

Matthew L Clarke

List of Publications by Year in descending order

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34
papers

1,301
citations

394421

19
h-index

434195

31
g-index

34
all docs

34
docs citations

34
times ranked

1228
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of chiral sum frequency generation vibrational spectra of proteins and peptides at interfaces in situ. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4978-4983.	7.1	180
2	SUM FREQUENCY GENERATION VIBRATIONAL SPECTROSCOPY STUDIES ON MOLECULAR CONFORMATION AND ORIENTATION OF BIOLOGICAL MOLECULES AT INTERFACES. International Journal of Modern Physics B, 2005, 19, 691-713.	2.0	139
3	Conformational Changes of Fibrinogen after Adsorption. Journal of Physical Chemistry B, 2005, 109, 22027-22035.	2.6	124
4	Low-cost, high-throughput, automated counting of bacterial colonies. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2010, 77A, 790-797.	1.5	91
5	Vibrational Spectroscopic Studies on Fibrinogen Adsorption at Polystyrene/Protein Solution Interfaces: A Hydrophobic Side Chain and Secondary Structure Changes. Journal of Physical Chemistry B, 2006, 110, 5017-5024.	2.6	75
6	A Sum Frequency Generation Vibrational Study of the Interference Effect in Poly(<i>n</i> -butyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54-115, 13759-13767.	3.1	59
7	Molecular studies on protein conformations at polymer/liquid interfaces using sum frequency generation vibrational spectroscopy. Surface Science, 2005, 587, 1-11.	1.9	53
8	Polarization Mapping: A Method To Improve Sum Frequency Generation Spectral Analysis. Analytical Chemistry, 2004, 76, 2159-2167.	6.5	52
9	Deduction of Structural Information of Interfacial Proteins by Combined Vibrational Spectroscopic Methods. Journal of Physical Chemistry B, 2007, 111, 6088-6095.	2.6	49
10	Molecular Level Structures of Poly(<i>n</i> -alkyl methacrylate)s with Different Side Chain Lengths at the Polymer/Air and Polymer/Water Interfaces. Langmuir, 2006, 22, 8800-8806.	3.5	46
11	Quantitative characterization of quantum dot-labeled lambda phage for <i>Escherichia coli</i> detection. Biotechnology and Bioengineering, 2009, 104, 1059-1067.	3.3	44
12	Using Isotope-Labeled Proteins and Sum Frequency Generation Vibrational Spectroscopy to Study Protein Adsorption. Langmuir, 2003, 19, 7862-7866.	3.5	43
13	Sum Frequency Generation Studies on the Surface Structures of Plasticized and Unplasticized Polyurethane in Air and in Water. Analytical Chemistry, 2003, 75, 3275-3280.	6.5	41
14	Comparison of surface structures of poly(ethyl methacrylate) and poly(ethyl acrylate) in different chemical environments. Physical Chemistry Chemical Physics, 2005, 7, 2357.	2.8	38
15	Water-Soluble DNA-Wrapped Single-Walled Carbon-Nanotube/Quantum-Dot Complexes. Small, 2009, 5, 2149-2155.	10.0	38
16	Sum Frequency Generation Vibrational Spectroscopy Studies of Protein Adsorption on Oxide-Covered Ti Surfaces. Journal of Physical Chemistry B, 2004, 108, 7779-7787.	2.6	37
17	Absorption-Based Hyperspectral Imaging and Analysis of Single Erythrocytes. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1130-1139.	2.9	30
18	Exploring the transition from natural to synthetic dyes in the production of 19th-century Central Asian ikat textiles. Heritage Science, 2020, 8, .	2.3	30

#	ARTICLE	IF	CITATIONS
19	Polymer Surface Reorientation after Protein Adsorption. <i>Langmuir</i> , 2006, 22, 8627-8630.	3.5	22
20	Multimodal optical studies of single and clustered colloidal quantum dots for the long-term optical property evaluation of quantum dot-based molecular imaging phantoms. <i>Biomedical Optics Express</i> , 2012, 3, 1312.	2.9	17
21	Probing the dynamic fluorescence properties of single water-soluble quantum dots. <i>Optics Communications</i> , 2008, 281, 1781-1788.	2.1	14
22	Structural Analysis of Soft Multicomponent Nanoparticle Clusters. <i>ACS Nano</i> , 2010, 4, 6982-6988.	14.6	14
23	Multimodal, Nanoscale, Hyperspectral Imaging Demonstrated on Heterostructures of Quantum Dots and DNA-Wrapped Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2009, 3, 3769-3775.	14.6	10
24	Monitoring Photothermally Excited Nanoparticles via Multimodal Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1743-1748.	4.6	10
25	Imaging spectroscopies to characterize a 13th century Japanese handscroll, The Miraculous Interventions of JizÅ-Bosatsu. <i>Heritage Science</i> , 2021, 9, .	2.3	9
26	Quantitative scheme for full-field polarization rotating fluorescence microscopy using a liquid crystal variable retarder. <i>Review of Scientific Instruments</i> , 2012, 83, 053705.	1.3	8
27	Algorithm validation using multicolor phantoms. <i>Biomedical Optics Express</i> , 2012, 3, 1300.	2.9	8
28	Designing microarray phantoms for hyperspectral imaging validation. <i>Biomedical Optics Express</i> , 2012, 3, 1291.	2.9	6
29	Characterization of hyperspectral imaging and analysis via microarray printing of dyes. , 2011, , .		5
30	Unraveling the modified surface of the photographic paper â€œJapineâ€•. <i>Analytical Methods</i> , 2014, 6, 147-155.	2.7	4
31	Thermal properties of gold nanoshells in lipid vesicles studied by single particle tracking measurements. , 2008, , .		2
32	Linnaeus Tripe and Lightly Albumenized Prints in the 1850s: Characterization, Analysis and Process Identification. <i>Journal of the American Institute for Conservation</i> , 2020, 59, 218-234.	0.5	2
33	AN INVESTIGATION INTO JAPINE PLATINUM PHOTOGRAPHS: WILLIAM WILLIS'S PROPRIETARY PAPER. <i>Journal of the American Institute for Conservation</i> , 2015, 54, 213-223.	0.5	1
34	Effects of Plasmon-Exciton Coupling on the Optical Properties of CdSe/Zns Quantum Dots Coupled to Gold Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1208, 1.	0.1	0