

J Nathan Hohman

List of Publications by Year in descending order

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37
papers

1,849
citations

279798

23
h-index

315739

38
g-index

40
all docs

40
docs citations

40
times ranked

3014
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Defects on Plate-Shaped Silver Nanoparticles Contribute to Its Hazard Potential in a Fish Gill Cell Line and Zebrafish Embryos. <i>ACS Nano</i> , 2012, 6, 3745-3759.	14.6	318
2	Directing Substrate Morphology via Self-Assembly: Ligand-Mediated Scission of Gallium-Indium Microspheres to the Nanoscale. <i>Nano Letters</i> , 2011, 11, 5104-5110.	9.1	260
3	Creating Favorable Geometries for Directing Organic Photoreactions in Alkanethiolate Monolayers. <i>Science</i> , 2011, 331, 1312-1315.	12.6	92
4	Laser-sculptured ultrathin transition metal carbide layers for energy storage and energy harvesting applications. <i>Nature Communications</i> , 2019, 10, 3112.	12.8	91
5	Self-Assembly of Carboranethiol Isomers on Au{111}: Intermolecular Interactions Determined by Molecular Dipole Orientations. <i>ACS Nano</i> , 2009, 3, 527-536.	14.6	88
6	Self-Assembly of Large-Area 2D Polycrystalline Transition Metal Carbides for Hydrogen Electrocatalysis. <i>Advanced Materials</i> , 2018, 30, e1805188.	21.0	84
7	Hybrid metal-organic chalcogenide nanowires with electrically conductive inorganic core through diamondoid-directed assembly. <i>Nature Materials</i> , 2017, 16, 349-355.	27.5	79
8	Scanning Electron Microscopy of Nanoscale Chemical Patterns. <i>ACS Nano</i> , 2007, 1, 191-201.	14.6	73
9	Sterically controlled mechanochemistry under hydrostatic pressure. <i>Nature</i> , 2018, 554, 505-510.	27.8	71
10	Cage molecules for self-assembly. <i>Materials Science and Engineering Reports</i> , 2010, 70, 188-208.	31.8	66
11	Photoresponsive Molecules in Well-Defined Nanoscale Environments. <i>Advanced Materials</i> , 2013, 25, 302-312.	21.0	57
12	Microcontact insertion printing. <i>Applied Physics Letters</i> , 2007, 90, 063114.	3.3	50
13	Self-Assembled Monolayers of 2-Adamantanethiol on Au{111}: Control of Structure and Displacement. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3895-3903.	2.5	44
14	Exchange Reactions between Alkanethiolates and Alkaneselenols on Au{111}. <i>Journal of the American Chemical Society</i> , 2014, 136, 8110-8121.	13.7	41
15	Reversible Lability by <i>in Situ</i> Reaction of Self-Assembled Monolayers. <i>Journal of the American Chemical Society</i> , 2009, 131, 2252-2259.	13.7	33
16	Chemical crystallography by serial femtosecond X-ray diffraction. <i>Nature</i> , 2022, 601, 360-365.	27.8	33
17	Defect-Tolerant Aligned Dipoles within Two-Dimensional Plastic Lattices. <i>ACS Nano</i> , 2015, 9, 4734-4742.	14.6	30
18	Effective Remediation of Groundwater Fluoride with Inexpensively Processed Indian Bauxite. <i>Environmental Science & Technology</i> , 2018, 52, 4711-4718.	10.0	30

#	ARTICLE	IF	CITATIONS
19	Tarnishing Silver Metal into Mithrene. <i>Journal of the American Chemical Society</i> , 2018, 140, 13892-13903.	13.7	30
20	Mithrene Is a Self-Assembling Robustly Blue Luminescent Metal-Organic Chalcogenolate Assembly for 2D Optoelectronic Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 3498-3508.	5.0	30
21	Enhanced molecular patterning via microdisplacement printing. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 2929.	1.6	29
22	Structural Manipulation of Hydrogen-Bonding Networks in Amide-Containing Alkanethiolate Monolayers via Electrochemical Processing. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19744-19751.	3.1	25
23	Dynamic Double Lattice of 1-Adamantaneselenolate Self-Assembled Monolayers on Au{111}. <i>Journal of the American Chemical Society</i> , 2011, 133, 19422-19431.	13.7	25
24	Covalent Attachment of Diamondoid Phosphonic Acid Dichlorides to Tungsten Oxide Surfaces. <i>Langmuir</i> , 2013, 29, 9790-9797.	3.5	25
25	Simple, robust molecular self-assembly on germanium. <i>Chemical Science</i> , 2011, 2, 1334.	7.4	24
26	Strongly Quantum-Confined Blue-Emitting Excitons in Chemically Configurable Multiquantum Wells. <i>ACS Nano</i> , 2021, 15, 4085-4092.	14.6	21
27	Anisotropic 2D excitons unveiled in organic-inorganic quantum wells. <i>Materials Horizons</i> , 2021, 8, 197-208.	12.2	17
28	Molecular Flux Dependence of Chemical Patterning by Microcontact Printing. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10310-10316.	8.0	12
29	Metal-Hydrogel-Assisted Synthesis and Direct Writing of Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019, 29, 1807612.	14.9	12
30	On the Conversion of Bauxite Ores to Highly Activated Alumina Media for Water Remediation. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900005.	5.3	11
31	Sterically Invariant Carborane-Based Ligands for the Morphological and Electronic Control of Metal-Organic Chalcogenolate Assemblies. <i>Chemistry of Materials</i> , 2022, 34, 6933-6943.	6.7	11
32	Competing Roles of Crystallization and Degradation of a Metal-Organic Chalcogenolate Assembly under Biphasic Solvothermal Conditions. <i>Langmuir</i> , 2018, 34, 14265-14273.	3.5	10
33	Corrosion of Late- and Post-Transition Metals into Metal-Organic Chalcogenolates and Implications for Nanodevice Architectures. <i>ACS Applied Nano Materials</i> , 2020, 3, 3568-3577.	5.0	9
34	Controlling the Schottky Barrier at the Pt/TiO ₂ Interface by Intercalation of a Self-Assembled Monolayer with Oriented Dipole Moments. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13984-13989.	3.1	7
35	Investigation of Nucleation and Growth at a Liquid-Liquid Interface by Solvent Exchange and Synchrotron Small-Angle X-Ray Scattering. <i>Frontiers in Chemistry</i> , 2021, 9, 593637.	3.6	5
36	High-fidelity chemical patterning on oxide-free germanium. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 164214.	1.8	2

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37	Nanometer-Thick Thiophene Monolayers as Templates for the Gas-Phase Epitaxy of Poly(3,4-Ethylenedioxythiophene) Films on Gold: Implications for Organic Electronics. ACS Applied Nano Materials, 2022, 5, 3194-3200.	5.0	1