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List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

724
citations

516561

16
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677027

22
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22
all docs

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docs citations

22
times ranked

984
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic charge distributions in silicon atomic surface wires. <i>Nanoscale</i> , 2021, 13, 3237-3245.	2.8	5
2	Detecting and Directing Single Molecule Binding Events on H-Si(100) with Application to Ultradense Data Storage. <i>ACS Nano</i> , 2020, 14, 2947-2955.	7.3	9
3	SiQAD: A Design and Simulation Tool for Atomic Silicon Quantum Dot Circuits. <i>IEEE Nanotechnology Magazine</i> , 2020, 19, 137-146.	1.1	21
4	Deep learning-guided surface characterization for autonomous hydrogen lithography. <i>Machine Learning: Science and Technology</i> , 2020, 1, 025001.	2.4	21
5	Electrostatic Landscape of a Hydrogen-Terminated Silicon Surface Probed by a Moveable Quantum Dot. <i>ACS Nano</i> , 2019, 13, 10566-10575.	7.3	23
6	All-electronic Nanosecond-resolved Scanning Tunneling Microscopy: Facilitating the Investigation of Single Dopant Charge Dynamics. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	2
7	Single-molecule chemical reduction induced by low-temperature scanning tunneling microscopy: A case study of gold-porphyrin on Au(111). <i>Surface Science</i> , 2018, 678, 157-162.	0.8	2
8	Binary atomic silicon logic. <i>Nature Electronics</i> , 2018, 1, 636-643.	13.1	76
9	Initiating and Monitoring the Evolution of Single Electrons Within Atom-Defined Structures. <i>Physical Review Letters</i> , 2018, 121, 166801.	2.9	33
10	Autonomous Scanning Probe Microscopy <i>in Situ</i> Tip Conditioning through Machine Learning. <i>ACS Nano</i> , 2018, 12, 5185-5189.	7.3	103
11	Lithography for robust and editable atomic-scale silicon devices and memories. <i>Nature Communications</i> , 2018, 9, 2778.	5.8	72
12	Resolving and Tuning Carrier Capture Rates at a Single Silicon Atom Gap State. <i>ACS Nano</i> , 2017, 11, 11732-11738.	7.3	17
13	Atomic White-Out: Enabling Atomic Circuitry through Mechanically Induced Bonding of Single Hydrogen Atoms to a Silicon Surface. <i>ACS Nano</i> , 2017, 11, 8636-8642.	7.3	48
14	Time-Resolved Imaging of Negative Differential Resistance on the Atomic Scale. <i>Physical Review Letters</i> , 2016, 117, 276805.	2.9	38
15	Time-resolved single dopant charge dynamics in silicon. <i>Nature Communications</i> , 2016, 7, 13258.	5.8	43
16	Scanning tunneling spectroscopy reveals a silicon dangling bond charge state transition. <i>New Journal of Physics</i> , 2015, 17, 073023.	1.2	44
17	Radio-Wave Oscillations of Molecular-Chain Resonators. <i>Physical Review Letters</i> , 2014, 112, 117201.	2.9	14
18	Surface-Supported Hydrocarbon $\dot{\text{C}}$ Radicals Show Kondo Behavior. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5718-5721.	1.5	47

#	ARTICLE	IF	CITATIONS
19	Interactions and Self-Assembly of Stable Hydrocarbon Radicals on a Metal Support. Journal of Physical Chemistry C, 2012, 116, 22587-22594.	1.5	29
20	Spectroscopic Scanning Tunneling Microscopy Studies of Single Surface-Supported Free-Base Corroles. Journal of the American Chemical Society, 2012, 134, 91-94.	6.6	16
21	Preserving Charge and Oxidation State of Au(III) Ions in an Agent-Functionalized Nanocrystal Model System. ACS Nano, 2011, 5, 6480-6486.	7.3	26
22	Spectroscopic STM Studies of Single Gold(III) Porphyrin Molecules. Journal of the American Chemical Society, 2009, 131, 17740-17741.	6.6	35