

Ganesh D Sockalingum

List of Publications by Year in descending order

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66
papers

4,191
citations

126858

33
h-index

110317

64
g-index

68
all docs

68
docs citations

68
times ranked

5245
citing authors

#	ARTICLE	IF	CITATIONS
1	New insights into hidradenitis suppurativa diagnosis via salivary infrared biosignatures: A pilot study. <i>Journal of Biophotonics</i> , 2021, 14, e202000327.	1.1	4
2	Hair Histology and Glycosaminoglycans Distribution Probed by Infrared Spectral Imaging: Focus on Heparan Sulfate Proteoglycan and Glypican-1 during Hair Growth Cycle. <i>Biomolecules</i> , 2021, 11, 192.	1.8	5
3	Assessment of Ovarian Tumor Growth in Wild-Type and Lumican-Deficient Mice: Insights Using Infrared Spectral Imaging, Histopathology, and Immunohistochemistry. <i>Cancers</i> , 2021, 13, 5950.	1.7	0
4	Interference of hemolysis, hyperlipidemia, and icterus on plasma infrared spectral profile. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 805-810.	1.9	3
5	Infrared Microspectroscopy and Imaging Analysis of Inflammatory and Non-Inflammatory Breast Cancer Cells and Their GAG Secretome. <i>Molecules</i> , 2020, 25, 4300.	1.7	9
6	HS2ST1â€dependent signaling pathways determine breast cancer cell viability, matrix interactions, and invasive behavior. <i>Cancer Science</i> , 2020, 111, 2907-2922.	1.7	19
7	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 15745-15756.	3.2	46
8	Vibrational spectroscopy of liquid biopsies for prostate cancer diagnosis. <i>Therapeutic Advances in Medical Oncology</i> , 2020, 12, 175883592091849.	1.4	31
9	Vibrational Spectroscopy Saliva Profiling as Biometric Tool for Disease Diagnostics: A Systematic Literature Review. <i>Molecules</i> , 2020, 25, 4142.	1.7	24
10	Analysis of Hepatic Fibrosis Characteristics in Cirrhotic Patients with and without Hepatocellular Carcinoma by FTIR Spectral Imaging. <i>Molecules</i> , 2020, 25, 4092.	1.7	7
11	Label-Free Infrared Spectral Histology of Skin Tissue Part I: Impact of Lumican on Extracellular Matrix Integrity. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 320.	1.8	2
12	Label-Free Infrared Spectral Histology of Skin Tissue Part II: Impact of a Lumican-Derived Peptide on Melanoma Growth. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 377.	1.8	6
13	Effect of hemolysis on Fourier transform infrared and Raman spectra of blood plasma. <i>Journal of Biophotonics</i> , 2020, 13, e201960173.	1.1	5
14	Transmission Fourier Transform Infrared Spectroscopic Imaging, Mapping, and Synchrotron Scanning Microscopy with Zinc Sulfide Hemispheres on Living Mammalian Cells at Sub-Cellular Resolution. <i>Applied Spectroscopy</i> , 2020, 74, 544-552.	1.2	15
15	Surface Enhanced Raman Spectroscopy for Quantitative Analysis: Results of a Large-Scale European Multi-Instrument Interlaboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 4053-4064.	3.2	50
16	Investigating preâ€analytical requirements for serum and plasma based infrared spectroâ€diagnostic. <i>Journal of Biophotonics</i> , 2019, 12, e201900177.	1.1	14
17	Monitoring Radiotherapeutic Response in Prostate Cancer Patients Using High Throughput FTIR Spectroscopy of Liquid Biopsies. <i>Cancers</i> , 2019, 11, 925.	1.7	22
18	Raman spectroscopyâ€based insight into lipid droplets presence and contents in liver sinusoidal endothelial cells and hepatocytes. <i>Journal of Biophotonics</i> , 2019, 12, e201800290.	1.1	24

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19	Characterization of inflammatory breast cancer: a vibrational microspectroscopy and imaging approach at the cellular and tissue level. <i>Analyst, The</i> , 2018, 143, 6103-6112.	1.7	18
20	Implementation of infrared and Raman modalities for glycosaminoglycan characterization in complex systems. <i>Glycoconjugate Journal</i> , 2017, 34, 309-323.	1.4	15
21	Demonstration of the Protein Involvement in Cell Electropermeabilization using Confocal Raman Microspectroscopy. <i>Scientific Reports</i> , 2017, 7, 40448.	1.6	27
22	Vibrational spectroscopy in sensing radiobiological effects: analyses of targeted and non-targeted effects in human keratinocytes. <i>Faraday Discussions</i> , 2016, 187, 213-234.	1.6	40
23	Developing and understanding biofluid vibrational spectroscopy: a critical review. <i>Chemical Society Reviews</i> , 2016, 45, 1803-1818.	18.7	243
24	Highlighting the impact of aging on type I collagen: label-free investigation using confocal reflectance microscopy and diffuse reflectance spectroscopy in 3D matrix model. <i>Oncotarget</i> , 2016, 7, 8546-8555.	0.8	20
25	Rapid screening of classic galactosemia patients: a proof-of-concept study using high-throughput FTIR analysis of plasma. <i>Analyst, The</i> , 2015, 140, 2280-2286.	1.7	29
26	Spectroscopy for the next generation: Quo vadis?. <i>Analyst, The</i> , 2015, 140, 2066-2073.	1.7	106
27	Investigating optimum sample preparation for infrared spectroscopic serum diagnostics. <i>Analytical Methods</i> , 2015, 7, 7140-7149.	1.3	40
28	Bile analysis using high-throughput FTIR spectroscopy for the diagnosis of malignant biliary strictures: a pilot study in 57 patients. <i>Journal of Biophotonics</i> , 2014, 7, 241-253.	1.1	34
29	A microscopic and macroscopic study of aging collagen on its molecular structure, mechanical properties, and cellular response. <i>FASEB Journal</i> , 2014, 28, 14-25.	0.2	31
30	Probing single-tumor cell interactions with different-age type I collagen networks by synchrotron-based Fourier transform infrared microspectroscopy. <i>Journal of Biomedical Optics</i> , 2014, 19, 111612.	1.4	4
31	Study of gemcitabine-sensitive/resistant cancer cells by cell cloning and synchrotron FTIR microspectroscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2014, 85, 688-697.	1.1	24
32	Glycosaminoglycan profiling in different cell types using infrared spectroscopy and imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5795-5803.	1.9	25
33	Using Fourier transform IR spectroscopy to analyze biological materials. <i>Nature Protocols</i> , 2014, 9, 1771-1791.	5.5	1,385
34	Infrared spectral histopathology for cancer diagnosis: a novel approach for automated pattern recognition of colon adenocarcinoma. <i>Analyst, The</i> , 2014, 139, 4005-4015.	1.7	54
35	Infrared and Raman Imaging for Characterizing Complex Biological Materials: A Comparative Morpho-Spectroscopic Study of Colon Tissue. <i>Applied Spectroscopy</i> , 2014, 68, 57-68.	1.2	27
36	Identification of different subsets of lung cells using Raman microspectroscopy and whole cell nucleus isolation. <i>Analyst, The</i> , 2013, 138, 5052.	1.7	25

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37	Profiling serologic biomarkers in cirrhotic patients via high-throughput Fourier transform infrared spectroscopy: toward a new diagnostic tool of hepatocellular carcinoma. <i>Translational Research</i> , 2013, 162, 279-286.	2.2	33
38	Probing non-enzymatic glycation of type I collagen: A novel approach using Raman and infrared biophotonic methods. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 3525-3531.	1.1	39
39	Infrared imaging as a cancer diagnostic tool: Introducing a new concept of spectral barcodes for identifying molecular changes in colon tumors. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2013, 83A, 294-300.	1.1	38
40	Characterization of Glycosaminoglycans by Tandem Vibrational Microspectroscopy and Multivariate Data Analysis. <i>Methods in Molecular Biology</i> , 2012, 836, 117-130.	0.4	17
41	Raman imaging of single living cells: probing effects of non-cytotoxic doses of an anti-cancer drug. <i>Analyst, The</i> , 2011, 136, 2718.	1.7	35
42	Noninvasive assessment of hepatic fibrosis in patients with chronic hepatitis C using serum Fourier transform infrared spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 2919-2925.	1.9	30
43	Rapid Characterization of Glycosaminoglycans Using a Combined Approach by Infrared and Raman Microspectroscopies. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 441-450.	1.6	58
44	Studies of chemical fixation effects in human cell lines using Raman microspectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 1781-1791.	1.9	122
45	Raman spectral imaging of single cancer cells: probing the impact of sample fixation methods. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 2727-2737.	1.9	57
46	Synchrotron-based FTIR spectra of stained single cells. Towards a clinical application in pathology. <i>Laboratory Investigation</i> , 2010, 90, 797-807.	1.7	46
47	FTIR microspectroscopy of stained cells and tissues. Application in cancer diagnosis. <i>Spectroscopy</i> , 2010, 24, 73-78.	0.8	8
48	Raman Microscopy: Complement or Competitor?. <i>Metal Ions in Life Sciences</i> , 2010, , 105-143.	1.0	19
49	FTIR spectroscopic discrimination of <i>Saccharomyces cerevisiae</i> and <i>Saccharomyces bayanus</i> strains. <i>Canadian Journal of Microbiology</i> , 2010, 56, 793-801.	0.8	19
50	IR spectroscopy reveals effect of non-cytotoxic doses of anti-tumour drug on cancer cells. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2293-2301.	1.9	62
51	Raman spectral imaging of single living cancer cells: a preliminary study. <i>Analyst, The</i> , 2009, 134, 542-548.	1.7	110
52	Intracellular applications of analytical SERS spectroscopy and multispectral imaging. <i>Chemical Society Reviews</i> , 2008, 37, 993.	18.7	113
53	Revealing Covariance Structures in Fourier Transform Infrared and Raman Microspectroscopy Spectra: A Study on Pork Muscle Fiber Tissue Subjected to Different Processing Parameters. <i>Applied Spectroscopy</i> , 2007, 61, 1032-1039.	1.2	83
54	Epidemiological investigation and typing of <i>Candida glabrata</i> clinical isolates by FTIR spectroscopy. <i>Journal of Microbiological Methods</i> , 2007, 71, 325-331.	0.7	33

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55	P2-148: Synchrotron based FTIR spectroscopy of single cells. Applications in lung cancer diagnosis and management. <i>Journal of Thoracic Oncology</i> , 2007, 2, S549-S550.	0.5	0
56	Adding synchrotron radiation to infrared microspectroscopy: what's new in biomedical applications?. <i>Trends in Biotechnology</i> , 2007, 25, 40-44.	4.9	140
57	FTIR spectroscopy in medical mycology: applications to the differentiation and typing of <i>Candida</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1729-1737.	1.9	50
58	Correcting Attenuated Total Reflectionâ€™Fourier Transform Infrared Spectra for Water Vapor and Carbon Dioxide. <i>Applied Spectroscopy</i> , 2006, 60, 1029-1039.	1.2	70
59	Impact of Carbamylation on Type I Collagen Conformational Structure and Its Ability to Activate Human Polymorphonuclear Neutrophils. <i>Chemistry and Biology</i> , 2006, 13, 149-159.	6.2	87
60	FTIR spectroscopy as a potential tool to analyse structural modifications during morphogenesis of <i>Candida albicans</i> . <i>Archives of Microbiology</i> , 2006, 185, 277-285.	1.0	59
61	Pre-processing in biochemometrics: correction for path-length and temperature effects of water in FTIR bio-spectroscopy by EMSC. <i>Journal of Chemometrics</i> , 2006, 20, 402-417.	0.7	43
62	Combined Fourier transform infrared and Raman spectroscopic approach for identification of multidrug resistance phenotype in cancer cell lines. <i>Biopolymers</i> , 2006, 82, 462-470.	1.2	74
63	Fourier Transform Infrared and Raman Spectroscopy for Characterization of <i>Listeria monocytogenes</i> Strains. <i>Applied and Environmental Microbiology</i> , 2006, 72, 228-232.	1.4	79
64	Study of tumor cell invasion by Fourier transform infrared microspectroscopy. <i>Biopolymers</i> , 2005, 78, 311-317.	1.2	74
65	Rapid identification of <i>Candida</i> species by FT-IR microspectroscopy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1724, 239-247.	1.1	92
66	Does Adsorption on the Surface of a Silver Colloid Perturb Drug/DNA Interactions? Comparative SERS, FT-SERS, and Resonance Raman Study of Mitoxantrone and Its Derivatives. <i>The Journal of Physical Chemistry</i> , 1995, 99, 1608-1613.	2.9	68