Ju Xie

List of Publications by Year
in descending order

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61	966	516215 16	525886 27
papers	citations	h-index	g-index

61	61	61	1013
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-Assembled Polyoxometalate Nanodots as Bidirectional Cluster Catalysts for Polysulfide/Sulfide Redox Conversion in Lithiumâ€“Sulfur Batteries. ACS Nano, 2021, 15, 12222-12236.	7.3	77
2	Controllable Supramolecular Chiral Twisted Nanoribbons from Achiral Conjugated Oligoaniline Derivatives. Journal of the American Chemical Society, 2018, 140, 9417-9425.	6.6	62
3	Theoretical insight into the degradation of p-nitrophenol by OH radicals synergized with other active oxidants in aqueous solution. Journal of Hazardous Materials, 2020, 389, 121901.	6.5	62
4	Embedding Cobalt Atom Clusters in CNTâ€Wired MoS₂ Tubeâ€inâ€Tube Nanostructures with Enhanced Sulfur Immobilization and Catalyzation for Liâ€“S Batteries. Small, 2021, 17, e2102710.	5.2	52
5	Formation of a series of stable pillar[5]arene-based pseudo[1]-rotaxanes and their [1]rotaxanes in the crystal state. Scientific Reports, 2016, 6, 28748.	1.6	40
6	Self-Assembled Supramolecular Polyoxometalate Hybrid Architecture as a Multifunctional Oxidation Catalyst. ACS Applied Materials & Interfaces, 2019, 11, 38708-38718.	4.0	38
7	Development of the Visibleâ€Light Response of CeO_{2â^'x} with a high Ce³⁺ Content and Its Photocatalytic Properties. ChemCatChem, 2018, 10, 1267-1271.	1.8	37
8	A new precursor to synthesize g-C₃N₄ with superior visible light absorption for photocatalytic application. Catalysis Science and Technology, 2017, 7, 1826-1830.	2.1	35
9	The roles of HOâ€¢, ClOâ€¢ and BrOâ€¢ radicals in caffeine degradation: A theoretical study. Science of the Total Environment, 2021, 768, 144733.	3.9	31
10	Gaseous and heterogeneous reactions of low-molecular-weight (LMW) unsaturated ketones with O3: Mechanisms, kinetics, and effects of mineral dust in tropospheric chemical processes. Chemical Engineering Journal, 2020, 395, 125083.	6.6	27
11	Molecular diversity of the three-component reaction of Î±-amino acids, dialkyl acetylenedicarboxylates and N-substituted maleimides. Organic and Biomolecular Chemistry, 2016, 14, 6497-6507.	1.5	25
12	Specific binding and inhibition of 6-benzylaminopurine to catalase: Multiple spectroscopic methods combined with molecular docking study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 123, 327-335.	2.0	23
13	Full insights into the roles of pH on hydroxylation of aromatic acids/bases and toxicity evaluation. Water Research, 2021, 190, 116689.	5.3	22
14	Ozonation of diclofenac in the aqueous solution: Mechanism, kinetics and ecotoxicity assessment. Environmental Research, 2020, 188, 109713.	3.7	19
15	Water determines the products: an unexpected BrÃ¸nsted acid-catalyzed POâ€“R cleavage of P(<scp>iii</scp>) esters selectively producing P(O)â€“H and P(O)â€“R compounds. Green Chemistry, 2019, 21, 2916-2922.	4.6	18
16	Pillar[5]arene-based [3]rotaxanes: Convenient construction via multicomponent reaction and pH responsive self-assembly in water. Chinese Chemical Letters, 2020, 31, 1550-1553.	4.8	18
17	Theoretical investigation on the contribution of HO , SO4- and CO3- radicals to the degradation of phenacetin in water: Mechanisms, kinetics, and toxicity evaluation. Ecotoxicology and Environmental Safety, 2020, 204, 110977.	2.9	18
18	Highly Efficient Dehydrogenation of 2,3-Butanediol Induced by Metalâ€“Support Interface over Cu-SiO₂ Catalysts. ACS Sustainable Chemistry and Engineering, 2020, 8, 15716-15731.	3.2	18

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19	Composite polymerized molecular imprinting membrane-based electrochemical sensor for sensitive determination of curcumin by using 4-pentenoyl-aminoacyl-chitosan oligosaccharide as functional monomer oligomer. Journal of Electroanalytical Chemistry, 2020, 879, 114793.	1.9	18
20	Computational electrochemistry of Pillar[5]quinone cathode material for lithium-ion batteries. Computational Materials Science, 2017, 137, 233-242.	1.4	17
21	Highly Selective and Efficient Reduction of CO₂ to Methane by Activated Alkaline Earth Metal Hydrides without a Catalyst. ACS Sustainable Chemistry and Engineering, 2019, 7, 4831-4841.	3.2	17
22	Acetaminophen degradation by hydroxyl and organic radicals in the peracetic acid-based advanced oxidation processes: Theoretical calculation and toxicity assessment. Journal of Hazardous Materials, 2021, 416, 126250.	6.5	17
23	Effect of pH on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:mo linebreak="goodbreak" linebreakstyle="after">Â·</mml:mo><mml:mi>O</mml:mi><mml:mi>H</mml:mi></mml:mrow></mml:math>-induced degradation progress of syringol/syringaldehyde and health effect. Chemosphere, 2020, 255, 126893.	4.2	15
24	Bimetallic sulfide Co8FeS8/Nâ€“C dodecahedral nanocages via cation exchange as counter electrode for dye-sensitized solar cells. Journal of Alloys and Compounds, 2020, 829, 154526.	2.8	15
25	Degradation of prosulfocarb by hydroxyl radicals in gas and aqueous phase: Mechanisms, kinetics and toxicity. Ecotoxicology and Environmental Safety, 2020, 191, 110175.	2.9	15
26	Theoretical investigation of pillar[4]quinone as a cathode active material for lithium-ion batteries. Journal of Molecular Modeling, 2017, 23, 105.	0.8	14
27	Inorganicâ€“organic hybrid supramolecular architectures based on Keggin polyoxometalates and crown ether: synthesis, crystal structure and electrochemical properties. CrystEngComm, 2021, 23, 8482-8489.	1.3	14
28	Electroic and optical properties of germanene/MoS2 heterobilayers: first principles study. Journal of Molecular Modeling, 2018, 24, 333.	0.8	12
29	Construction of Polyfunctionalized 2,4-Dioxa-8-azaspiro[5.5]undec-9-enes and 2,4,8-Triazaspiro[5.5]undec-9-enes via a Domino [2+2+2] Cycloaddition Reaction. Journal of Organic Chemistry, 2021, 86, 1827-1842.	1.7	12
30	Theoretical study of solvent effects on the structures and isomerization of silylenoid H2SiLiF. Structural Chemistry, 2007, 18, 65-70.	1.0	11
31	Mechanisms and Kinetic Parameters for the Gas-Phase Reactions of 3-Methyl-3-buten-2-one and 3-Methyl-3-penten-2-one with Ozone. Journal of Physical Chemistry A, 2019, 123, 2745-2755.	1.1	11
32	Density functional theory study of selective aerobic oxidation of cyclohexane: the roles of acetic acid and cobalt ion. Journal of Molecular Modeling, 2019, 25, 71.	0.8	11
33	Heteroatom-bridged pillar[4]quinone: evolutionary active cathode material for lithium-ion battery using density functional theory. Journal of Chemical Sciences, 2021, 133, 1.	0.7	11
34	Ionic S_Niâ€Si Nucleophilic Substitution in Nâ€Methylanilineâ€Induced Siâ€“Si Bond Cleavages of Si₂Cl₆. Chemistry - A European Journal, 2016, 22, 5010-5016.	1.7	10
35	Theoretical study of a novel imino bridged pillar[5]arene derivative. Chemical Physics Letters, 2016, 662, 25-30.	1.2	10
36	New cytotoxic trichothecene macrolide epimers from endophytic Myrothecium roridum IFB-E012. Journal of Antibiotics, 2016, 69, 652-655.	1.0	10

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37	Theoretical study on host-guest interaction between pillar[4]arene and molecules or ions. Journal of Molecular Modeling, 2018, 24, 199.	0.8	10
38	Theoretical prediction of structures and inclusion properties of heteroatom-bridged pillar[n]arenes. Structural Chemistry, 2020, 31, 329-337.	1.0	9
39	Reactivity of aromatic contaminants towards nitrate radical in tropospheric gas and aqueous phase. Journal of Hazardous Materials, 2021, 401, 123396.	6.5	9
40	Ozonolysis of Permethrin in the Atmosphere: Mechanism, Kinetics, and Evaluation of Toxicity. Journal of Physical Chemistry A, 2021, 125, 7705-7715.	1.1	9
41	Unravelling the effects of complexation of transition metal ions on the hydroxylation of catechol over the whole pH region. Journal of Environmental Sciences, 2022, 115, 392-402.	3.2	7
42	Template-assisted synthesis of LiNi0.8Co0.15Al0.05O2 hollow nanospheres as cathode material for lithium ion batteries. Journal of Materials Science, 2020, 55, 9493-9503.	1.7	6
43	Degradation mechanisms, kinetics and eco-toxicity assessment of 2,4-Dinitrophenol by oxygen-containing free radicals in aqueous solution. Molecular Physics, 2021, 119, e1886365.	0.8	6
44	[Mo₃S₁₃]^{2â^'}as bidirectional cluster catalysts for high-performance Liâ€“S batteries. Catalysis Science and Technology, 2022, 12, 3431-3435.	2.1	6
45	4-Pentenoyl-isoleucyl-chitosan oligosaccharide and acrylamide functional monomer-dependent hybrid bilayer molecularly imprinted membrane for sensitive electrochemical sensing of bisphenol A. RSC Advances, 2021, 11, 36769-36776.	1.7	5
46	Computational simulation study on the anion recognition properties of functionalized tetraphenyl porphyrins. Journal of Molecular Modeling, 2015, 21, 140.	0.8	4
47	Bidirectional heterostructures consisting of graphene and lateral MoS₂/WS₂ composites: a first-principles study. RSC Advances, 2019, 9, 34986-34994.	1.7	4
48	Atmospheric ozonolysis of crotonaldehyde in the absence and presence of hydroxylated silica oligomer cluster adsorption. Chemosphere, 2021, 281, 130996.	4.2	4
49	Theoretical study on halide anion recognitions by pyrrole- and benzene-strapped calix[4]pyrroles. Computational and Theoretical Chemistry, 2013, 1007, 1-8.	1.1	3
50	Theoretical Study of Ozonation of Methylparaben and Ethylparaben in Aqueous Solution. Journal of Physical Chemistry A, 2020, 124, 10967-10976.	1.1	3
51	Adsorption of [<scp>BF₄</scp>]^{â^'} anionâ€based ionic liquids on phosphorene, arsenene, and antimonene: A density functional theory study. International Journal of Quantum Chemistry, 2021, 121, e26668.	1.0	3
52	Theoretical insights into the degradation of swep by hydroxyl radicals in atmosphere and water environment: Mechanisms, kinetics and toxicity. Science of the Total Environment, 2022, 816, 151651.	3.9	3
53	Cycloaddition reactions of N-heterocyclic stable silylenes with ethylene andÂformaldehyde. Journal of Organometallic Chemistry, 2011, 696, 841-845.	0.8	2
54	Theoretical study on ion-pair recognition of M+X- (M = Li, Na, K and X = F, Cl, Br) by formylaminocalix[4]arene derivatives. Journal of Molecular Modeling, 2012, 18, 4985-4993.	0.8	2

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55	Theoretical study on the ionâ€“pair recognition of Na+/Xâˆ’Â(XÂ=ÂFâˆ’Â, Clâˆ’Â, Brâˆ’Â) by urea calix[4]bis crown-3 derivative. Molecular Simulation, 2013, 39, 621-628.	0.9	2
56	Cyclodimerization of 3-phenacylideneoxindolines with amino esters for the synthesis of dispiro[indoline-3,1â€²-cyclopentane-3â€²,3â€³-indolines]. Heterocyclic Communications, 2017, 23, 297-303.	0.6	2
57	Solubility of Acetoguanamine in Twelve Neat Solvents from 283.15 to 323.15 K. Journal of Chemical & Engineering Data, 2019, 64, 4546-4550.	1.0	2
58	Theoretical study on a kind of cyclization mechanism of boron trichloride and hexamethyldisilazane to form the borazine ring for SiBCN ceramics precursor. Ceramics International, 2021, 47, 6068-6076.	2.3	2
59	Theoretical prediction on photoelectric and supramolecular properties of benzoquinone-tetrathiafulvalene macrocyclic molecules. Journal of Molecular Modeling, 2021, 27, 157.	0.8	1
60	H-bond catalytic mechanism of aromatic electrophilic substitution between phenol and formaldehyde. Tetrahedron, 2020, 76, 131055.	1.0	0
61	Theoretical Study on the Mechanism of the Initial Ammonolysis Reactions of the Main Raw Materials for the Formation of SiBCN Ceramics. ChemistrySelect, 2021, 6, 12233-12245.	0.7	0