

Xiao-Yong Yang

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

884
citations

471061
17
h-index

476904
29
g-index

37
all docs

37
docs citations

37
times ranked

610
citing authors

#	ARTICLE	IF	CITATIONS
19	First-principles study of the stability and diffusion properties of hydrogen in zirconium carbide. <i>Journal of Nuclear Materials</i> , 2016, 479, 130-136.	1.3	14
20	The temperature-dependent diffusion coefficient of helium in zirconium carbide studied with first-principles calculations. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	13
21	Enhanced overall water splitting under visible light of MoSSe/WSSe heterojunction by lateral interfacial engineering. <i>Journal of Catalysis</i> , 2021, 404, 18-31.	3.1	13
22	First-principles calculations and experiments for Ce ⁴⁺ effects on structure and chemical stabilities of Zr ₁ -Ce SiO ₄ . <i>Journal of Nuclear Materials</i> , 2019, 514, 276-283.	1.3	11
23	Effect of phase evolution and acidity on the chemical stability of Zr ₁ -Nd SiO ₄ /2 ceramics. <i>Ceramics International</i> , 2019, 45, 3052-3058.	2.3	10
24	Exploring the Degradation Behavior of Ce-Monazite in Water Solution through Adsorption and Penetration Kinetics. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22173-22184.	1.5	10
25	Investigating the solution and diffusion properties of hydrogen in $\hat{1}\pm$ -Uranium by first-principles calculations. <i>Progress in Nuclear Energy</i> , 2020, 122, 103268.	1.3	8
26	Machine learning-enabled band gap prediction of monolayer transition metal chalcogenide alloys. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4653-4665.	1.3	7
27	First-principles investigation on stability and diffusion mechanism of helium impurities in 4H-SiC. <i>Journal of Nuclear Materials</i> , 2018, 499, 168-174.	1.3	6
28	Defect evolution behaviors from single sulfur point vacancies to line vacancies in monolayer molybdenum disulfide. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19525-19536.	1.3	6
29	First-principles study of migration and diffusion mechanisms of helium in $\hat{1}\pm$ -Be. <i>AIP Advances</i> , 2016, 6, .	0.6	5
30	Synergistic vacancy defects and mechanical strain for the modulation of the mechanical, electronic and optical properties of monolayer tungsten disulfide. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6298-6308.	1.3	5
31	Structural, electronic, mechanical and thermodynamic properties of U $\hat{1}\pm$ Si intermetallic compounds: A comprehensive first principles calculations. <i>Progress in Nuclear Energy</i> , 2022, 148, 104229.	1.3	5
32	Structures and energetics of point defects with charge states in zircon: A first-principles study. <i>Journal of Alloys and Compounds</i> , 2018, 759, 60-69.	2.8	4
33	Structural stability and aqueous durability of Cs incorporation into BaAl ₂ Ti ₆ O ₁₆ hollandite. <i>Journal of Nuclear Materials</i> , 2022, 565, 153716.	1.3	4
34	Rapid preparation of zirconia/zircon composites ceramics by microwave method: Experiment and first-principle investigation. <i>Progress in Nuclear Energy</i> , 2021, 139, 103839.	1.3	2
35	First-principles study of hydrogen retention and diffusion behaviors in 4H-SiC. <i>Superlattices and Microstructures</i> , 2018, 122, 362-370.	1.4	1
36	Unveiling the energetic and structural properties of Pu doped zircon through electrochemical equilibrium diagram from DFT+U calculations. <i>Journal of Nuclear Materials</i> , 2020, 539, 152234.	1.3	0

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37	What is the Role of Nb on Preferential Hydriding of Double-Phased Uranium, Stabilizing $\hat{1}^3$ -U, or Avoiding Hydrogen Aggregation?. Journal of Physical Chemistry C, 2021, 125, 9364-9370.	1.5	0