

Jinping Li

List of Publications by Year in descending order

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279
papers

11,332
citations

31976

53
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43889

91
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284
all docs

284
docs citations

284
times ranked

10679
citing authors

#	ARTICLE	IF	CITATIONS
1	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. <i>Science</i> , 2018, 362, 443-446.	12.6	763
2	Molecular sieving of ethylene from ethane using a rigid metal-organic framework. <i>Nature Materials</i> , 2018, 17, 1128-1133.	27.5	532
3	Synthesis of ZIF-8 and ZIF-67 by Steam-Assisted Conversion and an Investigation of Their Tribological Behaviors. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 672-675.	13.8	382
4	A novel method for the preparation of zeolite ZSM-5. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 755.	2.0	333
5	Flexible-Robust Metal-Organic Framework for Efficient Removal of Propyne from Propylene. <i>Journal of the American Chemical Society</i> , 2017, 139, 7733-7736.	13.7	242
6	Synthesis and hydrogen-storage behavior of metal-organic framework MOF-5. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 1377-1382.	7.1	219
7	Hydrogen storage in several microporous zeolites. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 4998-5004.	7.1	193
8	Covalent Triazine-Based Frameworks with Ultramicropores and High Nitrogen Contents for Highly Selective CO ₂ Capture. <i>Environmental Science & Technology</i> , 2016, 50, 4869-4876.	10.0	173
9	Coupling of Cu(100) and (110) Facets Promotes Carbon Dioxide Conversion to Hydrocarbons and Alcohols. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4879-4885.	13.8	171
10	Applications of metal-organic frameworks for green energy and environment: New advances in adsorptive gas separation, storage and removal. <i>Green Energy and Environment</i> , 2018, 3, 191-228.	8.7	158
11	Amorphous NiFeB nanoparticles realizing highly active and stable oxygen evolving reaction for water splitting. <i>Nano Research</i> , 2018, 11, 1664-1675.	10.4	129
12	Synthesis of metal-organic framework MIL-101 in TMAOH-Cr(NO ₃) ₃ -H ₂ BDC-H ₂ O and its hydrogen-storage behavior. <i>Microporous and Mesoporous Materials</i> , 2010, 130, 174-179.	4.4	127
13	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15183-15188.	13.8	124
14	Oxygen vacancies engineered self-supported B doped Co ₃ O ₄ nanowires as an efficient multifunctional catalyst for electrochemical water splitting and hydrolysis of sodium borohydride. <i>Chemical Engineering Journal</i> , 2021, 404, 126474.	12.7	122
15	Two-Dimensional Covalent Triazine Framework Membrane for Helium Separation and Hydrogen Purification. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8694-8701.	8.0	121
16	Fabrication of mesoporous NiFe ₂ O ₄ nanorods as efficient oxygen evolution catalyst for water splitting. <i>Electrochimica Acta</i> , 2016, 211, 871-878.	5.2	117
17	Adsorption of CO ₂ , CH ₄ , and N ₂ on 8-, 10-, and 12-Membered Ring Hydrophobic Microporous High-Silica Zeolites: DDR, Silicalite-1, and Beta. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17856-17864.	3.7	114
18	Theoretical Expectation and Experimental Implementation of In Situ Al-Doped CoS ₂ Nanowires on Dealloying-Derived Nanoporous Intermetallic Substrate as an Efficient Electrocatalyst for Boosting Hydrogen Production. <i>ACS Catalysis</i> , 2019, 9, 1489-1502.	11.2	112

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19	A Copper(II)-Paddlewheel Metal-Organic Framework with Exceptional Hydrolytic Stability and Selective Adsorption and Detection Ability of Aniline in Water. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27027-27035.	8.0	109
20	Three-dimensional well-mixed / highly-densed NiS-CoS nanorod arrays: An efficient and stable bifunctional electrocatalyst for hydrogen and oxygen evolution reactions. <i>Electrochimica Acta</i> , 2018, 260, 82-91.	5.2	109
21	Kinetic separation of propylene over propane in a microporous metal-organic framework. <i>Chemical Engineering Journal</i> , 2018, 354, 977-982.	12.7	108
22	Uniformly mesoporous NiO/NiFe ₂ O ₄ biphasic nanorods as efficient oxygen evolving catalyst for water splitting. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17976-17986.	7.1	106
23	Separation of CO ₂ / CH ₄ and CH ₄ / N ₂ mixtures by M/DOBDC: A detailed dynamic comparison with MIL-100(Cr) and activated carbon. <i>Microporous and Mesoporous Materials</i> , 2014, 198, 236-246.	4.4	105
24	3D porous network heterostructure NiCe@NiFe electrocatalyst for efficient oxygen evolution reaction at large current densities. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118199.	20.2	100
25	Improved 2,3-butanediol production from corncob acid hydrolysate by fed-batch fermentation using <i>Klebsiella oxytoca</i> . <i>Process Biochemistry</i> , 2010, 45, 613-616.	3.7	99
26	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. <i>Angewandte Chemie</i> , 2018, 130, 15403-15408.	2.0	98
27	Mixed-matrix membranes based on Zn/Ni-ZIF-8-PEBA for high performance CO ₂ separation. <i>Journal of Membrane Science</i> , 2018, 560, 38-46.	8.2	97
28	Synthesis and hydrogen storage studies of metal-organic framework UiO-66. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 13104-13109.	7.1	91
29	Ionothermal Synthesis of Zirconium Phosphates and Their Catalytic Behavior in the Selective Oxidation of Cyclohexane. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2206-2209.	13.8	89
30	Efficient separation of ethylene from acetylene/ethylene mixtures by a flexible-robust metal-organic framework. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18984-18988.	10.3	88
31	Highly Adsorptive Separation of Ethane/Ethylene by An Ethane-Selective MOF MIL-142A. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4063-4069.	3.7	88
32	Guest-dependent pressure induced gate-opening effect enables effective separation of propene and propane in a flexible MOF. <i>Chemical Engineering Journal</i> , 2018, 346, 489-496.	12.7	87
33	Adsorption of CO ₂ , CH ₄ , and N ₂ on Gas Diameter Grade Ion-Exchange Small Pore Zeolites. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 3701-3709.	1.9	85
34	Self-Supported Ternary Ni-SSe Nanorod Arrays as Highly Active Electrocatalyst for Hydrogen Generation in Both Acidic and Basic Media: Experimental Investigation and DFT Calculation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2430-2441.	8.0	83
35	Exploiting the gate opening effect in a flexible MOF for selective adsorption of propyne from C ₁ /C ₂ /C ₃ hydrocarbons. <i>Journal of Materials Chemistry A</i> , 2016, 4, 751-755.	10.3	81
36	Theoretical investigation of gas separation in functionalized nanoporous graphene membranes. <i>Applied Surface Science</i> , 2017, 407, 532-539.	6.1	80

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37	A Strategy for Constructing Poreâ€‘Spaceâ€‘Partitioned MOFs with High Uptake Capacity for C ₂ Hydrocarbons and CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19027-19030.	13.8	77
38	Encapsulation of Ni/Fe ₃ O ₄ heterostructures inside onion-like N-doped carbon nanorods enables synergistic electrocatalysis for water oxidation. <i>Nanoscale</i> , 2018, 10, 3997-4003.	5.6	75
39	Facile fabrication of robust 3D Feâ€‘NiSe nanowires supported on nickel foam as a highly efficient, durable oxygen evolution catalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14639-14645.	10.3	74
40	A Tale of Two Trimers from Two Different Worlds: A COFâ€‘Inspired Synthetic Strategy for Poreâ€‘Space Partitioning of MOFs. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6316-6320.	13.8	70
41	Robust Microporous Metalâ€‘Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10209-10214.	13.8	69
42	Loading FeOOH on Ni(OH) ₂ hollow nanorods to obtain a three-dimensional sandwich catalyst with strong electron interactions for an efficient oxygen evolution reaction. <i>Nanoscale</i> , 2020, 12, 983-990.	5.6	69
43	One-step solid-phase boronation to fabricate self-supported porous FeNiB/FeNi foam for efficient electrocatalytic oxygen evolution and overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19554-19564.	10.3	68
44	Ionothermal Synthesis and Structure Analysis of an Openâ€‘Framework Zirconium Phosphate with a High CO ₂ /CH ₄ Adsorption Ratio. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8139-8142.	13.8	67
45	Solvent effect on the synthesis of MIL-96(Cr) and MIL-100(Cr). <i>Microporous and Mesoporous Materials</i> , 2011, 142, 489-493.	4.4	66
46	A novel silver oxides oxygen evolving catalyst for water splitting. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7374-7380.	7.1	63
47	Mixed-metal MOF-derived Co-doped Ni ₃ C/Ni NPs embedded in carbon matrix as an efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24572-24579.	7.1	63
48	Nanostructured NiFe (oxy)hydroxide with easily oxidized Ni towards efficient oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16810-16817.	10.3	61
49	Porous Niâ€‘Moâ€‘S Nanowire Network Film Electrode as a Highâ€‘Efficiency Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemElectroChem</i> , 2018, 5, 335-342.	3.4	60
50	IrO ₂ nanoparticle-decorated single-layer NiFe LDHs nanosheets with oxygen vacancies for the oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2020, 399, 125738.	12.7	60
51	Facile and fast fabrication of iron-phosphate supported on nickel foam as a highly efficient and stable oxygen evolution catalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18627-18633.	10.3	59
52	Mesoporous nickelâ€‘iron binary oxide nanorods for efficient electrocatalytic water oxidation. <i>Nano Research</i> , 2017, 10, 2096-2105.	10.4	57
53	Size-controlled synthesis of SnO ₂ quantum dots and their gas-sensing performance. <i>Applied Surface Science</i> , 2015, 346, 256-262.	6.1	56
54	Realizing high performance solar water oxidation for Ti-doped hematite nanoarrays by synergistic decoration with ultrathin cobalt-iron phosphate nanolayers. <i>Chemical Engineering Journal</i> , 2019, 355, 49-57.	12.7	56

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55	Exploration of nanoporous graphene membranes for the separation of N ₂ from CO ₂ : a multi-scale computational study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8352-8358.	2.8	55
56	Polyvinylamine/graphene oxide/PANI@CNTs mixed matrix composite membranes with enhanced CO ₂ /N ₂ separation performance. <i>Journal of Membrane Science</i> , 2019, 589, 117246.	8.2	54
57	Recyclable ammonia uptake of a MIL series of metal-organic frameworks with high structural stability. <i>Microporous and Mesoporous Materials</i> , 2018, 258, 170-177.	4.4	52
58	Ionothermal synthesis of a three-dimensional zinc phosphate with DFT topology using unstable deep-eutectic solvent as template-delivery agent. <i>Microporous and Mesoporous Materials</i> , 2008, 115, 624-628.	4.4	51
59	Environmentally friendly synthesis of flexible MOFs M(NA) ₂ (M = Zn, Co, Cu, Cd) with large and regenerable ammonia capacity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9922-9929.	10.3	51
60	Zeolite CAN and AFI-Type Zeolitic Imidazolate Frameworks with Large 12-Membered Ring Pore Openings Synthesized Using Bulky Amides as Structure-Directing Agents. <i>Journal of the American Chemical Society</i> , 2016, 138, 16232-16235.	13.7	50
61	Ultrasmall NiFe-Phosphate Nanoparticles Incorporated \pm -Fe ₂ O ₃ Nanoarrays Photoanode Realizing High Efficient Solar Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2353-2361.	6.7	50
62	Methane-trapping metal-organic frameworks with an aliphatic ligand for efficient CH ₄ /N ₂ separation. <i>Sustainable Energy and Fuels</i> , 2020, 4, 138-142.	4.9	50
63	Experimental and simulation study on efficient CH ₄ /N ₂ separation by pressure swing adsorption on silicalite-1 pellets. <i>Chemical Engineering Journal</i> , 2020, 388, 124222.	12.7	50
64	Pore-Space Partition and Optimization for Propane-Selective High-Performance Propane/Propylene Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52160-52166.	8.0	50
65	Integrated production of xylitol and ethanol using corncob. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 411-417.	3.6	48
66	Selective Adsorptive Separation of CO ₂ /CH ₄ and CO ₂ /N ₂ by a Water Resistant Zirconium-Porphyrin Metal-Organic Framework. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 12215-12224.	3.7	48
67	Opportunities and critical factors of porous metal-organic frameworks for industrial light olefins separation. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1954-1984.	5.9	48
68	La-RuO ₂ nanocrystals with efficient electrocatalytic activity for overall water splitting in acidic media: Synergistic effect of La doping and oxygen vacancy. <i>Chemical Engineering Journal</i> , 2022, 439, 135699.	12.7	47
69	Amorphous CoFeBO nanoparticles as highly active electrocatalysts for efficient water oxidation reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6138-6149.	7.1	46
70	Ionothermal Synthesis of Layered Zirconium Phosphates and Their Tribological Properties in Mineral Oil. <i>Inorganic Chemistry</i> , 2010, 49, 8270-8275.	4.0	44
71	Separation of CO ₂ /CH ₄ and CH ₄ /N ₂ mixtures using MOF-5 and Cu ₃ (BTC) ₂ . <i>Journal of Energy Chemistry</i> , 2014, 23, 453-460.	12.9	42
72	Flexible Metal-Organic Frameworks with Discriminatory Gate-Opening Effect for the Separation of Acetylene from Ethylene/Acetylene Mixtures. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4457-4462.	2.0	42

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73	Facile synthesis, characterization and DFT studies of a nanostructured nickel-molybdenum-phosphorous planar electrode as an active electrocatalyst for the hydrogen evolution reaction. <i>Nanoscale</i> , 2019, 11, 9353-9361.	5.6	42
74	Amorphous iron-nickel phosphide nanocone arrays as efficient bifunctional electrodes for overall water splitting. <i>Green Energy and Environment</i> , 2021, 6, 496-505.	8.7	42
75	Highly efficient Ni nanotube arrays and Ni nanotube arrays coupled with NiFe layered-double-hydroxide electrocatalysts for overall water splitting. <i>Journal of Power Sources</i> , 2020, 448, 227434.	7.8	41
76	Self-Assembly of Gridlike Zinc Oxide Lamellae for Chemical-Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5870-5878.	8.0	40
77	Enhancing the water oxidation activity of Ni ₂ P nanocatalysts by iron-doping and electrochemical activation. <i>Electrochimica Acta</i> , 2017, 253, 498-505.	5.2	40
78	Ammonia capture and flexible transformation of M-2(INA) (M = Cu, Co, Ni, Cd) series materials. <i>Journal of Hazardous Materials</i> , 2016, 306, 340-347.	12.4	39
79	MIL-100Cr with open Cr sites for a record N ₂ O capture. <i>Chemical Communications</i> , 2018, 54, 14061-14064.	4.1	39
80	Adsorption CO ₂ , CH ₄ and N ₂ on two different spacing flexible layer MOFs. <i>Microporous and Mesoporous Materials</i> , 2012, 161, 154-159.	4.4	37
81	Adsorption and separation of CO ₂ on Fe(II)-MOF-74: Effect of the open metal coordination site. <i>Journal of Solid State Chemistry</i> , 2014, 213, 224-228.	2.9	36
82	Enhancement of hydrogen desorption in magnesium hydride catalyzed by graphene nanosheets supported Ni-CeOx hybrid nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 10786-10794.	7.1	36
83	Regulating the Sensitivity and Operating Temperatures by Morphology Engineering of 2D ZnO Nanostructures and 3D ZnO Microstructures for the Detection of Organic-Amines. <i>ACS Applied Nano Materials</i> , 2019, 2, 5430-5439.	5.0	36
84	Highly Effective Ru/BaCeO ₃ Catalysts on Supports with Strong Basic Sites for Ammonia Synthesis. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2815-2821.	3.3	36
85	Effective CH ₄ enrichment from N ₂ by SIM-1 via a strong adsorption potential SOD cage. <i>Separation and Purification Technology</i> , 2020, 230, 115850.	7.9	36
86	Microporous metal-organic framework with specific functional sites for efficient removal of ethane from ethane/ethylene mixtures. <i>Chemical Engineering Journal</i> , 2020, 387, 124137.	12.7	36
87	The effects of ceria morphology on the properties of Pd/ceria catalyst for catalytic oxidation of low-concentration methane. <i>Journal of Materials Science</i> , 2016, 51, 10917-10925.	3.7	35
88	Kinetically controlled ammonia vapor diffusion synthesis of a Zn(<i>scp</i>) MOF and its H ₂ O/NH ₃ adsorption properties. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10345-10351.	10.3	35
89	Microregulation of Pore Channels in Covalent-Organic Frameworks Used for the Selective and Efficient Separation of Ethane. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52819-52825.	8.0	35
90	Experiments and simulations on separating a CO ₂ /CH ₄ mixture using K-KFI at low and high pressures. <i>Microporous and Mesoporous Materials</i> , 2014, 184, 21-27.	4.4	34

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91	Removal of Ammonia Emissions via Reversible Structural Transformation in M(BDC) (M = Cu, Zn, Cd) Metal-Organic Frameworks. <i>Environmental Science & Technology</i> , 2020, 54, 3636-3642.	10.0	34
92	Tuning the Pore Environment of MOFs toward Efficient CH ₄ /N ₂ Separation under Humid Conditions. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15830-15839.	8.0	34
93	Protection of open-metal V(III) sites and their associated CO ₂ /CH ₄ /N ₂ /O ₂ /H ₂ O adsorption properties in mesoporous V-MOFs. <i>Journal of Colloid and Interface Science</i> , 2015, 456, 197-205.	9.4	33
94	Hierarchical porous carbons derived from microporous zeolitic metal azolate frameworks for supercapacitor electrodes. <i>Materials Research Bulletin</i> , 2017, 88, 62-68.	5.2	32
95	Enhancing the CO ₂ separation performance of SPEEK membranes by incorporation of polyaniline-decorated halloysite nanotubes. <i>Journal of Membrane Science</i> , 2019, 573, 602-611.	8.2	32
96	Synergistic Assembly of a CoS@NiFe/Ni Foam Heterostructure Electrocatalyst for Efficient Water Oxidation Catalysis at Large Current Densities. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1484-1492.	3.3	32
97	Down-sizing the crystal size of ZK-5 zeolite for its enhanced CH ₄ adsorption and CH ₄ /N ₂ separation performances. <i>Chemical Engineering Journal</i> , 2021, 406, 126599.	12.7	32
98	Morphology Effect of Ceria on the Ammonia Synthesis Activity of Ru/CeO ₂ Catalysts. <i>Catalysis Letters</i> , 2019, 149, 1007-1016.	2.6	31
99	Mesoporous Co ₃ O ₄ derived from Co-MOFs with different morphologies and ligands for toluene catalytic oxidation. <i>Chemical Engineering Science</i> , 2020, 220, 115654.	3.8	31
100	Modification of the pore environment in UiO-type metal-organic framework toward boosting the separation of propane/propylene. <i>Chemical Engineering Journal</i> , 2021, 403, 126428.	12.7	31
101	Targeted capture and pressure/temperature-responsive separation in flexible metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22574-22583.	10.3	30
102	Well-dispersed palladium nanoparticles on nickel-phosphorus nanosheets as efficient three-dimensional platform for superior catalytic glucose electro-oxidation and non-enzymatic sensing. <i>Journal of Colloid and Interface Science</i> , 2018, 511, 355-364.	9.4	30
103	Amorphous CoFeP/NC hybrids as highly efficient electrocatalysts for water oxidation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30196-30207.	7.1	30
104	Optimized pore environment for efficient high selective C ₂ H ₂ /C ₂ H ₄ and C ₂ H ₂ /CO ₂ separation in a metal-organic framework. <i>Separation and Purification Technology</i> , 2021, 256, 117749.	7.9	30
105	Highly catalytic flexible RuO ₂ on carbon fiber cloth network for boosting chlorine evolution reaction. <i>Electrochimica Acta</i> , 2019, 307, 385-392.	5.2	29
106	Hybrid Ni ₃ S ₂ @MoS ₂ nanowire arrays as a pH-universal catalyst for accelerating the hydrogen evolution reaction. <i>Chemical Communications</i> , 2020, 56, 2471-2474.	4.1	29
107	Strengthen metal-oxygen covalency of CoFe-layered double hydroxide for efficient mild oxygen evolution. <i>Nano Research</i> , 2022, 15, 162-169.	10.4	29
108	Exploiting the pore size and functionalization effects in UiO topology structures for the separation of light hydrocarbons. <i>CrystEngComm</i> , 2017, 19, 1729-1737.	2.6	28

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109	Highly sensitive and selective gas-phase ethanolamine sensor by doping sulfur into nanostructured ZnO. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126633.	7.8	28
110	Construction of saturated coordination titanium-based metal-organic framework for one-step C ₂ H ₂ /C ₂ H ₆ /C ₂ H ₄ separation. <i>Separation and Purification Technology</i> , 2021, 276, 119284.	7.9	28
111	Controllable synthesis of prism- and lamella-like ZnO and their gas sensing. <i>Materials Letters</i> , 2014, 136, 427-430.	2.6	27
112	Insight into the effect of surface structure on H ₂ adsorption and activation over different CuO(1 1 1) surfaces: A first-principle study. <i>Computational Materials Science</i> , 2016, 122, 191-200.	3.0	27
113	Fabrication of Fe-doped Co ₂ P nanoparticles as efficient electrocatalyst for electrochemical and photoelectrochemical water oxidation. <i>Electrochimica Acta</i> , 2018, 283, 1490-1497.	5.2	27
114	Ethylenediamine-functionalized metal organic frameworks MIL-100(Cr) for efficient CO ₂ /N ₂ O separation. <i>Separation and Purification Technology</i> , 2020, 235, 116219.	7.9	27
115	Simple self-assembly of 3D laminated CuO/SnO ₂ hybrid for the detection of triethylamine. <i>Chinese Chemical Letters</i> , 2020, 31, 2055-2058.	9.0	27
116	Antenna-Protected Metal-Organic Squares for Water/Ammonia Uptake with Excellent Stability and Regenerability. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5082-5089.	6.7	26
117	Enhanced mass transfer on hierarchical porous pure silica zeolite used for gas separation. <i>Microporous and Mesoporous Materials</i> , 2018, 266, 56-63.	4.4	26
118	Porous versus Compact Hematite Nanorod Photoanode for High-Performance Photoelectrochemical Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11377-11385.	6.7	26
119	BiVO ₄ photoanode decorated with cobalt-manganese layered double hydroxides for enhanced photoelectrochemical water oxidation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 31902-31912.	7.1	26
120	A Strategy for Constructing Pore-Space-Partitioned MOFs with High Uptake Capacity for C ₂ Hydrocarbons and CO ₂ . <i>Angewandte Chemie</i> , 2020, 132, 19189-19192.	2.0	26
121	Polyvinylamine/amorphous metakaolin mixed-matrix composite membranes with facilitated transport carriers for highly efficient CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2020, 599, 117828.	8.2	26
122	Highly Dispersed Mo ₂ C Nanodots in Carbon Nanocages Derived from Mo-Based Xerogel: Efficient Electrocatalysts for Hydrogen Evolution. <i>Small Methods</i> , 2021, 5, e2100334.	8.6	26
123	Three-dimensional self-supporting catalyst with NiFe alloy/oxyhydroxide supported on high-surface cobalt hydroxide nanosheet array for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 873-883.	9.4	26
124	Structure and kinetic investigations of surface-stepped CeO ₂ -supported Pd catalysts for low-concentration methane oxidation. <i>Chemical Engineering Journal</i> , 2016, 306, 745-753.	12.7	25
125	Ti-doped hematite photoanode with surface phosphate ions functionalization for synergistic enhanced photoelectrochemical water oxidation. <i>Electrochimica Acta</i> , 2019, 307, 197-205.	5.2	25
126	Self-Supported 3D Ultrathin Cobalt-Nickel-Boron Nanoflakes as an Efficient Electrocatalyst for the Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2020, 13, 3662-3670.	6.8	25

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127	Computational study of oxygen adsorption in metal-organic frameworks with exposed cation sites: effect of framework metal ions. <i>RSC Advances</i> , 2015, 5, 33432-33437.	3.6	24
128	Graphene-like Poly(triazine imide) as N ₂ -Selective Ultrathin Membrane for Postcombustion CO ₂ Capture. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28782-28788.	3.1	24
129	(CH ₃) ₂ NH-Assisted Synthesis of High-Purity Ni-KUST-1 for the Adsorption of CO ₂ , CH ₄ , and N ₂ . <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1047-1052.	2.0	24
130	Mixed-matrix membranes consisting of Pebax and novel nitrogen-doped porous carbons for CO ₂ separation. <i>Journal of Membrane Science</i> , 2022, 644, 120182.	8.2	24
131	A WO ₃ /Ag-Bi oxygen-evolution catalyst for splitting water under mild conditions. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 13249-13255.	7.1	23
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272	Shaping of metal-organic frameworks through a calcium alginate method towards ethylene/ethane separation. <i>Chinese Journal of Chemical Engineering</i> , 2022, 42, 17-24.	3.5	2
273	Boosting the Photoactivity of BiVO ₄ Photoanodes by a ZnCoFe-LDH Thin Layer for Water Oxidation. <i>Chemistry - an Asian Journal</i> , 2021, 16, 4095-4102.	3.3	2
274	Hydrolysis of β , γ -Layered Sodium Disilicate in Ions Binding Process. <i>Tenside, Surfactants, Detergents</i> , 2008, 45, 6-12.	1.2	1
275	Boosting electrochemical nitrogen reduction to ammonia with high efficiency using a LiNb ₃ O ₈ electrocatalyst in neutral media. <i>Dalton Transactions</i> , 2022, 51, 1131-1136.	3.3	1
276	Amorphous CoV Phosphate Nanosheets as Efficient Oxygen Evolution Electrocatalyst. <i>Chemistry - an Asian Journal</i> , 2022, , .	3.3	1
277	Modulation and self-assembly of nanoparticles into bismuth molybdate nanosheets as highly efficient photocatalysts for ciprofloxacin degradation. <i>Environmental Science: Nano</i> , 2022, 9, 2979-2989.	4.3	1
278	Construction of a Porous Metal-Organic Framework with a High Density of Open Cr Sites for Record N ₂ /O ₂ Separation (<i>Adv. Mater.</i> 37/2021). <i>Advanced Materials</i> , 2021, 33, 2170291.	21.0	0
279	Investigation of the formation characteristics of methane hydrate in frozen porous media. <i>Petroleum Science and Technology</i> , 0, , 1-18.	1.5	0