

Yan-Xia Zhao

List of Publications by Citations

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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.

81
papers

2,664
citations

29
h-index

50
g-index

84
ext. papers

2,954
ext. citations

6
avg, IF

5.22
L-index

#	Paper	IF	Citations
81	C-H bond activation by oxygen-centered radicals over atomic clusters. <i>Accounts of Chemical Research</i> , 2012 , 45, 382-90	24.3	229
80	CO oxidation catalyzed by single gold atoms supported on aluminum oxide clusters. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14307-13	16.4	174
79	Characterization and reactivity of oxygen-centred radicals over transition metal oxide clusters. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1925-38	3.6	149
78	Active sites of stoichiometric cerium oxide cations (Ce _m O _{2m} ⁺) probed by reactions with carbon monoxide and small hydrocarbon molecules. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 3984-97	3.6	123
77	Transition metal oxide clusters with character of oxygen-centered radical: a DFT study. <i>Theoretical Chemistry Accounts</i> , 2010 , 127, 449-465	1.9	113
76	Thermal methane conversion to formaldehyde promoted by single platinum atoms in PtAl ₂ O ₄ (-) cluster anions. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9482-6	16.4	99
75	Hydrogen-atom abstraction from methane by stoichiometric early transition metal oxide cluster cations. <i>Chemical Communications</i> , 2010 , 46, 1736-8	5.8	93
74	Thermal Reactions of (V ₂ O ₅) _n O ₄ (n = 1B) Cluster Anions with Ethylene and Propylene: Oxygen Atom Transfer Versus Molecular Association. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14967-14976	3.8	92
73	Room-temperature methane activation by a bimetallic oxide cluster. <i>Chemical Physics Letters</i> , 2010 , 489, 25-29	2.5	91
72	Hydrogen-atom abstraction from methane by stoichiometric vanadium-silicon heteronuclear oxide cluster cations. <i>Chemistry - A European Journal</i> , 2010 , 16, 11463-70	4.8	82
71	Reactions of V ₄ O ₁₀ ⁺ cluster ions with simple inorganic and organic molecules. <i>International Journal of Mass Spectrometry</i> , 2013 , 354-355, 105-112	1.9	73
70	Experimental and Theoretical Study of the Reactions between VanadiumSilicon Heteronuclear Oxide Cluster Anions with n-Butane. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12271-12279	3.8	71
69	Methane Activation by Gas Phase Atomic Clusters. <i>Accounts of Chemical Research</i> , 2018 , 51, 2603-2610	24.3	70
68	Methane activation by yttrium-doped vanadium oxide cluster cations: local charge effects. <i>Chemistry - A European Journal</i> , 2011 , 17, 11728-33	4.8	64
67	C ₆ H ₆ activation on aluminum-vanadium bimetallic oxide cluster anions. <i>Chemistry - A European Journal</i> , 2011 , 17, 3449-57	4.8	52
66	Collision-induced dissociation and density functional theory studies of CO adsorption over zirconium oxide cluster ions: oxidative and nonoxidative adsorption. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 5238-46	2.8	49
65	Density-functional global optimization of (La ₂ O ₃) _n clusters. <i>Journal of Chemical Physics</i> , 2012 , 137, 21433-4	3.6	46

64	Methane activation by gold-doped titanium oxide cluster anions with closed-shell electronic structures. <i>Chemical Science</i> , 2016 , 7, 4730-4735	9.4	42
63	Gold(III) Mediated Activation and Transformation of Methane on Au ¹ -Doped Vanadium Oxide Cluster Cations AuV ₂ O ₆ (.). <i>Journal of the American Chemical Society</i> , 2016 , 138, 9437-43	16.4	39
62	Thermal Methane Conversion to Syngas Mediated by Rh-Doped Aluminum Oxide Cluster Cations RhAlO. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12854-12860	16.4	37
61	Methane Activation by Iron-Carbide Cluster Anions FeC ₆ (-). <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2287-91	6.4	36
60	Thermal Methane Conversion to Formaldehyde Promoted by Single Platinum Atoms in PtAl ₂ O ₄ Cluster Anions. <i>Angewandte Chemie</i> , 2014 , 126, 9636-9640	3.6	36
59	Experimental and theoretical study of the reactions between vanadium oxide cluster cations and water. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 2049-54	2.8	36
58	Noble-Metal-Free Single-Atom Catalysts CuAl O for CO Oxidation by O. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10989-10993	16.4	34
57	Methane Activation by Tantalum Carbide Cluster Anions TaC. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 605-610	6.4	33
56	Reactions of metal cluster anions with inorganic and organic molecules in the gas phase. <i>Dalton Transactions</i> , 2016 , 45, 11471-95	4.3	33
55	Electronic structure and reactivity of a biradical cluster: Sc ₃ O ₆ (-). <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10084-90	3.6	32
54	Characterization of mononuclear oxygen-centered radical (O(-*)) in Zr(2)O(8)(-) cluster. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 10024-7	2.8	32
53	Experimental and theoretical study of hydrogen atom abstraction from n-butane by lanthanum oxide cluster anions. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 10245-50	2.8	30
52	Structures and reactivity of oxygen-rich scandium cluster anions ScO(3-5)-. <i>ChemPhysChem</i> , 2012 , 13, 1282-8	3.2	29
51	Methane activation by diatomic molybdenum carbide cations. <i>Chemistry - A European Journal</i> , 2014 , 20, 4163-9	4.8	28
50	Theoretical Investigation of the Selective Oxidation of Methanol to Formaldehyde on Vanadium Oxide Species Supported on Silica: Umbrella Model. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3161-3169	3.8	26
49	Double-oxygen-atom transfer in reactions of Ce(m)O(2m)(+) (m=2-6) with C ₂ H ₂ . <i>ChemPhysChem</i> , 2011 , 12, 2110-7	3.2	25
48	Formation of Acetylene in the Reaction of Methane with Iron Carbide Cluster Anions FeC under High-Temperature Conditions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2662-2666	16.4	24
47	A theoretical study on the mechanism of C(2)H(4) oxidation over a neutral V(3)O(8) cluster. <i>ChemPhysChem</i> , 2010 , 11, 1718-25	3.2	23

46	Experimental and Theoretical Study of Hydrogen Atom Abstraction from C ₂ H ₆ and C ₄ H ₁₀ by Zirconium Oxide Clusters Anions. <i>Chinese Journal of Chemical Physics</i> , 2010 , 23, 133-137	0.9	20
45	Hydrogen Atom Abstraction from CH ₄ by Nanosized Vanadium Oxide Cluster Cations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24062-24071	3.8	19
44	Reactivity of Stoichiometric Lanthanum Oxide Cluster Cations in C-H Bond Activation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17548-17556	3.8	19
43	Classification of V _x O _y Clusters by $V = 2y + q/x$. <i>Chinese Journal of Chemical Physics</i> , 2011 , 24, 586-596	0.9	19
42	Coupling of Methane and Carbon Dioxide Mediated by Diatomic Copper Boride Cations. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14134-14138	16.4	19
41	Does Each Atom Count in the Reactivity of Vanadia Nanoclusters?. <i>Journal of the American Chemical Society</i> , 2017 , 139, 342-347	16.4	18
40	Reactivity of oxygen radical anions bound to scandia nanoparticles in the gas phase: C-H bond activation. <i>Chemistry - A European Journal</i> , 2014 , 20, 1167-75	4.8	18
39	Experimental and Theoretical Study of the Reactions between Vanadium Oxide Cluster Cations and Hydrogen Sulfide. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 9043-9048	3.8	17
38	Photoassisted Selective Steam and Dry Reforming of Methane to Syngas Catalyzed by Rhodium-Vanadium Bimetallic Oxide Cluster Anions at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21216-21223	16.4	16
37	High reactivity of nanosized niobium oxide cluster cations in methane activation: A comparison with vanadium oxides. <i>Journal of Chemical Physics</i> , 2015 , 143, 124312	3.9	15
36	Collision-induced dissociation and infrared photodissociation studies of methane adsorption on V ₅ O ₁₂ (+) and V ₅ O ₁₃ (+) clusters. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2961-70	2.8	15
35	Catalytic Co-Conversion of CH ₄ and CO Mediated by Rhodium-Titanium Oxide Anions RhTiO. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13788-13792	16.4	15
34	Activity of Atomically Precise Titania Nanoparticles in CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8002-8006	16.4	14
33	Thermal activation of methane by vanadium boride cluster cations VB (n = 3-6). <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4641-4645	3.6	13
32	Direct Conversion of Methane with Carbon Dioxide Mediated by RhVO Cluster Anions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17287-17292	16.4	13
31	Experimental and Theoretical Study of Hydrogen Atom Abstraction from Ethylene by Stoichiometric Zirconium Oxide Clusters. <i>Chinese Journal of Chemical Physics</i> , 2009 , 22, 635-641	0.9	13
30	Selective Conversion of Methane by Rh-Doped Aluminum Oxide Cluster Anions RhAlO: A Comparison with the Reactivity of PtAlO. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3950-3955	2.8	12
29	Reactions of Sc ₂ O ₄ and La ₂ O ₄ Clusters with CO: A comparative study. <i>International Journal of Mass Spectrometry</i> , 2013 , 334, 1-7	1.9	12

28	C ⁺ Coupling of Methane Mediated by Atomic Gold Cations under Multiple-Collision Conditions. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020 , 36, 1904026-0	3.8	12
27	Noble-Metal-Free Single-Atom Catalysts CuAl ₄ O ₇ for CO Oxidation by O ₂ . <i>Angewandte Chemie</i> , 2018 , 130, 11155-11159	3.6	11
26	Size-Dependent Reactivity of Rhodium Cluster Anions toward Methane. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17035-17042	3.8	11
25	Direct Conversion of Methane with Carbon Dioxide Mediated by RhVO ₃ Cluster Anions. <i>Angewandte Chemie</i> , 2019 , 131, 17447-17452	3.6	10
24	Activation and Transformation of Ethane by Au ₂ VO ₃ (+) Clusters with Closed-Shell Electronic Structures. <i>Chemistry - A European Journal</i> , 2016 , 22, 1825-30	4.8	9
23	Formation of Acetylene in the Reaction of Methane with Iron Carbide Cluster Anions FeC ₃ under High-Temperature Conditions. <i>Angewandte Chemie</i> , 2018 , 130, 2692-2696	3.6	8
22	Rhodium chemistry: A gas phase cluster study. <i>Journal of Chemical Physics</i> , 2021 , 154, 180901	3.9	7
21	Activity of Atomically Precise Titania Nanoparticles in CO Oxidation. <i>Angewandte Chemie</i> , 2019 , 131, 8086-8090	3.6	6
20	Vacuum Ultraviolet Ionization-Induced Reaction of Neutral Au ₂ Al ₂ O ₃ Clusters with Methane. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6159-6165	3.8	6
19	Coupling of Methane and Carbon Dioxide Mediated by Diatomic Copper Boride Cations. <i>Angewandte Chemie</i> , 2018 , 130, 14330-14334	3.6	6
18	Mechanistic Variants in Methane Activation Mediated by Gold(I) Supported on Silicon Oxide Clusters. <i>Chemistry - A European Journal</i> , 2018 , 24, 17506-17512	4.8	6
17	Formaldehyde Generation in Photooxidation of Isoprene on Iron Oxide Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5120-5127	3.8	5
16	Thermal Activation of Methane by Diatomic Vanadium Boride Cations. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2019 , 35, 1014-1020	3.8	5
15	Photo-Induced Reaction of Ethene Bound to Vanadia Nanoparticles [(V ₂ O ₅) _n OC ₂ H ₄ (n = 2-20)] in the Gas Phase. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17081-17086	3.8	5
14	H Oxidation Mediated by Au-Doped Vanadium Oxide Cluster Cation AuVO: A Comparative Study with AuCeO. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 4069-4075	2.8	4
13	Methane activation by heteronuclear diatomic AuRh cation: comparison with homonuclear Au and Rh. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 6231-6238	3.6	4
12	A breakthrough in direct conversion of methane to oxygenates under mild conditions. <i>Science China Materials</i> , 2018 , 61, 1012-1014	7.1	4
11	Photoassisted Selective Steam and Dry Reforming of Methane to Syngas Catalyzed by Rhodium-Vanadium Bimetallic Oxide Cluster Anions at Room Temperature. <i>Angewandte Chemie</i> , 2020 , 132, 21402-21409	3.6	4

10	Selective Generation of Free Hydrogen Atoms in the Reaction of Methane with Diatomic Gold Boride Cations. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019 , 233, 785-797	3.1	2
9	Conversion of Methane with Oxygen to Produce Hydrogen Catalyzed by Triatomic Rh Cluster Anion.. <i>Jacs Au</i> , 2022 , 2, 197-203		2
8	Photooxidation of Isoprene by Titanium Oxide Cluster Anions with Dimensions up to a Nanosize. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3951-3958	16.4	2
7	Fabrication and optical properties of pyrene-Eu hybrid materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 819-23	1.3	1
6	Inside Cover: Double-Oxygen-Atom Transfer in Reactions of Ce_mO_{2m+} ($m=2-8$) with C_2H_2 (ChemPhysChem 11/2011). <i>ChemPhysChem</i> , 2011 , 12, 2046-2046	3.2	1
5	Gemeinsame katalytische Umsetzung von CH_4 und CO_2 durch Rhodium-Titanoxid-Anionen $RhTiO_2^-$ <i>Angewandte Chemie</i> , 2021 , 133, 13907-13911	3.6	1
4	Study on the Reaction of Nanosized Yttrium Oxide Cluster Anions with n-Butane in the Gas Phase. <i>Acta Chimica Sinica</i> , 2021 , 79, 490	3.3	0
3	Innenrücktitelbild: Activity of Atomically Precise Titania Nanoparticles in CO Oxidation (Angew. Chem. 24/2019). <i>Angewandte Chemie</i> , 2019 , 131, 8327-8327	3.6	
2	Inside Cover: Hydrogen-Atom Abstraction from Methane by Stoichiometric Vanadium-Silicon Heteronuclear Oxide Cluster Cations (Chem. Eur. J. 37/2010). <i>Chemistry - A European Journal</i> , 2010 , 16, 11194-11194	4.8	
1	Conversion of CH Catalyzed by Gas Phase Ions Containing Metals.. <i>Chemistry - A European Journal</i> , 2022 , e202200062	4.8	