

Imran I Patel

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,113
citations

394421

19
h-index

580821

25
g-index

27
all docs

27
docs citations

27
times ranked

1610
citing authors

#	ARTICLE	IF	CITATIONS
1	Distinguishing cell types or populations based on the computational analysis of their infrared spectra. <i>Nature Protocols</i> , 2010, 5, 1748-1760.	12.0	294
2	Diagnostic segregation of human brain tumours using Fourier-transform infrared and/or Raman spectroscopy coupled with discriminant analysis. <i>Analytical Methods</i> , 2013, 5, 89-102.	2.7	140
3	Gold nanoparticles explore cells: Cellular uptake and their use as intracellular probes. <i>Methods</i> , 2014, 68, 354-363.	3.8	62
4	Combining Immunolabeling and Surface-Enhanced Raman Spectroscopy on Cell Membranes. <i>ACS Nano</i> , 2011, 5, 9535-9541.	14.6	59
5	Concentration-dependent effects of carbon nanoparticles in gram-negative bacteria determined by infrared spectroscopy with multivariate analysis. <i>Environmental Pollution</i> , 2012, 163, 226-234.	7.5	59
6	Segregation of human prostate tissues classified high-risk (UK) versus low-risk (India) for adenocarcinoma using Fourier-transform infrared or Raman microspectroscopy coupled with discriminant analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 969-982.	3.7	58
7	Syrian hamster embryo (SHE) assay (pH 6.7) coupled with infrared spectroscopy and chemometrics towards toxicological assessment. <i>Analyst, The</i> , 2010, 135, 3266.	3.5	49
8	High contrast images of uterine tissue derived using Raman microspectroscopy with the empty modelling approach of multivariate curve resolution-alternating least squares. <i>Analyst, The</i> , 2011, 136, 4950.	3.5	49
9	Discrimination of zone-specific spectral signatures in normal human prostate using Raman spectroscopy. <i>Analyst, The</i> , 2010, 135, 3060.	3.5	44
10	Constitutive expression of bioactivating enzymes in normal human prostate suggests a capability to activate pro-carcinogens to DNA-damaging metabolites. <i>Prostate</i> , 2010, 70, 1586-1599.	2.3	35
11	Biospectroscopy insights into the multi-stage process of cervical cancer development: probing for spectral biomarkers in cytology to distinguish grades. <i>Analyst, The</i> , 2013, 138, 3909.	3.5	35
12	Isolating stem cells in the inter-follicular epidermis employing synchrotron radiation-based Fourier-transform infrared microspectroscopy and focal plane array imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1745-1758.	3.7	26
13	Coherent anti-Stokes Raman scattering for label-free biomedical imaging. <i>Journal of Optics (United Kingdom)</i> 11, 0784314. DOI: 10.1049/jo20110784314	2.2	21
14	Infrared microspectroscopy identifies biomolecular changes associated with chronic oxidative stress in mammary epithelium and stroma of breast tissues from healthy young women. <i>Cancer Biology and Therapy</i> , 2014, 15, 225-235.	3.4	21
15	Fingerprint CH stretch continuously tunable high spectral resolution stimulated Raman scattering microscope. <i>Journal of Biophotonics</i> , 2019, 12, e201900028.	2.3	21
16	Sub-cellular spectrochemical imaging of isolated human corneal cells employing synchrotron radiation-based Fourier-transform infrared microspectroscopy. <i>Analyst, The</i> , 2013, 138, 240-248.	3.5	20
17	Exploiting biospectroscopy as a novel screening tool for cervical cancer: towards a framework to validate its accuracy in a routine clinical setting. <i>Bioanalysis</i> , 2013, 5, 2697-2711.	1.5	20
18	Differential Effects in Mammalian Cells Induced by Chemical Mixtures in Environmental Biota As Profiled Using Infrared Spectroscopy. <i>Environmental Science & Technology</i> , 2011, 45, 10706-10712.	10.0	19

#	ARTICLE	IF	CITATIONS
19	Surface-Enhanced Raman Spectroscopy of the Endothelial Cell Membrane. PLoS ONE, 2014, 9, e106283.	2.5	19
20	Infrared spectroscopy with multivariate analysis segregates low-grade cervical cytology based on likelihood to regress, remain static or progress. Analytical Methods, 2014, 6, 4576-4584.	2.7	17
21	Chemical Composition and Sulfur Speciation in Bulk Tissue by X-Ray Spectroscopy and X-Ray Microscopy: Corneal Development during Embryogenesis. Biophysical Journal, 2012, 103, 357-364.	0.5	12
22	Elevated Oestrogen Receptor Splice Variant ER α 5 Expression in Tumour-adjacent Hormone-responsive Tissue. International Journal of Environmental Research and Public Health, 2010, 7, 3871-3889.	2.6	10
23	Alterations in the Biomolecular Signatures of Developing Chick Corneas as Determined by Biospectroscopy and Multivariate Analysis. , 2012, 53, 1162.		8
24	Determination Using Synchrotron Radiation-Based Fourier Transform Infrared Microspectroscopy of Putative Stem Cells in Human Adenocarcinoma of the Intestine: Corresponding Benign Tissue as a Template. Applied Spectroscopy, 2014, 68, 812-822.	2.2	7
25	Classification of test agent-specific effects in the Syrian hamster embryo assay (pH 6.7) using infrared spectroscopy with computational analysis. Mutagenesis, 2012, 27, 375-382.	2.6	6
26	Spatial and temporal age-related spectral alterations in benign human breast tissue. Journal of Molecular Structure, 2016, 1106, 390-398.	3.6	1
27	Quantum cascade laser infrared spectroscopy of single cancer cells. , 2017, , .		1