

# Samuel Berweger

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Nano-optical Investigations of the Metal-Insulator Phase Behavior of Individual VO <sub>2</sub> Microcrystals. Nano Letters, 2010, 10, 1574-1581.	9.1	230
2	Nano-optical imaging and spectroscopy of order, phases, and domains in complex solids. Advances in Physics, 2012, 61, 745-842.	14.4	196
3	Near-Field Localization in Plasmonic Superfocusing: A Nanoemitter on a Tip. Nano Letters, 2010, 10, 592-596.	9.1	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.	4.6	159
5	Adiabatic Tip-Plasmon Focusing for Nano-Raman Spectroscopy. Journal of Physical Chemistry Letters, 2010, 1, 3427-3432.	4.6	154
6	Femtosecond Nanofocusing with Full Optical Waveform Control. Nano Letters, 2011, 11, 4309-4313.	9.1	134
7	Phase-Resolved Surface Plasmon Interferometry of Graphene. Physical Review Letters, 2014, 113, 055502.	7.8	116
8	Amplitude- and Phase-Resolved Nanospectral Imaging of Phonon Polaritons in Hexagonal Boron Nitride. ACS Photonics, 2015, 2, 790-796.	6.6	115
9	Optical nanocrystallography with tip-enhanced phonon Raman spectroscopy. Nature Nanotechnology, 2009, 4, 496-499.	31.5	106
10	Nano-Chemical Infrared Imaging of Membrane Proteins in Lipid Bilayers. Journal of the American Chemical Society, 2013, 135, 18292-18295.	13.7	99
11	Control of Plasmon Emission and Dynamics at the Transition from Classical to Quantum Coupling. Nano Letters, 2014, 14, 5270-5275.	9.1	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.	30.8	47
14	Synthesis of single-crystalline one-dimensional LiNbO <sub>3</sub> nanowires. CrystEngComm, 2010, 12, 2675.	2.6	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.	3.7	42
16	Microwave Near-Field Imaging of Two-Dimensional Semiconductors. Nano Letters, 2015, 15, 1122-1127.	9.1	42
17	Spatially Resolved Persistent Photoconductivity in MoS <sub>2</sub> WS <sub>2</sub> Lateral Heterostructures. ACS Nano, 2020, 14, 14080-14090.	14.6	36
18	Enhancement of electromagnetically induced transparency based Rydberg-atom electrometry through population repumping. Applied Physics Letters, 2021, 119, .	3.3	32

#	ARTICLE	IF	CITATIONS
19	Imaging Carrier Inhomogeneities in Ambipolar Tellurene Field Effect Transistors. Nano Letters, 2019, 19, 1289-1294.	9.1	31
20	Electronic and Morphological Inhomogeneities in Pristine and Deteriorated Perovskite Photovoltaic Films. Nano Letters, 2017, 17, 1796-1801.	9.1	25
21	Rydberg atom-based field sensing enhancement using a split-ring resonator. Applied Physics Letters, 2022, 120, .	3.3	22
22	Near-field control and imaging of free charge carrier variations in GaN nanowires. Applied Physics Letters, 2016, 108, .	3.3	16
23	Nanoelectronic Characterization: Using Near-Field Microwave Microscopy for Nanotechnological Research. IEEE Microwave Magazine, 2020, 21, 36-51.	0.8	8
24	Substrate-enhanced photothermal nano-imaging of surface polaritons in monolayer graphene. APL Photonics, 2021, 6, 041301.	5.7	7
25	Electrostatic tip effects in scanning probe microscopy of nanostructures. Nanotechnology, 2021, 32, 195710.	2.6	6
26	GaN nanowire coated with atomic layer deposition of tungsten: a probe for near-field scanning microwave microscopy. Nanotechnology, 2014, 25, 415502.	2.6	5
27	Nanoscale Photoexcited Carrier Dynamics in Perovskites. Journal of Physical Chemistry Letters, 2022, 13, 2388-2395.	4.6	3
28	Crystallographic polarity measurements in two-terminal GaN nanowire devices by lateral piezoresponse force microscopy. Nanotechnology, 2020, 31, 424002.	2.6	2
29	Imaging of magnetic excitations in nanostructures with near-field microwave microscopy. Journal of Magnetism and Magnetic Materials, 2022, 546, 168870.	2.3	1
30	Microscopic origin of inhomogeneous transport in four-terminal tellurene devices. Applied Physics Letters, 2020, 117, .	3.3	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.	2.5	0