Hilton B De Aguiar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3557080/publications.pdf

Version: 2024-02-01

38 papers	1,268 citations	361413 20 h-index	361022 35 g-index
43 all docs	43 docs citations	43 times ranked	1489 citing authors

#	Article	IF	Citations
1	The Orientation and Charge of Water at the Hydrophobic Oil Dropletâ€“Water Interface. Journal of the American Chemical Society, 2011, 133, 10204-10210.	13.7	213
2	Surface Structure of Sodium Dodecyl Sulfate Surfactant and Oil at the Oil-in-Water Droplet Liquid/Liquid Interface: A Manifestation of a Nonequilibrium Surface State. Journal of Physical Chemistry B, 2011, 115, 2970-2978.	2.6	121
3	The Interfacial Tension of Nanoscopic Oil Droplets in Water Is Hardly Affected by SDS Surfactant. Journal of the American Chemical Society, 2010, 132, 2122-2123.	13.7	113
4	Specific Ion Effects in Amphiphile Hydration and Interface Stabilization. Journal of the American Chemical Society, 2014, 136, 2040-2047.	13.7	85
5	Polarization recovery through scattering media. Science Advances, 2017, 3, e1600743.	10.3	60
6	Water Structure, Dynamics, and Sum-Frequency Generation Spectra at Electrified Graphene Interfaces. Journal of Physical Chemistry Letters, 2020, 11, 624-631.	4.6	45
7	Comparison of scattering and reflection SFG: a question of phase-matching. Physical Chemistry Chemical Physics, 2012, 14, 6826.	2.8	40
8	Nonlinear light scattering from clusters and single particles. Journal of Chemical Physics, 2009, 130, 214710.	3.0	39
9	Generation and application of high power femtosecond pulses in the vibrational fingerprint region. Applied Physics B: Lasers and Optics, 2008, 91, 315-318.	2.2	38
10	Programmable single-pixel-based broadband stimulated Raman scattering. Optics Letters, 2017, 42, 1696.	3.3	37
11	Detection of Buried Microstructures by Nonlinear Light Scattering Spectroscopy. Physical Review Letters, 2009, 102, 095502.	7.8	36
12	Assessment of Compressive Raman versus Hyperspectral Raman for Microcalcification Chemical Imaging. Analytical Chemistry, 2018, 90, 7197-7203.	6.5	34
13	Enhanced nonlinear imaging through scattering media using transmission-matrix-based wave-front shaping. Physical Review A, 2016, 94, .	2.5	30
14	Lipid Order Degradation in Autoimmune Demyelination Probed by Polarized Coherent Raman Microscopy. Biophysical Journal, 2017, 113, 1520-1530.	0.5	30
15	Molecular Imaging of Cholesterol and Lipid Distributions in Model Membranes. Journal of Physical Chemistry Letters, 2018, 9, 1528-1533.	4.6	30
16	Adsorption of Alkylthiol Self-Assembled Monolayers on Gold and the Effect of Substrate Roughness: A Comparative Study Using Scanning Tunneling Microscopy, Cyclic Voltammetry, Second-Harmonic Generation, and Sum-Frequency Generation. Journal of Physical Chemistry C, 2014, 118, 20374-20382.	3.1	29
17	Fast compressive Raman bio-imaging via matrix completion. Optica, 2019, 6, 341.	9.3	29
18	Probing nanoscopic droplet interfaces in aqueous solution with vibrational sum-frequency scattering: A study of the effects of path length, droplet density and pulse energy. Chemical Physics Letters, 2011, 512, 76-80.	2.6	28

#	Article	IF	Citations
19	Roadmap on chaos-inspired imaging technologies (CI2-Tech). Applied Physics B: Lasers and Optics, 2022, 128, 1.	2.2	27
20	Label-free spectroscopic detection of vesicles in water using vibrational sum frequency scattering. Soft Matter, 2011, 7, 4959.	2.7	25
21	Temporal recompression through a scattering medium via a broadband transmission matrix. Optica, 2017, 4, 1289.	9.3	22
22	Quantitative analysis of light scattering in polarization-resolved nonlinear microscopy. Optics Express, 2015, 23, 8960.	3.4	19
23	Surface enhanced Raman spectroscopy analysis of the adsorption of 2-thiouracil to Au, Ag and Cu electrodes: Surface potential dependence. Vibrational Spectroscopy, 2006, 40, 127-132.	2.2	18
24	Precision of proportion estimation with binary compressed Raman spectrum. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 125.	1.5	18
25	On the stability and necessary electrophoretic mobility of bare oil nanodroplets in water. Journal of Chemical Physics, 2020, 152, 241104.	3.0	18
26	High-Sensitivity High-Speed Compressive Spectrometer for Raman Imaging. ACS Photonics, 2019, 6, 1409-1415.	6.6	16
27	Focusing large spectral bandwidths through scattering media. Optics Express, 2019, 27, 28384.	3.4	15
28	Multimodal Miniature Surface Forces Apparatus (Î¼SFA) for Interfacial Science Measurements. Langmuir, 2019, 35, 15500-15514.	3.5	12
29	The Presence of Ultralow Densities of Nanocrystallites in Amorphous Poly(lactic acid) Microspheres. Journal of Physical Chemistry B, 2013, 117, 8906-8910.	2.6	9
30	Adsorption Behavior of 5-Fluorouracil on Au(111): An In Situ STM Study. Journal of Physical Chemistry C, 2010, 114, 6663-6670.	3.1	8
31	Interface-Sensitive Raman Microspectroscopy of Water via Confinement with a Multimodal Miniature Surface Forces Apparatus. Langmuir, 2019, 35, 15543-15551.	3.5	8
32	Publisher's Note: Enhanced nonlinear imaging through scattering media using transmission-matrix-based wave-front shaping [Phys. Rev. A 94 , 043830 (2016)]. Physical Review A, 2016, 94, .	2.5	2
33	Spectrally resolved point-spread-function engineering using a complex medium. Optics Express, 2021, 29, 8985.	3.4	2
34	Non-invasive chemically selective energy delivery and focusing inside a scattering medium guided by Raman scattering. Optics Letters, 2022, 47, 2145-2148.	3.3	2
35	Sum-frequency vibrational spectroscopy of self-assembled ultrathin organic layers. , 2007, , .		0
36	Structural microscopy via engineered scattered light. , 2017, , .		0

#	Article	IF	Citations
37	Nonlinear Optical Microscopy with Few-Cycle Laser Pulses. , 2013, , .		0
38	Compressive Raman microspectroscopy. , 2022, , 371-382.		0