Gajendra Pratap Singh

List of Publications by Year
in descending order

38	1,073	394286	501076
papers	citations	19 h-index	28 g-index

38	38	38	1151
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design and Development of a Bimodal Optical Instrument for Simultaneous Vibrational Spectroscopy Measurements. International Journal of Molecular Sciences, 2022, 23, 6834.	1.8	3
2	Nanosensor Detection of Synthetic Auxins In Planta using Corona Phase Molecular Recognition. ACS Sensors, 2021, 6, 3032-3046.	4.0	32
3	Rapid Detection and Quantification of Plant Innate Immunity Response Using Raman Spectroscopy. Frontiers in Plant Science, 2021, 12, 746586.	1.7	4
4	Species-independent analytical tools for next-generation agriculture. Nature Plants, 2020, 6, 1408-1417.	4.7	63
5	Rapid metabolite response in leaf blade and petiole as a marker for shade avoidance syndrome. Plant Methods, 2020, 16, 144.	1.9	9
6	Portable Raman leaf-clip sensor for rapid detection of plant stress. Scientific Reports, 2020, 10, 20206.	1.6	40
7	Early Diagnosis and Management of Nitrogen Deficiency in Plants Utilizing Raman Spectroscopy. Frontiers in Plant Science, 2020, 11, 663.	1.7	29
8	Optical Detection of Degraded Therapeutic Proteins. Scientific Reports, 2018, 8, 5089.	1.6	6
9	Raman spectroscopy of complex defined media: biopharmaceutical applications. Journal of Raman Spectroscopy, 2015, 46, 545-550.	1.2	16
10	Single Cell Confocal Raman Spectroscopy of Human Osteoarthritic Chondrocytes: A Preliminary Study. International Journal of Molecular Sciences, 2015, 16, 9341-9353.	1.8	22
11	Toward the Development of Raman Spectroscopy as a Nonperturbative Online Monitoring Tool for Gasoline Adulteration. Analytical Chemistry, 2013, 85, 1846-1851.	3.2	21
12	A facile and real-time spectroscopic method for biofluid analysis in point-of-care diagnostics. Bioanalysis, 2013, 5, 1853-1861.	0.6	6
13	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
14	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
15	Waveguide confined Raman spectroscopy for microfluidic interrogation. Lab on A Chip, 2011, 11, 1262.	3.1	65
16	Effect of photobleaching on calibration model development in biological Raman spectroscopy. Journal of Biomedical Optics, 2011, 16, 011004.	1.4	30
17	Investigation of the specificity of Raman spectroscopy in non-invasive blood glucose measurements. Analytical and Bioanalytical Chemistry, 2011, 400, 2871-2880.	1.9	69
18	Optical sectioning using singleâ€planeâ€illumination Raman imaging. Journal of Raman Spectroscopy, 2010, 41, 1099-1101.	1.2	19

#	Article	IF	Citations
19	Near-infrared Raman spectroscopy using hollow-core photonic bandgap fibers. Optics Communications, 2010, 283, 3204-3206.	1.0	7
20	Robust Spectroscopic Calibration for Transcutaneous Glucose Monitoring by Modeling of Diffusion Kinetics. , 2010, , .		1
21	Surgical Raman Forceps for Disease Diagnosis. , 2010, , .		0
22	Microfluidic Raman Spectroscopy for Bio-Analyte Detection. , 2010, , .		0
23	Fiber probe based microfluidic raman spectroscopy. Optics Express, 2010, 18, 7642.	1.7	48
24	Accurate Spectroscopic Calibration for Noninvasive Glucose Monitoring by Modeling the Physiological Glucose Dynamics. Analytical Chemistry, 2010, 82, 6104-6114.	3.2	57
25	Turbidity-Corrected Raman Spectroscopy for Blood Analyte Detection. Analytical Chemistry, 2009, 81, 4233-4240.	3.2	53
26	Transcutaneous Measurement of Blood Analyte Concentration Using Raman Spectroscopy. , 2008, , .		0
27	Optical trapping dynamics for cell identification. , 2006, , .		0
28	Growth of single yeast cells in an optical trap monitored by Rayleigh and Raman scattering. , 2006, , .		0
29	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
30	Dynamics of a growing cell in an optical trap. Applied Physics Letters, 2006, 88, 231106.	1.5	27
31	Raman spectroscopy of a single living cell in environmentally stressed conditions. , 2005, 5930, 42.		4
32	Dual wavelength optical tweezers for confocal Raman spectroscopy. Optics Communications, 2005, 245, 465-470.	1.0	88
33	Multiple beam optical tweezers for spatially resolved Raman imaging. , 2005, , .		0
34	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
35	Raman imaging of floating cells. Optics Express, 2005, 13, 6105.	1.7	73
36	Biophotonics. Optics and Photonics News, 2005, 16, 18.	0.4	4

#	Article	IF	Citations
37	Optical tweezers with cylindrical vector beams produced by optical fibers. , 2004, , .		39
38	A single living cell in environmentally stress conditions: real-time study using Raman spectroscopy. , 0, , .		0