

Brian T O'callahan

List of Publications by Year in descending order

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Version: 2024-02-01

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	Inhomogeneity of the ultrafast insulator-to-metal transition dynamics of VO ₂ . Nature Communications, 2015, 6, 6849.	12.8	134
2	Ultrafast Nanoimaging of the Photoinduced Phase Transition Dynamics in VO ₂ . Nano Letters, 2016, 16, 3029-3035.	9.1	84
3	The thermal near-field: Coherence, spectroscopy, heat-transfer, and optical forces. Progress in Surface Science, 2013, 88, 349-392.	8.3	69
4	Photoinduced Tip-Sample Forces for Chemical Nanoimaging and Spectroscopy. Nano Letters, 2018, 18, 5499-5505.	9.1	35
5	In Liquid Infrared Scattering Scanning Near-Field Optical Microscopy for Chemical and Biological Nanoimaging. Nano Letters, 2020, 20, 4497-4504.	9.1	31
6	The Prevalence of Anions at Plasmonic Nanojunctions: A Closer Look at <i>p</i> -Nitrothiophenol. Journal of Physical Chemistry Letters, 2020, 11, 3809-3814.	4.6	30
7	Anisotropic Flow Control and Gate Modulation of Hybrid Phonon-Polaritons. Nano Letters, 2019, 19, 708-715.	9.1	29
8	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
9	Tip-Enhanced Multipolar Raman Scattering. Journal of Physical Chemistry Letters, 2020, 11, 2464-2469.	4.6	25
10	Ultrasensitive Tip- and Antenna-Enhanced Infrared Nanoscopy of Protein Complexes. Journal of Physical Chemistry C, 2019, 123, 17505-17509.	3.1	20
11	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
12	Broadband infrared vibrational nano-spectroscopy using thermal blackbody radiation. Optics Express, 2015, 23, 32063.	3.4	17
13	Laser heating of scanning probe tips for thermal near-field spectroscopy and imaging. APL Photonics, 2017, 2, .	5.7	15
14	Imaging Nanoscale Heterogeneity in Ultrathin Biomimetic and Biological Crystals. Journal of Physical Chemistry C, 2018, 122, 24891-24895.	3.1	10
15	Mapping Molecular Adsorption Configurations with $\lt; 5\text{ nm}$ Spatial Resolution through Ambient Tip-Enhanced Raman Imaging. Journal of Physical Chemistry Letters, 2021, 12, 3586-3590.	4.6	10
16	A Closer Look at Tip-Enhanced Raman Chemical Reaction Nanoimages. Journal of Physical Chemistry Letters, 2022, 13, 3886-3889.	4.6	10
17	Nanoindentation-enhanced tip-enhanced Raman spectroscopy. Journal of Chemical Physics, 2021, 154, 241101.	3.0	6
18	High-Resolution Raman Nano-Imaging with an Imperfect Probe. Journal of Physical Chemistry C, 2022, 126, 4089-4094.	3.1	6

#	ARTICLE	IF	CITATIONS
19	Atomic Force Microscopy and Infrared Nanospectroscopy of COVID-19 Spike Protein for the Quantification of Adhesion to Common Surfaces. <i>Langmuir</i> , 2021, 37, 12089-12097.	3.5	5
20	Atomistic understanding of extreme strain shear deformation of Copper-Graphene composites. <i>Carbon</i> , 2022, 198, 63-69.	10.3	5
21	Power-Dependent Dual Analyte Tip-Enhanced Raman Spectral Imaging. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15454-15459.	3.1	4