

Jack Hellerstedt

List of Publications by Year in descending order

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papers

798
citations

567281

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times ranked

1724
citing authors

#	ARTICLE	IF	CITATIONS
1	Counting molecules: Python based scheme for automated enumeration and categorization of molecules in scanning tunneling microscopy images. <i>Software Impacts</i> , 2022, 12, 100301.	1.4	4
2	Progress in Epitaxial Thin-Film Na ₃ Bi as a Topological Electronic Material. <i>Advanced Materials</i> , 2021, 33, e2005897.	21.0	18
3	Long-Range Surface-Assisted Molecule-Molecule Hybridization. <i>Small</i> , 2021, 17, e2005974.	10.0	3
4	Significance Of Nuclear Quantum Effects In Hydrogen Bonded Molecular Chains. <i>ACS Nano</i> , 2021, 15, 10357-10365.	14.6	11
5	Manifestation of Strongly Correlated Electrons in a 2D Kagome Metal-Organic Framework. <i>Advanced Functional Materials</i> , 2021, 31, 2106474.	14.9	20
6	Quantum Transport in Air-Stable Na ₃ Bi Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35542-35546.	8.0	7
7	Electronic Band Structure of In-Plane Ferroelectric van der Waals In_2Se_3 . <i>ACS Applied Electronic Materials</i> , 2020, 2, 213-219.	4.3	26
8	Titelbild: Aromatic Azide Transformation on the Ag(111) Surface Studied by Scanning Probe Microscopy (<i>Angew. Chem.</i> 8/2019). <i>Angewandte Chemie</i> , 2019, 131, 2179-2179.	2.0	0
9	Nitrous oxide as an effective AFM tip functionalization: a comparative study. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 315-321.	2.8	11
10	Aromatic Azide Transformation on the Ag(111) Surface Studied by Scanning Probe Microscopy. <i>Angewandte Chemie</i> , 2019, 131, 2288-2293.	2.0	3
11	Aromatic Azide Transformation on the Ag(111) Surface Studied by Scanning Probe Microscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2266-2271.	13.8	8
12	Electric-field-tuned topological phase transition in ultrathin Na ₃ Bi. <i>Nature</i> , 2018, 564, 390-394.	27.8	155
13	On-surface structural and electronic properties of spontaneously formed Tb ₂ Pc ₃ single molecule magnets. <i>Nanoscale</i> , 2018, 10, 15553-15563.	5.6	19
14	Iron-based trinuclear metal-organic nanostructures on a surface with local charge accumulation. <i>Nature Communications</i> , 2018, 9, 3211.	12.8	31
15	Direct Observation of 2D Electrostatics and Ohmic Contacts in Template-Grown Graphene/WS ₂ Heterostructures. <i>ACS Nano</i> , 2017, 11, 2785-2793.	14.6	74
16	Polypyridyl Iron Complex as a Hole-Transporting Material for Formamidinium Lead Bromide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 1855-1859.	17.4	17
17	Temperature-dependent transition in a three-dimensional Dirac semimetal thin film. <i>Physical Review B</i> , 2017, 96, .	3.2	9
18	Observation of Effective Pseudospin Scattering in ZrSiS. <i>Nano Letters</i> , 2017, 17, 7213-7217.	9.1	29

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19	Spatial charge inhomogeneity and defect states in topological Dirac semimetal thin films of Na ₃ Bi. Science Advances, 2017, 3, eaao6661.	10.3	15
20	Electrostatic modulation of the electronic properties of Dirac semimetal Na_3Bi thin films. Physical Review Materials, 2017, 1, .	23.1	15
21	Catastrophic degradation of the interface of epitaxial silicon carbide on silicon at high temperatures. Applied Physics Letters, 2016, 109, .	3.3	15
22	Electronic Properties of High-Quality Epitaxial Topological Dirac Semimetal Thin Films. Nano Letters, 2016, 16, 3210-3214.	9.1	47
23	Cobalt Polypyridyl Complexes as Transparent Solution-Processable Solid-State Charge Transport Materials. Advanced Energy Materials, 2016, 6, 1600874.	19.5	25
24	Molecular Doping the Topological Dirac Semimetal Na ₃ Bi across the Charge Neutrality Point with F4-TCNQ. ACS Applied Materials & Interfaces, 2016, 8, 16412-16418.	8.0	21
25	Response to "Comment on "Catastrophic degradation of the interface of epitaxial silicon carbide on silicon at high temperatures" [Appl. Phys. Lett. 109, 196101 (2016)]. Applied Physics Letters, 2016, 109, 196102.	3.3	2
26	Thickness and growth-condition dependence of in-situ mobility and carrier density of epitaxial thin-film Bi ₂ Se ₃ . Applied Physics Letters, 2014, 105, 173506.	3.3	18
27	Air-Stable Electron Depletion of Bi ₂ Se ₃ Using Molybdenum Trioxide into the Topological Regime. ACS Nano, 2014, 8, 6400-6406.	14.6	29
28	Stability and Surface Reconstruction of Topological Insulator Bi ₂ Se ₃ on Exposure to Atmosphere. Journal of Physical Chemistry C, 2014, 118, 20413-20419.	3.1	62
29	In situ monitoring of resistivity and carrier concentration during molecular beam epitaxy of topological insulator Bi ₂ Se ₃ . Proceedings of SPIE, 2013, , .	0.8	2
30	Phase Diagram of Electrostatically Doped SrTiO_3 . Physical Review Letters, 2011, 106, 136809.	7.8	103