Bethany M Hudak

List of Publications by Year in descending order

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933447 794594 30 376 10 19 citations h-index g-index papers 31 31 31 737 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Atom-by-atom fabrication with electron beams. Nature Reviews Materials, 2019, 4, 497-507.	48.7	73
2	Directed Atom-by-Atom Assembly of Dopants in Silicon. ACS Nano, 2018, 12, 5873-5879.	14.6	62
3	Real-time atomistic observation of structural phase transformations in individual hafnia nanorods. Nature Communications, 2017, 8, 15316.	12.8	59
4	Direct atomic fabrication and dopant positioning in Si using electron beams with active real-time image-based feedback. Nanotechnology, 2018, 29, 255303.	2.6	46
5	Shell-Induced Ostwald Ripening: Simultaneous Structure, Composition, and Morphology Transformations during the Creation of Hollow Iron Oxide Nanocapsules. ACS Nano, 2018, 12, 9051-9059.	14.6	36
6	Real-Time Observation of the Solid–Liquid–Vapor Dissolution of Individual Tin(IV) Oxide Nanowires. ACS Nano, 2014, 8, 5441-5448.	14.6	18
7	Simple synthetic route to manganese-containing nanowires with the spinel crystal structure. Journal of Solid State Chemistry, 2016, 240, 23-29.	2.9	15
8	Capacity and phase stability of metal-substituted α-Ni(OH) ₂ nanosheets in aqueous Ni–Zn batteries. Materials Advances, 2021, 2, 3060-3074.	5.4	13
9	Unveiling the Microscopic Origins of Phase Transformations: An <i>in Situ</i> TEM Perspective. Chemistry of Materials, 2020, 32, 639-650.	6.7	12
10	Detection of defects in atomic-resolution images of materials using cycle analysis. Advanced Structural and Chemical Imaging, 2020, 6, .	4.0	11
11	Mechanism of Electron-Beam Manipulation of Single-Dopant Atoms in Silicon. Journal of Physical Chemistry C, 2021, 125, 16041-16048.	3.1	10
12	Direct observation of Li diffusion in Li-doped ZnO nanowires. Materials Research Express, 2016, 3, 054001.	1.6	6
13	Co x Ni4â^'x Sb12â^'y Sn y skutterudites: processing and thermoelectric properties. Journal of Materials Science, 2016, 51, 6117-6132.	3.7	4
14	Sustainable Electrocatalytic Architectures Enable Rechargeable Zinc–Air Batteries with Low Voltage Hysteresis. ACS Applied Energy Materials, 2020, 3, 10485-10494.	5.1	3
15	Temperature Dependence of Impurity Distributions in Nanodiamonds as Revealed by Coordinated UHV-STEM EDX and EELS Analysis. Microscopy and Microanalysis, 2020, 26, 1506-1507.	0.4	2
16	Laser-Patterned Submicrometer Bi ₂ Se ₃ –WS ₂ Pixels with Tunable Circular Polarization at Room Temperature. ACS Applied Materials & Diverge 14, 9504-9514.	8.0	2
17	Observation of Square-Planar Distortion in Lanthanide-Doped Skutterudite Crystals. Journal of Physical Chemistry C, 2019, 123, 14632-14638.	3.1	1
18	Enhancing Li-ion capacity and rate capability in cation-defective vanadium ferrite aerogels via aluminum substitution. RSC Advances, 2021, 11, 14495-14503.	3.6	1

#	Article	IF	CITATIONS
19	Understanding nanomaterial synthesis with in situ transmission electron microscopy. Microscopy and Microanalysis, 2015, 21, 1507-1508.	0.4	O
20	Direct Observation of Hafnia Structural Phase Transformations. Microscopy and Microanalysis, 2017, 23, 2092-2093.	0.4	0
21	Movement and Imaging of Single-Atom Dopants in Silicon. Microscopy and Microanalysis, 2017, 23, 1706-1707.	0.4	0
22	Towards Atomic-Scale Fabrication in Silicon. Microscopy and Microanalysis, 2018, 24, 158-159.	0.4	0
23	Atomic Manipulation on a Scanning Transmission Electron Microscope Platform using Real-Time Image Processing and Feedback. Microscopy and Microanalysis, 2018, 24, 534-535.	0.4	0
24	Direct Imaging of Low-Dimensional Nanostructures. Microscopy and Microanalysis, 2018, 24, 90-91.	0.4	0
25	A STEM-based Path Towards Atomic-scale Silicon-based Devices. Microscopy and Microanalysis, 2019, 25, 2290-2291.	0.4	0
26	From Control of the Electron Beam to Control of Single Atoms. Microscopy and Microanalysis, 2019, 25, 1678-1679.	0.4	0
27	Evolution of lattice defects upon Bi-doping of epitaxial Si overlayers on Si(1 0 0). Applied Surface Science, 2020, 502, 144284.	6.1	0
28	Accurately Imaging, Tracking and Moving Single Atoms. Microscopy and Microanalysis, 2020, 26, 2556-2557.	0.4	0
29	Uncovering the Mechanism for Electron-beam Manipulation of Dopants in Silicon. Microscopy and Microanalysis, 2020, 26, 2560-2561.	0.4	0
30	Electron Beam Control of Dopants in 2D and 3D Materials. Microscopy and Microanalysis, 2021, 27, 2150-2153.	0.4	0