

James W Chan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5575160/publications.pdf>

Version: 2024-02-01

45
papers

2,296
citations

279487

23
h-index

233125

45
g-index

46
all docs

46
docs citations

46
times ranked

2968
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro-Raman Spectroscopy Detects Individual Neoplastic and Normal Hematopoietic Cells. <i>Biophysical Journal</i> , 2006, 90, 648-656.	0.2	577
2	Nondestructive Identification of Individual Leukemia Cells by Laser Trapping Raman Spectroscopy. <i>Analytical Chemistry</i> , 2008, 80, 2180-2187.	3.2	193
3	Label-Free Separation of Human Embryonic Stem Cells and Their Cardiac Derivatives Using Raman Spectroscopy. <i>Analytical Chemistry</i> , 2009, 81, 1324-1331.	3.2	178
4	An integrated optofluidic platform for Raman-activated cell sorting. <i>Lab on A Chip</i> , 2008, 8, 1116.	3.1	161
5	Recent advances in laser tweezers Raman spectroscopy (LTRS) for label-free analysis of single cells. <i>Journal of Biophotonics</i> , 2013, 6, 36-48.	1.1	86
6	Label-free biochemical characterization of stem cells using vibrational spectroscopy. <i>Journal of Biophotonics</i> , 2009, 2, 656-668.	1.1	80
7	Effect of Cefazolin Treatment on the Nonresonant Raman Signatures of the Metabolic State of Individual <i>Escherichia coli</i> Cells. <i>Analytical Chemistry</i> , 2010, 82, 2703-2710.	3.2	67
8	Raman spectroscopy for physiological investigations of tissues and cells. <i>Advanced Drug Delivery Reviews</i> , 2015, 89, 57-70.	6.6	66
9	The effect of cell fixation on the discrimination of normal and leukemia cells with laser tweezers Raman spectroscopy. <i>Biopolymers</i> , 2009, 91, 132-139.	1.2	65
10	Evaluation of <i>Escherichia coli</i> Cell Response to Antibiotic Treatment by Use of Raman Spectroscopy with Laser Tweezers. <i>Journal of Clinical Microbiology</i> , 2010, 48, 4287-4290.	1.8	57
11	Investigating drug induced changes in single, living lymphocytes based on Raman micro-spectroscopy. <i>Analyst</i> , 2014, 139, 2726-2733.	1.7	57
12	Monitoring dynamic protein expression in living <i>E. coli</i> Bacterial cells by laser tweezers Raman spectroscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2007, 71A, 468-474.	1.1	56
13	Detection of doxorubicin-induced apoptosis of leukemic T-lymphocytes by laser tweezers Raman spectroscopy. <i>Biomedical Optics Express</i> , 2010, 1, 1138.	1.5	53
14	SERS analysis of selectively captured exosomes using an integrin-specific peptide ligand. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1771-1776.	1.2	46
15	Nanoparticles for live cell microscopy: A surface-enhanced Raman scattering perspective. <i>Scientific Reports</i> , 2017, 7, 4471.	1.6	43
16	Novel single-cell functional analysis of red blood cells using laser tweezers Raman spectroscopy: Application for sickle cell disease. <i>Experimental Hematology</i> , 2013, 41, 656-661.e1.	0.2	37
17	Fast Confocal Raman Imaging Using a 2-D Multifocal Array for Parallel Hyperspectral Detection. <i>Analytical Chemistry</i> , 2016, 88, 1281-1285.	3.2	36
18	A nanotweezer system for evanescent wave excited surface enhanced Raman spectroscopy (SERS) of single nanoparticles. <i>Optics Express</i> , 2015, 23, 6793.	1.7	35

#	ARTICLE	IF	CITATIONS
19	Microbial Transformation of Multiwalled Carbon Nanotubes by <i>Mycobacterium vanbaalenii</i> PYR-1. <i>Environmental Science & Technology</i> , 2017, 51, 2068-2076.	4.6	34
20	A Rapidly Modulated Multifocal Detection Scheme for Parallel Acquisition of Raman Spectra from a 2-D Focal Array. <i>Analytical Chemistry</i> , 2014, 86, 6604-6609.	3.2	29
21	Same-Single-Cell Analysis of Pacemaker-Specific Markers in Human Induced Pluripotent Stem Cell-Derived Cardiomyocyte Subtypes Classified by Electrophysiology. <i>Stem Cells</i> , 2016, 34, 2670-2680.	1.4	28
22	Parallel Analysis of Individual Biological Cells Using Multifocal Laser Tweezers Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2010, 64, 1308-1310.	1.2	27
23	Raman spectroscopy of individual monocytes reveals that single-beam optical trapping of mononuclear cells occurs by their nucleus. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 044021.	1.0	24
24	Power dependent oxygenation state transition of red blood cells in a single beam optical trap. <i>Applied Physics Letters</i> , 2011, 99, 043702.	1.5	22
25	Label-free identification and characterization of human pluripotent stem cell-derived cardiomyocytes using second harmonic generation (SHG) microscopy. <i>Journal of Biophotonics</i> , 2012, 5, 57-66.	1.1	21
26	Human induced pluripotent stem cell line with genetically encoded fluorescent voltage indicator generated via CRISPR for action potential assessment post-cardiogenesis. <i>Stem Cells</i> , 2020, 38, 90-101.	1.4	20
27	Non-Linear Optical Flow Cytometry Using a Scanned, Bessel Beam Light-Sheet. <i>Scientific Reports</i> , 2015, 5, 10751.	1.6	19
28	Multimodal SHG-2PF Imaging of Microdomain Ca^{2+} -Contraction Coupling in Live Cardiac Myocytes. <i>Circulation Research</i> , 2016, 118, e19-28.	2.0	19
29	NODAL inhibition promotes differentiation of pacemaker-like cardiomyocytes from human induced pluripotent stem cells. <i>Stem Cell Research</i> , 2020, 49, 102043.	0.3	19
30	Hyperspectral Raman microscopy can accurately differentiate single cells of different human thyroid nodules. <i>Biomedical Optics Express</i> , 2019, 10, 4411.	1.5	18
31	Dual-mode emission and transmission microscopy for virtual histochemistry using hematoxylin- and eosin-stained tissue sections. <i>Biomedical Optics Express</i> , 2019, 10, 6516.	1.5	18
32	Estimation of spectra sample size for characterizing single cells using micro-Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 384-390.	1.2	17
33	Prestin amplifies cardiac motor functions. <i>Cell Reports</i> , 2021, 35, 109097.	2.9	17
34	Laser Tweezers Raman Microspectroscopy of Single Cells and Biological Particles. <i>Methods in Molecular Biology</i> , 2018, 1745, 219-257.	0.4	16
35	Characterisation of FXTAS related isolated intranuclear protein inclusions using laser tweezers Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 33-39.	1.2	12
36	Improving the imaging speed of 1064-nm dispersive Raman microscopy with multifocal patterned detection. <i>Optics Letters</i> , 2017, 42, 37.	1.7	8

#	ARTICLE	IF	CITATIONS
37	Emerging investigator series: quantification of multiwall carbon nanotubes in plant tissues with spectroscopic analysis. <i>Environmental Science: Nano</i> , 2019, 6, 380-387.	2.2	7
38	An intrinsic, label-free signal for identifying stem cell-derived cardiomyocyte subtype. <i>Stem Cells</i> , 2020, 38, 390-394.	1.4	6
39	Raman-based cytopathology: an approach to improve diagnostic accuracy in medullary thyroid carcinoma. <i>Biomedical Optics Express</i> , 2020, 11, 6962.	1.5	5
40	Multifocal 1064-nm Raman imaging of carbon nanotubes. <i>Optics Letters</i> , 2020, 45, 5132.	1.7	4
41	Diagnosing Hirschsprung disease by detecting intestinal ganglion cells using label-free hyperspectral microscopy. <i>Scientific Reports</i> , 2021, 11, 1398.	1.6	3
42	Surface-enhanced Raman scattering sensing platform for detecting amyloid- β^2 peptide interaction with an aggregation inhibitor. <i>Applied Optics</i> , 2020, 59, 7490.	0.9	3
43	Making Heads or Tails of the Large Mammalian Sinoatrial Node Micro-Organization. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, CIRCEP121010465.	2.1	2
44	SHG-2PF Imaging of Local Ca ²⁺ and Sub-Sarcomere Contraction in Live Cardiomyocytes. <i>Biophysical Journal</i> , 2016, 110, 432a.	0.2	1
45	Towards a Raman-based diagnostic approach for characterizing cytologically indeterminate thyroid nodules. , 2019, , .		0