Samuel Berweger

List of Publications by Year
in descending order

31	1,982	331538 21	477173 29
papers	citations	h-index	g-index

31	31	31	3138
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nano-optical Investigations of the Metalâ^'Insulator Phase Behavior of Individual VO₂ Microcrystals. Nano Letters, 2010, 10, 1574-1581.	4.5	230
2	Nano-optical imaging and spectroscopy of order, phases, and domains in complex solids. Advances in Physics, 2012, 61, 745-842.	35.9	196
3	Near-Field Localization in Plasmonic Superfocusing: A Nanoemitter on a Tip. Nano Letters, 2010, 10, 592-596.	4.5	174
4	Light on the Tip of a Needle: Plasmonic Nanofocusing for Spectroscopy on the Nanoscale. Journal of Physical Chemistry Letters, 2012, 3, 945-952.	2.1	159
5	Adiabatic Tip-Plasmon Focusing for Nano-Raman Spectroscopy. Journal of Physical Chemistry Letters, 2010, 1, 3427-3432.	2.1	154
6	Femtosecond Nanofocusing with Full Optical Waveform Control. Nano Letters, 2011, 11, 4309-4313.	4.5	134
7	Phase-Resolved Surface Plasmon Interferometry of Graphene. Physical Review Letters, 2014, 113, 055502.	2.9	116
8	Amplitude- and Phase-Resolved Nanospectral Imaging of Phonon Polaritons in Hexagonal Boron Nitride. ACS Photonics, 2015, 2, 790-796.	3.2	115
9	Optical nanocrystallography with tip-enhanced phonon Raman spectroscopy. Nature Nanotechnology, 2009, 4, 496-499.	15.6	106
10	Nano-Chemical Infrared Imaging of Membrane Proteins in Lipid Bilayers. Journal of the American Chemical Society, 2013, 135, 18292-18295.	6.6	99
11	Control of Plasmon Emission and Dynamics at the Transition from Classical to Quantum Coupling. Nano Letters, 2014, 14, 5270-5275.	4.5	78
12	Tip-Enhanced Raman Imaging and Nanospectroscopy: Sensitivity, Symmetry, and Selection Rules. Nanobiotechnology, 2007, 3, 172-196.	1.2	52
13	Methylammonium lead iodide grain boundaries exhibit depth-dependent electrical properties. Energy and Environmental Science, 2016, 9, 3642-3649.	15.6	47
14	Synthesis of single-crystalline one-dimensional LiNbO3 nanowires. CrystEngComm, 2010, 12, 2675.	1.3	44
15	Signal limitations in tip-enhanced Raman scattering: the challenge to become a routine analytical technique. Analytical and Bioanalytical Chemistry, 2010, 396, 115-123.	1.9	42
16	Microwave Near-Field Imaging of Two-Dimensional Semiconductors. Nano Letters, 2015, 15, 1122-1127.	4.5	42
17	Spatially Resolved Persistent Photoconductivity in MoS₂â€“WS₂ Lateral Heterostructures. ACS Nano, 2020, 14, 14080-14090.	7.3	36
18	Enhancement of electromagnetically induced transparency based Rydberg-atom electrometry through population repumping. Applied Physics Letters, 2021, 119, .	1.5	32

#	Article	IF	Citations
19	Imaging Carrier Inhomogeneities in Ambipolar Tellurene Field Effect Transistors. Nano Letters, 2019, 19, 1289-1294.	4.5	31
20	Electronic and Morphological Inhomogeneities in Pristine and Deteriorated Perovskite Photovoltaic Films. Nano Letters, 2017, 17, 1796-1801.	4.5	25
21	Rydberg atom-based field sensing enhancement using a split-ring resonator. Applied Physics Letters, 2022, 120, .	1.5	22
22	Near-field control and imaging of free charge carrier variations in GaN nanowires. Applied Physics Letters, 2016, 108, .	1.5	16
23	Nanoelectronic Characterization: Using Near-Field Microwave Microscopy for Nanotechnological Research. IEEE Microwave Magazine, 2020, 21, 36-51.	0.7	8
24	Substrate-enhanced photothermal nano-imaging of surface polaritons in monolayer graphene. APL Photonics, 2021, 6, 041301.	3.0	7
25	Electrostatic tip effects in scanning probe microscopy of nanostructures. Nanotechnology, 2021, 32, 195710.	1.3	6
26	GaN nanowire coated with atomic layer deposition of tungsten: a probe for near-field scanning microwave microscopy. Nanotechnology, 2014, 25, 415502.	1.3	5
27	Nanoscale Photoexcited Carrier Dynamics in Perovskites. Journal of Physical Chemistry Letters, 2022, 13, 2388-2395.	2.1	3
28	Crystallographic polarity measurements in two-terminal GaN nanowire devices by lateral piezoresponse force microscopy. Nanotechnology, 2020, 31, 424002.	1.3	2
29	Imaging of magnetic excitations in nanostructures with near-field microwave microscopy. Journal of Magnetism and Magnetic Materials, 2022, 546, 168870.	1.0	1
30	Microscopic origin of inhomogeneous transport in four-terminal tellurene devices. Applied Physics Letters, 2020, 117, .	1.5	0
31	Direct Growth and Fabrication of Tungsten Coated GaN Nanowire Probes on Cantilevers for Scanning Probe Microscopy. Journal of Microelectromechanical Systems, 2022, 31, 483-485.	1.7	0