

De-en Jiang

List of Publications by Year in descending order

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344
papers

27,102
citations

4120

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386
all docs

386
docs citations

386
times ranked

24198
citing authors

#	ARTICLE	IF	CITATIONS
1	Sodium storage in triazine-based molecular organic electrodes: The importance of hydroxyl substituents. <i>Chemical Engineering Journal</i> , 2022, 430, 133055.	6.6	16
2	New-Generation Carbon-Capture Ionic Liquids Regulated by Metal-Ion Coordination. <i>ChemSusChem</i> , 2022, 15, .	3.6	8
3	Ammonia synthesis on BaTiO _{2.5} H _{0.5} : computational insights into the role of hydrides. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1496-1502.	1.3	4
4	Ta-TiO _x nanoparticles as radical scavengers to improve the durability of Fe-N-C oxygen reduction catalysts. <i>Nature Energy</i> , 2022, 7, 281-289.	19.8	93
5	Mechanism for Acetone and Crotonaldehyde Production during Steam Reforming of Ethanol over La _{0.7} Sr _{0.3} MnO ₃ Perovskite: Evidence for a Shared C4 Aldol Addition Intermediate. <i>ACS Catalysis</i> , 2022, 12, 4358-4374.	5.5	3
6	Single Atoms Anchored in Hexagonal Boron Nitride for Propane Dehydrogenation from First Principles. <i>ChemCatChem</i> , 2022, 14, .	1.8	6
7	A Heteroleptic Gold Hydride Nanocluster for Efficient and Selective Electrocatalytic Reduction of CO ₂ to CO. <i>Journal of the American Chemical Society</i> , 2022, 144, 5258-5262.	6.6	87
8	Adding MgCl ₂ to Molten NaCl~UCl _n (n=3, 4): Insights from First-Principles Molecular Dynamics. <i>ChemPhysChem</i> , 2022, 23, .	1.0	2
9	Structural transformation and catalytic hydrogenation activity of amidinate-protected copper hydride clusters. <i>Nature Communications</i> , 2022, 13, 2082.	5.8	35
10	Ionic liquids for carbon capture. <i>MRS Bulletin</i> , 2022, 47, 395-404.	1.7	11
11	Defect-Regulated Frustrated-Lewis-Pair Behavior of Boron Nitride in Ambient Pressure Hydrogen Activation. <i>Journal of the American Chemical Society</i> , 2022, 144, 10688-10693.	6.6	17
12	How Water Attacks MXene. <i>Chemistry of Materials</i> , 2022, 34, 4975-4982.	3.2	44
13	Advancing Rare-Earth Separation by Machine Learning. <i>Jacs Au</i> , 2022, 2, 1428-1434.	3.6	16
14	Uncovering the Nature of Band Gap Engineering of Adsorption Energy by Elucidating an Adsorbate Bonding Mechanism on Two-Dimensional TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2022, 126, 10677-10685.	1.5	3
15	Defect Engineering of Ceria Nanocrystals for Enhanced Catalysis via a High-Entropy Oxide Strategy. <i>ACS Central Science</i> , 2022, 8, 1081-1090.	5.3	25
16	Atomistic Insights into Structure and Dynamics of Neodymium(III) Complexation with a Bis-lactam Phenanthroline Ligand in the Organic Phase. <i>ACS Omega</i> , 2022, 7, 21317-21324.	1.6	5
17	Measuring and directing charge transfer in heterogenous catalysts. <i>Nature Communications</i> , 2022, 13, .	5.8	19
18	Theoretical Advances in Understanding and Designing the Active Sites for Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2022, 12, 8404-8433.	5.5	72

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19	Atomically Precise Au ₄₂ Nanorods with Longitudinal Excitons for an Intense Photothermal Effect. <i>Journal of the American Chemical Society</i> , 2022, 144, 12381-12389.	6.6	36
20	<i>In Situ</i> Strong Metal-Support Interaction (SMSI) Affects Catalytic Alcohol Conversion. <i>ACS Catalysis</i> , 2021, 11, 1938-1945.	5.5	50
21	Understanding Superatomic Ag Nanohydrides. <i>Small</i> , 2021, 17, e2004808.	5.2	4
22	Band Gap as a Novel Descriptor for the Reactivity of 2D Titanium Dioxide and its Supported Pt Single Atom for Methane Activation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2484-2488.	2.1	8
23	Electrocatalytic synthesis of heterocycles from biomass-derived furfuryl alcohols. <i>Nature Communications</i> , 2021, 12, 1868.	5.8	28
24	Deep Learning Accelerated Determination of Hydride Locations in Metal Nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12289-12292.	7.2	23
25	Deep Learning Accelerated Determination of Hydride Locations in Metal Nanoclusters. <i>Angewandte Chemie</i> , 2021, 133, 12397-12400.	1.6	0
26	Benzene Ring Knitting Achieved by Ambient-Temperature Dehalogenation via Mechanochemical Ullmann-Type Reductive Coupling. <i>Advanced Materials</i> , 2021, 33, e2008685.	11.1	27
27	Facile Cr ³⁺ -Doping Strategy Dramatically Promoting Ru/CeO ₂ for Low-Temperature CO ₂ Methanation: Unraveling the Roles of Surface Oxygen Vacancies and Hydroxyl Groups. <i>ACS Catalysis</i> , 2021, 11, 5762-5775.	5.5	105
28	Design of Graphene/Ionic Liquid Composites for Carbon Capture. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17511-17516.	4.0	17
29	Fabrication of Ionic Covalent Triazine Framework-Linked Membranes via a Facile Sol-Gel Approach. <i>Chemistry of Materials</i> , 2021, 33, 3386-3393.	3.2	20
30	Synthesis and Characterization of Macrocyclic Ionic Liquids for CO ₂ Separation. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 8218-8226.	1.8	6
31	Revealing the etching process of water-soluble Au ₂₅ nanoclusters at the molecular level. <i>Nature Communications</i> , 2021, 12, 3212.	5.8	32
32	Optimal Linear Water Density for Proton Transport in Tunnel Oxides. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11508-11512.	1.5	2
33	Interfacial charge transfer and interaction in the MXene/heterostructures. <i>Physical Review Materials</i> , 2021, 5, .	0.9	14
34	CO ₂ Chemisorption Behavior of Coordination-Derived Phenolate Sorbents. <i>ChemSusChem</i> , 2021, 14, 2854-2859.	3.6	9
35	Molecular Dynamics Simulations of Complexation of Am(III) with a Preorganized Dicationic Ligand in an Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8532-8538.	1.2	7
36	Understanding the interaction between carboxylates and coinage metals from first principles. <i>Journal of Chemical Physics</i> , 2021, 155, 034301.	1.2	3

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37	CO ₂ Chemisorption Behavior of Coordination-Derived Phenolate Sorbents. <i>ChemSusChem</i> , 2021, 14, 2784-2784.	3.6	2
38	Fundamental Flaw in the Current Construction of the TiO ₂ Electron Transport Layer of Perovskite Solar Cells and Its Elimination. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39371-39378.	4.0	11
39	Titanium Carbide MXene Shows an Electrochemical Anomaly in Water-in-Salt Electrolytes. <i>ACS Nano</i> , 2021, 15, 15274-15284.	7.3	56
40	Molecular dynamics simulations of a dicationic ionic liquid for CO ₂ capture. <i>Journal of Molecular Liquids</i> , 2021, 335, 116163.	2.3	7
41	Effects of interlayer confinement and hydration on capacitive charge storage in birnessite. <i>Nature Materials</i> , 2021, 20, 1689-1694.	13.3	119
42	Locating Hydrides in Ligand-Protected Copper Nanoclusters by Deep Learning. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53468-53474.	4.0	8
43	Single-Atom High-Temperature Catalysis on a Rh ₁ O ₅ Cluster for Production of Syngas from Methane. <i>Journal of the American Chemical Society</i> , 2021, 143, 16566-16579.	6.6	22
44	Benchmark CO ₂ separation achieved by highly fluorinated nanoporous molecular sieve membranes from nonporous precursor via in situ cross-linking. <i>Journal of Membrane Science</i> , 2021, 638, 119698.	4.1	6
45	Proton dynamics in water confined at the interface of the graphene-MXene heterostructure. <i>Journal of Chemical Physics</i> , 2021, 155, 234707.	1.2	5
46	Understanding the conversion of ethanol to propene on In ₂ O ₃ from first principles. <i>Catalysis Today</i> , 2020, 350, 19-24.	2.2	16
47	A new trick for an old support: Stabilizing gold single atoms on LaFeO ₃ perovskite. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118178.	10.8	31
48	Interlayer separation in hydrogen titanates enables electrochemical proton intercalation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 412-421.	5.2	28
49	Understanding hydrogen in perovskites from first principles. <i>Computational Materials Science</i> , 2020, 174, 109461.	1.4	14
50	Molecular dynamics simulations of structural and transport properties of molten NaCl-UCl ₃ using the polarizable-ion model. <i>Journal of Molecular Liquids</i> , 2020, 299, 112184.	2.3	30
51	Proton Redox and Transport in MXene-Confined Water. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 763-770.	4.0	53
52	Transforming Porous Organic Cages into Porous Ionic Liquids via a Supramolecular Complexation Strategy. <i>Angewandte Chemie</i> , 2020, 132, 2288-2292.	1.6	21
53	Transforming Porous Organic Cages into Porous Ionic Liquids via a Supramolecular Complexation Strategy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2268-2272.	7.2	101
54	Ethanol Conversion over La _{0.7} Sr _{0.3} MnO ₃ (100): Autocatalysis, Adjacent O-Vacancies, Disproportionation, and Dehydrogenation. <i>ACS Catalysis</i> , 2020, 10, 12920-12931.	5.5	6

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55	Electrode material—ionic liquid coupling for electrochemical energy storage. <i>Nature Reviews Materials</i> , 2020, 5, 787-808.	23.3	210
56	Hydrogen in Nanocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7049-7057.	2.1	18
57	Descriptors for Hydrogen Evolution on Single Atom Catalysts in Nitrogen-Doped Graphene. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19571-19578.	1.5	75
58	Control of single-ligand chemistry on thiolated Au ₂₅ nanoclusters. <i>Nature Communications</i> , 2020, 11, 5498.	5.8	63
59	All-Carboxylate-Protected Superatomic Silver Nanocluster with an Unprecedented Rhombohedral Ag ₈ Core. <i>Journal of the American Chemical Society</i> , 2020, 142, 16905-16909.	6.6	72
60	Stable Surface Terminations of a Perovskite Oxyhydride from First-Principles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18557-18563.	1.5	5
61	Sinter-Resistant Nanoparticle Catalysts Achieved by 2D Boron Nitride-Based Strong Metal—Support Interactions: A New Twist on an Old Story. <i>ACS Central Science</i> , 2020, 6, 1617-1627.	5.3	42
62	Structure and Dynamics of Aqueous Electrolytes Confined in 2D-TiO ₂ /Ti ₃ C ₂ T ₂ MXene Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 58378-58389.	4.0	25
63	First-principles study of heterostructures of MXene and nitrogen-doped graphene as anode materials for Li-ion batteries. <i>Surfaces and Interfaces</i> , 2020, 21, 100788.	1.5	9
64	Prediction by Convolutional Neural Networks of CO ₂ /N ₂ Selectivity in Porous Carbons from N ₂ Adsorption Isotherm at 77%K. <i>Angewandte Chemie</i> , 2020, 132, 19813-19816.	1.6	7
65	Harnessing strong metal—support interactions via a reverse route. <i>Nature Communications</i> , 2020, 11, 3042.	5.8	84
66	Prediction by Convolutional Neural Networks of CO ₂ /N ₂ Selectivity in Porous Carbons from N ₂ Adsorption Isotherm at 77%K. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19645-19648.	7.2	26
67	Interactions between Ultrastable Na ₄ Ag ₄₄ (SR) ₃₀ Nanoclusters and Coordinating Solvents: Uncovering the Atomic-Scale Mechanism. <i>ACS Nano</i> , 2020, 14, 8433-8441.	7.3	14
68	Nature of Terminating Hydroxyl Groups and Intercalating Water in Ti ₃ C ₂ T _x MXenes: A Study by ¹ H Solid-State NMR and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13649-13655.	1.5	35
69	Highly efficient electrocatalytic hydrogen evolution promoted by —Mo ₂ C interfaces of ultrafine —Mo ₂ C nanostructures. <i>Chemical Science</i> , 2020, 11, 3523-3530.	3.7	54
70	Transformation Strategy for Highly Crystalline Covalent Triazine Frameworks: From Staggered AB to Eclipsed AA Stacking. <i>Journal of the American Chemical Society</i> , 2020, 142, 6856-6860.	6.6	136
71	Ion-gated carbon molecular sieve gas separation membranes. <i>Journal of Membrane Science</i> , 2020, 604, 118013.	4.1	15
72	Pseudocapacitance: From Fundamental Understanding to High Power Energy Storage Materials. <i>Chemical Reviews</i> , 2020, 120, 6738-6782.	23.0	1,020

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73	Mechanochemical synthesis of pillar[5]quinone derived multi-microporous organic polymers for radioactive organic iodide capture and storage. <i>Nature Communications</i> , 2020, 11, 1086.	5.8	87
74	The interplay between surface facet and reconstruction on isopropanol conversion over SrTiO ₃ nanocrystals. <i>Journal of Catalysis</i> , 2020, 384, 49-60.	3.1	19
75	Perovskite-supported Pt single atoms for methane activation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4362-4368.	5.2	31
76	Surpassing Robeson Upper Limit for CO ₂ /N ₂ Separation with Fluorinated Carbon Molecular Sieve Membranes. <i>Chem</i> , 2020, 6, 631-645.	5.8	73
77	Highly Polar but Amorphous Polymers with Robust Membrane CO ₂ /N ₂ Separation Performance. <i>Joule</i> , 2019, 3, 1881-1894.	11.7	60
78	Topotactic Synthesis of Phosphabenzene-Functionalized Porous Organic Polymers: Efficient Ligands in CO ₂ Conversion. <i>Angewandte Chemie</i> , 2019, 131, 13901-13905.	1.6	3
79	Methane Chemisorption on Oxide-Supported Pt Single Atom. <i>ChemPhysChem</i> , 2019, 20, 2217-2220.	1.0	19
80	Topotactic Synthesis of Phosphabenzene-Functionalized Porous Organic Polymers: Efficient Ligands in CO ₂ Conversion. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13763-13767.	7.2	32
81	Entropic selectivity in air separation <i>via</i> a bilayer nanoporous graphene membrane. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16310-16315.	1.3	3
82	Influence of fluorination on CO ₂ adsorption in materials derived from fluorinated covalent triazine framework precursors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17277-17282.	5.2	47
83	Insights into CO ₂ /N ₂ Selectivity in Porous Carbons from Deep Learning. , 2019, 1, 558-563.		34
84	Real Time Monitoring of the Dynamic Intracluster Diffusion of Single Gold Atoms into Silver Nanoclusters. <i>Journal of the American Chemical Society</i> , 2019, 141, 18977-18983.	6.6	73
85	Confined Interlayer Water Promotes Structural Stability for High-Rate Electrochemical Proton Intercalation in Tungsten Oxide Hydrates. <i>ACS Energy Letters</i> , 2019, 4, 2805-2812.	8.8	88
86	Porous liquid zeolites: hydrogen bonding-stabilized H-ZSM-5 in branched ionic liquids. <i>Nanoscale</i> , 2019, 11, 1515-1519.	2.8	82
87	Computational screening of M/Cu core/shell nanoparticles and their applications for the electro-chemical reduction of CO ₂ and CO. <i>Nanoscale</i> , 2019, 11, 11351-11359.	2.8	14
88	Effect of Hydrogen-Induced Metallization on Chemisorption. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15171-15175.	1.5	3
89	Computational Discovery and Design of MXenes for Energy Applications: Status, Successes, and Opportunities. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24885-24905.	4.0	105
90	Phosphorene-Supported Transition-Metal Dimer for Effective N ₂ Electroreduction. <i>ChemPhysChem</i> , 2019, 20, 3141-3146.	1.0	24

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91	Elucidation of the Reaction Mechanism for High-Temperature Water Gas Shift over an Industrial-Type Copper-Chromium-Iron Oxide Catalyst. <i>Journal of the American Chemical Society</i> , 2019, 141, 7990-7999.	6.6	60
92	Efficient Absorption of SO ₂ by Deep Eutectic Solvents Formed by Biobased Aprotic Organic Compound Succinonitrile and 1-Ethyl-3-methylimidazolium Chloride. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9086-9091.	3.2	67
93	Interfacial and electronic properties of heterostructures of MXene and graphene. <i>Physical Review B</i> , 2019, 99, .	1.1	53
94	First-Principles Molecular Dynamics Simulations of UCl _n NaCl (n = 3, 4) Molten Salts. <i>ACS Applied Energy Materials</i> , 2019, 2, 2122-2128.	2.5	39
95	Density-Functional Tight-Binding for Platinum Clusters and Bulk: Electronic vs Repulsive Parameters. <i>MRS Advances</i> , 2019, 4, 1821-1832.	0.5	3
96	Continuously Tunable Pore Size for Gas Separation via a Bilayer Nanoporous Graphene Membrane. <i>ACS Applied Nano Materials</i> , 2019, 2, 379-384.	2.4	34
97	Deep eutectic solvents formed by quaternary ammonium salts and aprotic organic compound succinonitrile. <i>Journal of Molecular Liquids</i> , 2019, 274, 414-417.	2.3	23
98	Confined Ionic Liquid in an Ionic Porous Aromatic Framework for Gas Separation. <i>ACS Applied Polymer Materials</i> , 2019, 1, 95-102.	2.0	20
99	Structure and Interaction of Ionic Liquid Monolayer on Graphite from First-Principles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 618-624.	1.5	8
100	Computational Screening of MXene Electrodes for Pseudocapacitive Energy Storage. <i>Journal of Physical Chemistry C</i> , 2019, 123, 315-321.	1.5	69
101	Three-orders-of-magnitude variation of carrier lifetimes with crystal phase of gold nanoclusters. <i>Science</i> , 2019, 364, 279-282.	6.0	149
102	Understanding the MXene Pseudocapacitance. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1223-1228.	2.1	231
103	Fluorescence of Hydroxyphenyl-Substituted α -Click-Triazoles. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2956-2973.	1.1	21
104	Selective CO Production by Photoelectrochemical Methane Oxidation on TiO ₂ . <i>ACS Central Science</i> , 2018, 4, 631-637.	5.3	56
105	Carbon Dioxide Separation: Highly Permeable Oligo(ethylene oxide)-co -poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation (<i>Adv. Sustainable Syst.</i> 4/2018). <i>Advanced Sustainable Systems</i> , 2018, 2, 1870030.	2.7	1
106	Universal molecular-confined synthesis of interconnected porous metal oxides-N-C frameworks for electrocatalytic water splitting. <i>Nano Energy</i> , 2018, 48, 600-606.	8.2	61
107	Displacement of carbonates in Ca ₂ UO ₂ (CO ₃) ₃ by amidoxime-based ligands from free-energy simulations. <i>Dalton Transactions</i> , 2018, 47, 1604-1613.	1.6	6
108	Interface Engineering of Earth-Abundant Transition Metals Using Boron Nitride for Selective Electroreduction of CO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6694-6700.	4.0	52

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109	Dopant-Dependent Electronic Structures Observed for $M_{20}Au_{36}(SC_6H_{13})_{24}$ Clusters (M = Pt, Pd). <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 982-989.	2.1	55
110	Highly Permeable Oligo(ethylene oxide)-co-poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700113.	2.7	6
111	Thiolate-Protected Trimetallic $Au_{20}Ag_{14}Pd$ and $Au_{20}Ag_{14}Pt$ Alloy Clusters with Controlled Chemical Composition and Metal Positions. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2590-2594.	2.1	55
112	SO_2 absorption in EmimCl-TEG deep eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15168-15173.	1.3	76
113	Single rhodium atoms anchored in micropores for efficient transformation of methane under mild conditions. <i>Nature Communications</i> , 2018, 9, 1231.	5.8	213
114	Understanding Methanol Coupling on SrTiO ₃ from First Principles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7210-7216.	1.5	2
115	Stronger-than-Pt hydrogen adsorption in a Au_{22} nanocluster for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7532-7537.	5.2	63
116	Trends of Alkane Activation on Doped Cobalt (II,â€¦III) Oxide from First Principles. <i>ChemCatChem</i> , 2018, 10, 244-249.	1.8	25
117	Insights into Interfaces, Stability, Electronic Properties, and Catalytic Activities of Atomically Precise Metal Nanoclusters from First Principles. <i>Accounts of Chemical Research</i> , 2018, 51, 2793-2802.	7.6	231
118	Understanding the Binding of a Bifunctional Amidoximate-Carboxylate Ligand with Uranyl in Seawater. <i>Journal of Physical Chemistry B</i> , 2018, 122, 12060-12066.	1.2	8
119	Effects of Metal-Doping on Hydrogen Evolution Reaction Catalyzed by MAu_{24} and $M_{20}Au_{36}$ Nanoclusters (M = Pt, Pd). <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44645-44653.	4.0	81
120	Rationally designed metal nanocluster for electrocatalytic hydrogen production from water. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19495-19501.	5.2	37
121	Understanding the Impact of Surface Reconstruction of Perovskite Catalysts on CH_4 Activation and Combustion. <i>ACS Catalysis</i> , 2018, 8, 10306-10315.	5.5	50
122	Golden single-atomic-site platinum electrocatalysts. <i>Nature Materials</i> , 2018, 17, 1033-1039.	13.3	266
123	Origins and Implications of Interfacial Capacitance Enhancements in C_{60} -Modified Graphene Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36860-36865.	4.0	23
124	New Bonding Model of Radical Adsorbate on Lattice Oxygen of Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6321-6325.	2.1	37
125	Revealing isoelectronic size conversion dynamics of metal nanoclusters by a noncrystallization approach. <i>Nature Communications</i> , 2018, 9, 1979.	5.8	88
126	Promotion of catalytic selectivity on transition metal oxide through restructuring surface lattice. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 957-969.	10.8	20

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127	Effect of pore density on gas permeation through nanoporous graphene membranes. <i>Nanoscale</i> , 2018, 10, 14660-14666.	2.8	31
128	First-Principles Insight into Electrocatalytic Reduction of CO ₂ to CH ₄ on a Copper Nanoparticle. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11392-11398.	1.5	56
129	Low-temperature activation of methane on doped single atoms: descriptor and prediction. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22909-22914.	1.3	62
130	Supported bicyclic amidine ionic liquids as a potential CO ₂ /N ₂ separation medium. <i>Journal of Membrane Science</i> , 2018, 565, 203-212.	4.1	24
131	First Principles Insight into H ₂ Activation and Hydride Species on TiO ₂ Surfaces. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20323-20328.	1.5	44
132	Hetero-biicosahedral [Au ₂₄ Pd ₃] ₁₀ (SC ₂ H ₄ Ph) ₅ Cl ₂ nanocluster: selective synthesis and optical and electrochemical properties. <i>Nanoscale</i> , 2018, 10, 18969-18979.	2.8	51
133	Synthesis of Water-Soluble [Au ₂₅ (SR) ₁₈] ⁺ Using a Stoichiometric Amount of NaBH ₄ . <i>Journal of the American Chemical Society</i> , 2018, 140, 11370-11377.	6.6	90
134	Exploring perovskites for methane activation from first principles. <i>Catalysis Science and Technology</i> , 2018, 8, 702-709.	2.1	35
135	Exploring Structural Diversity and Fluxionality of Pt _n (n = 10-13) Clusters from First-Principles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10796-10802.	1.5	42
136	Computational insight into the capacitive performance of graphene edge planes. <i>Carbon</i> , 2017, 116, 278-285.	5.4	36
137	Hydrogen functionalisation of transition metal dichalcogenide monolayers from first principles. <i>Molecular Simulation</i> , 2017, 43, 379-383.	0.9	6
138	Impact of tuning CO ₂ -philicity in polydimethylsiloxane-based membranes for carbon dioxide separation. <i>Journal of Membrane Science</i> , 2017, 530, 213-219.	4.1	31
139	Ion-Gated Gas Separation through Porous Graphene. <i>Nano Letters</i> , 2017, 17, 1802-1807.	4.5	109
140	A molecule-like PtAu ₂₄ (SC ₆ H ₁₃) ₁₈ nanocluster as an electrocatalyst for hydrogen production. <i>Nature Communications</i> , 2017, 8, 14723.	5.8	274
141	Computational Insights into Materials and Interfaces for Capacitive Energy Storage. <i>Advanced Science</i> , 2017, 4, 1700059.	5.6	176
142	Metallic Hydrogen in Atomically Precise Gold Nanoclusters. <i>Chemistry of Materials</i> , 2017, 29, 4840-4847.	3.2	70
143	General Structure-Reactivity Relationship for Oxygen on Transition-Metal Oxides. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2206-2211.	2.1	62
144	Highly Efficient Carbon Monoxide Capture by Carbanion-Functionalized Ionic Liquids through Ca-Site Interactions. <i>Angewandte Chemie</i> , 2017, 129, 6947-6951.	1.6	26

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145	Highly Efficient Carbon Monoxide Capture by Carbanion-Functionalized Ionic Liquids through Site Interactions (Angew. Chem. 24/2017). Angewandte Chemie, 2017, 129, 7108-7108.	1.6	0
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