

Gajendra Pratap Singh

List of Publications by Year in descending order

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38
papers

1,073
citations

394286

19
h-index

501076

28
g-index

38
all docs

38
docs citations

38
times ranked

1151
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual wavelength optical tweezers for confocal Raman spectroscopy. Optics Communications, 2005, 245, 465-470.	1.0	88
2	Real-Time Detection of Hyperosmotic Stress Response in Optically Trapped Single Yeast Cells Using Raman Microspectroscopy. Analytical Chemistry, 2005, 77, 2564-2568.	3.2	80
3	Raman imaging of floating cells. Optics Express, 2005, 13, 6105.	1.7	73
4	Investigation of the specificity of Raman spectroscopy in non-invasive blood glucose measurements. Analytical and Bioanalytical Chemistry, 2011, 400, 2871-2880.	1.9	69
5	Waveguide confined Raman spectroscopy for microfluidic interrogation. Lab on A Chip, 2011, 11, 1262.	3.1	65
6	The lag phase and G1 phase of a single yeast cell monitored by Raman microspectroscopy. Journal of Raman Spectroscopy, 2006, 37, 858-864.	1.2	64
7	Species-independent analytical tools for next-generation agriculture. Nature Plants, 2020, 6, 1408-1417.	4.7	63
8	Accurate Spectroscopic Calibration for Noninvasive Glucose Monitoring by Modeling the Physiological Glucose Dynamics. Analytical Chemistry, 2010, 82, 6104-6114.	3.2	57
9	Turbidity-Corrected Raman Spectroscopy for Blood Analyte Detection. Analytical Chemistry, 2009, 81, 4233-4240.	3.2	53
10	Selective sampling using confocal Raman spectroscopy provides enhanced specificity for urinary bladder cancer diagnosis. Analytical and Bioanalytical Chemistry, 2012, 404, 3091-3099.	1.9	50
11	Fiber probe based microfluidic raman spectroscopy. Optics Express, 2010, 18, 7642.	1.7	48
12	Investigation of Noise-Induced Instabilities in Quantitative Biological Spectroscopy and Its Implications for Noninvasive Glucose Monitoring. Analytical Chemistry, 2012, 84, 8149-8156.	3.2	44
13	Portable Raman leaf-clip sensor for rapid detection of plant stress. Scientific Reports, 2020, 10, 20206.	1.6	40
14	Optical tweezers with cylindrical vector beams produced by optical fibers. , 2004, , .		39
15	Nanosensor Detection of Synthetic Auxins <i>In Planta</i> using Corona Phase Molecular Recognition. ACS Sensors, 2021, 6, 3032-3046.	4.0	32
16	Effect of photobleaching on calibration model development in biological Raman spectroscopy. Journal of Biomedical Optics, 2011, 16, 011004.	1.4	30
17	Early Diagnosis and Management of Nitrogen Deficiency in Plants Utilizing Raman Spectroscopy. Frontiers in Plant Science, 2020, 11, 663.	1.7	29
18	Dynamics of a growing cell in an optical trap. Applied Physics Letters, 2006, 88, 231106.	1.5	27

#	ARTICLE	IF	CITATIONS
19	Single Cell Confocal Raman Spectroscopy of Human Osteoarthritic Chondrocytes: A Preliminary Study. <i>International Journal of Molecular Sciences</i> , 2015, 16, 9341-9353.	1.8	22
20	Toward the Development of Raman Spectroscopy as a Nonperturbative Online Monitoring Tool for Gasoline Adulteration. <i>Analytical Chemistry</i> , 2013, 85, 1846-1851.	3.2	21
21	Optical sectioning using single-plane illumination Raman imaging. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1099-1101.	1.2	19
22	Raman spectroscopy of complex defined media: biopharmaceutical applications. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 545-550.	1.2	16
23	Rapid metabolite response in leaf blade and petiole as a marker for shade avoidance syndrome. <i>Plant Methods</i> , 2020, 16, 144.	1.9	9
24	Near-infrared Raman spectroscopy using hollow-core photonic bandgap fibers. <i>Optics Communications</i> , 2010, 283, 3204-3206.	1.0	7
25	A facile and real-time spectroscopic method for biofluid analysis in point-of-care diagnostics. <i>Bioanalysis</i> , 2013, 5, 1853-1861.	0.6	6
26	Optical Detection of Degraded Therapeutic Proteins. <i>Scientific Reports</i> , 2018, 8, 5089.	1.6	6
27	Raman spectroscopy of a single living cell in environmentally stressed conditions. , 2005, 5930, 42.		4
28	Biophotonics. <i>Optics and Photonics News</i> , 2005, 16, 18.	0.4	4
29	Rapid Detection and Quantification of Plant Innate Immunity Response Using Raman Spectroscopy. <i>Frontiers in Plant Science</i> , 2021, 12, 746586.	1.7	4
30	Design and Development of a Bimodal Optical Instrument for Simultaneous Vibrational Spectroscopy Measurements. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6834.	1.8	3
31	Robust Spectroscopic Calibration for Transcutaneous Glucose Monitoring by Modeling of Diffusion Kinetics. , 2010, , .		1
32	Multiple beam optical tweezers for spatially resolved Raman imaging. , 2005, , .		0
33	A single living cell in environmentally stress conditions: real-time study using Raman spectroscopy. , 0, , .		0
34	Optical trapping dynamics for cell identification. , 2006, , .		0
35	Growth of single yeast cells in an optical trap monitored by Rayleigh and Raman scattering. , 2006, , .		0
36	Transcutaneous Measurement of Blood Analyte Concentration Using Raman Spectroscopy. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
37	Surgical Raman Forceps for Disease Diagnosis. , 2010, , .		0
38	Microfluidic Raman Spectroscopy for Bio-Analyte Detection. , 2010, , .		0