

Hong-Jun Fan

List of Publications by Year in descending order

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68
papers

1,658
citations

394286

19
h-index

302012

39
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71
all docs

71
docs citations

71
times ranked

2056
citing authors

#	ARTICLE	IF	CITATIONS
1	Elementary photocatalytic chemistry on TiO ₂ surfaces. <i>Chemical Society Reviews</i> , 2016, 45, 3701-3730.	18.7	288
2	Stepwise Photocatalytic Dissociation of Methanol and Water on TiO ₂ (110). <i>Journal of the American Chemical Society</i> , 2012, 134, 13366-13373.	6.6	244
3	Site-specific photocatalytic splitting of methanol on TiO ₂ (110). <i>Chemical Science</i> , 2010, 1, 575.	3.7	150
4	Heteroatom-doped Carbon Spheres from Hierarchical Hollow Covalent Organic Framework Precursors for Metal-Free Catalysis. <i>ChemSusChem</i> , 2017, 10, 4921-4926.	3.6	75
5	Chirality sensing of tertiary alcohols by a novel strong hydrogen-bonding donor "selenourea". <i>Chemical Science</i> , 2016, 7, 932-938.	3.7	64
6	A turn-on PET fluorescence sensor for imaging Cu ²⁺ in living cells. <i>New Journal of Chemistry</i> , 2010, 34, 1055.	1.4	57
7	Highly Effective Configurational Assignment Using Bisthioureas as Chiral Solvating Agents in the Presence of DABCO. <i>Organic Letters</i> , 2015, 17, 1369-1372.	2.4	49
8	Chiral Sensor for Enantiodiscrimination of Varied Acids. <i>Organic Letters</i> , 2016, 18, 2524-2527.	2.4	48
9	Effect of the Hydrogen Bond in Photoinduced Water Dissociation: A Double-Edged Sword. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 603-608.	2.1	46
10	Comparative study on reducing aromatic aldehydes by using ammonia borane and lithium amidoborane as reducing reagents. <i>New Journal of Chemistry</i> , 2012, 36, 1496.	1.4	39
11	Photocatalytic Dissociation of Ethanol on TiO ₂ (110) by Near-Band-Gap Excitation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10336-10344.	1.5	37
12	Compensation between Surface Energy and hcp/fcc Phase Energy of Late Transition Metals from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11005-11014.	1.5	37
13	Vanadium, Molybdenum, and Sodium Triethanolamine Complexes Derived from an Assembly System Containing Tetrathiometalate and Triethanolamine. <i>Inorganic Chemistry</i> , 2001, 40, 3725-3733.	1.9	31
14	Elementary Chemical Reactions in Surface Photocatalysis. <i>Annual Review of Physical Chemistry</i> , 2018, 69, 451-472.	4.8	31
15	Low-Temperature Hydrogen Production via Water Conversion on Pt/TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 10956-10962.	1.5	29
16	Synthesis of Chiral Trispirocyclic Oxindoles via Organic-Base/Au(I)-Catalyzed Sequential Reactions. <i>ACS Catalysis</i> , 2018, 8, 10180-10189.	5.5	28
17	Reactions of Copper and Silver Cations with Carbon Dioxide: An Infrared Photodissociation Spectroscopic and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3220-3226.	1.1	24
18	Coordination-induced CO ₂ fixation into carbonate by metal oxides. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19314-19320.	1.3	22

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19	Relation between Water Oxidation Activity and Coordination Environment of C,N-Coordinated Mononuclear Co Catalyt. ACS Catalysis, 2022, 12, 491-496.	5.5	22
20	Origin of the Adsorption-State-Dependent Photoactivity of Methanol on TiO ₂ (110). ACS Catalysis, 2021, 11, 2620-2630.	5.5	18
21	Photoelectron Velocity Map Imaging Spectroscopy of Lead Tetracarbonyl-iron Anion PbFe(CO) ₄ ⁺ . Journal of Physical Chemistry A, 2016, 120, 3533-3538.	1.1	15
22	Reversal of diastereoselectivity in palladium-arene interaction directed hydrogenative desymmetrization of 1,3-diketones. Science China Chemistry, 2020, 63, 215-221.	4.2	15
23	Ligand-Mediated Reactivity in CO Oxidation of Niobium-Nickel Monoxide Carbonyl Complexes: The Crucial Roles of the Multiple Adsorption of CO Molecules. Journal of Physical Chemistry Letters, 2019, 10, 1566-1573.	2.1	14
24	CO ₂ (aq) concentration-dependent CO ₂ fixation <i>via</i> carboxylation by decarboxylase. Green Chemistry, 2021, 23, 4403-4409.	4.6	14
25	Understanding intermolecular C-F bond activation by a transient titanium neopentylidene: experimental and theoretical studies on the competition between 1,2-CF bond addition and [2 + 2]-cycloaddition/ ¹ fluoride elimination. Dalton Transactions, 2013, 42, 4163.	1.6	13
26	The mechanism of H ₂ and H ₂ O desorption from bridging hydroxyls of a TiO ₂ (110) surface. Catalysis Science and Technology, 2017, 7, 251-264.	2.1	13
27	Theoretical study on the mechanism for NH ₃ BH ₃ reduction of ketones and imines. Molecular Physics, 2013, 111, 3014-3024.	0.8	12
28	Photoelectron velocity-map imaging and theoretical studies of heteronuclear metal carbonyls <i>M</i> Ni(CO) ₃ ⁺ (<i>M</i> = Mg, Ca, Al). Journal of Chemical Physics, 2016, 144, 124303.	1.2	11
29	Observation of promoted C-O bond weakening on the heterometallic nickel-silver: Photoelectron velocity-map imaging spectroscopy of AgNi(CO) _n ⁺ . Journal of Chemical Physics, 2017, 146, 244316.	1.2	10
30	Structures and Infrared Spectra of [M(CO) ₂] ₇ ⁺ (M = V, Cr, and Tj ETQqO 0,0,rgBT /Oyerlock 10	1.1	10
31	Morphology Evolution of FCC and HCP Cobalt Induced by a CO Atmosphere from <i>Ab Initio</i> Thermodynamics. Journal of Physical Chemistry C, 2020, 124, 23200-23209.	1.5	10
32	Infrared + vacuum ultraviolet two-color ionization spectroscopy of neutral metal complexes based on a tunable vacuum ultraviolet free-electron laser. Review of Scientific Instruments, 2020, 91, 034103.	0.6	10
33	Assembled Multinuclear Ruthenium(II)-NNNN Complexes: Synthesis, Catalytic Properties, and DFT Calculations. Organometallics, 2020, 39, 93-104.	1.1	9
34	Photoelectron Velocity Map Imaging Spectroscopic and Theoretical Study of Heteronuclear MNi(CO) ₇ ⁺ (M = V, Nb, Ta). Journal of Physical Chemistry A, 2020, 124, 2264-2269.	1.1	9
35	Divide-and-Link Peptide Docking: A Fragment-Based Peptide Docking Protocol. Physical Chemistry Chemical Physics, 2021, 23, 22647-22660.	1.3	9
36	Photocatalytic C-H Bond Activation of Toluene on Rutile TiO ₂ (110). Journal of Physical Chemistry C, 2022, 126, 11963-11970.	1.5	9

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37	Observing the Transition from Equatorial to Axial CO Chemisorption: Infrared Photodissociation Spectroscopy of Yttrium Oxide-Carbonyls. <i>Inorganic Chemistry</i> , 2016, 55, 5502-5506.	1.9	8
38	Spectroscopic Identification of Transition-Metal $M[\text{I}^{2+}(\text{O},\text{O})\text{C}]$ Species for Highly-Efficient CO_2 Activation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 472-477.	2.1	8
39	The adsorption and dissociation of multilayer CH_3OH on TiO_2 (110). <i>Science China Chemistry</i> , 2015, 58, 614-619.	4.2	7
40	The location of excess electrons on $\text{H}_2\text{O}/\text{TiO}_2$ (110) surface and its role in the surface reactions. <i>Molecular Physics</i> , 2018, 116, 171-178.	0.8	7
41	Photoelectron velocity map imaging spectroscopic and theoretical study of heteronuclear vanadium-nickel carbonyl anions $\text{VNi}(\text{CO})_n^-$ ($n = 2-6$). <i>Journal of Chemical Physics</i> , 2018, 149, 144305.	1.2	7
42	Theoretical study on primary reaction of photosynthetic bacteria. <i>Science in China Series C: Life Sciences</i> , 1999, 42, 155-161.	1.3	6
43	Assessment of Contemporary Theoretical Methods for Bond Dissociation Enthalpies. <i>Chinese Journal of Chemical Physics</i> , 2016, 29, 453-461.	0.6	6
44	Photoelectron Velocity Map Imaging Spectroscopy of Heteronuclear Metal-Nickel Carbonyls $\text{MNi}(\text{CO})_n^-$ ($\text{M} = \text{Sc}, \text{Y}; n = 2-6$). <i>Topics in Catalysis</i> , 2018, 61, 71-80.	1.3	6
45	Direct Partial Oxidation of Methane Catalyzed by an In Situ Generated Active Au(III) Complex at Low Temperature in Ionic Liquids. <i>Organometallics</i> , 2021, 40, 370-382.	1.1	6
46	Photoelectron imaging and theoretical study on the structure and chemical binding of the mixed-ligand $\text{M}(\text{I})$ complexes, $[\text{HMSH}]^+$ ($\text{M} = \text{Cu}, \text{Ag}, \text{and Au}$). <i>Journal of Chemical Physics</i> , 2014, 140, 114307.	1.2	5
47	On the photoelectron velocity-map imaging of lutetium monoxide anion LuO^- . <i>Journal of Chemical Physics</i> , 2014, 140, 034312.	1.2	5
48	Photoelectron Velocity-Map Imaging and Theoretical Studies of Heterotrinary Metal Carbonyls $\text{V}_2\text{Ni}(\text{CO})_n^-$ ($n = 6-10$). <i>Journal of Physical Chemistry A</i> , 2018, 122, 53-59.	1.1	5
49	Aerosol mass spectrometry of neutral species based on a tunable vacuum ultraviolet free electron laser. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 16484-16492.	1.3	5
50	Infrared photodissociation spectroscopic and theoretical study of $[\text{Co}(\text{CO})_n]^+$ clusters. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 223-228.	0.6	4
51	On-Surface Fabrication of Small-Sized Nanoporous Graphene. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14404-14407.	1.5	4
52	Low-Temperature Aldol Condensation of Aldehydes on R-TiO_2 (100)-(1 Å ⁻¹): Exceptional Selectivity for β,β -Unsaturated Enal Production. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1708-1717.	2.1	4
53	Formation of Polysulfides from Consolidation of Cu Vacancies on CuS (001) Surfaces. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11325-11335.	1.5	4
54	Photocatalytic Activity and Hole-Scavenging Behaviors on Rutile TiO_2 (100) Surfaces: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2022, 126, 974-985.	1.5	4

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55	Sensitive detection of glyoxal by cluster-mediated CH ₂ Br ₂ ⁺ chemical ionization time-of-flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2022, 1206, 339612.	2.6	4
56	Hydrogen Production on Pt/TiO ₂ : Synergistic Catalysis between Pt Clusters and Interfacial Adsorbates. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3182-3187.	2.1	4
57	Title is missing!. <i>Journal of Cluster Science</i> , 2002, 13, 15-31.	1.7	3
58	An investigation into low-lying electronic states of HCS ₂ via threshold photoelectron imaging. <i>Journal of Chemical Physics</i> , 2014, 140, 214318.	1.2	3
59	Diffusion of Formaldehyde on Rutile TiO ₂ (110) Assisted by Surface Hydroxyl Groups. <i>Chinese Journal of Chemical Physics</i> , 2017, 30, 253-258.	0.6	3
60	Infrared spectroscopy of CO ₂ transformation by group III metal monoxide cations. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 160-166.	0.6	3
61	A DFT study on recombination of alkyl radicals to C ₂ -C ₁₇ normal alkanes & branched C ₈ alkanes and corresponding C-C bond pyrolysis reaction. <i>Molecular Physics</i> , 2020, 118, e1773002.	0.8	3
62	Isoelectronic IrC ₃ ⁺ , PtC ₃ , and AuC ₃ ⁺ Clusters Featuring the Structural and Bonding Resemblance to OC ₃ . <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 12-17.	2.1	3
63	A theoretical investigation on the structures of (NH ₃) ₂ ·(H ₂ SO ₄) ₂ ·(H ₂ O) ₁₄ clusters. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25850.	1.0	2
64	Silylium ion mediated 2+2 cycloaddition leads to 4+2 Diels-Alder reaction products. <i>Communications Chemistry</i> , 2020, 3, .	2.0	2
65	Ligand-Induced Tuning of the Electronic Structure of Rhombus Tetraboron Cluster. <i>ChemPhysChem</i> , 2022, 23, e202200060.	1.0	2
66	Spectroscopic Characterization of the Synergistic Mechanism of Ruthenium-Lithium Hydrides for Dinitrogen Cleavage. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3937-3941.	2.1	2
67	The Role of Redox-Inactive Metals in Modulating the Redox Potential of the Mn ₄ CaO ₄ Model Complex. <i>Inorganic Chemistry</i> , 2022, 61, 11539-11549.	1.9	1
68	Evaluating the covalent binding of carbapenems on BlaC using noncovalent interactions. <i>Journal of Molecular Modeling</i> , 2021, 27, 161.	0.8	0