

Dapeng Jing

List of Publications by Year in descending order

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45
papers

1,114
citations

430874

18
h-index

414414

32
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48
all docs

48
docs citations

48
times ranked

1416
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible Laser-Induced Graphene for Nitrogen Sensing in Soil. ACS Applied Materials & Interfaces, 2018, 10, 39124-39133.	8.0	117
2	Aerosol-Jet-Printed Graphene Immunosensor for Label-Free Cytokine Monitoring in Serum. ACS Applied Materials & Interfaces, 2020, 12, 8592-8603.	8.0	87
3	Accelerated aging of biochars: Impact on anion exchange capacity. Carbon, 2016, 103, 217-227.	10.3	78
4	Self-assembly of metal nanostructures on binary alloy surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 989-994.	7.1	75
5	Direct methane activation by atomically thin platinum nanolayers on two-dimensional metal carbides. Nature Catalysis, 2021, 4, 882-891.	34.4	63
6	Aluminum and iron biomass pretreatment impacts on biochar anion exchange capacity. Carbon, 2017, 118, 422-430.	10.3	62
7	Enabling Inkjet Printed Graphene for Ion Selective Electrodes with Postprint Thermal Annealing. ACS Applied Materials & Interfaces, 2017, 9, 12719-12727.	8.0	59
8	ON WATER FORMATION IN THE INTERSTELLAR MEDIUM: LABORATORY STUDY OF THE O+D REACTION ON SURFACES. Astrophysical Journal Letters, 2011, 741, L9.	8.3	47
9	Tuning the Structure, Conductivity, and Wettability of Laser-Induced Graphene for Multiplexed Open Microfluidic Environmental Biosensing and Energy Storage Devices. ACS Nano, 2022, 16, 15-28.	14.6	40
10	Thermal Unequilibrium of PdSn Intermetallic Nanocatalysts: From In Situ Tailored Synthesis to Unexpected Hydrogenation Selectivity. Angewandte Chemie - International Edition, 2021, 60, 18309-18317.	13.8	32
11	Kinetics of Facile Bilayer Island Formation at Low Temperature: $\frac{dN}{dt} = k_1 \frac{N}{V} - k_2 \frac{N^2}{V^2}$ $\frac{dN}{dt} = k_1 \frac{N}{V} - k_2 \frac{N^2}{V^2}$	7.8	29
12	Scanning tunneling microscopy and density functional theory study of initial bilayer growth of Ag films on NiAl(110). Physical Review B, 2007, 76, .	3.2	28
13	Formation of Multilayer Cu Islands Embedded beneath the Surface of Graphite: Characterization and Fundamental Insights. Journal of Physical Chemistry C, 2018, 122, 4454-4469.	3.1	27
14	Defect-mediated, thermally-activated encapsulation of metals at the surface of graphite. Carbon, 2018, 127, 305-311.	10.3	24
15	Catalyst Property Effects on Product Distribution during the Hydrodeoxygenation of Lignin Pyrolysis Vapors over MoO ₃ / γ -Al ₂ O ₃ . ACS Sustainable Chemistry and Engineering, 2021, 9, 6685-6696.	6.7	24
16	Atomic oxygen diffusion on and desorption from amorphous silicate surfaces. Physical Chemistry Chemical Physics, 2014, 16, 3493.	2.8	23
17	FORMATION OF MOLECULAR OXYGEN AND OZONE ON AMORPHOUS SILICATES. Astrophysical Journal, 2012, 756, 98.	4.5	22
18	Reverse-engineering of graphene on metal surfaces: a case study of embedded ruthenium. Nanotechnology, 2018, 29, 505601.	2.6	22

#	ARTICLE	IF	CITATIONS
19	Formation and coarsening of Ag(110) bilayer islands on NiAl(110): STM analysis and atomistic lattice-gas modeling. <i>Physical Review B</i> , 2010, 81, .	3.2	18
20	Nanoscale "Quantum" Islands on Metal Substrates: Microscopy Studies and Electronic Structure Analyses. <i>Materials</i> , 2010, 3, 3965-3993.	2.9	18
21	Rutile Surface Reactivity Provides Insight into the Structure-Directing Role of Peroxide in TiO ₂ Polymorph Control. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27343-27352.	3.1	15
22	Atomic-Scale Understanding of Catalyst Activation: Carboxylic Acid Solutions, but Not the Acid Itself, Increase the Reactivity of Anatase (001) Faceted Nanocatalysts. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4307-4314.	3.1	14
23	Fabricating Fe nanocrystals via encapsulation at the graphite surface. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, 061403.	2.1	14
24	Shapes of Fe nanocrystals encapsulated at the graphite surface. <i>New Journal of Physics</i> , 2020, 22, 023016.	2.9	14
25	Far-from-equilibrium film growth on alloy surfaces: Ni and Al on NiAl(110). <i>Physical Review B</i> , 2011, 84, .	3.2	13
26	Sputtering Effects and Water Formation on an Amorphous Silicate Surface. <i>Journal of Physical Chemistry A</i> , 2013, 117, 3009-3016.	2.5	13
27	Precisely Controlled Synthesis of Hybrid Intermetallic "Metal Nanoparticles for Nitrate Electroreduction. <i>ACS Applied Materials & Interfaces</i> , 0, , .	8.0	13
28	Search for encapsulation of platinum, silver, and gold at the surface of graphite. <i>Physical Review Research</i> , 2020, 2, .	3.6	13
29	Non-equilibrium growth of metal clusters on a layered material: Cu on MoS ₂ . <i>New Journal of Physics</i> , 2020, 22, 053033.	2.9	12
30	Stranski "Krastanov-like growth of an Ag film on a metallic glass. <i>Thin Solid Films</i> , 2009, 517, 6486-6492.	1.8	11
31	New Noncentrosymmetric Tetrel Pnictides Composed of Square "Planar Gold(I) with Peculiar Bonding. <i>Chemistry - A European Journal</i> , 2021, 27, 7383-7390.	3.3	11
32	Encapsulation of metal nanoparticles at the surface of a prototypical layered material. <i>Nanoscale</i> , 2021, 13, 1485-1506.	5.6	10
33	Synthesis of SrTiO ₃ and Al-doped SrTiO ₃ <i>via</i> the deep eutectic solvent route. <i>Materials Advances</i> , 2022, 3, 4736-4747.	5.4	9
34	Temperature-dependent growth shapes of Ni nanoclusters on NiAl(110). <i>Journal of Chemical Physics</i> , 2011, 135, 084706.	3.0	8
35	Crystal Structure and Properties of Layered Pnictides BaCuSi ₂ Pn ₃ (Pn = P, As). <i>Inorganic Chemistry</i> , 2021, 60, 5627-5634.	4.0	8
36	Hydrophobic laser-induced graphene potentiometric ion-selective electrodes for nitrate sensing. <i>Mikrochimica Acta</i> , 2022, 189, 122.	5.0	8

#	ARTICLE	IF	CITATIONS
37	Weak bonding of Zn in an Al-based approximant based on surface measurements. Philosophical Magazine, 2011, 91, 2879-2888.	1.6	7
38	Thermal Unequilibrium of PdSn Intermetallic Nanocatalysts: From In Situ Tailored Synthesis to Unexpected Hydrogenation Selectivity. Angewandte Chemie, 2021, 133, 18457-18465.	2.0	7
39	Thermodynamically Driven Formation of Intercalated Cu Carpets from Supported Cu Pyramids on MoS ₂ . Journal of Physical Chemistry Letters, 2022, 13, 6651-6656.	4.6	5
40	From Initial to Late Stages of Epitaxial Thin Film Growth: STM Analysis and Atomistic or Coarse-Grained Modeling. , 2010, , .		4
41	Thermally activated diffusion of copper into amorphous carbon. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, 061401.	2.1	4
42	Formation of Irregular Al Islands by Room-Temperature Deposition on NiAl(110). Materials Research Society Symposia Proceedings, 2011, 1318, 1.	0.1	1
43	Hydrogen and water in the interstellar medium. , 2013, , .		1
44	Structure evolution of single-site Pt in a metal-organic framework. Journal of Chemical Physics, 2021, 154, 094710.	3.0	1
45	Correlations between structure and chemical composition on oxidized (Pt,Ni) ₃ Al(111) surfaces. Surface Science, 2008, 602, 1092-1100.	1.9	0