Colin J Campbell

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8099215/publications.pdf

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44	1,179	361413	377865
papers	citations	20 h-index	34 g-index

46	46	46	2138
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Raman spectroscopy and regenerative medicine: a review. Npj Regenerative Medicine, 2017, 2, 12.	5.2	147
2	Nanoshells for Surface-Enhanced Raman Spectroscopy in Eukaryotic Cells: Cellular Response and Sensor Development. ACS Nano, 2009, 3, 3613-3621.	14.6	97
3	Monitoring Intracellular Redox Potential Changes Using SERS Nanosensors. ACS Nano, 2012, 6, 888-896.	14.6	90
4	SERS-based monitoring of the intracellular pH in endothelial cells: the influence of the extracellular environment and tumour necrosis factor-Î±. Analyst, The, 2015, 140, 2321-2329.	3.5	72
5	Quantitative measurement of redox potential in hypoxic cells using SERS nanosensors. Nanoscale, 2014, 6, 12104-12110.	5.6	67
6	Simultaneous intracellular redox potential and pH measurements in live cells using SERS nanosensors. Analyst, The, 2015, 140, 2330-2335.	3.5	62
7	Minimal oxidation and inflammogenicity of pristine graphene with residence in the lung. Nanotoxicology, 2014, 8, 824-832.	3.0	59
8	Fabrication of a Wearable Flexible Sweat pH Sensor Based on SERS-Active Au/TPU Electrospun Nanofibers. ACS Applied Materials & Interfaces, 2021, 13, 51504-51518.	8.0	50
9	Systematic analysis of the IgG antibody immune response against varicella zoster virus (VZV) using a self-assembled protein microarray. Molecular BioSystems, 2010, 6, 1604.	2.9	44
10	Antitumour activity of the novel flavonoid Oncamex in preclinical breast cancer models. British Journal of Cancer, 2016, 114, 905-916.	6.4	42
11	Label- and amplification-free electrochemical detection of bacterial ribosomal RNA. Biosensors and Bioelectronics, 2016, 81, 487-494.	10.1	42
12	Chemical analysis of multicellular tumour spheroids. Analyst, The, 2015, 140, 3910-3920.	3.5	41
13	Cellular redox potential and the biomolecular electrochemical series: A systems hypothesis. Free Radical Biology and Medicine, 2012, 53, 280-288.	2.9	38
14	Cell Interaction Microarray for Blood Phenotyping. Analytical Chemistry, 2006, 78, 1930-1938.	6.5	33
15	Untargeted Metabolite Mapping in 3D Cell Culture Models Using High Spectral Resolution FT-ICR Mass Spectrometry Imaging. Analytical Chemistry, 2019, 91, 9522-9529.	6.5	28
16	MALDI Matrix Application Utilizing a Modified 3D Printer for Accessible High Resolution Mass Spectrometry Imaging. Analytical Chemistry, 2018, 90, 8742-8749.	6.5	27
17	Targeted SERS nanosensors measure physicochemical gradients and free energy changes in live 3D tumor spheroids. Nanoscale, 2016, 8, 16710-16718.	5.6	23
18	DNA Nanoswitch as a Biosensor. Analytical Chemistry, 2007, 79, 4724-4728.	6.5	22

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19	A multiplexed protein microarray for the simultaneous serodiagnosis of human immunodeficiency virus/hepatitis C virus infection and typing of whole blood. Analytical Biochemistry, 2008, 382, 9-15.	2.4	21
20	Series of Quinone-Containing Nanosensors for Biologically Relevant Redox Potential Determination by Surface-Enhanced Raman Spectroscopy. Analytical Chemistry, 2015, 87, 4719-4725.	6.5	21
21	Human cystic fibrosis monocyte derived macrophages display no defect in acidification of phagolysosomes when measured by optical nanosensors. Journal of Cystic Fibrosis, 2020, 19, 203-210.	0.7	21
22	Ultraâ€low background Raman sensing using a negativeâ€curvature fibre and no distal optics. Journal of Biophotonics, 2019, 12, e201800239.	2.3	15
23	Measuring the effects of fractionated radiation therapy in a 3D prostate cancer model system using SERS nanosensors. Analyst, The, 2016, 141, 5056-5061.	3.5	14
24	Fast DNA and protein microarray tests for the diagnosis of hepatitis C virus infection on a single platform. Analytical and Bioanalytical Chemistry, 2011, 401, 2549-2559.	3.7	11
25	Intracellular redox potential is correlated with miRNA expression in MCF7 cells under hypoxic conditions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19753-19759.	7.1	11
26	A SERS-Active Electrospun Polymer Mesh for Spatially Localized pH Measurements of the Cellular Microenvironment. Analytical Chemistry, 2021, 93, 13844-13851.	6.5	8
27	Redox Potential Dependence of Peptide Structure Studied Using Surface Enhanced Raman Spectroscopy. Nano Letters, 2011, 11, 2684-2688.	9.1	7
28	Ratiometric biological nanosensors. Biochemical Society Transactions, 2014, 42, 899-904.	3.4	7
29	SERS as a tool for in vitro toxicology. Faraday Discussions, 2016, 187, 501-520.	3.2	7
30	Dual purpose fibre â€“ SERS pH sensing and bacterial analysis. Analyst, The, 2018, 143, 5918-5925.	3.5	7
31	Noninvasive Detection of Ischemic Vascular Damage in a Pig Model of Liver Donation After Circulatory Death. Hepatology, 2021, 74, 428-443.	7.3	7
32	Peptide-tags for enhanced DNA microarray performance. Faraday Discussions, 2011, 149, 201-210.	3.2	6
33	Raman spectroscopy investigation of biochemical changes in tumor spheroids with aging and after treatment with staurosporine. Journal of Biophotonics, 2019, 12, e201800201.	2.3	6
34	Determination of Protein Thiol Reduction Potential by Isotope Labeling and Intact Mass Measurement. Analytical Chemistry, 2016, 88, 2727-2733.	6.5	5
35	Base pair mismatch identification with DNA nanoswitch and long lifetime acridine fluorophore. Sensors and Actuators B: Chemical, 2010, 148, 342-346.	7.8	4
36	Nanosensors for Intracellular Raman Studies. Lecture Notes in Nanoscale Science and Technology, 2013, , 35-54.	0.8	4

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37	Protein technologies. Current Opinion in Biotechnology, 2007, 18, 293-294.	6.6	3
38	Evaluation of a Protein Microarray Method for Immunoâ€Typing Erythrocytes in Whole Blood. Journal of Immunoassay and Immunochemistry, 2008, 29, 197-209.	1.1	3
39	A DNA nanoswitch incorporating the fluorescent base analogue 2-aminopurine detects single nucleotide mismatches in unlabelled targets. Analyst, The, 2009, 134, 1873.	3.5	3
40	Automatic Cocrystal Detection by Raman Spectral Deconvolution-Based Novelty Analysis. Analytical Chemistry, 2021, 93, 14375-14382.	6.5	2
41	Bait-and-Switch Molecular Recognition in Nucleic Acid Sensors: Time-Resolved Fluorescence, Single Nucleotide Polymorphism Detection. , 2009, , .		1
42	10.1063/1.3604395.1. , 2011, , .		1
43	Developing Novel Fibres for Endoscopic Imaging and Sensing. , 2019, , .		0
44	REPLY:. Hepatology, 2021, 74, 2310-2311.	7.3	0