

Mengen Wang

List of Publications by Year in descending order

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papers

542
citations

759233

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docs citations

23
times ranked

797
citing authors

#	ARTICLE	IF	CITATIONS
1	Exfoliating silica bilayers via intercalation at the silica/transition metal interface. <i>Nanotechnology</i> , 2022, 33, 135702.	2.6	0
2	Water Formation Reaction under Interfacial Confinement: Al _{0.25} Si _{0.75} O ₂ on O-Ru(0001). <i>Nanomaterials</i> , 2022, 12, 183.	4.1	2
3	Role of carbon and hydrogen in limiting n-type doping of monoclinic Al _{0.25} Si _{0.75} O ₂ . <i>Physical Review B</i> , 2022, 105, .	3.2	18
4	Adsorption and Diffusion of Aluminum on $\hat{\Gamma}$ -Ga ₂ O ₃ (010) Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10650-10655.	8.0	7
5	Atomic scale investigation of aluminum incorporation, defects, and phase stability in $\hat{\Gamma}$ -Al _x Ga _{1-x} O ₃ films. <i>APL Materials</i> , 2021, 9, .	5.1	35
6	Incorporation of Si and Sn donors in $\hat{\Gamma}$ -Ga ₂ O ₃ through surface reconstructions. <i>Journal of Applied Physics</i> , 2021, 130, 185703.	2.5	7
7	First-principles surface energies for monoclinic Ga ₂ O ₃ and Al ₂ O ₃ and consequences for cracking of Al _x Ga _{1-x} O ₃ . <i>APL Materials</i> , 2020, 8, .	5.1	53
8	Orientation-dependent band offsets between Al _x Ga _{1-x} O ₃ and Ga ₂ O ₃ . <i>Applied Physics Letters</i> , 2020, 117, .	3.3	24
9	Mechanism of the Accelerated Water Formation Reaction under Interfacial Confinement. <i>ACS Catalysis</i> , 2020, 10, 6119-6128.	11.2	20
10	Role of Ga and In adatoms in the epitaxial growth of $\hat{\Gamma}$ -Ga ₂ O ₃ . <i>Physical Review B</i> , 2020, 102, .	3.2	11
11	2D (Alumino)Silicate Noble Clathrates: Ionization-Facilitated Formation of 2D (Alumino)Silicate Noble Gas Clathrate Compounds (<i>Adv. Funct. Mater.</i> 20/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970137.	14.9	0
12	Room-Temperature in Vacuo Chemisorption of Xenon Atoms on Ru(0001) under Interface Confinement. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13578-13585.	3.1	5
13	Ionization-Facilitated Formation of 2D (Alumino)Silicate Noble Gas Clathrate Compounds. <i>Advanced Functional Materials</i> , 2019, 29, 1806583.	14.9	20
14	First-Principles Study of Interface Structures and Charge Rearrangement at the Aluminosilicate/Ru(0001) Heterojunction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7731-7739.	3.1	11
15	Stabilization of Oxidized Copper Nanoclusters in Confined Spaces. <i>Topics in Catalysis</i> , 2018, 61, 419-427.	2.8	13
16	Nonresonant valence-to-core x-ray emission spectroscopy of niobium. <i>Physical Review B</i> , 2018, 97, .	3.2	11
17	Synchrotron-based ambient pressure X-ray photoelectron spectroscopy of hydrogen and helium. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	13
18	Immobilization of single argon atoms in nano-cages of two-dimensional zeolite model systems. <i>Nature Communications</i> , 2017, 8, 16118.	12.8	29

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19	Energy Level Shifts at the Silica/Ru(0001) Heterojunction Driven by Surface and Interface Dipoles. <i>Topics in Catalysis</i> , 2017, 60, 481-491.	2.8	32
20	Examining the effects of self-assembled monolayers on nanoporous gold based amperometric glucose biosensors. <i>Analyst, The</i> , 2014, 139, 488-494.	3.5	29
21	Non-enzymatic glucose sensors based on controllable nanoporous gold/copper oxide nanohybrids. <i>Talanta</i> , 2014, 125, 366-371.	5.5	83
22	Nanoporous gold assembly of glucose oxidase for electrochemical biosensing. <i>Electrochimica Acta</i> , 2014, 130, 559-567.	5.2	65
23	One-step fabrication of bio-functionalized nanoporous gold/poly(3,4-ethylenedioxythiophene) hybrid electrodes for amperometric glucose sensing. <i>Talanta</i> , 2013, 116, 1054-1059.	5.5	54