Samuel Berweger

List of Publications by Year
in descending order

31 papers	1,982 citations	331670 21 h-index	477307 29 g-index
31 all docs	31 docs citations	31 times ranked	3138 citing authors

#	Article	IF	Citations
1	Imaging of magnetic excitations in nanostructures with near-field microwave microscopy. Journal of Magnetism and Magnetic Materials, 2022, 546, 168870.	2.3	1
2	Nanoscale Photoexcited Carrier Dynamics in Perovskites. Journal of Physical Chemistry Letters, 2022, 13, 2388-2395.	4.6	3
3	Direct Growth and Fabrication of Tungsten Coated GaN Nanowire Probes on Cantilevers for Scanning Probe Microscopy. Journal of Microelectromechanical Systems, 2022, 31, 483-485.	2.5	0
4	Rydberg atom-based field sensing enhancement using a split-ring resonator. Applied Physics Letters, 2022, 120, .	3.3	22
5	Electrostatic tip effects in scanning probe microscopy of nanostructures. Nanotechnology, 2021, 32, 195710.	2.6	6
6	Substrate-enhanced photothermal nano-imaging of surface polaritons in monolayer graphene. APL Photonics, 2021, 6, 041301.	5.7	7
7	Enhancement of electromagnetically induced transparency based Rydberg-atom electrometry through population repumping. Applied Physics Letters, 2021, 119, .	3.3	32
8	Spatially Resolved Persistent Photoconductivity in MoS₂â€“WS₂ Lateral Heterostructures. ACS Nano, 2020, 14, 14080-14090.	14.6	36
9	Nanoelectronic Characterization: Using Near-Field Microwave Microscopy for Nanotechnological Research. IEEE Microwave Magazine, 2020, 21, 36-51.	0.8	8
10	Crystallographic polarity measurements in two-terminal GaN nanowire devices by lateral piezoresponse force microscopy. Nanotechnology, 2020, 31, 424002.	2.6	2
11	Microscopic origin of inhomogeneous transport in four-terminal tellurene devices. Applied Physics Letters, 2020, 117, .	3.3	0
12	Imaging Carrier Inhomogeneities in Ambipolar Tellurene Field Effect Transistors. Nano Letters, 2019, 19, 1289-1294.	9.1	31
13	Electronic and Morphological Inhomogeneities in Pristine and Deteriorated Perovskite Photovoltaic Films. Nano Letters, 2017, 17, 1796-1801.	9.1	25
14	Near-field control and imaging of free charge carrier variations in GaN nanowires. Applied Physics Letters, 2016, 108, .	3.3	16
15	Methylammonium lead iodide grain boundaries exhibit depth-dependent electrical properties. Energy and Environmental Science, 2016, 9, 3642-3649.	30.8	47
16	Microwave Near-Field Imaging of Two-Dimensional Semiconductors. Nano Letters, 2015, 15, 1122-1127.	9.1	42
17	Amplitude- and Phase-Resolved Nanospectral Imaging of Phonon Polaritons in Hexagonal Boron Nitride. ACS Photonics, 2015, 2, 790-796.	6.6	115
18	GaN nanowire coated with atomic layer deposition of tungsten: a probe for near-field scanning microwave microscopy. Nanotechnology, 2014, 25, 415502.	2.6	5

#	Article	IF	Citations
19	Phase-Resolved Surface Plasmon Interferometry of Graphene. Physical Review Letters, 2014, 113, 055502.	7.8	116
20	Control of Plasmon Emission and Dynamics at the Transition from Classical to Quantum Coupling. Nano Letters, 2014, 14, 5270-5275.	9.1	78
21	Nano-Chemical Infrared Imaging of Membrane Proteins in Lipid Bilayers. Journal of the American Chemical Society, 2013, 135, 18292-18295.	13.7	99
22	Nano-optical imaging and spectroscopy of order, phases, and domains in complex solids. Advances in Physics, 2012, 61, 745-842.	14.4	196
23	Light on the Tip of a Needle: Plasmonic Nanofocusing for Spectroscopy on the Nanoscale. Journal of Physical Chemistry Letters, 2012, 3, 945-952.	4.6	159
24	Femtosecond Nanofocusing with Full Optical Waveform Control. Nano Letters, 2011, 11, 4309-4313.	9.1	134
25	Signal limitations in tip-enhanced Raman scattering: the challenge to become a routine analytical technique. Analytical and Bioanalytical Chemistry, 2010, 396, 115-123.	3.7	42
26	Nano-optical Investigations of the Metalâ^'Insulator Phase Behavior of Individual VO₂ Microcrystals. Nano Letters, 2010, 10, 1574-1581.	9.1	230
27	Adiabatic Tip-Plasmon Focusing for Nano-Raman Spectroscopy. Journal of Physical Chemistry Letters, 2010, 1, 3427-3432.	4.6	154
28	Near-Field Localization in Plasmonic Superfocusing: A Nanoemitter on a Tip. Nano Letters, 2010, 10, 592-596.	9.1	174
29	Synthesis of single-crystalline one-dimensional LiNbO3 nanowires. CrystEngComm, 2010, 12, 2675.	2.6	44
30	Optical nanocrystallography with tip-enhanced phonon Raman spectroscopy. Nature Nanotechnology, 2009, 4, 496-499.	31.5	106
31	Tip-Enhanced Raman Imaging and Nanospectroscopy: Sensitivity, Symmetry, and Selection Rules. Nanobiotechnology, 2007, 3, 172-196.	1.2	52