

# Gerald Kothleitner

## List of Publications by Year in descending order

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33  
papers

1,002  
citations

623734

14  
h-index

454955

30  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1252  
citing authors

#	ARTICLE	IF	CITATIONS
1	Expanding FEBID-Based 3D-Nanoprinting toward Closed High-Fidelity Nanoarchitectures. ACS Applied Electronic Materials, 2022, 4, 744-754.	4.3	10
2	3D nanoscale elemental mapping of precipitates in steel: Evaluation of analytical electron tomography and comparison to atom probe tomography. Micron, 2022, 156, 103233.	2.2	0
3	Benefits of direct electron detection and PCA for EELS investigation of organic photovoltaics materials. Micron, 2021, 140, 102981.	2.2	11
4	Expanding 3D Nanoprinting Performance by Blurring the Electron Beam. Micromachines, 2021, 12, 115.	2.9	7
5	Chemolithotrophy on the Noachian Martian breccia NWA 7034 via experimental microbial biotransformation. Communications Earth & Environment, 2021, 2, .	6.8	14
6	Three-dimensional vectorial imaging of surface phonon polaritons. Science, 2021, 371, 1364-1367.	12.6	39
7	FEBID 3D-Nanoprinting at Low Substrate Temperatures: Pushing the Speed While Keeping the Quality. Nanomaterials, 2021, 11, 1527.	4.1	8
8	An In Situ Synchrotron Dilatometry and Atomistic Study of Martensite and Carbide Formation during Partitioning and Tempering. Materials, 2021, 14, 3849.	2.9	0
9	Crystal structures, electrical properties, and electron energy-loss spectroscopy of the sodium and potassium tetragonal tungsten bronzes. Journal of Alloys and Compounds, 2021, 868, 159200.	5.5	10
10	Shape evolution and growth mechanisms of 3D-printed nanowires. Additive Manufacturing, 2021, 46, 102076.	3.0	5
11	High-Fidelity 3D Nanoprinting of Plasmonic Gold Nanoantennas. ACS Applied Materials & Interfaces, 2021, 13, 1178-1191.	8.0	21
12	Persistent and reversible solid iodine electrodeposition in nanoporous carbons. Nature Communications, 2020, 11, 4838.	12.8	52
13	Elucidation of Donor:Acceptor Phase Separation in Nonfullerene Organic Solar Cells and Its Implications on Device Performance and Charge Carrier Mobility. ACS Applied Energy Materials, 2019, 2, 7535-7545.	5.1	11
14	Analyzing the Nanogranularity of Focused-Electron-Beam-Induced-Deposited Materials by Electron Tomography. ACS Applied Nano Materials, 2019, 2, 5356-5359.	5.0	9
15	Synthesis of nanosized vanadium( $v$ ) oxide clusters below 10 nm. Physical Chemistry Chemical Physics, 2019, 21, 21104-21108.	2.8	6
16	Helium nanodroplet assisted synthesis of bimetallic Ag@Au nanoparticles with tunable localized surface plasmon resonance. European Physical Journal D, 2019, 73, 1.	1.3	8
17	Total generalized variation regularization for multi-modal electron tomography. Nanoscale, 2019, 11, 5617-5632.	5.6	27
18	The impact of swift electrons on the segregation of Ni-Au nanoalloys. Applied Physics Letters, 2019, 115, 123103.	3.3	6

#	ARTICLE	IF	CITATIONS
19	Ultra-thin h-BN substrates for nanoscale plasmon spectroscopy. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	8
20	10.1063/1.5093472.1. , 2019, , .		0
21	Tunable 3D Nanoresonators for Gasâ€ Sensing Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1707387.	14.9	40
22	Diffusion-defining atomic-scale spinodal decomposition within nanoprecipitates. <i>Nature Materials</i> , 2018, 17, 1101-1107.	27.5	43
23	Adatom dynamics and the surface reconstruction of Si(110) revealed using time-resolved electron microscopy. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	9
24	Direct-Write 3D Nanoprinting of Plasmonic Structures. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8233-8240.	8.0	125
25	Transformation dynamics of Ni clusters into NiO rings under electron beam irradiation. <i>Ultramicroscopy</i> , 2017, 176, 105-111.	1.9	10
26	3D Imaging of Gap Plasmons in Vertically Coupled Nanoparticles by EELS Tomography. <i>Nano Letters</i> , 2017, 17, 6773-6777.	9.1	31
27	Tomographic imaging of the photonic environment of plasmonic nanoparticles. <i>Nature Communications</i> , 2017, 8, 37.	12.8	51
28	Formation of bimetallic clusters in superfluid helium nanodroplets analysed by atomic resolution electron tomography. <i>Nature Communications</i> , 2015, 6, 8779.	12.8	90
29	Correlated 3D Nanoscale Mapping and Simulation of Coupled Plasmonic Nanoparticles. <i>Nano Letters</i> , 2015, 15, 7726-7730.	9.1	35
30	Nanoscale voxel spectroscopy by simultaneous EELS and EDS tomography. <i>Nanoscale</i> , 2014, 6, 14563-14569.	5.6	71
31	Three dimensional quantitative characterization of magnetite nanoparticles embedded in mesoporous silicon: local curvature, demagnetizing factors and magnetic Monte Carlo simulations. <i>Nanoscale</i> , 2013, 5, 11944.	5.6	9
32	Optimization of postgrowth electron-beam curing for focused electron-beam-induced Pt deposits. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, .	1.2	54
33	Quantitative analysis of EFTEM elemental distribution images. <i>Ultramicroscopy</i> , 1997, 67, 83-103.	1.9	182