# De-en Jiang

# List of Publications by Year in Descending Order

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

361	<b>20,390</b> citations	79	127
papers		h-index	g-index
386 ext. papers	23,611 ext. citations	8.8 avg, IF	7.5 L-index

#	Paper	IF	Citations
361	Sodium storage in triazine-based molecular organic electrodes: The importance of hydroxyl substituents. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 133055	14.7	4
360	TalliOx nanoparticles as radical scavengers to improve the durability of FeNC oxygen reduction catalysts. <i>Nature Energy</i> , <b>2022</b> , 7, 281-289	62.3	13
359	A Heteroleptic Gold Hydride Nanocluster for Efficient and Selective Electrocatalytic Reduction of CO to CO <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	9
358	Structural transformation and catalytic hydrogenation activity of amidinate-protected copper hydride clusters <i>Nature Communications</i> , <b>2022</b> , 13, 2082	17.4	3
357	Measuring and directing charge transfer in heterogenous catalysts. <i>Nature Communications</i> , <b>2022</b> , 13,	17.4	2
356	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> , <b>2021</b> , 12, 2484-2488	6.4	4
355	Electrocatalytic synthesis of heterocycles from biomass-derived furfuryl alcohols. <i>Nature Communications</i> , <b>2021</b> , 12, 1868	17.4	7
354	Deep Learning Accelerated Determination of Hydride Locations in Metal Nanoclusters. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 12289-12292	16.4	8
353	Deep Learning Accelerated Determination of Hydride Locations in Metal Nanoclusters. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 12397-12400	3.6	
352	Benzene Ring Knitting Achieved by Ambient-Temperature Dehalogenation via Mechanochemical Ullmann-Type Reductive Coupling. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008685	24	12
351	Facile Cr3+-Doping Strategy Dramatically Promoting Ru/CeO2 for Low-Temperature CO2 Methanation: Unraveling the Roles of Surface Oxygen Vacancies and Hydroxyl Groups. <i>ACS Catalysis</i> , <b>2021</b> , 11, 5762-5775	13.1	17
350	Design of Graphene/Ionic Liquid Composites for Carbon Capture. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2021</b> , 13, 17511-17516	9.5	5
349	Fabrication of Ionic Covalent Triazine Framework-Linked Membranes via a Facile Sol <b>©</b> el Approach. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 3386-3393	9.6	7
348	Synthesis and Characterization of Macrocyclic Ionic Liquids for CO2 Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 8218-8226	3.9	1
347	Revealing the etching process of water-soluble Au nanoclusters at the molecular level. <i>Nature Communications</i> , <b>2021</b> , 12, 3212	17.4	8
346	Optimal Linear Water Density for Proton Transport in Tunnel Oxides. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 11508-11512	3.8	0
345	Interfacial charge transfer and interaction in the MXene/TiO2 heterostructures. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	4

CO Chemisorption Behavior of Coordination-Derived Phenolate Sorbents. ChemSusChem, 2021, 14, 285482859 2 344 Molecular Dynamics Simulations of Complexation of Am(III) with a Preorganized Dicationic Ligand 343 3.4 in an Ionic Liquid. Journal of Physical Chemistry B, 2021, 125, 8532-8538 In Situ Strong MetalBupport Interaction (SMSI) Affects Catalytic Alcohol Conversion. ACS Catalysis, 342 13.1 13 **2021**, 11, 1938-1945 Understanding Superatomic Ag Nanohydrides. Small, 2021, 17, e2004808 341 11 Understanding the interaction between carboxylates and coinage metals from first principles. 340 3.9 O Journal of Chemical Physics, 2021, 155, 034301 CO Chemisorption Behavior of Coordination-Derived Phenolate Sorbents. ChemSusChem, 2021, 14, 27848.3 339 Fundamental Flaw in the Current Construction of the TiO Electron Transport Layer of Perovskite 338 1 9.5 Solar Cells and Its Elimination. ACS Applied Materials & Elimination. ACS Applied Mat Titanium Carbide MXene Shows an Electrochemical Anomaly in Water-in-Salt Electrolytes. ACS 18 16.7 337 Nano, 2021, 15, 15274-15284 Molecular dynamics simulations of a dicationic ionic liquid for CO2 capture. Journal of Molecular 336 6 1 Liquids, 2021, 335, 116163 Effects of interlayer confinement and hydration on capacitive charge storage in birnessite. Nature 27 335 Materials, 2021, 20, 1689-1694 Locating Hydrides in Ligand-Protected Copper Nanoclusters by Deep Learning. ACS Applied 9.5 1 334 Materials & amp; Interfaces, 2021, 13, 53468-53474 Single-Atom High-Temperature Catalysis on a RhO Cluster for Production of Syngas from Methane. 16.4 333 4 Journal of the American Chemical Society, 2021, 143, 16566-16579 Benchmark CO2 separation achieved by highly fluorinated nanoporous molecular sieve membranes 9.6 332 1 from nonporous precursor via in situ cross-linking. Journal of Membrane Science, 2021, 638, 119698 Proton dynamics in water confined at the interface of the graphene-MXene heterostructure.. 331 3.9 0 Journal of Chemical Physics, 2021, 155, 234707 First-principles study of heterostructures of MXene and nitrogen-doped graphene as anode 330 4.1 2 materials for Li-ion batteries. Surfaces and Interfaces, 2020, 21, 100788 Prediction by Convolutional Neural Networks of CO2/N2 Selectivity in Porous Carbons from N2 3.6 329 4 Adsorption Isotherm at 77 K. Angewandte Chemie, 2020, 132, 19813-19816 Harnessing strong metal-support interactions via a reverse route. Nature Communications, 2020, 11, 30427.4 328 Prediction by Convolutional Neural Networks of CO /N Selectivity in Porous Carbons from N 16.4 12 Adsorption Isotherm at 77 K. Angewandte Chemie - International Edition, 2020, 59, 19645-19648

326	Interactions between Ultrastable NaAg(SR) Nanoclusters and Coordinating Solvents: Uncovering the Atomic-Scale Mechanism. <i>ACS Nano</i> , <b>2020</b> , 14, 8433-8441	16.7	9
325	Nature of Terminating Hydroxyl Groups and Intercalating Water in Ti3C2Tx MXenes: A Study by 1H Solid-State NMR and DFT Calculations. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 13649-13655	3.8	19
324	Highly efficient electrocatalytic hydrogen evolution promoted by O-Mo-C interfaces of ultrafine EMoC nanostructures. <i>Chemical Science</i> , <b>2020</b> , 11, 3523-3530	9.4	29
323	Transformation Strategy for Highly Crystalline Covalent Triazine Frameworks: From Staggered AB to Eclipsed AA Stacking. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 6856-6860	16.4	53
322	Ion-gated carbon molecular sieve gas separation membranes. <i>Journal of Membrane Science</i> , <b>2020</b> , 604, 118013	9.6	9
321	Pseudocapacitance: From Fundamental Understanding to High Power Energy Storage Materials. <i>Chemical Reviews</i> , <b>2020</b> , 120, 6738-6782	68.1	402
320	Mechanochemical synthesis of pillar[5]quinone derived multi-microporous organic polymers for radioactive organic iodide capture and storage. <i>Nature Communications</i> , <b>2020</b> , 11, 1086	17.4	38
319	The interplay between surface facet and reconstruction on isopropanol conversion over SrTiO3 nanocrystals. <i>Journal of Catalysis</i> , <b>2020</b> , 384, 49-60	7.3	7
318	Perovskite-supported Pt single atoms for methane activation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 4362-4368	13	14
317	Surpassing Robeson Upper Limit for CO2/N2 Separation with Fluorinated Carbon Molecular Sieve Membranes. <i>CheM</i> , <b>2020</b> , 6, 631-645	16.2	22
316	Interlayer separation in hydrogen titanates enables electrochemical proton intercalation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 412-421	13	19
315	Understanding hydrogen in perovskites from first principles. <i>Computational Materials Science</i> , <b>2020</b> , 174, 109461	3.2	8
314	Molecular dynamics simulations of structural and transport properties of molten NaCl-UCl3 using the polarizable-ion model. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 299, 112184	6	22
313	Poly(Amidoamine) Dendrimers for Carbon Capture <b>2020</b> , 267-296		
312	Ionic Liquid-Based Membranes <b>2020</b> , 317-345		1
311	CO2 Capture and Separation of Metal©rganic Frameworks <b>2020</b> , 5-27		8
310	Porous Carbon Materials <b>2020</b> , 29-95		2
309	Porous Aromatic Frameworks for Carbon Dioxide Capture <b>2020</b> , 97-115		1

308	Virtual Screening of Materials for Carbon Capture <b>2020</b> , 117-151		2
307	Ultrathin Membranes for Gas Separation <b>2020</b> , 153-185		O
306	Polymeric Membranes <b>2020</b> , 187-214		
305	Carbon Membranes for CO2 Separation <b>2020</b> , 215-236		
304	Composite Materials for Carbon Capture <b>2020</b> , 237-266		3
303	Proton Redox and Transport in MXene-Confined Water. <i>ACS Applied Materials &amp; Description</i> (12, 763-770)	9.5	18
302	Ionic Liquids for Chemisorption of CO2 <b>2020</b> , 297-315		2
301	Transforming Porous Organic Cages into Porous Ionic Liquids via a Supramolecular Complexation Strategy. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 2288-2292	3.6	9
300	Transforming Porous Organic Cages into Porous Ionic Liquids via a Supramolecular Complexation Strategy. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2268-2272	16.4	50
299	Ethanol Conversion over La0.7Sr0.3MnO3½(100): Autocatalysis, Adjacent O-Vacancies, Disproportionation, and Dehydrogenation. <i>ACS Catalysis</i> , <b>2020</b> , 10, 12920-12931	13.1	3
298	Electrode material[bnic liquid coupling for electrochemical energy storage. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 787-808	73.3	89
297	Hydrogen in Nanocatalysis. Journal of Physical Chemistry Letters, 2020, 11, 7049-7057	6.4	10
296	Descriptors for Hydrogen Evolution on Single Atom Catalysts in Nitrogen-Doped Graphene. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 19571-19578	3.8	20
295	Control of single-ligand chemistry on thiolated Au nanoclusters. <i>Nature Communications</i> , <b>2020</b> , 11, 5498	<sup>3</sup> 17.4	23
294	All-Carboxylate-Protected Superatomic Silver Nanocluster with an Unprecedented Rhombohedral Ag Core. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 16905-16909	16.4	40
293	Stable Surface Terminations of a Perovskite Oxyhydride from First-Principles. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 18557-18563	3.8	O
292	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> , <b>2020</b> , 6, 1617-1627	16.8	15
291	Structure and Dynamics of Aqueous Electrolytes Confined in 2D-TiO/TiCT MXene Heterostructures. <i>ACS Applied Materials &amp; Description (Confidence of Action (Confidence of Action </i>	9.5	4

<b>2</b> 90	Understanding the conversion of ethanol to propene on In2O3 from first principles. <i>Catalysis Today</i> , <b>2020</b> , 350, 19-24	5.3	6
289	A new trick for an old support: Stabilizing gold single atoms on LaFeO3 perovskite. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 261, 118178	21.8	21
288	Porous liquid zeolites: hydrogen bonding-stabilized H-ZSM-5 in branched ionic liquids. <i>Nanoscale</i> , <b>2019</b> , 11, 1515-1519	7.7	52
287	Computational screening of M/Cu core/shell nanoparticles and their applications for the electro-chemical reduction of CO and CO. <i>Nanoscale</i> , <b>2019</b> , 11, 11351-11359	7.7	5
286	Effect of Hydrogen-Induced Metallization on Chemisorption. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 15171-15175	3.8	2
285	Computational Discovery and Design of MXenes for Energy Applications: Status, Successes, and Opportunities. <i>ACS Applied Materials &amp; Acs Applied &amp; Acs App</i>	9.5	65
284	Phosphorene-Supported Transition-Metal Dimer for Effective N Electroreduction. <i>ChemPhysChem</i> , <b>2019</b> , 20, 3141-3146	3.2	14
283	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> , <b>2019</b> , 141, 7990-7999	16.4	33
282	Efficient Absorption of SO2 by Deep Eutectic Solvents Formed by Biobased Aprotic Organic Compound Succinonitrile and 1-Ethyl-3-methylimidazolium Chloride. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 9086-9091	8.3	42
281	Highly Polar but Amorphous Polymers with Robust Membrane CO2/N2 Separation Performance. <i>Joule</i> , <b>2019</b> , 3, 1881-1894	27.8	30
280	Topotactic Synthesis of Phosphabenzene-Functionalized Porous Organic Polymers: Efficient Ligands in CO2 Conversion. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13901-13905	3.6	2
279	Methane Chemisorption on Oxide-Supported Pt Single Atom. <i>ChemPhysChem</i> , <b>2019</b> , 20, 2217-2220	3.2	9
278	Topotactic Synthesis of Phosphabenzene-Functionalized Porous Organic Polymers: Efficient Ligands in CO Conversion. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13763-13767	16.4	18
277	Entropic selectivity in air separation via a bilayer nanoporous graphene membrane. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 16310-16315	3.6	3
276	Influence of fluorination on CO2 adsorption in materials derived from fluorinated covalent triazine framework precursors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17277-17282	13	30
275	Insights into CO2/N2 Selectivity in Porous Carbons from Deep Learning <b>2019</b> , 1, 558-563		16
274	Real Time Monitoring of the Dynamic Intracluster Diffusion of Single Gold Atoms into Silver Nanoclusters. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 18977-18983	16.4	48
273	Confined Interlayer Water Promotes Structural Stability for High-Rate Electrochemical Proton Intercalation in Tungsten Oxide Hydrates. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2805-2812	20.1	51

#### (2018-2019)

Three-orders-of-magnitude variation of carrier lifetimes with crystal phase of gold nanoclusters. <i>Science</i> , <b>2019</b> , 364, 279-282	33.3	75	
Interfacial and electronic properties of heterostructures of MXene and graphene. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	34	
First-Principles Molecular Dynamics Simulations of UClnNaCl (n = 3, 4) Molten Salts. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2122-2128	6.1	24	
Density-Functional Tight-Binding for Platinum Clusters and Bulk: Electronic vs Repulsive Parameters. <i>MRS Advances</i> , <b>2019</b> , 4, 1821-1832	0.7	1	
Continuously Tunable Pore Size for Gas Separation via a Bilayer Nanoporous Graphene Membrane. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 379-384	5.6	22	
Deep eutectic solvents formed by quaternary ammonium salts and aprotic organic compound succinonitrile. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 274, 414-417	6	10	
Confined Ionic Liquid in an Ionic Porous Aromatic Framework for Gas Separation. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 95-102	4.3	13	
Structure and Interaction of Ionic Liquid Monolayer on Graphite from First-Principles. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 618-624	3.8	8	
Computational Screening of MXene Electrodes for Pseudocapacitive Energy Storage. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 315-321	3.8	47	
Understanding the MXene Pseudocapacitance. Journal of Physical Chemistry Letters, 2018, 9, 1223-122	8 6.4	133	
Fluorescence of Hydroxyphenyl-Substituted "Click" Triazoles. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 2956-2973	2.8	18	
Selective CO Production by Photoelectrochemical Methane Oxidation on TiO. <i>ACS Central Science</i> , <b>2018</b> , 4, 631-637	16.8	30	
Carbon Dioxide Separation: Highly Permeable Oligo(ethylene oxide)-co-poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation (Adv. Sustainable Syst. 4/2018). <i>Advanced Sustainable Systems</i> , <b>2018</b> , 2, 1870030	5.9	1	
Universal molecular-confined synthesis of interconnected porous metal oxides-N-C frameworks for electrocatalytic water splitting. <i>Nano Energy</i> , <b>2018</b> , 48, 600-606	17.1	50	
Displacement of carbonates in CaUO(CO) by amidoxime-based ligands from free-energy simulations. <i>Dalton Transactions</i> , <b>2018</b> , 47, 1604-1613	4.3	1	
Interface Engineering of Earth-Abundant Transition Metals Using Boron Nitride for Selective Electroreduction of CO. <i>ACS Applied Materials &amp; Electroreduction of CO. ACS Appli</i>	9.5	40	
Dopant-Dependent Electronic Structures Observed for MAu(SCH) Clusters (M = Pt, Pd). <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 982-989	6.4	37	
Highly Permeable Oligo(ethylene oxide)-co-poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation. <i>Advanced Sustainable Systems</i> , <b>2018</b> , 2, 1700113	5.9	4	
	Interfacial and electronic properties of heterostructures of MXene and graphene. <i>Physical Review B</i> , 2019, 99,  First-Principles Molecular Dynamics Simulations of UCInBiaCl (n = 3, 4) Molten Salts. <i>ACS Applied Energy Materials</i> , 2019, 2, 2122-2128  Density-Functional Tighk-Binding for Platinum Clusters and Bulk: Electronic vs Repulsive Parameters. <i>MRS Advances</i> , 2019, 4, 1821-1832  Continuously Tunable Pore Size for Gas Separation via a Bilayer Nanoporous Graphene Membrane. <i>ACS Applied Nano Materials</i> , 2019, 2, 379-384  Deep eutectic solvents formed by quaternary ammonium salts and aprotic organic compound succinonitrile. <i>Journal of Molecular Liquids</i> , 2019, 274, 414-417  Confined Ionic Liquid in an Ionic Porous Aromatic Framework for Gas Separation. <i>ACS Applied Polymer Materials</i> , 2019, 1, 95-102  Structure and Interaction of Ionic Liquid Monolayer on Graphite from First-Principles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 618-624  Computational Screening of MXene Electrodes for Pseudocapacitive Energy Storage. <i>Journal of Physical Chemistry C</i> , 2019, 123, 315-321  Understanding the MXene Pseudocapacitance. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1223-122  Fluorescence of Hydroxyphenyl-Substituted "Click" Triazoles. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2956-2973  Selective CO Production by Photoelectrochemical Methane Oxidation on TiO. <i>ACS Central Science</i> , 2018, 4, 631-637  Carbon Dioxide Separation: Highly Permeable Oligo(ethylene oxide)-co-poly(dimethylsiloxane)  Membranes for Carbon Dioxide Separation (Adv. Sustainable Syst. 4/2018). <i>Advanced Sustainable Systems</i> , 2018, 2, 1870030  Universal molecular-confined synthesis of interconnected porous metal oxides-N-C frameworks for electrocatalytic water splitting. <i>Nano Energy</i> , 2018, 48, 600-606  Displacement of carbonates in CaUO(CO) by amidoxime-based ligands from free-energy simulations. <i>Dalton Transactions</i> , 2018, 47, 1604-1613  Interface Engineering of Earth-Abundant Transition Metals Using Boron Nitride for Selective Elec	Interfacial and electronic properties of heterostructures of MXene and graphene. Physical Review B , 2019, 99.  First-Principles Molecular Dynamics Simulations of UCInBiaCl (n = 3, 4) Molten Salts. ACS Applied Energy Materials, 2019, 2, 2122-2128  Density-Functional Tight-Binding for Platinum Clusters and Bulk: Electronic vs Repulsive Parameters. MRS Advances, 2019, 4, 1821-1832  Continuously Tunable Pore Size for Gas Separation via a Bilayer Nanoporous Graphene Membrane. ACS Applied Nano Materials, 2019, 2, 379-384  Deep eutectic solvents formed by quaternary ammonium salts and aprotic organic compound succinonitrile. Journal of Molecular Liquids, 2019, 274, 414-417  Confined Ionic Liquid in an Ionic Porous Aromatic Framework for Gas Separation. ACS Applied Polymer Materials, 2019, 1, 95-102  Structure and Interaction of Ionic Liquid Monolayer on Graphite from First-Principles. Journal of Physical Chemistry C, 2019, 123, 618-624  Computational Screening of MXene Electrodes for Pseudocapacitive Energy Storage. Journal of Physical Chemistry C, 2019, 123, 315-321  Understanding the MXene Pseudocapacitance. Journal of Physical Chemistry Letters, 2018, 9, 1223-1228 64  Fluorescence of Hydroxyphenyl-Substituted "Click" Triazoles. Journal of Physical Chemistry A, 2018, 2, 8  2.8  Selective CO Production by Photoelectrochemical Methane Oxidation on Tio. ACS Central Science, 2018, 4, 631-637  Carbon Dioxide Separation: Highly Permeable Oligo(ethylene oxide)-co-poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation (Adv. Sustainable Syst. 4/2018). Advanced Sustainable Systems, 2018, 2, 1870030  Universal molecular-confined synthesis of interconnected porous metal oxides-N-C frameworks for electrocatalytic water splitting. Nano Energy, 2018, 48, 600-606  Displacement of carbonates in CaUO(CO) by amidoxime-based ligands from free-energy simulations. Dalton Transactions, 2018, 47, 1604-1613  Interface Engineering of Earth-Abundant Transition Metals Using Boron Nitride for Selective Electroreduction of Co. ACS Appli	Interfacial and electronic properties of heterostructures of MXene and graphene, Physical Review B , 2019, 99, 199, 199, 199, 199, 199, 199, 1

254	Thiolate-Protected Trimetallic AuAgPd and AuAgPt Alloy Clusters with Controlled Chemical Composition and Metal Positions. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2590-2594	6.4	38
253	SO absorption in EmimCl-TEG deep eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 15	168615 <sup>.</sup>	1 <del>73</del>
252	Single rhodium atoms anchored in micropores for efficient transformation of methane under mild conditions. <i>Nature Communications</i> , <b>2018</b> , 9, 1231	17.4	140
251	Understanding Methanol Coupling on SrTiO3 from First Principles. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 7210-7216	3.8	1
250	Stronger-than-Pt hydrogen adsorption in a Au22 nanocluster for the hydrogen evolution reaction. Journal of Materials Chemistry A, <b>2018</b> , 6, 7532-7537	13	41
249	Trends of Alkane Activation on Doped Cobalt (II, III) Oxide from First Principles. <i>ChemCatChem</i> , <b>2018</b> , 10, 244-249	5.2	17
248	Effect of pore density on gas permeation through nanoporous graphene membranes. <i>Nanoscale</i> , <b>2018</b> , 10, 14660-14666	7.7	23
247	First-Principles Insight into Electrocatalytic Reduction of CO2 to CH4 on a Copper Nanoparticle. Journal of Physical Chemistry C, <b>2018</b> , 122, 11392-11398	3.8	39
246	Low-temperature activation of methane on doped single atoms: descriptor and prediction. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 22909-22914	3.6	40
245	Supported bicyclic amidine ionic liquids as a potential CO2/N2 separation medium. <i>Journal of Membrane Science</i> , <b>2018</b> , 565, 203-212	9.6	20
244	First Principles Insight into H2 Activation and Hydride Species on TiO2 Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 20323-20328	3.8	21
243	Hetero-biicosahedral [AuPd(PPh)(SCHPh)Cl] nanocluster: selective synthesis and optical and electrochemical properties. <i>Nanoscale</i> , <b>2018</b> , 10, 18969-18979	7.7	35
242	Synthesis of Water-Soluble [Au(SR)] Using a Stoichiometric Amount of NaBH. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 11370-11377	16.4	72
241	Exploring perovskites for methane activation from first principles. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 702-709	5.5	22
240	Insights into Interfaces, Stability, Electronic Properties, and Catalytic Activities of Atomically Precise Metal Nanoclusters from First Principles. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 2793-2802	24.3	156
239	Understanding the Binding of a Bifunctional Amidoximate-Carboxylate Ligand with Uranyl in Seawater. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 12060-12066	3.4	2
238	Effects of Metal-Doping on Hydrogen Evolution Reaction Catalyzed by MAu and MAu Nanoclusters (M = Pt, Pd). <i>ACS Applied Materials &amp; Doping State (M = Pt, Pd)</i> . ACS Applied Materials & Doping State (M = Pt, Pd). ACS Applied Materials & Doping State (M = Pt, Pd). ACS Applied Materials & Doping State (M = Pt, Pd). ACS Applied Materials & Doping State (M = Pt, Pd).	9.5	57
237	Rationally designed metal nanocluster for electrocatalytic hydrogen production from water. Journal of Materials Chemistry A, <b>2018</b> , 6, 19495-19501	13	25

236	Understanding the Impact of Surface Reconstruction of Perovskite Catalysts on CH4 Activation and Combustion. <i>ACS Catalysis</i> , <b>2018</b> , 8, 10306-10315	13.1	36
235	Golden single-atomic-site platinum electrocatalysts. <i>Nature Materials</i> , <b>2018</b> , 17, 1033-1039	27	177
234	Origins and Implications of Interfacial Capacitance Enhancements in C-Modified Graphene Supercapacitors. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 36860-36865	9.5	19
233	New Bonding Model of Radical Adsorbate on Lattice Oxygen of Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 6321-6325	6.4	21
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118 117 116	Physical Properties of Graphene Nanoribbons: Insights from First-Principles Studies <b>2013</b> , 51-77  Cutting Graphitic Materials: A Promising Way to Prepare Graphene Nanoribbons <b>2013</b> , 79-99  The strategies for improving carbon dioxide chemisorption by functionalized ionic liquids. <i>RSC Advances</i> , <b>2013</b> , 3, 15518  Oxide-supported atomically precise gold nanocluster for catalyzing Sonogashira cross-coupling.	3.7	1 108
118 117 116	Physical Properties of Graphene Nanoribbons: Insights from First-Principles Studies 2013, 51-77  Cutting Graphitic Materials: A Promising Way to Prepare Graphene Nanoribbons 2013, 79-99  The strategies for improving carbon dioxide chemisorption by functionalized ionic liquids. RSC Advances, 2013, 3, 15518  Oxide-supported atomically precise gold nanocluster for catalyzing Sonogashira cross-coupling. Journal of Catalysis, 2013, 306, 177-183  Vibrational cross-angles in condensed molecules: a structural tool. Journal of Physical Chemistry A,	3·7 7·3	1 108 97
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