Cui-Lan Ren

List of Publications by Year
in descending order

33	415	687363 13	794594 19
papers	citations	h-index	g-index

34	34	34	563
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-throughput screening and machine learning for the efficient growth of high-quality single-wall carbon nanotubes. Nano Research, 2021, 14, 4610-4615.	10.4	11
2	Theoretical insight into adsorption and dissociation of water on NiCr binary alloy surfaces: Early-stage oxidation mechanism. Journal of Applied Physics, 2021, 130, .	2.5	1
3	Temperature dependence of He bubble evolution in UNS N10003 alloys under He ion irradiation. Journal of Applied Physics, 2021, 130, .	2.5	3
4	Prediction of structural and phase transitions of Th2CN from ambient pressure to 100 GPa: A first-principles study. Computational Materials Science, 2021, , 110980.	3.0	0
5	Theoretical prediction of radiation-enhanced diffusion behavior in nickel under self-ion irradiation. Nuclear Science and Techniques/Hewuli, 2020, 31, 1.	3.4	6
6	Sample spinning to mitigate polarization artifact and interstitial-vacancy imbalance in ion-beam irradiation. Npj Computational Materials, 2020, 6, .	8.7	7
7	Ion beam irradiation of ABO₄ compounds with the fergusonite, monazite, scheelite, and zircon structures. Journal of the American Ceramic Society, 2020, 103, 5502-5514.	3.8	9
8	First-principles study of helium behavior in nickel with noble gas incorporation. Journal of Applied Physics, 2020, 127, 175903.	2.5	4
9	Defective TiO₂ for Propane Dehydrogenation. Industrial & Engineering Chemistry Research, 2020, 59, 4377-4387.	3.7	49
10	First-principles study on the mechanical properties of M2CT2 (Mâ€‰=â€‰Ti, Zr, Hf; Tâ€‰=â€‰O, F, OH) MXenes. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	3.4	14
11	Simulation of migration and coalescence of helium bubbles in nickel. Journal of Nuclear Materials, 2019, 518, 48-53.	2.7	12
12	Size Effects on the Mechanical Properties of Nanoporous Graphene Networks. Advanced Functional Materials, 2019, 29, 1900311.	14.9	20
13	A First-Principles Study on the Vibrational and Electronic Properties of Zr-C MXenes. Communications in Theoretical Physics, 2018, 69, 336.	2.5	15
14	Elastic, mechanical, electronic, and defective properties of Zrâ€“Alâ€“C nanolaminates from first principles. Journal of the American Ceramic Society, 2018, 101, 756-772.	3.8	13
15	First-principle atomistic thermodynamic study on the early-stage corrosion of NiCr alloy under fluoride salt environment. Physical Chemistry Chemical Physics, 2018, 20, 28832-28839.	2.8	11
16	Theoretical study of fluorine-induced surface segregation of Cr in non-passivated Ni-based alloys. Journal of Applied Physics, 2018, 124, .	2.5	8
17	Molecular dynamics investigation on the local structures and transport properties of uranium ion in LiCl-KCl molten salt. Journal of Nuclear Materials, 2018, 511, 75-82.	2.7	21
18	First-principles study of noble gas stability in ThO 2. Journal of Nuclear Materials, 2017, 490, 181-187.	2.7	13

#	Article	IF	Citations
19	First-principles study of helium clustering at initial stage in ThO 2. Chinese Physics B, 2017, 26, 097101.	1.4	5
20	Pressure-induced structural transformations and polymerization in ThC2. Scientific Reports, 2017, 7, 45872.	3.3	13
21	First-principles prediction of interstitial carbon, nitrogen, and oxygen effects on the helium behavior in nickel. Journal of Applied Physics, 2017, 122, .	2.5	5
22	First-Principles Study of Vacancies in Ti3SiC2 and Ti3AlC2. Materials, 2017, 10, 103.	2.9	29
23	Theoretical study of the substitutional solute effect on the interstitial carbon in nickel-based alloy. RSC Advances, 2017, 7, 20567-20573.	3.6	8
24	Adsorption and diffusion of fluorine on Cr-doped Ni(111) surface: Fluorine-induced initial corrosion of non-passivated Ni-based alloy. Journal of Nuclear Materials, 2016, 478, 295-302.	2.7	14
25	A molecular dynamics study of helium diffusion and clustering in fcc nickel. Computational Materials Science, 2015, 107, 54-57.	3.0	17
26	Effects of rare-earth on the cohesion of Ni Î£5 (0 1 2) grain boundary from first-principles calculations. Computational Materials Science, 2015, 96, 374-378.	3.0	23
27	A new phase of ThC at high pressure predicted from a first-principles study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1607-1611.	2.1	17
28	First-principles study of the effect of phosphorus on nickel grain boundary. Journal of Applied Physics, 2014, 115, .	2.5	26
29	Molecular Dynamics Simulation of the Displacement Cascades in Tungsten with Interstitial Helium Atoms. Fusion Science and Technology, 2014, 66, 112-117.	1.1	7
30	Strain-controlled interface engineering of binding and charge doping at metal-graphene contacts. Applied Physics Letters, 2013, 103, 143107.	3.3	4
31	Molecular dynamics study on the generation and propagation of heat signals in single-wall carbon nanotubes. RSC Advances, 2013, 3, 12855.	3.6	2
32	Effects of tube diameter and chirality on the stability of single-walled carbon nanotubes under ion irradiation. Journal of Applied Physics, 2009, 106, .	2.5	17
33	Growth of Ag nanocrystals on multiwalled carbon nanotubes and Ag-carbon nanotube interaction. Science in China Series D: Earth Sciences, 2009, 52, 3215-3218.	0.9	11