Hilton B De Aguiar

List of Publications by Year
in descending order

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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	Compressive Raman microspectroscopy. , 2022, , 371-382.		0
2	Roadmap on chaos-inspired imaging technologies (CI2-Tech). Applied Physics B: Lasers and Optics, 2022, 128, 1.	2.2	27
3	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
4	Spectrally resolved point-spread-function engineering using a complex medium. Optics Express, 2021, 29, 8985.	3.4	2
5	Water Structure, Dynamics, and Sum-Frequency Generation Spectra at Electrified Graphene Interfaces. Journal of Physical Chemistry Letters, 2020, 11, 624-631.	4.6	45
6	On the stability and necessary electrophoretic mobility of bare oil nanodroplets in water. Journal of Chemical Physics, 2020, 152, 241104.	3.0	18
7	Interface-Sensitive Raman Microspectroscopy of Water via Confinement with a Multimodal Miniature Surface Forces Apparatus. Langmuir, 2019, 35, 15543-15551.	3.5	8
8	Multimodal Miniature Surface Forces Apparatus (Î¼SFA) for Interfacial Science Measurements. Langmuir, 2019, 35, 15500-15514.	3.5	12
9	High-Sensitivity High-Speed Compressive Spectrometer for Raman Imaging. ACS Photonics, 2019, 6, 1409-1415.	6.6	16
10	Focusing large spectral bandwidths through scattering media. Optics Express, 2019, 27, 28384.	3.4	15
11	Fast compressive Raman bio-imaging via matrix completion. Optica, 2019, 6, 341.	9.3	29
12	Molecular Imaging of Cholesterol and Lipid Distributions in Model Membranes. Journal of Physical Chemistry Letters, 2018, 9, 1528-1533.	4.6	30
13	Assessment of Compressive Raman versus Hyperspectral Raman for Microcalcification Chemical Imaging. Analytical Chemistry, 2018, 90, 7197-7203.	6.5	34
14	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
15	Lipid Order Degradation in Autoimmune Demyelination Probed by Polarized Coherent Raman Microscopy. Biophysical Journal, 2017, 113, 1520-1530.	0.5	30
16	Polarization recovery through scattering media. Science Advances, 2017, 3, e1600743.	10.3	60
17	Structural microscopy via engineered scattered light. , 2017, , .		0
18	Temporal recompression through a scattering medium via a broadband transmission matrix. Optica, 2017, 4, 1289.	9.3	22

#	Article	IF	Citations
19	Programmable single-pixel-based broadband stimulated Raman scattering. Optics Letters, 2017, 42, 1696.	3.3	37
20	Enhanced nonlinear imaging through scattering media using transmission-matrix-based wave-front shaping. Physical Review A, 2016, 94, .	2.5	30
21	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
22	Quantitative analysis of light scattering in polarization-resolved nonlinear microscopy. Optics Express, 2015, 23, 8960.	3.4	19
23	Specific Ion Effects in Amphiphile Hydration and Interface Stabilization. Journal of the American Chemical Society, 2014, 136, 2040-2047.	13.7	85
24	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
25	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
26	Nonlinear Optical Microscopy with Few-Cycle Laser Pulses. , 2013, , .		0
27	Comparison of scattering and reflection SFG: a question of phase-matching. Physical Chemistry Chemical Physics, 2012, 14, 6826.	2.8	40
28	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
29	Label-free spectroscopic detection of vesicles in water using vibrational sum frequency scattering. Soft Matter, 2011, 7, 4959.	2.7	25
30	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
31	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
32	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
33	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
34	Detection of Buried Microstructures by Nonlinear Light Scattering Spectroscopy. Physical Review Letters, 2009, 102, 095502.	7.8	36
35	Nonlinear light scattering from clusters and single particles. Journal of Chemical Physics, 2009, 130, 214710.	3.0	39
36	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

#	Article	IF	Citations
37	Sum-frequency vibrational spectroscopy of self-assembled ultrathin organic layers. , 2007, , .		0
38	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