

# Jayakrupakar Nallala

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6928411/publications.pdf>

Version: 2024-02-01

28  
papers

659  
citations

623734

14  
h-index

713466

21  
g-index

28  
all docs

28  
docs citations

28  
times ranked

990  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mid-infrared multispectral tissue imaging using a chalcogenide fiber supercontinuum source. <i>Optics Letters</i> , 2018, 43, 999.	3.3	150
2	The Ratio 1660/1690 $\text{cm}^{-1}$ Measured by Infrared Microspectroscopy Is Not Specific of Enzymatic Collagen Cross-Links in Bone Tissue. <i>PLoS ONE</i> , 2011, 6, e28736.	2.5	74
3	Infrared spectral histopathology for cancer diagnosis: a novel approach for automated pattern recognition of colon adenocarcinoma. <i>Analyst, The</i> , 2014, 139, 4005-4015.	3.5	54
4	High-resolution FTIR imaging of colon tissues for elucidation of individual cellular and histopathological features. <i>Analyst, The</i> , 2016, 141, 630-639.	3.5	44
5	Infrared spectral imaging as a novel approach for histopathological recognition in colon cancer diagnosis. <i>Journal of Biomedical Optics</i> , 2012, 17, 116013.	2.6	41
6	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.	1.5	38
7	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.	2.2	27
8	Chemico-mechanical imaging of Barrett's oesophagus. <i>Journal of Biophotonics</i> , 2016, 9, 694-700.	2.3	27
9	Evaluation of different tissue de-paraffinization procedures for infrared spectral imaging. <i>Analyst, The</i> , 2015, 140, 2369-2375.	3.5	26
10	Detection of A $\beta$ 2 plaque-associated astrogliosis in Alzheimer's disease brain by spectroscopic imaging and immunohistochemistry. <i>Analyst, The</i> , 2018, 143, 850-857.	3.5	26
11	Calcification Microstructure Reflects Breast Tissue Microenvironment. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2019, 24, 333-342.	2.7	25
12	Enhanced spectral histology in the colon using high-magnification benchtop FTIR imaging. <i>Vibrational Spectroscopy</i> , 2017, 91, 83-91.	2.2	24
13	Rapid infrared mapping for highly accurate automated histology in Barrett's oesophagus. <i>Analyst, The</i> , 2017, 142, 1227-1234.	3.5	22
14	Multiple Pathway-Based Genetic Variations Associated with Tobacco Related Multiple Primary Neoplasms. <i>PLoS ONE</i> , 2012, 7, e30013.	2.5	14
15	Multimodal registration of optical microscopic and infrared spectroscopic images from different tissue sections: An application to colon cancer. , 2017, 68, 1-15.		13
16	A highly stable, nanotube-enhanced, CMOS-MEMS thermal emitter for mid-IR gas sensing. <i>Scientific Reports</i> , 2021, 11, 22915.	3.3	11
17	Discrimination of skin cancer cells using Fourier transform infrared spectroscopy. <i>Computers in Biology and Medicine</i> , 2018, 100, 50-61.	7.0	10
18	Characterization of colorectal mucus using infrared spectroscopy: a potential target for bowel cancer screening and diagnosis. <i>Laboratory Investigation</i> , 2020, 100, 1102-1110.	3.7	10

#	ARTICLE	IF	CITATIONS
19	A multi-modal exploration of heterogeneous physico-chemical properties of DCIS breast microcalcifications. Analyst, The, 2022, 147, 1641-1654.	3.5	5
20	Identification of GI cancers utilising rapid mid-infrared spectral imaging. Proceedings of SPIE, 2016, , .	0.8	4
21	Multivariate classification of fourier transform infrared hyperspectral images of skin cancer cells. , 2016, , .		3
22	Performance of mid infrared spectroscopy in skin cancer cell type identification. , 2017, , .		3
23	Fast hyper-spectral imaging of cytological samples in the mid-infrared wavelength region. Proceedings of SPIE, 2017, , .	0.8	3
24	Potential of mid IR spectroscopy in the rapid label free identification of skin malignancies. , 2016, , .		2
25	A two-step framework for the registration of HE stained and FTIR images. , 2016, , .		1
26	Mid-infrared spectroscopy in skin cancer cell type identification. Proceedings of SPIE, 2017, , .	0.8	1
27	Infrared Spectroscopic Analysis in the Differentiation of Epithelial Misplacement From Adenocarcinoma in Sigmoid Colonic Adenomatous Polyps. BMC Clinical Pathology, 2022, 15, 2632010X2210889.	1.7	1
28	Mid-infrared fiber-coupled supercontinuum spectroscopic imaging using a tapered chalcogenide photonic crystal fiber. , 2018, , .		0