

Peiru Zheng

List of Publications by Year in descending order

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9
papers

90
citations

1478505

6
h-index

1474206

9
g-index

9
all docs

9
docs citations

9
times ranked

55
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic-scale understanding of oxidation mechanisms of materials by computational approaches: A review. <i>Materials and Design</i> , 2022, 217, 110605.	7.0	6
2	Near Room-Temperature Synthesis of Vertical Graphene Nanowalls on Dielectrics. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21348-21355.	8.0	5
3	Oxidation of nickel with groove defects: Cation vacancies expansion mechanism and directional layer-by-layer oxidation. <i>Applied Surface Science</i> , 2022, 593, 153384.	6.1	2
4	Hydrogenation of TiO ₂ nanosheets and nanoparticles: typical reduction stages and orientation-related anisotropic disorder. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22603-22614.	10.3	5
5	Structural Transformation from Low-Coordinated Oxides to High-Coordinated Oxides during the Oxidation of Cu Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8759-8766.	3.1	14
6	The eruption of carbon chains in the oxidation of 2D Tin+1Cn (n=1, 2, 3) MXenes. <i>Applied Surface Science</i> , 2021, 550, 149310.	6.1	8
7	Atomistic origin of amorphous-structure-promoted oxidation of silicon. <i>Applied Surface Science</i> , 2020, 504, 144437.	6.1	22
8	Oxidation of graphene with variable defects: alternately symmetrical escape and self-restructuring of carbon rings. <i>Nanoscale</i> , 2020, 12, 10140-10148.	5.6	20
9	Wetting state transition of a liquid gallium drop at the nanoscale. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11809-11816.	2.8	8