Dapeng Jing

List of Publications by Year
in descending order

45 papers	1,114 citations	430874 18 h-index	414414 32 g-index
48 all docs	48 docs citations	48 times ranked	1416 citing authors

#	Article	IF	Citations
1	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
2	Hydrophobic laser-induced graphene potentiometric ion-selective electrodes for nitrate sensing. Mikrochimica Acta, 2022, 189, 122.	5.0	8
3	Synthesis of SrTiO₃ and Al-doped SrTiO₃ via the deep eutectic solvent route. Materials Advances, 2022, 3, 4736-4747.	5.4	9
4	Thermodynamically Driven Formation of Intercalated Cu Carpets from Supported Cu Pyramids on MoS₂. Journal of Physical Chemistry Letters, 2022, 13, 6651-6656.	4.6	5
5	Encapsulation of metal nanoparticles at the surface of a prototypical layered material. Nanoscale, 2021, 13, 1485-1506.	5.6	10
6	Structure evolution of single-site Pt in a metalâ€“organic framework. Journal of Chemical Physics, 2021, 154, 094710.	3.0	1
7	New Noncentrosymmetric Tetrel Pnictides Composed of Squareâ€Planar Gold(I) with Peculiar Bonding. Chemistry - A European Journal, 2021, 27, 7383-7390.	3.3	11
8	Crystal Structure and Properties of Layered Pnictides BaCuSi₂Pn₃ (Pn = P, As). Inorganic Chemistry, 2021, 60, 5627-5634.	4.0	8
9	Catalyst Property Effects on Product Distribution during the Hydrodeoxygenation of Lignin Pyrolysis Vapors over MoO₃/Î³-Al₂O₃. ACS Sustainable Chemistry and Engineering, 2021, 9, 6685-6696.	6.7	24
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	Thermal Unequilibrium of PdSn Intermetallic Nanocatalysts: From In Situ Tailored Synthesis to Unexpected Hydrogenation Selectivity. Angewandte Chemie, 2021, 133, 18457-18465.	2.0	7
12	Direct methane activation by atomically thin platinum nanolayers on two-dimensional metal carbides. Nature Catalysis, 2021, 4, 882-891.	34.4	63
13	Aerosol-Jet-Printed Graphene Immunosensor for Label-Free Cytokine Monitoring in Serum. ACS Applied Materials & Interfaces, 2020, 12, 8592-8603.	8.0	87
14	Shapes of Fe nanocrystals encapsulated at the graphite surface. New Journal of Physics, 2020, 22, 023016.	2.9	14
15	Non-equilibrium growth of metal clusters on a layered material: Cu on MoS₂. New Journal of Physics, 2020, 22, 053033.	2.9	12
16	Search for encapsulation of platinum, silver, and gold at the surface of graphite. Physical Review Research, 2020, 2, .	3.6	13
17	Fabricating Fe nanocrystals via encapsulation at the graphite surface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, 061403.	2.1	14
18	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

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19	Atomic-Scale Understanding of Catalyst Activation: Carboxylic Acid Solutions, but Not the Acid Itself, Increase the Reactivity of Anatase (001) Faceted Nanocatalysts. Journal of Physical Chemistry C, 2018, 122, 4307-4314.	3.1	14
20	Defect-mediated, thermally-activated encapsulation of metals at the surface of graphite. Carbon, 2018, 127, 305-311.	10.3	24
21	Reverse-engineering of graphene on metal surfaces: a case study of embedded ruthenium. Nanotechnology, 2018, 29, 505601.	2.6	22
22	Flexible Laser-Induced Graphene for Nitrogen Sensing in Soil. ACS Applied Materials & Interfaces, 2018, 10, 39124-39133.	8.0	117
23	Enabling Inkjet Printed Graphene for Ion Selective Electrodes with Postprint Thermal Annealing. ACS Applied Materials & Interfaces, 2017, 9, 12719-12727.	8.0	59
24	Aluminum and iron biomass pretreatment impacts on biochar anion exchange capacity. Carbon, 2017, 118, 422-430.	10.3	62
25	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
26	Accelerated aging of biochars: Impact on anion exchange capacity. Carbon, 2016, 103, 217-227.	10.3	78
27	Rutile Surface Reactivity Provides Insight into the Structure-Directing Role of Peroxide in TiO₂ Polymorph Control. Journal of Physical Chemistry C, 2014, 118, 27343-27352.	3.1	15
28	Atomic oxygen diffusion on and desorption from amorphous silicate surfaces. Physical Chemistry Chemical Physics, 2014, 16, 3493.	2.8	23
29	Sputtering Effects and Water Formation on an Amorphous Silicate Surface. Journal of Physical Chemistry A, 2013, 117, 3009-3016.	2.5	13
30	Hydrogen and water in the interstellar medium. , 2013, , .		1
31	FORMATION OF MOLECULAR OXYGEN AND OZONE ON AMORPHOUS SILICATES. Astrophysical Journal, 2012, 756, 98.	4.5	22
32	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
33	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
34	Far-from-equilibrium film growth on alloy surfaces: Ni and Al on NiAl(110). Physical Review B, 2011, 84, .	3.2	13
35	Formation of Irregular Al Islands by Room-Temperature Deposition on NiAl(110). Materials Research Society Symposia Proceedings, 2011, 1318, 1.	0.1	1
36	Weak bonding of Zn in an Al-based approximant based on surface measurements. Philosophical Magazine, 2011, 91, 2879-2888.	1.6	7

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37	Temperature-dependent growth shapes of Ni nanoclusters on NiAl(110). Journal of Chemical Physics, 2011, 135, 084706.	3.0	8
38	Formation and coarsening of Ag(110) bilayer islands on NiAl(110): STM analysis and atomistic lattice-gas modeling. Physical Review B, 2010, 81, .	3.2	18
39	Nanoscale â€œQuantumâ€•Islands on Metal Substrates: Microscopy Studies and Electronic Structure Analyses. Materials, 2010, 3, 3965-3993.	2.9	18
40	From Initial to Late Stages of Epitaxial Thin Film Growth: STM Analysis and Atomistic or Coarse-Grained Modeling. , 2010, , .		4
41	Stranskiâ€“Krastanov-like growth of an Ag film on a metallic glass. Thin Solid Films, 2009, 517, 6486-6492.	1.8	11
42	Correlations between structure and chemical composition on oxidized (Pt,Ni)3Al(111) surfaces. Surface Science, 2008, 602, 1092-1100.	1.9	0
43	Kinetics of Facile Bilayer Island Formation at Low Temperature:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ag</mml:mi><mml:mo>/</mml:mo><mml:mi>NiAl</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>110</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 487 Td (stretchy="false	7.8	29
44	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
45	Precisely Controlled Synthesis of Hybrid Intermetallicâ€“Metal Nanoparticles for Nitrate Electroreduction. ACS Applied Materials & Interfaces, 0, , .	8.0	13