

# Georg Haberfehlner

## List of Publications by Year in descending order

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32  
papers

753  
citations

623734

14  
h-index

526287

27  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1233  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of bimetallic clusters in superfluid helium nanodroplets analysed by atomic resolution electron tomography. <i>Nature Communications</i> , 2015, 6, 8779.	12.8	90
2	Nanoscale voxel spectroscopy by simultaneous EELS and EDS tomography. <i>Nanoscale</i> , 2014, 6, 14563-14569.	5.6	71
3	Controlled Modulation of Diameter and Composition along Individual III-V Nitride Nanowires. <i>Nano Letters</i> , 2013, 13, 331-336.	9.1	69
4	3D analysis of advanced nano-devices using electron and atom probe tomography. <i>Ultramicroscopy</i> , 2014, 136, 185-192.	1.9	52
5	Synthesis of nanoparticles in helium droplets – A characterization comparing mass-spectra and electron microscopy data. <i>Journal of Chemical Physics</i> , 2015, 143, 134201.	3.0	52
6	Tomographic imaging of the photonic environment of plasmonic nanoparticles. <i>Nature Communications</i> , 2017, 8, 37.	12.8	51
7	Diffusion-defining atomic-scale spinodal decomposition within nanoprecipitates. <i>Nature Materials</i> , 2018, 17, 1101-1107.	27.5	43
8	Three-dimensional vectorial imaging of surface phonon polaritons. <i>Science</i> , 2021, 371, 1364-1367.	12.6	39
9	Correlated 3D Nanoscale Mapping and Simulation of Coupled Plasmonic Nanoparticles. <i>Nano Letters</i> , 2015, 15, 7726-7730.	9.1	35
10	3D Imaging of Gap Plasmons in Vertically Coupled Nanoparticles by EELS Tomography. <i>Nano Letters</i> , 2017, 17, 6773-6777.	9.1	31
11	Total generalized variation regularization for multi-modal electron tomography. <i>Nanoscale</i> , 2019, 11, 5617-5632.	5.6	27
12	Synthesis and morphology of iron-iron oxide core-shell nanoparticles produced by high pressure gas condensation. <i>Nanotechnology</i> , 2016, 27, 215703.	2.6	19
13	Quantitative EDXS: Influence of geometry on a four detector system. <i>Ultramicroscopy</i> , 2017, 172, 30-39.	1.9	17
14	In situ real-time annealing of ultrathin vertical Fe nanowires grown by focused electron beam induced deposition. <i>Acta Materialia</i> , 2019, 174, 379-386.	7.9	17
15	In depth nano spectroscopic analysis on homogeneously switching double barrier memristive devices. <i>Journal of Applied Physics</i> , 2017, 121, 245307.	2.5	14
16	In situ atomic-scale observation of oxidation and decomposition processes in nanocrystalline alloys. <i>Nature Communications</i> , 2018, 9, 946.	12.8	14
17	Correlation between sputter deposition parameters and I-V characteristics in double-barrier memristive devices. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 061203.	1.2	14
18	New Solar Cell – Battery Hybrid Energy System: Integrating Organic Photovoltaics with Li-Ion and Na-Ion Technologies. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 19155-19168.	6.7	14

#	ARTICLE	IF	CITATIONS
19	Thermal imaging of smart power DMOS transistors in the thermally unstable regime using a compact transient interferometric mapping system. <i>Microelectronics Reliability</i> , 2009, 49, 1346-1351.	1.7	11
20	Elucidation of Donor:Acceptor Phase Separation in Nonfullerene Organic Solar Cells and Its Implications on Device Performance and Charge Carrier Mobility. <i>ACS Applied Energy Materials</i> , 2019, 2, 7535-7545.	5.1	11
21	Benefits of direct electron detection and PCA for EELS investigation of organic photovoltaics materials. <i>Micron</i> , 2021, 140, 102981.	2.2	11
22	Selenium Segregation in Femtosecond-Laser Hyperdoped Silicon Revealed by Electron Tomography. <i>Microscopy and Microanalysis</i> , 2013, 19, 716-725.	0.4	10
23	Analyzing the Nanogranularity of Focused-Electron-Beam-Induced-Deposited Materials by Electron Tomography. <i>ACS Applied Nano Materials</i> , 2019, 2, 5356-5359.	5.0	9
24	3D spatial resolution improvement by dual-axis electron tomography: Application to tri-gate transistors. <i>Ultramicroscopy</i> , 2014, 136, 144-153.	1.9	8
25	Elemental Nanoanalysis of Interfacial Alumina-Fluoride Interactions in Fullerene-Free Organic Tandem Solar Cells. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901053.	3.7	8
26	Impact of nucleation conditions on diameter modulation of GaAs nanowires. <i>Nanotechnology</i> , 2015, 26, 225604.	2.6	5
27	Study on Ca Segregation toward an Epitaxial Interface between Bismuth Ferrite and Strontium Titanate. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 12264-12274.	8.0	5
28	Chemical homogeneity and optical properties of individual sodium tungsten bronze nanocubes. <i>Micron</i> , 2020, 139, 102926.	2.2	4
29	Development of Porosimetry Techniques for the Characterization of Plasma-Treated Porous Ultra Low-k Materials. <i>ECS Transactions</i> , 2011, 35, 729-746.	0.5	1
30	Analytical Electron Tomography: Methods and Applications. <i>Microscopy and Microanalysis</i> , 2015, 21, 2171-2172.	0.4	0
31	Three dimensional vectorial imaging of surface phonon polaritons. <i>Microscopy and Microanalysis</i> , 2021, 27, 698-699.	0.4	0
32	3D nanoscale elemental mapping of precipitates in steel: Evaluation of analytical electron tomography and comparison to atom probe tomography. <i>Micron</i> , 2022, 156, 103233.	2.2	0