammonia borane in aqueous solution under ambient atmosphere. *Journal of Power Sources*, **2009**, 194, 478-481	8.9	149
533	Multifunctional Microporous MOFs Exhibiting Gas/Hydrocarbon Adsorption Selectivity, Separation Capability and Three-Dimensional Magnetic Ordering. *Advanced Functional Materials*, **2008**, 18, 2205-2214	15.6	149
532	Catalysis with Metal Nanoparticles Immobilized within the Pores of Metal-Organic Frameworks. *Journal of Physical Chemistry Letters*, **2014**, 5, 1400-11	6.4	146
531	Toward a molecular design of porous carbon materials. *Materials Today*, **2017**, 20, 592-610	21.8	146
530	Highly-thermostable metal-organic frameworks (MOFs) of zinc and cadmium 4,4N(hexafluoroisopropylidene)diphthalates with a unique fluorite topology. *Chemical Communications*, **2007**, 2467-9	5.8	141
529	Bimetallic Ni-Pt nanocatalysts for selective decomposition of hydrazine in aqueous solution to hydrogen at room temperature for chemical hydrogen storage. *Inorganic Chemistry*, **2010**, 49, 6148-52	5.1	139
528	One-pot tandem catalysis over Pd@MIL-101: boosting the efficiency of nitro compound hydrogenation by coupling with ammonia borane dehydrogenation. *Chemical Communications*, **2015**, 51, 10419-22	5.8	137
527	Oxidative DNA strand scission induced by a trinuclear copper(II) complex. *Inorganic Chemistry*, **2004**, 43, 4761-6	5.1	137

526	Diamine-Alkalized Reduced Graphene Oxide: Immobilization of Sub-2 nm Palladium Nanoparticles and Optimization of Catalytic Activity for Dehydrogenation of Formic Acid. *ACS Catalysis*, **2015**, 5, 5141-5144	13.1	136
525	Metal-Organic Framework-Derived Carbons for Battery Applications. *Advanced Energy Materials*, **2018**, 8, 1800716	21.8	136
524	A series of (6,6)-connected porous lanthanide–organic framework enantiomers with high thermostability and exposed metal sites: scalable syntheses, structures, and sorption properties. *Inorganic Chemistry*, **2010**, 49, 10001-6	5.1	136
523	Single-Atom Iron Catalysts on Overhang-Eave Carbon Cages for High-Performance Oxygen Reduction Reaction. *Angewandte Chemie - International Edition*, **2020**, 59, 7384-7389	16.4	134
522	Metal-Organic Layers Leading to Atomically Thin Bismuthene for Efficient Carbon Dioxide Electroreduction to Liquid Fuel. *Angewandte Chemie - International Edition*, **2020**, 59, 15014-15020	16.4	131
521	Pore surface engineering of metal–organic frameworks for heterogeneous catalysis. *Coordination Chemistry Reviews*, **2018**, 376, 248-276	23.2	130
520	Hollow Ni–SiO_2 nanosphere-catalyzed hydrolytic dehydrogenation of ammonia borane for chemical hydrogen storage. *Journal of Power Sources*, **2009**, 191, 209-216	8.9	130
519	MXene–2D layered electrode materials for energy storage. *Progress in Natural Science: Materials International*, **2018**, 28, 133-147	3.6	127
518	Strong metal–molecular support interaction (SMMSI): Amine-functionalized gold nanoparticles encapsulated in silica nanospheres highly active for catalytic decomposition of formic acid. *Journal of Materials Chemistry*, **2012**, 22, 12582		126
517	Nickel-palladium nanoparticle catalyzed hydrogen generation from hydrous hydrazine for chemical hydrogen storage. *International Journal of Hydrogen Energy*, **2011**, 36, 11794-11801	6.7	126
516	Hierarchical Cobalt Phosphide Hollow Nanocages toward Electrocatalytic Ammonia Synthesis under Ambient Pressure and Room Temperature. *Small Methods*, **2018**, 2, 1800204	12.8	124
515	Tandem Nitrogen Functionalization of Porous Carbon: Toward Immobilizing Highly Active Palladium Nanoclusters for Dehydrogenation of Formic Acid. *ACS Catalysis*, **2017**, 7, 2720-2724	13.1	121
514	Solvent-induced controllable synthesis, single-crystal to single-crystal transformation and encapsulation of Alq_3 for modulated luminescence in (4,8)-connected metal-organic frameworks. *Inorganic Chemistry*, **2012**, 51, 7484-91	5.1	121
513	DNA/protein binding, molecular docking, and in vitro anticancer activity of some thioether-dipyrrinato complexes. *Inorganic Chemistry*, **2013**, 52, 13984-96	5.1	120
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511	Metal-Organic-Framework-Derived Co P Nanoparticle/Multi-Doped Porous Carbon as a Trifunctional Electrocatalyst. *Advanced Materials*, **2020**, 32, e2003649	24	120
510	Metal–Organic Frameworks and Their Composites: Synthesis and Electrochemical Applications. *Small Methods*, **2017**, 1, 1700187	12.8	119
509	Palladium nanoparticles stabilized with N-doped porous carbons derived from metal–organic frameworks for selective catalysis in biofuel upgrade: the role of catalyst wettability. *Green Chemistry*, **2016**, 18, 1212-1217	10	118

508	Bimetallic metal-organic frameworks and their derivatives. *Chemical Science*, **2020**, 11, 5369-5403	9.4	115
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506	Quasi-MOF: Exposing Inorganic Nodes to Guest Metal Nanoparticles for Drastically Enhanced Catalytic Activity. *CheM*, **2018**, 4, 845-856	16.2	114
505	Carbon nanotube-based materials for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2019**, 7, 17204-17241	13	112
504	High-extent dehydrogenation of hydrazine borane $N_2H_4BH_3$ by hydrolysis of BH_3 and decomposition of N_2H_4. *Energy and Environmental Science*, **2011**, 4, 3355	35.4	112
503	Surface Characterization of La_2O_3–TiO_2 and V_2O_5/La_2O_3–TiO_2 Catalysts. *Journal of Physical Chemistry B*, **2002**, 106, 5695-5700	3.4	111
502	Metal-organic framework-immobilized polyhedral metal nanocrystals: reduction at solid-gas interface, metal segregation, core-shell structure, and high catalytic activity. *Journal of the American Chemical Society*, **2013**, 135, 16356-9	16.4	110
501	A Single-Crystal Open-Capsule Metal-Organic Framework. *Journal of the American Chemical Society*, **2019**, 141, 7906-7916	16.4	106
500	Room-temperature synthesis of bimetallic Co–Zn based zeolitic imidazolate frameworks in water for enhanced CO_2 and H_2 uptakes. *Journal of Materials Chemistry A*, **2016**, 4, 14932-14938	13	104
499	A Hydrangea-Like Superstructure of Open Carbon Cages with Hierarchical Porosity and Highly Active Metal Sites. *Advanced Materials*, **2019**, 31, e1904689	24	103
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497	Formic Acid-Based Liquid Organic Hydrogen Carrier System with Heterogeneous Catalysts. *Advanced Sustainable Systems*, **2018**, 2, 1700161	5.9	101
496	Highly efficient hydrogen generation from formic acid using a reduced graphene oxide-supported AuPd nanoparticle catalyst. *Chemical Communications*, **2016**, 52, 4171-4	5.8	100
495	High-connected mesoporous metal-organic framework. *Chemical Communications*, **2010**, 46, 7400-2	5.8	100
494	Fast Dehydrogenation of Formic Acid over Palladium Nanoparticles Immobilized in Nitrogen-Doped Hierarchically Porous Carbon. *ACS Catalysis*, **2018**, 8, 12041-12045	13.1	100
493	Pd Nanocubes@ZIF-8: Integration of Plasmon-Driven Photothermal Conversion with a Metal–Organic Framework for Efficient and Selective Catalysis. *Angewandte Chemie*, **2016**, 128, 3749-3753	3.6	99
492	Metal–Organic Frameworks for Energy. *Advanced Energy Materials*, **2019**, 9, 1801307	21.8	99
491	Fluorescent zinc(II) complex exhibiting "on-off-on" switching toward Cu^{2+} and Ag^+ ions. *Inorganic Chemistry*, **2011**, 50, 3189-97	5.1	99

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489	A one-pot protocol for synthesis of non-noble metal-based core-shell nanoparticles under ambient conditions: toward highly active and cost-effective catalysts for hydrolytic dehydrogenation of NH3BH3. *Chemical Communications*, **2011**, 47, 10999-1001	5.8	95
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487	Nanocatalysts for hydrogen generation from hydrazine. *Catalysis Science and Technology*, **2013**, 3, 1889	5.5	93
486	Bimetallic MOF-Derived FeCo-P/C Nanocomposites as Efficient Catalysts for Oxygen Evolution Reaction. *Small Methods*, **2018**, 2, 1800214	12.8	92
485	Ordered Macroporous Superstructure of Nitrogen-Doped Nanoporous Carbon Implanted with Ultrafine Ru Nanoclusters for Efficient pH-Universal Hydrogen Evolution Reaction. *Advanced Materials*, **2021**, 33, e2006965	24	88
484	Nanopore-Supported Metal Nanocatalysts for Efficient Hydrogen Generation from Liquid-Phase Chemical Hydrogen Storage Materials. *Advanced Materials*, **2020**, 32, e2001818	24	86
483	Dietary fructose-induced gut dysbiosis promotes mouse hippocampal neuroinflammation: a benefit of short-chain fatty acids. *Microbiome*, **2019**, 7, 98	16.6	86
482	Rational Assembly of d10 Metal–Organic Frameworks with Helical Nanochannels Based on Flexible V-Shaped Ligand. *Crystal Growth and Design*, **2010**, 10, 806-811	3.5	84
481	Ultrafine gold clusters incorporated into a metal-organic framework. *Chemistry - A European Journal*, **2011**, 17, 78-81	4.8	82
480	Temperature-Induced Enhancement of Catalytic Performance in Selective Hydrogen Generation from Hydrous Hydrazine with Ni-Based Nanocatalysts for Chemical Hydrogen Storage. *European Journal of Inorganic Chemistry*, **2011**, 2011, 2232-2237	2.3	79
479	A New Gold Catalyst: Formation of Gold(I) Carbonyl, [Au(CO)n]+ (n = 1, 2), in Sulfuric Acid and Its Application to Carbonylation of Olefins. *Journal of Organic Chemistry*, **1997**, 62, 1594-1598	4.2	79
478	SHP2 inhibition triggers anti-tumor immunity and synergizes with PD-1 blockade. *Acta Pharmaceutica Sinica B*, **2019**, 9, 304-315	15.5	79
477	A Room-Temperature Molten Hydrate Electrolyte for Rechargeable Zinc–Air Batteries. *Advanced Energy Materials*, **2019**, 9, 1900196	21.8	78
476	Palladium silica nanosphere-catalyzed decomposition of formic acid for chemical hydrogen storage. *Journal of Materials Chemistry*, **2012**, 22, 19146		78
475	Iron-Nanoparticle-Catalyzed Hydrolytic Dehydrogenation of Ammonia Borane for Chemical Hydrogen Storage. *Angewandte Chemie*, **2008**, 120, 2319-2321	3.6	76
474	Synergistic catalysis of Au-Co@SiO2 nanospheres in hydrolytic dehydrogenation of ammonia borane for chemical hydrogen storage. *Journal of Materials Chemistry*, **2012**, 22, 5065		75
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