

Jianfeng Jia

List of Publications by Year in descending order

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82
papers

1,824
citations

331670

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h-index

302126

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82
docs citations

82
times ranked

2241
citing authors

#	ARTICLE	IF	CITATIONS
1	Viable Photocatalysts under Solar Spectrum Irradiation: Nonplasmonic Metal Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2935-2940.	13.8	234
2	Efficient photocatalytic Suzuki cross-coupling reactions on Au-Pd alloy nanoparticles under visible light irradiation. <i>Green Chemistry</i> , 2014, 16, 4272.	9.0	213
3	Oxygen Vacancy-Mediated Selective C-N Coupling toward Electrocatalytic Urea Synthesis. <i>Journal of the American Chemical Society</i> , 2022, 144, 11530-11535.	13.7	142
4	Facile synthesis of PdO-doped Co ₃ O ₄ nanoparticles as an efficient bifunctional oxygen electrocatalyst. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 175-182.	20.2	88
5	Electrochemical cathode exfoliation of bulky black phosphorus into few-layer phosphorene nanosheets. <i>Electrochemistry Communications</i> , 2018, 89, 10-13.	4.7	81
6	Facile <i>in situ</i> synthesis of a carbon quantum dot/graphene heterostructure as an efficient metal-free electrocatalyst for overall water splitting. <i>Chemical Communications</i> , 2019, 55, 1635-1638.	4.1	70
7	Fused Five-Membered Rings Determine the Stability of C ₆₀ F ₆₀ . <i>Journal of the American Chemical Society</i> , 2008, 130, 3985-3988.	13.7	39
8	Ti-2-(C ₂ H ₂) and HC-TiH as high capacity hydrogen storage media. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16185-16192.	7.1	37
9	In-situ synthesis of palladium-base binary metal oxide nanoparticles with enhanced electrocatalytic activity for ethylene glycol and glycerol oxidation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 25951-25959.	7.1	33
10	Shape-control of super-branched Pd-Cu alloys with enhanced electrocatalytic performance for ethylene glycol oxidation. <i>Chemical Communications</i> , 2018, 54, 13363-13366.	4.1	33
11	Electric field-assisted synthesis of Pt, carbon quantum dots-co-loaded graphene hybrid for hydrogen evolution reaction. <i>Journal of Power Sources</i> , 2020, 451, 227770.	7.8	32
12	Fe ₃ O ₄ nanospheres decorated reduced graphene oxide as anode to promote extracellular electron transfer efficiency and power density in microbial fuel cells. <i>Electrochimica Acta</i> , 2020, 362, 137126.	5.2	30
13	Computational investigation of hydrogen storage on scandium-acetylene system. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 420-428.	7.1	29
14	Defect Engineering in Pd/NiCo ₂ O ₄ for Selective Hydrogenation of α,β -Unsaturated Carbonyl Compounds under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7851-7859.	6.7	29
15	A label-free electrochemical aptasensor based on the core-shell Cu-MOF@TpBD hybrid nanoarchitecture for the sensitive detection of PDGF-BB. <i>Analyst</i> , 2021, 146, 979-988.	3.5	28
16	Facile electrolytic synthesis of Pt and carbon quantum dots co-loaded multiwall carbon nanotube as highly efficient electrocatalyst for hydrogen evolution and ethanol oxidation. <i>Chemical Engineering Journal</i> , 2021, 408, 127271.	12.7	27
17	Structures and stabilities of ScBn (n=1-12) clusters: an ab initio investigation. <i>Journal of Molecular Modeling</i> , 2013, 19, 3255-3261.	1.8	26
18	Elucidation of the Forces Governing the Stereochemistry of Biphenyl. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 611-616.	2.4	26

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19	A comparative study of electrocatalytic oxidation of glucose on conductive Ni-MOF nanosheet arrays with different ligands. <i>New Journal of Chemistry</i> , 2020, 44, 17849-17853.	2.8	26
20	Solvothermal synthesis of oxygen-incorporated MoS _{2-x} nanosheets with abundant undercoordinated Mo for efficient hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19133-19143.	7.1	24
21	Sc/Ti decorated novel C ₂₄ N ₂₄ cage: Promising hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 7390-7401.	7.1	23
22	Adsorption of multiple H ₂ molecules on the complex TiC ₆ H ₆ : An unusual combination of chemisorption and physisorption. <i>Energy</i> , 2019, 171, 315-325.	8.8	22
23	Hydroxyl-group-modified polymeric carbon nitride with the highly selective hydrogenation of nitrobenzene to <i>N</i> -phenylhydroxylamine under visible light. <i>Green Chemistry</i> , 2021, 23, 3612-3622.	9.0	22
24	Structural dependence of electrosynthesized cobalt phosphide/black phosphorus pre-catalyst for oxygen evolution in alkaline media. <i>Nanoscale</i> , 2021, 13, 7381-7388.	5.6	21
25	Tailoring phenol photomineralization pathway over polymeric carbon nitride with cyano group multifunctional active sites. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119710.	20.2	21
26	Density functional theory investigation on the structure and stability of Sc ₂ B (n= 1-10) clusters. <i>Computational and Theoretical Chemistry</i> , 2014, 1027, 128-134.	2.5	20
27	Hydrogenated graphene as support of Pd nanoparticles with improved electrocatalytic activity for ethanol oxidation reaction in alkaline media. <i>Electrochimica Acta</i> , 2019, 297, 856-863.	5.2	19
28	Ni ₂ P Nanosheets: A High Catalytic Activity Platform for Electrochemical Detection of Acetaminophen. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1849-1854.	4.9	18
29	Porous carbon-coated Li ₂ MoO ₄ as high-performance anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2018, 233, 302-305.	2.6	17
30	Computational investigation of hydrogen adsorption/desorption on Zr ₂ (C ₂ H ₂) and its ion. <i>Chemical Physics</i> , 2015, 457, 57-62.	1.9	16
31	Oligomerization of Vanadium-acetylene systems and its effect on hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14188-14198.	7.1	16
32	Facile preparation of polyelectrolyte-functionalized reduced graphene oxide for significantly improving the performance of microbial fuel cells. <i>Journal of Power Sources</i> , 2020, 450, 227628.	7.8	16
33	An insight into the structures, stabilities and magnetic properties of Fe ₂ Bn (n=1-10) clusters. <i>Materials Chemistry and Physics</i> , 2018, 205, 1-8.	4.0	15
34	O ₂ activation and CO oxidation on n-p codoped h-BN single-atom catalysts. <i>Computational and Theoretical Chemistry</i> , 2018, 1127, 31-36.	2.5	14
35	Pd Nanoparticles Coupled to NiMoO ₄ C Nanorods for Enhanced Electrocatalytic Ethanol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53777-53786.	8.0	14
36	Structural and electronic properties of V ₂ Bn (n=1-10) clusters. <i>Chemical Physics</i> , 2015, 459, 131-136.	1.9	13

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37	Tube and Cage C ₆₀ H ₆₀ : A Comparison with C ₆₀ F ₆₀ . <i>Organic Letters</i> , 2008, 10, 2573-2576.	4.6	12
38	Light-assisted <i>O</i> -methylation of phenol with dimethyl carbonate over a layered double oxide catalyst. <i>Catalysis Science and Technology</i> , 2019, 9, 1774-1778.	4.1	12
39	Highly sensitive and selective dopamine sensor uses three-dimensional cobalt phosphide nanowire array. <i>Journal of Materials Science</i> , 2021, 56, 6401-6410.	3.7	12
40	Electrosynthesized CuO _x /graphene by a four-electrode electrolysis system for the oxygen reduction reaction to hydrogen peroxide. <i>Chemical Communications</i> , 2021, 57, 4118-4121.	4.1	12
41	Facile in-situ electrochemical fabrication of highly efficient nickel hydroxide-iron hydroxide/graphene hybrid for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 12547-12558.	7.1	12
42	A novel K ₂ Ti ₈ O ₁₇ nanorod photocatalyst rich in surface OH groups for efficient hydrogen production by water splitting. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18115-18124.	7.1	11
43	Cooperative physisorption and chemisorption of hydrogen on vanadium-decorated benzene. <i>RSC Advances</i> , 2020, 10, 37770-37778.	3.6	11
44	Molten salt synthesis of hexagonal tungsten trioxide nanoparticles for lithium-ion battery anode. <i>Materials Letters</i> , 2018, 233, 199-202.	2.6	10
45	Theoretical studies of COOH group effect on the performance of rhenium (I) tricarbonyl complexes with bispyridine sulfur-rich core ligand as dyes in DSSC. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	1.4	9
46	Effect of COOH group on the performance of rhenium (I) tricarbonyl complexes with tetrathiafulvalene-fused phenanthroline ligands as dyes in DSSC: DFT/TD-DFT theoretical investigations. <i>Structural Chemistry</i> , 2015, 26, 421-430.	2.0	9
47	Density functional theory study of the interaction of hydrogen with TMC ₂ H ₂ (TM=Sc-Ni). <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29384-29393.	7.1	9
48	Investigation of hydrogen storage on Sc/Ti-decorated novel B ₂₄ N ₂₄ . <i>International Journal of Hydrogen Energy</i> , 2020, 45, 33740-33750.	7.1	9
49	Structure and Stability of TiB _n (<i>n</i> = 11, 12) Clusters: An <i>ab initio</i> Investigation. <i>Acta Chimica Sinica</i> , 2012, 70, 1643.	1.4	9
50	Molecular and dissociated adsorption of hydrogen on TiC ₆ H ₆ . <i>International Journal of Hydrogen Energy</i> , 2019, 44, 25800-25808.	7.1	8
51	Linear complex HC C-TMH (TM=Sc-Ni): A simple and efficient adsorbent for hydrogen molecules. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18145-18152.	7.1	8
52	A Sensitive Electrochemical MUC1 Sensing Platform Based on Electroactive Cu-MOFs Decorated by AuPt Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2020, 167, 087502.	2.9	8
53	Electronic structure, stability and magnetic properties of small M ₁₂ Cr (M = Fe, Co, and Ni) alloy encapsulated inside a (BN) ₄₈ cage. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 1715-1721.	2.1	7
54	Li ₄ Mo ₅ O ₁₇ micron particles as new high-performance anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2021, 305, 130803.	2.6	7

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55	Amorphous NiCo ₂ O ₄ decorated Pd/C as electrocatalysts for boosting ethanol oxidation reaction in alkaline media. <i>Electrochimica Acta</i> , 2022, 411, 140048.	5.2	7
56	Immobilization of bismuth oxychloride on cellulose nanocrystal for sunlight-driven superior photosensitized degradation. <i>International Journal of Biological Macromolecules</i> , 2022, 206, 398-408.	7.5	7
57	Au _n (n = 1–16) clusters on the ZrO ₂ (111) surface: a DFT+U investigation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30491-30497.	2.8	6
58	Design and selection of triazole-based compounds with high energetic properties and stabilities. <i>Journal of Chemical Sciences</i> , 2016, 128, 1223-1236.	1.5	6
59	Mechanistic investigation of palladium-catalyzed amidation of aryl halides. <i>Journal of Molecular Modeling</i> , 2016, 22, 53.	1.8	6
60	Geometries, stabilities, and magnetic properties of Co ₂ Bn (n = 1–10) clusters. <i>Journal of Molecular Modeling</i> , 2019, 25, 27.	1.8	6
61	The Adsorption Behavior of Gas Molecules on Co/N Doped Graphene. <i>Molecules</i> , 2021, 26, 7700.	3.8	6
62	Adsorption Characteristics of Gas Molecules Adsorbed on Graphene Doped with Mn: A First Principle Study. <i>Molecules</i> , 2022, 27, 2315.	3.8	6
63	Structure and stability of boron nitride cages. <i>Science Bulletin</i> , 2003, 48, 1102-1107.	1.7	5
64	Boron-/Fe-codoped graphene as high-activity single-atom catalyst. <i>Theoretical Chemistry Accounts</i> , 2017, 136, 1.	1.4	5
65	Defining the optimal morphology of Rh _n nanoparticles for efficient hydrazine adsorption: a DFT-D3 study. <i>Journal of Materials Science</i> , 2019, 54, 9533-9542.	3.7	5
66	Multicenter electron-sharing δ -bonding in the AgFe(CO) ₄ ⁺ complex. <i>Dalton Transactions</i> , 2020, 49, 15256-15266.	3.3	5
67	Structure and Stability of Tube and Cage Ge ₆₀ H ₆₀ . <i>Journal of Physical Chemistry A</i> , 2010, 114, 12755-12758.	2.5	4
68	O ₂ adsorbed on Pt _n clusters: Structure and optical absorption. <i>AIP Advances</i> , 2018, 8, 035307.	1.3	4
69	The structures, stabilities and electronic properties of Pd _n B (n = 1–10) clusters. <i>Computational and Theoretical Chemistry</i> , 2019, 1164, 112554.	2.5	4
70	The effect of interstitial boron on the mechanisms of acetylene hydrogenation catalyzed by Pd ₆ : A DFT study. <i>Computational and Theoretical Chemistry</i> , 2019, 1170, 112636.	2.5	4
71	Thermodynamics and Kinetics of Gas-Phase CO Oxidation on the Scandium Monoxide Carbonyl Complexes. <i>Journal of Physical Chemistry A</i> , 2020, 124, 924-931.	2.5	4
72	Electronic structure, stability and magnetic properties of small M _{1–4} (M = Fe, Co, Ni) clusters encapsulated inside a (BN) ₄₈ cage. <i>Chemical Physics Letters</i> , 2015, 622, 57-62.	2.6	3

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73	High pressure behavior of crystal [2,2-bis(1,3,4-oxadiazole)]-5-dinitramide: A DFT investigation. Journal of Molecular Graphics and Modelling, 2019, 90, 87-93.	2.4	3
74	Theoretical Insights on the High Pressure Behavior of Pentazolate Anion Complex [Co(H ₂ O) ₄ (N ₅) ₂] \cdot 4H ₂ O. Scientific Reports, 2019, 9, 15648.	3.3	3
75	The optimal adsorption pathway of H ₂ molecules on Ti-Acetylene/ ethylene compounds: A DFT study. International Journal of Hydrogen Energy, 2020, 45, 2105-2118.	7.1	3
76	Triply Carbonyl-Bridged Ni ₂ (CO) ₅ Featuring Triple Three-Center Two-Electron Ni \equiv Ni Bonds Instead of Ni \equiv Ni Triple Bond. Inorganic Chemistry, 2020, 59, 15365-15374.	4.0	3
77	Carbon-coated BiVO ₄ prepared by molten salt method combined with ball milling for high-performance lithium-ion battery anode. Ionics, 2022, 28, 689-696.	2.4	3
78	Density functional theory study of Mo-doped M@ (BN) ₄₈ (M = Sc, Ti, V, Cr, Mn, Fe, Co, Ni, and Cu) clusters. Journal of Molecular Structure, 2016, 1108, 92-95.	3.6	2
79	The Investigation of Adsorption Behavior of Gas Molecules on FeN ₃ -Doped Graphene. Journal of Sensors, 2022, 2022, 1-8.	1.1	2
80	Computational studies on the injection, transport, absorption, and phosphorescence properties of a series of cationic iridium (III) complexes [Ir(C ⁺ N) ₂ (L) ₂] ⁺ (C ⁺ N = ppy,) Tj 2020 0 0 rgBT /Ove	2.0	2
81	Dative versus electron-sharing bonding in the isoelectronic argon compounds ArR ⁺ (R = CH ₃ , NH ₂ , OH, and F). New Journal of Chemistry, 2021, 45, 1363-1372.	2.8	1
82	Photoelectron velocity-map imaging spectroscopy of nickel carbide: Examination of the low-lying electronic states. New Journal of Chemistry, 0, , .	2.8	1