Shi Yin

List of Publications by Year
in descending order

35 papers	772 citations	516710 16 h-index	501196 28 g-index
36 all docs	36 docs citations	36 times ranked	570 citing authors

#	Article	IF	Citations
1	Gas phase chemistry of neutral metal clusters: Distribution, reactivity and catalysis. International Journal of Mass Spectrometry, 2012, 321-322, 49-65.	1.5	157
2	Formation, distribution, and structures of oxygen-rich iron and cobalt oxide clusters. International Journal of Mass Spectrometry, 2009, 281, 72-78.	1.5	67
3	Ground State Structures of Fe2O4â^'6+ Clusters Probed by Reactions with N2. Journal of Physical Chemistry A, 2009, 113, 5302-5309.	2.5	47
4	The synergistic effect of street canyons and neighbourhood layout design on pedestrian-level thermal comfort in hot-humid area of China. Sustainable Cities and Society, 2019, 49, 101571.	10.4	37
5	Modelling building energy use at urban scale: A review on their account for the urban environment. Building and Environment, 2021, 205, 108235.	6.9	37
6	Catalytic oxidation of CO by N2O conducted via the neutral oxide cluster couple VO2/VO3. Physical Chemistry Chemical Physics, 2013, 15, 10429.	2.8	35
7	Gas-Phase Neutral Binary Oxide Clusters: Distribution, Structure, and Reactivity toward CO. Journal of Physical Chemistry Letters, 2012, 3, 2415-2419.	4.6	32
8	Formaldehyde and methanol formation from reaction of carbon monoxide and hydrogen on neutral Fe2S2 clusters in the gas phase. Physical Chemistry Chemical Physics, 2013, 15, 4699.	2.8	30
9	Double Câ€“H Bond Activation of Hydrocarbons by a Gas Phase Neutral Oxide Cluster: The Importance of Spin State. Journal of Physical Chemistry A, 2013, 117, 2294-2301.	2.5	27
10	O-atom transport catalysis by neutral manganese oxide clusters in the gas phase: Reactions with CO, C2H4, NO2, and O2. Journal of Chemical Physics, 2013, 139, 084307.	3.0	26
11	Experimental and theoretical studies of H₂O oxidation by neutral Ti₂O_{4,5} clusters under visible light irradiation. Physical Chemistry Chemical Physics, 2014, 16, 13900-13908.	2.8	26
12	Experimental and theoretical studies of ammonia generation: Reactions of H2 with neutral cobalt nitride clusters. Journal of Chemical Physics, 2012, 137, 124304.	3.0	24
13	Generation and reactivity of putative support systems, Ce-Al neutral binary oxide nanoclusters: CO oxidation and Câ€“H bond activation. Journal of Chemical Physics, 2013, 139, 194313.	3.0	22
14	Correlative Impact of Shading Strategies and Configurations Design on Pedestrian-Level Thermal Comfort in Traditional Shophouse Neighbourhoods, Southern China. Sustainability, 2019, 11, 1355.	3.2	22
15	Hydrogenation Reactions of Ethylene on Neutral Vanadium Sulfide Clusters: Experimental and Theoretical Studies. Journal of Physical Chemistry A, 2011, 115, 10266-10275.	2.5	19
16	Comparing cooling efficiency of shading strategies for pedestrian thermal comfort in street canyons of traditional shophouse neighbourhoods in Guangzhou, China. Urban Climate, 2022, 43, 101165.	5.7	18
17	Reaction of Cationic Vanadium Oxide Clusters with Ethylene in a Flow Tube Reactor. Chinese Journal of Chemical Physics, 2007, 20, 412-418.	1.3	16
18	Impacts of Urban Layouts and Open Space on Urban Ventilation Evaluated by Concentration Decay Method. Atmosphere, 2017, 8, 169.	2.3	14

#	Article	IF	Citations
19	Properties of iron sulfide, hydrosulfide, and mixed sulfide/hydrosulfide cluster anions through photoelectron spectroscopy and density functional theory calculations. Journal of Chemical Physics, 2016, 145, 154302.	3.0	13
20	Ethylene Câ€“H Bond Activation by Neutral Mn₂O₅ Clusters under Visible Light Irradiation. Journal of Physical Chemistry Letters, 2016, 7, 1709-1716.	4.6	13
21	Uptake and reaction kinetics of Î±-pinene and Î²-pinene with sulfuric acid solutions. Chemical Physics Letters, 2010, 491, 146-150.	2.6	11
22	Photoelectron Spectroscopy and Density Functional Theory Studies of Iron Sulfur (FeS)mâ€“(m= 2â€“8) Cluster Anions: Coexisting Multiple Spin States. Journal of Physical Chemistry A, 2017, 121, 7362-7373.	2.5	11
23	Experimental and theoretical studies of the reaction between cationic vanadium oxide clusters and acetylene. Science Bulletin, 2008, 53, 3829-3838.	9.0	10
24	The uptake of 2-methyl-3-buten-2-ol into aqueous mixed solutions of sulfuric acid and hydrogen peroxide. Physical Chemistry Chemical Physics, 2011, 13, 2069.	2.8	10
25	Uptake of gas-phase alkylamines by sulfuric acid. Science Bulletin, 2011, 56, 1241-1245.	1.7	10
26	Reaction between sulfur dioxide and iron oxide cationic clusters. Science Bulletin, 2009, 54, 4017-4020.	1.7	7
27	Scale Study of Traditional Shophouse Street in South of China Based on Outdoor Thermal Comfort. Procedia Engineering, 2016, 169, 232-239.	1.2	6
28	Photoelectron spectroscopy and density functional theory studies of (FeS)mHâ¯(m= 2â€“4) cluster anions: effects of the single hydrogen. Physical Chemistry Chemical Physics, 2018, 20, 367-382.	2.8	6
29	Comparison results of eight oxygenated organic molecules: Unexpected contribution to new particle formation in the atmosphere. Atmospheric Environment, 2022, 268, 118817.	4.1	5
30	Study on the atmospheric photochemical reaction of CF3 radicals using ultraviolet photoelectron and photoionization mass spectrometer. Science in China Series B: Chemistry, 2008, 51, 316-321.	0.8	4
31	Feâ€“V sulfur clusters studied through photoelectron spectroscopy and density functional theory. Physical Chemistry Chemical Physics, 2018, 20, 22610-22622.	2.8	4
32	The uptake of ethyl iodide on black carbon surface. Science Bulletin, 2008, 53, 733-738.	1.7	3
33	Heterogeneous chemistry of dimethyl sulfide on soot surfaces. Chemical Physics Letters, 2008, 453, 296-300.	2.6	3
34	Gasâ€Phase Generation and Electronic Structure Investigation of Oxidovanadium Triisocyanate, OV(NCO)₃. European Journal of Inorganic Chemistry, 2008, 2008, 1518-1522.	2.0	0
35	A HeI photoelectron spectroscopy and theoretical study of 2,6-dichloropyrazine, 2,3-dichloropyrazine, 4,6-dichloropyrimidine and 3,6-dichloropyridazine. Journal of Molecular Structure, 2008, 872, 24-29.	3.6	0