

Peiru Zheng

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Atomistic origin of amorphous-structure-promoted oxidation of silicon. Applied Surface Science, 2020, 504, 144437.	6.1	22
2	Oxidation of graphene with variable defects: alternately symmetrical escape and self-restructuring of carbon rings. Nanoscale, 2020, 12, 10140-10148.	5.6	20
3	Structural Transformation from Low-Coordinated Oxides to High-Coordinated Oxides during the Oxidation of Cu Nanoparticles. Journal of Physical Chemistry C, 2021, 125, 8759-8766.	3.1	14
4	Wetting state transition of a liquid gallium drop at the nanoscale. Physical Chemistry Chemical Physics, 2020, 22, 11809-11816.	2.8	8
5	The eruption of carbon chains in the oxidation of 2D $Ti_{n+1}C_n$ ($n=1, 2, 3$) MXenes. Applied Surface Science, 2021, 550, 149310.	6.1	8
6	Atomic-scale understanding of oxidation mechanisms of materials by computational approaches: A review. Materials and Design, 2022, 217, 110605.	7.0	6
7	Hydrogenation of TiO_2 nanosheets and nanoparticles: typical reduction stages and orientation-related anisotropic disorder. Journal of Materials Chemistry A, 2021, 9, 22603-22614.	10.3	5
8	Near Room-Temperature Synthesis of Vertical Graphene Nanowalls on Dielectrics. ACS Applied Materials & Interfaces, 2022, 14, 21348-21355.	8.0	5
9	Oxidation of nickel with groove defects: Cation vacancies expansion mechanism and directional layer-by-layer oxidation. Applied Surface Science, 2022, 593, 153384.	6.1	2