Qingguo Feng

List of Publications by Year in descending order

50 papers	1,891 citations	471509 17 h-index	265206 42 g-index
50 all docs	50 docs citations	50 times ranked	1913 citing authors

#	Article	IF	Citations
1	Design, fabrication, microstructure, and properties of highly porous alumina whisker foam ceramic. Ceramics International, 2022, 48, 2776-2781.	4.8	20
2	Ablation mechanisms of Ti3SiC2 ceramic at 1600 Â°C in nitrogen plasma flame. Ceramics International, 2022, 48, 14004-14013.	4.8	5
3	Rapidly synthesizing Hf2SB ceramics by thermal explosion. Journal of the European Ceramic Society, 2022, 42, 3780-3786.	5.7	10
4	Investigation of double perovskites Sr2SmNbO6 and X2CoNbO6 (X=Sr,Ba) with SCAN functional and plus U correction. , 2022, 1, 100019.		9
5	Synthesis and property characterization of ternary laminar Zr2SB ceramic. Journal of Advanced Ceramics, 2022, 11, 825-833.	17.4	20
6	Preparations and Applications of MXeneâ€“Metal Composites: A Review. Coatings, 2022, 12, 516.	2.6	14
7	Quasi-solid-state Zn-air batteries with an atomically dispersed cobalt electrocatalyst and organohydrogel electrolyte. Nature Communications, 2022, 13, .	12.8	127
8	A magnetically controllable metastable LiSeHFeO isomer: an ab-initio investigation from bulk to film. Journal of Materials Science, 2021, 56, 1461-1471.	3.7	5
9	Boosting interfacial charge transfer for alkaline hydrogen evolution via rational interior Se modification. Nano Energy, 2021, 81, 105641.	16.0	118
10	Electronic, optical properties and stress-driven modulation of monolayer MNb3O8 (Mâ€¯=â€¯H,Li,Na,K): An ab-initio investigation. Materials Today Communications, 2021, 26, 101867.	1.9	2
11	Synthesis of Î¸-Al2O3 Whiskers with Twins. Metals, 2021, 11, 895.	2.3	0
12	Comparative investigation of ultrafast thermal shock of Ti₃AlC₂ ceramic in water and air. International Journal of Applied Ceramic Technology, 2021, 18, 1863-1871.	2.1	9
13	Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. Journal of Chemical Physics, 2021, 155, 084801.	3.0	518
14	Behavior of intrinsic defects in BaF2 under uniaxial compressions: An ab initio investigation. Materials Today Communications, 2021, 28, 102730.	1.9	5
15	Ablation behavior and mechanism of bulk MoAlB ceramic at â¼1670â€“2550 Â°C in air plasma flame. Journal of the European Ceramic Society, 2021, 41, 5474-5483.	5.7	18
16	Synthesis and characterization of ternary layered Nb2SB ceramics fabricated by spark plasma sintering. Journal of Alloys and Compounds, 2021, 878, 160344.	5.5	25
17	Thickness-dependent ultrafast hot carrier and phonon dynamics of PtSe₂ films measured with femtosecond transient optical spectroscopy. Journal Physics D: Applied Physics, 2021, 54, 075102.	2.8	10
18	First principles investigation of electron correlation and Lifshitz transition within iron polynitrides. Journal of Physics Condensed Matter, 2021, 33, 035603.	1.8	9

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19	Fabrication, Microstructure, and Properties of In Situ V2C-Reinforced Copper Composites. Metals, 2021, 11, 1829.	2.3	3
20	Field controllable electronic properties of MnPSe3/WS2 heterojunction for photocatalysis. Journal of Central South University, 2021, 28, 3728-3736.	3.0	11
21	Regulating the coordination structure of metal single atoms for efficient electrocatalytic CO₂ reduction. Energy and Environmental Science, 2020, 13, 4609-4624.	30.8	188
22	Accelerating charge transfer to enhance H₂ evolution of defect-rich CoFe₂O₄ by constructing a Schottky junction. Chemical Communications, 2020, 56, 14019-14022.	4.1	34
23	Electronic, magnetic and optical properties of transition-metal and hydroxides doped monolayer g-C₃N₄: a first principles investigation. Journal of Physics Condensed Matter, 2020, 32, 445602.	1.8	8
24	Rational designed Co@N-doped carbon catalyst for high-efficient H2S selective oxidation by regulating electronic structures. Chemical Engineering Journal, 2020, 401, 126038.	12.7	43
25	Stressâ€Driven Phase Transitions of SrI₂: A Firstâ€Principles Investigation. Physica Status Solidi (B): Basic Research, 2020, 257, 1900726.	1.5	13
26	Electron correlation effect versus spinâ€“orbit coupling for tungsten and impurities. Journal of Physics Condensed Matter, 2020, 32, 445603.	1.8	7
27	Structural engineering of bilayer PtSe₂ thin films: a first-principles study. Journal of Physics Condensed Matter, 2019, 31, 455001.	1.8	16
28	Enhanced Selective H₂S Oxidation Performance on Mo₂C-Modified g-C₃N₄. ACS Sustainable Chemistry and Engineering, 2019, 7, 16257-16263.	6.7	39
29	The functionality of surface hydroxyls on selective CH₄ generation from photoreduction of CO₂ over SiC nanosheets. Chemical Communications, 2019, 55, 1572-1575.	4.1	19
30	Tunable electronic properties of monolayer MnPSe₃/MoTe₂ heterostructure: a first principles study. Journal of Physics Condensed Matter, 2019, 31, 405705.	1.8	13
31	Charge Engineering of Mo2C@Defect-Rich N-Doped Carbon Nanosheets for Efficient Electrocatalytic H2 Evolution. Nano-Micro Letters, 2019, 11, 45.	27.0	86
32	Comparative study of perovskite-type scintillator materials CsCaI₃ and KCaI₃ via first-principles calculations. Journal Physics D: Applied Physics, 2018, 51, 065303.	2.8	18
33	Hydrogen abstraction by NO2 from asymmetric methyl ethers: A theoretical investigation. Chemical Physics Letters, 2018, 710, 133-142.	2.6	2
34	Theoretical Investigation on Hydrogen Abstraction by NO₂ from Symmetric Ethers (CH₃)_{2x}O (x = 1â€“4). Journal of Physical Chemistry A, 2018, 122, 6829-6841.	2.5	10
35	Edge Defect Engineering of Nitrogen-Doped Carbon for Oxygen Electrocatalysts in Znâ€“Air Batteries. ACS Applied Materials & Interfaces, 2018, 10, 29448-29456.	8.0	110
36	The role of hydroxyl groups in interchain interactions in cellulose I_{Îˆ} and I_{Î²}. International Journal of Quantum Chemistry, 2017, 117, e25357.	2.0	4

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37	Modification of Molecular Conductance by in Situ Deprotection of Thiol-Based Porphyrin. ACS Applied Materials & Interfaces, 2017, 9, 15901-15906.	8.0	20
38	Conductance of Junctions with Acetyl-Functionalized Thiols: A First-Principles-Based Analysis. Journal of Physical Chemistry C, 2017, 121, 10298-10304.	3.1	12
39	Topological transitions of the Fermi surface of osmium under pressure: an LDA+DMFT study. New Journal of Physics, 2017, 19, 033020.	2.9	10
40	Anisotropic distortion and Lifshitz transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math>-Hf under pressure. Physical Review B, 2017, 95, .	3.2	14
41	Emerging New Pseudobinary and Ternary Halides as Scintillators for Radiation Detection. IEEE Transactions on Nuclear Science, 2017, 64, 1817-1824.	2.0	9
42	Ramifications of codoping SrI2:Eu with isovalent and aliovalent impurities. Journal of Applied Physics, 2016, 120, 213104.	2.5	7
43	Achieving Predictive Description of Molecular Conductance by Using a Range-Separated Hybrid Functional. Nano Letters, 2016, 16, 6092-6098.	9.1	21
44	Deleterious Effects of Exact Exchange Functionals on Predictions of Molecular Conductance. Journal of Chemical Theory and Computation, 2016, 12, 3431-3435.	5.3	10
45	The most incompressible metal osmium at static pressures above 750 gigapascals. Nature, 2015, 525, 226-229.	27.8	159
46	An advanced multi-orbital impurity solver for dynamical mean field theory based on the equation of motion approach. Journal of Physics Condensed Matter, 2012, 24, 055603.	1.8	5
47	Investigation of on-site interorbital single-electron hoppings in general multiorbital systems. Physical Review B, 2012, 86, .	3.2	4
48	Spin and orbital hybridization at specifically nested Fermi surfaces in URu2Si2. Physical Review B, 2011, 84, .	3.2	51
49	Fast multi-orbital equation of motion impurity solver for dynamical mean field theory. Journal of Physics Condensed Matter, 2011, 23, 425601.	1.8	4
50	Fast impurity solver based on equations of motion and decoupling. Physical Review B, 2009, 79, .	3.2	17