Brian T O'callahan

List of Publications by Year
in descending order

21 papers	590 citations	687363 13 h-index	713466 21 g-index
21 all docs	21 docs citations	21 times ranked	1075 citing authors

#	Article	IF	Citations
1	High-Resolution Raman Nano-Imaging with an Imperfect Probe. Journal of Physical Chemistry C, 2022, 126, 4089-4094.	3.1	6
2	A Closer Look at Tip-Enhanced Raman Chemical Reaction Nanoimages. Journal of Physical Chemistry Letters, 2022, 13, 3886-3889.	4.6	10
3	Atomistic understanding of extreme strain shear deformation of Copper-Graphene composites. Carbon, 2022, 198, 63-69.	10.3	5
4	Mapping Molecular Adsorption Configurations with <5 nm Spatial Resolution through Ambient Tip-Enhanced Raman Imaging. Journal of Physical Chemistry Letters, 2021, 12, 3586-3590.	4.6	10
5	Nanoindentation-enhanced tip-enhanced Raman spectroscopy. Journal of Chemical Physics, 2021, 154, 241101.	3.0	6
6	Atomic Force Microscopy and Infrared Nanospectroscopy of COVID-19 Spike Protein for the Quantification of Adhesion to Common Surfaces. Langmuir, 2021, 37, 12089-12097.	3.5	5
7	In Liquid Infrared Scattering Scanning Near-Field Optical Microscopy for Chemical and Biological Nanoimaging. Nano Letters, 2020, 20, 4497-4504.	9.1	31
8	Tip-Enhanced Multipolar Raman Scattering. Journal of Physical Chemistry Letters, 2020, 11, 2464-2469.	4.6	25
9	Spatio-Spectral Characterization of Multipolar Plasmonic Modes of Au Nanorods via Tip-Enhanced Raman Scattering. Journal of Physical Chemistry Letters, 2020, 11, 2870-2874.	4.6	18
10	Power-Dependent Dual Analyte Tip-Enhanced Raman Spectral Imaging. Journal of Physical Chemistry C, 2020, 124, 15454-15459.	3.1	4
11	Suppressing Molecular Charging, Nanochemistry, and Optical Rectification in the Tip-Enhanced Raman Geometry. Journal of Physical Chemistry Letters, 2020, 11, 5890-5895.	4.6	27
12	The Prevalence of Anions at Plasmonic Nanojunctions: A Closer Look at p-Nitrothiophenol. Journal of Physical Chemistry Letters, 2020, 11, 3809-3814.	4.6	30
13	Anisotropic Flow Control and Gate Modulation of Hybrid Phonon-Polaritons. Nano Letters, 2019, 19, 708-715.	9.1	29
14	Ultrasensitive Tip- and Antenna-Enhanced Infrared Nanoscopy of Protein Complexes. Journal of Physical Chemistry C, 2019, 123, 17505-17509.	3.1	20
15	Imaging Nanoscale Heterogeneity in Ultrathin Biomimetic and Biological Crystals. Journal of Physical Chemistry C, 2018, 122, 24891-24895.	3.1	10
16	Photoinduced Tipâ€“Sample Forces for Chemical Nanoimaging and Spectroscopy. Nano Letters, 2018, 18, 5499-5505.	9.1	35
17	Laser heating of scanning probe tips for thermal near-field spectroscopy and imaging. APL Photonics, 2017, 2, .	5.7	15
18	Ultrafast Nanoimaging of the Photoinduced Phase Transition Dynamics in VO₂. Nano Letters, 2016, 16, 3029-3035.	9.1	84

#	Article	IF	Citations
19	Broadband infrared vibrational nano-spectroscopy using thermal blackbody radiation. Optics Express, 2015, 23, 32063.	3.4	17
20	Inhomogeneity of the ultrafast insulator-to-metal transition dynamics of VO2. Nature Communications, 2015, 6, 6849.	12.8	134
21	The thermal near-field: Coherence, spectroscopy, heat-transfer, and optical forces. Progress in Surface Science, 2013, 88, 349-392.	8.3	69