Rakesh Kumar

List of Publications by Year in descending order

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471371 454834 48 953 17 30 citations h-index g-index papers 49 49 49 1025 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Dynamic Behavior of Si Magic Clusters on Si(111) Surfaces. Physical Review Letters, 1999, 83, 120-123.	2.9	82
2	The Glycine-Alanine Dipeptide Repeat from C9orf72 Hexanucleotide Expansions Forms Toxic Amyloids Possessing Cell-to-Cell Transmission Properties. Journal of Biological Chemistry, 2016, 291, 4903-4911.	1.6	73
3	Diffusion of Single Hydrogen Atoms on Si(111)-(7×7) Surfaces. Physical Review Letters, 1998, 80, 5584-5587.	2.9	72
4	Exchange-Barrier Effects on Nucleation and Growth of Surfactant-Mediated Epitaxy. Physical Review Letters, 1998, 80, 4229-4232.	2.9	59
5	Interface-Induced Ordering of Gas Molecules Confined in a Small Space. Scientific Reports, 2014, 4, 7189.	1.6	56
6	Direct Observation of Reaction-Limited Aggregation on Semiconductor Surfaces. Physical Review Letters, 1999, 83, 1191-1194.	2.9	50
7	Nucleation processes of nanobubbles at a solid/water interface. Scientific Reports, 2016, 6, 24651.	1.6	48
8	Gas field ion source from an Irâ^•W⟨111⟩ single-atom tip. Applied Physics Letters, 2008, 92, .	1.5	47
9	High coverage phases of Pb on the Si(111) surface: structures and phase transitions. Surface Science, 1995, 323, 241-257.	0.8	45
10	Observation of Finite-Size Effects on a Structural Phase Transition of 2D Nanoislands. Physical Review Letters, 2004, 93, 106101.	2.9	37
11	Direct Observation of Electromigration of Si Magic Clusters on Si(111) Surfaces. Physical Review Letters, 2000, 84, 5792-5795.	2.9	30
12	Galectin-1 Restricts Vascular Smooth Muscle Cell Motility Via Modulating Adhesion Force and Focal Adhesion Dynamics. Scientific Reports, 2018, 8, 11497.	1.6	28
13	Adsorption of Cd and Cr ions from industrial wastewater using Ca doped Ni–Zn nanoferrites: Synthesis, characterization and isotherm analysis. Ceramics International, 2022, 48, 18048-18056.	2.3	27
14	Crystal Growth and Magnetic Properties of Topological Nodal-Line Semimetal GdSbTe with Antiferromagnetic Spin Ordering. Inorganic Chemistry, 2019, 58, 11730-11737.	1.9	26
15	High-Resolution Characterization of Preferential Gas Adsorption at the Graphene–Water Interface. Langmuir, 2016, 32, 11164-11171.	1.6	25
16	Self-Assembly of MinE on the Membrane Underlies Formation of the MinE Ring to Sustain Function of the Escherichia coli Min System. Journal of Biological Chemistry, 2014, 289, 21252-21266.	1.6	18
17	Dynamic behavior of Si magic clusters on Si(111) surfaces. Surface Science, 2002, 514, 309-318.	0.8	17
18	Demountable Single-Atom Electron Source. E-Journal of Surface Science and Nanotechnology, 2005, 3, 412-416.	0.1	17

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19	Atomic Force Microscopy Characterization of Protein Fibrils Formed by the Amyloidogenic Region of the Bacterial Protein MinE on Mica and a Supported Lipid Bilayer. PLoS ONE, 2015, 10, e0142506.	1.1	17
20	Growth mechanism and morphology of Ge on Pb covered Si(111) surfaces. Surface Science, 1998, 410, L741-L747.	0.8	16
21	Nucleation and Growth of Ge at Pb/Si(111) Surfaces: Reaction-Limited Aggregation. Japanese Journal of Applied Physics, 2000, 39, 4100-4109.	0.8	16
22	Three-dimensional surface topography of graphene by divergent beam electron diffraction. Nature Communications, 2017, 8, 14440.	5.8	16
23	Preparation of Single-Atom Tips and Their Field Emission Behaviors. E-Journal of Surface Science and Nanotechnology, 2006, 4, 233-238.	0.1	15
24	Nucleation and growth of Si on Pb monolayer covered Si(111) surfaces. Surface Science, 2011, 605, 1249-1256.	0.8	10
25	lmaging soft matters in water with torsional mode atomic force microscopy. Ultramicroscopy, 2013, 135, 121-125.	0.8	10
26	Study of the dynamics of point defects at Si(111)- $7\tilde{A}$ —7 surfaces with scanning tunneling microscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 2632-2640.	0.9	9
27	Model for surfactant-mediated growth of Ge on Pb-covered Si(111) surfaces. Physical Review B, 2000, 63, .	1.1	9
28	Hydrogen-Adsorption Induced Atomic Rearrangement of a Pb Monolayer on Si(111). Physical Review Letters, 2005, 94, 045505.	2.9	9
29	Optical imaging module for astigmatic detection system. Review of Scientific Instruments, 2016, 87, 053706.	0.6	9
30	Lateral Force Microscopy of Interfacial Nanobubbles: Friction Reduction and Novel Frictional Behavior. Scientific Reports, 2018, 8, 3125.	1.6	8
31	High-sensitivity imaging with lateral resonance mode atomic force microscopy. Nanoscale, 2016, 8, 18421-18427.	2.8	7
32	Emerging Roles of Air Gases in Lipid Bilayers. Small, 2018, 14, e1802133.	5.2	7
33	Investigating states of gas in water encapsulated between graphene layers. Chemical Science, 2021, 12, 2635-2645.	3.7	7
34	Structural and Optical Identification of Planar Side-Chain Stacking P3HT Nanowires. Macromolecules, 2021, 54, 10750-10757.	2.2	7
35	Analysis of island morphology in a model for Pb-mediated growth of Ge on Si(111). Physical Review B, $2001, 64, .$	1.1	6
36	Biased diffusion of Si magic clusters on Si(111) surface. Journal of Applied Physics, 2005, 97, 023522.	1.1	5

#	Article	IF	CITATIONS
37	A horizontal-type scanning near-field optical microscope with torsional mode operation toward high-resolution and non-destructive imaging of soft materials. Review of Scientific Instruments, 2020, 91, 073703.	0.6	4
38	Manipulation of single Si adatoms and observation of fast diffusion of Si dimers on a Pb-covered $Si(111)$ surface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, 041405.	0.9	3
39	Adsorption and dynamics of Si atoms at the monolayer Pb/Si(111) surface. Physical Review B, 2017, 95, .	1.1	2
40	Non-classical nucleation pathways revealed by scanning tunneling microscopy of epitaxy of covalent materials. Applied Surface Science, 2020, 500, 143986.	3.1	2
41	AFM pickup head with holographic optical element (HOE). , 2010, , .		1
42	Effects of Dissolved Gases on the Amyloid Fibril Morphology. Langmuir, 2021, 37, 516-523.	1.6	1
43	A Soft Incommensurate Reconstruction on PB/SI(111). Materials Research Society Symposia Proceedings, 1994, 355, 153.	0.1	0
44	Novel three-dimensional beam tracking system for stationary-sample type atomic force microscopy. , 0, , .		0
45	Fabrication of ultra-sharp single atom tips. , 2010, , .		0
46	An electron source possessing spatial and temporal coherence: A niobium nanoemitter. , $2016, \ldots$		0
47	Transmission Electron Microscopy of Gas-Supersaturated Water Encapsulated in Graphene Liquid Cells. Microscopy and Microanalysis, 2019, 25, 1742-1743.	0.2	0
48	DIRECT OBSERVATION OF SILICON MAGIC CLUSTERS ON SILICON (111) SURFACES., 2001,,.		0