

# Benjamin H Savitzky

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,064  
citations

566801

15  
h-index

500791

28  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1878  
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge transport and localization in atomically coherent quantum dot solids. <i>Nature Materials</i> , 2016, 15, 557-563.	13.3	244
2	py4DSTEM: A Software Package for Four-Dimensional Scanning Transmission Electron Microscopy Data Analysis. <i>Microscopy and Microanalysis</i> , 2021, 27, 712-743.	0.2	121
3	Atomic lattice disorder in charge-density-wave phases of exfoliated dichalcogenides (1T-TaS) Tj ETQq1 1 0.784314 rgBT /Overlock 10 113, 11420-11424.	3.3	86
4	Mesophase Formation Stabilizes High-Purity Magic-Sized Clusters. <i>Journal of the American Chemical Society</i> , 2018, 140, 3652-3662.	6.6	71
5	Nature and evolution of incommensurate charge order in manganites visualized with cryogenic scanning transmission electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1445-1450.	3.3	68
6	Patterned probes for high precision 4D-STEM bragg measurements. <i>Ultramicroscopy</i> , 2020, 209, 112890.	0.8	61
7	Image registration of low signal-to-noise cryo-STEM data. <i>Ultramicroscopy</i> , 2018, 191, 56-65.	0.8	59
8	Colloidal Synthesis of PbS and PbS/CdS Nanosheets Using Acetate-Free Precursors. <i>Chemistry of Materials</i> , 2016, 28, 127-134.	3.2	51
9	Bending and breaking of stripes in a charge ordered manganite. <i>Nature Communications</i> , 2017, 8, 1883.	5.8	51
10	Propagation of Structural Disorder in Epitaxially Connected Quantum Dot Solids from Atomic to Micron Scale. <i>Nano Letters</i> , 2016, 16, 5714-5718.	4.5	43
11	Electric field control of chirality. <i>Science Advances</i> , 2022, 8, eabj8030.	4.7	35
12	Correlative image learning of chemo-mechanics in phase-transforming solids. <i>Nature Materials</i> , 2022, 21, 547-554.	13.3	27
13	Multiscale hierarchical structures from a nanocluster mesophase. <i>Nature Materials</i> , 2022, 21, 518-525.	13.3	27
14	Connectivity of centermost chromatophores in <i>Rhodobacter sphaeroides</i> bacteria. <i>Molecular Microbiology</i> , 2018, 109, 812-825.	1.2	24
15	Successive Ionic Layer Absorption and Reaction for Postassembly Control over Inorganic Interdot Bonds in Long-Range Ordered Nanocrystal Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 13500-13507.	4.0	18
16	Automated Crystal Orientation Mapping in py4DSTEM using Sparse Correlation Matching. <i>Microscopy and Microanalysis</i> , 2022, 28, 390-403.	0.2	17
17	Orientalional Disorder in Epitaxially Connected Quantum Dot Solids. <i>ACS Nano</i> , 2019, 13, 11460-11468.	7.3	12
18	The mesoscale order of nacreous pearls. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	12

#	ARTICLE	IF	CITATIONS
19	A Fast Algorithm for Scanning Transmission Electron Microscopy Imaging and 4D-STEM Diffraction Simulations. <i>Microscopy and Microanalysis</i> , 2021, 27, 835-848.	0.2	11
20	Cryogenic 4D-STEM analysis of an amorphous-crystalline polymer blend: Combined nanocrystalline and amorphous phase mapping. <i>IScience</i> , 2022, 25, 103882.	1.9	7
21	Strain Accommodation and Coherency in Laterally-Stitched WSe <sub>2</sub> /WS <sub>2</sub> Junctions. <i>Microscopy and Microanalysis</i> , 2016, 22, 870-871.	0.2	5
22	Correlative analysis of structure and chemistry of Li <sub>x</sub> FePO <sub>4</sub> platelets using 4D-STEM and X-ray ptychography. <i>Materials Today</i> , 2022, 52, 102-111.	8.3	4
23	Aberration-Corrected STEM/EELS at Cryogenic Temperatures. <i>Microscopy and Microanalysis</i> , 2017, 23, 428-429.	0.2	3
24	Three-Dimensional Arrangement and Connectivity of Lead-Chalcogenide Nanoparticle Assemblies for Next Generation Photovoltaics. <i>Microscopy and Microanalysis</i> , 2014, 20, 542-543.	0.2	2
25	4D &gt;Crystal: Deep Learning Crystallographic Information From Electron Diffraction Images. <i>Microscopy and Microanalysis</i> , 2021, 27, 2774-2776.	0.2	2
26	Long Range Order and Atomic Connectivity in Two-Dimensional Square PbSe Nanocrystal Superlattices. <i>Microscopy and Microanalysis</i> , 2015, 21, 1329-1330.	0.2	1
27	Low Temperature Electron Microscopy of $\epsilon$ -Charge-Ordered $\epsilon$ -Phases. <i>Microscopy and Microanalysis</i> , 2019, 25, 934-935.	0.2	1
28	Open-Source Tools and Containers for the Production of Large-Scale S/TEM Datasets. <i>Microscopy and Microanalysis</i> , 2021, 27, 62-63.	0.2	1
29	Quantitative, Real-Space Statistical Analysis of Imperfect Lattices. <i>Microscopy and Microanalysis</i> , 2016, 22, 892-893.	0.2	0
30	Mapping Periodic Lattice Distortions in Exfoliated Dichalcogenides with Atomic Resolution cryo-STEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 1550-1551.	0.2	0
31	Mapping Picometer Scale Periodic Lattice Distortions with Aberration Corrected Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 420-421.	0.2	0
32	Emergent Phase Coherence of Stripe Order in Manganites Revealed with Cryogenic Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 1630-1631.	0.2	0
33	Epitaxial Quantum Dot Superlattices: From Synthesis to Characterization to Electronic Structure. <i>Microscopy and Microanalysis</i> , 2017, 23, 1884-1885.	0.2	0
34	Probing the Atomic Lattice Response of Quantum Materials Across Phase Transitions. <i>Microscopy and Microanalysis</i> , 2018, 24, 80-81.	0.2	0
35	Tricky Registration for Unruly Data: Image Registration of Low-Signal-to-Noise Cryo-STEM Data. <i>Microscopy and Microanalysis</i> , 2018, 24, 518-519.	0.2	0
36	Image Registration of Low-Signal-to-Noise STEM Data with Open Source Software. <i>Microscopy and Microanalysis</i> , 2019, 25, 200-201.	0.2	0

#	ARTICLE	IF	CITATIONS
37	The evolution of an open source file format: a version control story. <i>Microscopy and Microanalysis</i> , 2021, 27, 1092-1094.	0.2	0
38	Using py4DSTEM in GMS: Hybrid Open-Source, Commercial-Freeware Methods for Analyzing 4D STEM Datasets. <i>Microscopy and Microanalysis</i> , 2021, 27, 1352-1354.	0.2	0