Ganesh D Sockalingum

List of Publications by Year
in descending order

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66 papers	4,191 citations	126907 33 h-index	110387 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. Journal of Biophotonics, 2021, 14, e202000327.	2.3	4
2	Hair Histology and Glycosaminoglycans Distribution Probed by Infrared Spectral Imaging: Focus on Heparan Sulfate Proteoglycan and Glypican-1 during Hair Growth Cycle. Biomolecules, 2021, 11, 192.	4.0	5
3	Assessment of Ovarian Tumor Growth in Wild-Type and Lumican-Deficient Mice: Insights Using Infrared Spectral Imaging, Histopathology, and Immunohistochemistry. Cancers, 2021, 13, 5950.	3.7	0
4	Interference of hemolysis, hyperlipidemia, and icterus on plasma infrared spectral profile. Analytical and Bioanalytical Chemistry, 2020, 412, 805-810.	3.7	3
5	Infrared Microspectroscopy and Imaging Analysis of Inflammatory and Non-Inflammatory Breast Cancer Cells and Their GAG Secretome. Molecules, 2020, 25, 4300.	3.8	9
6	HS2ST1â€dependent signaling pathways determine breast cancer cell viability, matrix interactions, and invasive behavior. Cancer Science, 2020, 111, 2907-2922.	3.9	19
7	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. Analytical Chemistry, 2020, 92, 15745-15756.	6.5	46
8	Vibrational spectroscopy of liquid biopsies for prostate cancer diagnosis. Therapeutic Advances in Medical Oncology, 2020, 12, 175883592091849.	3.2	31
9	Vibrational Spectroscopy Saliva Profiling as Biometric Tool for Disease Diagnostics: A Systematic Literature Review. Molecules, 2020, 25, 4142.	3.8	24
10	Analysis of Hepatic Fibrosis Characteristics in Cirrhotic Patients with and without Hepatocellular Carcinoma by FTIR Spectral Imaging. Molecules, 2020, 25, 4092.	3.8	7
11	Label-Free Infrared Spectral Histology of Skin Tissue Part I: Impact of Lumican on Extracellular Matrix Integrity. Frontiers in Cell and Developmental Biology, 2020, 8, 320.	3.7	2
12	Label-Free Infrared Spectral Histology of Skin Tissue Part II: Impact of a Lumican-Derived Peptide on Melanoma Growth. Frontiers in Cell and Developmental Biology, 2020, 8, 377.	3.7	6
13	Effect of hemolysis on Fourier transform infrared and Raman spectra of blood plasma. Journal of Biophotonics, 2020, 13, e201960173.	2.3	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. Applied Spectroscopy, 2020, 74, 544-552.	2.2	15
15	Surface Enhanced Raman Spectroscopy for Quantitative Analysis: Results of a Large-Scale European Multi-Instrument Interlaboratory Study. Analytical Chemistry, 2020, 92, 4053-4064.	6.5	50
16	Investigating preâ€analytical requirements for serum and plasma based infrared spectroâ€diagnostic. Journal of Biophotonics, 2019, 12, e201900177.	2.3	14
17	Monitoring Radiotherapeutic Response in Prostate Cancer Patients Using High Throughput FTIR Spectroscopy of Liquid Biopsies. Cancers, 2019, 11, 925.	3.7	22
18	Raman spectroscopyâ€“based insight into lipid droplets presence and contents in liver sinusoidal endothelial cells and hepatocytes. Journal of Biophotonics, 2019, 12, e201800290.	2.3	24

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19	Characterization of inflammatory breast cancer: a vibrational microspectroscopy and imaging approach at the cellular and tissue level. Analyst, The, 2018, 143, 6103-6112.	3.5	18
20	Implementation of infrared and Raman modalities for glycosaminoglycan characterization in complex systems. Glycoconjugate Journal, 2017, 34, 309-323.	2.7	15
21	Demonstration of the Protein Involvement in Cell Electropermeabilization using Confocal Raman Microspectroscopy. Scientific Reports, 2017, 7, 40448.	3.3	27
22	Vibrational spectroscopy in sensing radiobiological effects: analyses of targeted and non-targeted effects in human keratinocytes. Faraday Discussions, 2016, 187, 213-234.	3.2	40
23	Developing and understanding biofluid vibrational spectroscopy: a critical review. Chemical Society Reviews, 2016, 45, 1803-1818.	38.1	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. Oncotarget, 2016, 7, 8546-8555.	1.8	20
25	Rapid screening of classic galactosemia patients: a proof-of-concept study using high-throughput FTIR analysis of plasma. Analyst, The, 2015, 140, 2280-2286.	3.5	29
26	Spectropathology for the next generation: Quo vadis?. Analyst, The, 2015, 140, 2066-2073.	3.5	106
27	Investigating optimum sample preparation for infrared spectroscopic serum diagnostics. Analytical Methods, 2015, 7, 7140-7149.	2.7	40
28	Bile analysis using highâ€throughput FTIR spectroscopy for the diagnosis of malignant biliary strictures: a pilot study in 57 patients. Journal of Biophotonics, 2014, 7, 241-253.	2.3	34
29	A microscopic and macroscopic study of aging collagen on its molecular structure, mechanical properties, and cellular response. FASEB Journal, 2014, 28, 14-25.	0.5	31
30	Probing single-tumor cell interactions with different-age type I collagen networks by synchrotron-based Fourier transform infrared microspectroscopy. Journal of Biomedical Optics, 2014, 19, 111612.	2.6	4
31	Study of gemcitabineâ€sensitive/resistant cancer cells by cell cloning and synchrotron FTIR microspectroscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 688-697.	1.5	24
32	Glycosaminoglycan profiling in different cell types using infrared spectroscopy and imaging. Analytical and Bioanalytical Chemistry, 2014, 406, 5795-5803.	3.7	25
33	Using Fourier transform IR spectroscopy to analyze biological materials. Nature Protocols, 2014, 9, 1771-1791.	12.0	1,385
34	Infrared spectral histopathology for cancer diagnosis: a novel approach for automated pattern recognition of colon adenocarcinoma. Analyst, The, 2014, 139, 4005-4015.	3.5	54
35	Infrared and Raman Imaging for Characterizing Complex Biological Materials: A Comparative Morpho-Spectroscopic Study of Colon Tissue. Applied Spectroscopy, 2014, 68, 57-68.	2.2	27
36	Identification of different subsets of lung cells using Raman microspectroscopy and whole cell nucleus isolation. Analyst, The, 2013, 138, 5052.	3.5	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. Translational Research, 2013, 162, 279-286.	5.0	33
38	Probing non-enzymatic glycation of type I collagen: A novel approach using Raman and infrared biophotonic methods. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3525-3531.	2.4	39
39	Infrared imaging as a cancer diagnostic tool: Introducing a new concept of spectral barcodes for identifying molecular changes in colon tumors. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83A, 294-300.	1.5	38
40	Characterization of Glycosaminoglycans by Tandem Vibrational Microspectroscopy and Multivariate Data Analysis. Methods in Molecular Biology, 2012, 836, 117-130.	0.9	17
41	Raman imaging of single living cells: probing effects of non-cytotoxic doses of an anti-cancer drug. Analyst, The, 2011, 136, 2718.	3.5	35
42	Noninvasive assessment of hepatic fibrosis in patients with chronic hepatitis C using serum Fourier transform infrared spectroscopy. Analytical and Bioanalytical Chemistry, 2011, 401, 2919-2925.	3.7	30
43	Rapid Characterization of Glycosaminoglycans Using a Combined Approach by Infrared and Raman Microspectroscopies. Journal of Pharmaceutical Sciences, 2011, 100, 441-450.	3.3	58
44	Studies of chemical fixation effects in human cell lines using Raman microspectroscopy. Analytical and Bioanalytical Chemistry, 2010, 396, 1781-1791.	3.7	122
45	Raman spectral imaging of single cancer cells: probing the impact of sample fixation methods. Analytical and Bioanalytical Chemistry, 2010, 397, 2727-2737.	3.7	57
46	Synchrotron-based FTIR spectra of stained single cells. Towards a clinical application in pathology. Laboratory Investigation, 2010, 90, 797-807.	3.7	46
47	FTIR microspectroscopy of stained cells and tissues. Application in cancer diagnosis. Spectroscopy, 2010, 24, 73-78.	0.8	8
48	Raman Microscopy: Complement or Competitor?. Metal Ions in Life Sciences, 2010, , 105-143.	1.0	19
49	FTIR spectroscopic discrimination of Saccharomyces cerevisiae and Saccharomyces bayanus strains. Canadian Journal of Microbiology, 2010, 56, 793-801.	1.7	19
50	IR spectroscopy reveals effect of non-cytotoxic doses of anti-tumour drug on cancer cells. Analytical and Bioanalytical Chemistry, 2009, 395, 2293-2301.	3.7	62
51	Raman spectral imaging of single living cancer cells: a preliminary study. Analyst, The, 2009, 134, 542-548.	3.5	110
52	Intracellular applications of analytical SERS spectroscopy and multispectral imaging. Chemical Society Reviews, 2008, 37, 993.	38.1	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. Applied Spectroscopy, 2007, 61, 1032-1039.	2.2	83
54	Epidemiological investigation and typing of Candida glabrata clinical isolates by FTIR spectroscopy. Journal of Microbiological Methods, 2007, 71, 325-331.	1.6	33

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55	P2-148: Synchrotron based FTIR spectroscopy of single cells. Applications in lung cancer diagnosis and management. Journal of Thoracic Oncology, 2007, 2, S549-S550.	1.1	0
56	Adding synchrotron radiation to infrared microspectroscopy: what's new in biomedical applications?. Trends in Biotechnology, 2007, 25, 40-44.	9.3	140
57	FTIR spectroscopy in medical mycology: applications to the differentiation and typing of Candida. Analytical and Bioanalytical Chemistry, 2007, 387, 1729-1737.	3.7	50
58	Correcting Attenuated Total Reflectionâ€"Fourier Transform Infrared Spectra for Water Vapor and Carbon Dioxide. Applied Spectroscopy, 2006, 60, 1029-1039.	2.2	70
59	Impact of Carbamylation on Type I Collagen Conformational Structure and Its Ability to Activate Human Polymorphonuclear Neutrophils. Chemistry and Biology, 2006, 13, 149-159.	6.0	87
60	FTIR spectroscopy as a potential tool to analyse structural modifications during morphogenesis of Candida albicans. Archives of Microbiology, 2006, 185, 277-285.	2.2	59
61	Pre-processing in biochemometrics: correction for path-length and temperature effects of water in FTIR bio-spectroscopy by EMSC. Journal of Chemometrics, 2006, 20, 402-417.	1.3	43
62	Combined Fourier transform infrared and Raman spectroscopic approach for identification of multidrug resistance phenotype in cancer cell lines. Biopolymers, 2006, 82, 462-470.	2.4	74
63	Fourier Transform Infrared and Raman Spectroscopy for Characterization of Listeria monocytogenes Strains. Applied and Environmental Microbiology, 2006, 72, 228-232.	3.1	79
64	Study of tumor cell invasion by Fourier transform infrared microspectroscopy. Biopolymers, 2005, 78, 311-317.	2.4	74
65	Rapid identification of Candida species by FT-IR microspectroscopy. Biochimica Et Biophysica Acta - General Subjects, 2005, 1724, 239-247.	2.4	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. The Journal of Physical Chemistry, 1995, 99, 1608-1613.	2.9	68