

# Murali Krishna Chilakapati

## List of Publications by Year in descending order

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83  
papers

2,622  
citations

172207

29  
h-index

197535

49  
g-index

83  
all docs

83  
docs citations

83  
times ranked

2264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrimination of normal, inflammatory, premalignant, and malignant oral tissue: A Raman spectroscopy study. <i>Biopolymers</i> , 2006, 81, 179-193.	1.2	280
2	Discrimination of normal, benign, and malignant breast tissues by Raman spectroscopy. <i>Biopolymers</i> , 2006, 83, 556-569.	1.2	125
3	Raman spectroscopy of serum: an exploratory study for detection of oral cancers. <i>Analyst, The</i> , 2013, 138, 4161.	1.7	110
4	Micro-Raman Spectroscopy for Optical Pathology of Oral Squamous Cell Carcinoma. <i>Applied Spectroscopy</i> , 2004, 58, 1128-1135.	1.2	103
5	<i>In vivo</i> Raman spectroscopic identification of premalignant lesions in oral buccal mucosa. <i>Journal of Biomedical Optics</i> , 2012, 17, 1050021.	1.4	103
6	Raman spectroscopy studies for diagnosis of cancers in human uterine cervix. <i>Vibrational Spectroscopy</i> , 2006, 41, 136-141.	1.2	95
7	FTIR and Raman microspectroscopy of normal, benign, and malignant formalin-fixed ovarian tissues. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1649-1656.	1.9	85
8	<i>In vivo</i> Raman spectroscopy of oral buccal mucosa: a study on malignancy associated changes (MAC)/cancer field effects (CFE). <i>Analyst, The</i> , 2013, 138, 4175.	1.7	85
9	Discrimination of Normal and Malignant Mucosal Tissues of the Colon by Raman Spectroscopy. <i>Photomedicine and Laser Surgery</i> , 2007, 25, 269-274.	2.1	77
10	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
11	Micro-Raman spectroscopy of mixed cancer cell populations. <i>Vibrational Spectroscopy</i> , 2005, 38, 95-100.	1.2	70
12	Recurrence prediction in oral cancers: a serum Raman spectroscopy study. <i>Analyst, The</i> , 2015, 140, 2294-2301.	1.7	60
13	Serum Based Diagnosis of Asthma Using Raman Spectroscopy: An Early Phase Pilot Study. <i>PLoS ONE</i> , 2013, 8, e78921.	1.1	56
14	Development of integrated microfluidic platform coupled with Surface-enhanced Raman Spectroscopy for diagnosis of COVID-19. <i>Medical Hypotheses</i> , 2021, 146, 110356.	0.8	55
15	Prediction of radiotherapy response in cervix cancer by Raman spectroscopy: A pilot study. <i>Biopolymers</i> , 2008, 89, 530-537.	1.2	54
16	Comparative evaluation of spectroscopic models using different multivariate statistical tools in a multicancer scenario. <i>Journal of Biomedical Optics</i> , 2011, 16, 025003.	1.4	53
17	Fluorescence spectroscopic characterization of salivary metabolites of oral cancer patients. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 130, 153-160.	1.7	50
18	Biochemical correlation of Raman spectra of normal, benign and malignant breast tissues: A spectral deconvolution study. <i>Biopolymers</i> , 2009, 91, 539-546.	1.2	48

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19	Autofluorescence of oral tissue for optical pathology in oral malignancy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2004, 73, 49-58.	1.7	46
20	Raman Spectroscopic Study of Radioresistant Oral Cancer Sublines Established by Fractionated Ionizing Radiation. <i>PLoS ONE</i> , 2014, 9, e97777.	1.1	42
21	Raman Spectroscopy of Oral Buccal Mucosa: A Study on Age-Related Physiological Changes and Tobacco-Related Pathological Changes. <i>Technology in Cancer Research and Treatment</i> , 2012, 11, 529-541.	0.8	39
22	Raman spectroscopic study on classification of cervical cell specimens. <i>Vibrational Spectroscopy</i> , 2013, 68, 115-121.	1.2	39
23	Raman spectroscopy of breast tissues. <i>Expert Review of Molecular Diagnostics</i> , 2008, 8, 149-166.	1.5	37
24	Raman spectroscopy of normal oral buccal mucosa tissues: study on intact and incised biopsies. <i>Journal of Biomedical Optics</i> , 2011, 16, 127004.	1.4	37
25	Diagnosis of Ovarian Cancer by Raman Spectroscopy: A Pilot Study. <i>Photomedicine and Laser Surgery</i> , 2008, 26, 83-90.	2.1	35
26	Raman spectroscopy and cytopathology of oral exfoliated cells for oral cancer diagnosis. <i>Analytical Methods</i> , 2015, 7, 7548-7559.	1.3	34
27	Vibrational spectroscopy studies of formalin-fixed cervix tissues. <i>Biopolymers</i> , 2007, 85, 214-221.	1.2	33
28	In vivo Raman spectroscopy-assisted early identification of potential second primary/recurrences in oral cancers: An exploratory study. <i>Head and Neck</i> , 2017, 39, 2216-2223.	0.9	32
29	Swiss bare mice: a suitable model for transcutaneous in vivo Raman spectroscopic studies of breast cancer. <i>Lasers in Medical Science</i> , 2014, 29, 325-333.	1.0	31
30	Oral cancer screening: serum Raman spectroscopic approach. <i>Journal of Biomedical Optics</i> , 2015, 20, 115006.	1.4	31
31	Rapid Discrimination of Malaria- and Dengue-Infected Patients Sera Using Raman Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 7054-7062.	3.2	29
32	Characterisation of uterine sarcoma cell lines exhibiting MDR phenotype by vibrational spectroscopy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1726, 160-167.	1.1	27
33	Characterization and Diagnosis of Cancer by Native Fluorescence Spectroscopy of Human Urine. <i>Photochemistry and Photobiology</i> , 2013, 89, 483-491.	1.3	27
34	An overview on applications of optical spectroscopy in cervical cancers. <i>Journal of Cancer Research and Therapeutics</i> , 2008, 4, 26.	0.3	27
35	Evaluation of the suitability of ex vivo handled ovarian tissues for optical diagnosis by Raman microspectroscopy. <i>Biopolymers</i> , 2005, 79, 269-276.	1.2	26
36	In vivo subsite classification and diagnosis of oral cancers using Raman spectroscopy. <i>Journal of Innovative Optical Health Sciences</i> , 2016, 09, 1650017.	0.5	25

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37	Raman spectroscopy in cervical cancers: An update. <i>Journal of Cancer Research and Therapeutics</i> , 2015, 11, 10.	0.3	24
38	Discrimination of normal and malignant stomach mucosal tissues by Raman spectroscopy: A pilot study. <i>Vibrational Spectroscopy</i> , 2007, 44, 382-387.	1.2	23
39	Unique spectral markers discern recurrent Glioblastoma cells from heterogeneous parent population. <i>Scientific Reports</i> , 2016, 6, 26538.	1.6	22
40	Raman Spectroscopy of Experimental Oral Carcinogenesis. <i>Technology in Cancer Research and Treatment</i> , 2016, 15, NP60-NP72.	0.8	21
41	Raman exfoliative cytology for prognosis prediction in oral cancers: A proof of concept study. <i>Journal of Biophotonics</i> , 2019, 12, e201800334.	1.1	21
42	Predictive and Prognostic Significance of Glutathione Levels and DNA Damage in Cervix Cancer Patients Undergoing Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 343-349.	0.4	20
43	A preliminary Raman spectroscopic study of urine: diagnosis of breast cancer in animal models. <i>Analyst</i> , 2015, 140, 456-466.	1.7	20
44	Raman exfoliative cytology for oral precancer diagnosis. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	1.4	20
45	Raman spectroscopy in head and neck cancers: Toward oncological applications. <i>Journal of Cancer Research and Therapeutics</i> , 2012, 8, 126.	0.3	20
46	Raman spectroscopic studies of oral cancers: correlation of spectral and biochemical markers. <i>Analytical Methods</i> , 2014, 6, 8613-8620.	1.3	19
47	Autofluorescence of Breast Tissues: Evaluation of Discriminating Algorithms for Diagnosis of Normal, Benign, and Malignant Conditions. <i>Photomedicine and Laser Surgery</i> , 2009, 27, 241-252.	2.1	18
48	RAMAN SPECTROSCOPIC STUDY ON PREDICTION OF TREATMENT RESPONSE IN CERVICAL CANCERS. <i>Journal of Innovative Optical Health Sciences</i> , 2013, 06, 1350014.	0.5	13
49	Raman spectroscopic diagnosis of breast cancers: evaluation of models. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 1276-1282.	1.2	12
50	Investigating the effects of Pentoxifylline on human breast cancer cells using Raman spectroscopy. <i>Journal of Innovative Optical Health Sciences</i> , 2015, 08, 1550004.	0.5	12
51	Exploration of Raman exfoliated cytology for oral and cervical cancers. <i>Vibrational Spectroscopy</i> , 2018, 98, 35-40.	1.2	12
52	Raman Spectroscopy: An Exploratory Study to Identify Post-Radiation Cell Survival. <i>Applied Spectroscopy</i> , 2020, 74, 553-562.	1.2	12
53	Raman Spectroscopic Methods for Classification of Normal and Malignant Hypopharyngeal Tissues: An Exploratory Study. <i>Pathology Research International</i> , 2011, 2011, 1-9.	1.4	12
54	Influence of intermolecular amide hydrogen bonding on the geometry, atomic charges, and spectral modes of acetanilide: An ab initio study. <i>Laser Physics</i> , 2006, 16, 1253-1263.	0.6	11

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55	Raman spectroscopy of serum: A study on oral cancers. <i>Biomedical Spectroscopy and Imaging</i> , 2015, 4, 171-187.	1.2	11
56	Identification of Molecular Basis for Objective Discrimination of Breast Cancer Cells (MCF-7) from Normal Human Mammary Epithelial Cells by Raman Microspectroscopy and Multivariate Curve Resolution Analysis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 800.	1.8	11
57	Raman spectroscopy in experimental oral carcinogenesis: investigation of abnormal changes in control tissues. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1318-1326.	1.2	10
58	Transcutaneous <i>in vivo</i> Raman spectroscopy: Detection of age-related changes in mouse breast. <i>Vibrational Spectroscopy</i> , 2013, 67, 80-86.	1.2	8
59	Raman spectroscopy of serum: A study on <i>pre</i> ™ and <i>post</i> ™ breast adenocarcinoma resection in rat models. <i>Journal of Biophotonics</i> , 2015, 8, 575-583.	1.1	8
60	Transcutaneous <i>in vivo</i> Raman spectroscopic studies in a mouse model: evaluation of changes in the breast associated with pregnancy and lactation. <i>Journal of Biomedical Optics</i> , 2013, 18, 047004.	1.4	7
61	Identification of morphological and biochemical changes in keratin 8/18 knockdown cells using Raman spectroscopy. <i>Journal of Biophotonics</i> , 2017, 10, 1377-1384.	1.1	7
62	Optical diagnostics in oral cancer: An update on Raman spectroscopic applications. <i>Journal of Cancer Research and Therapeutics</i> , 2017, 13, 908-915.	0.3	7
63	Exploring the effect of vitamin E in cancer chemotherapy—A biochemical and biophysical insight. <i>Journal of Biophotonics</i> , 2018, 11, e201800104.	1.1	6
64	Effect of Cold Atmospheric Plasma Jet and Gamma Radiation Treatments on Gingivobuccal Squamous Cell Carcinoma and Breast Adenocarcinoma Cells. <i>Plasma Chemistry and Plasma Processing</i> , 2022, 42, 163-178.	1.1	6
65	Perspectives of optical coherence tomography imaging and Raman spectroscopy in cancer diagnosis. <i>Biomedical Spectroscopy and Imaging</i> , 2015, 4, 35-55.	1.2	5
66	Transcutaneous <i>in vivo</i> Raman spectroscopy of breast tumors and pretumors. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 1053-1061.	1.2	5
67	Salivary Raman Spectroscopy: Standardization of Sampling Protocols and Stratification of Healthy and Oral Cancer Subjects. <i>Applied Spectroscopy</i> , 2021, 75, 581-588.	1.2	5
68	Studies on p-nitroacetophenone triplet state. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1996, 95, 111-113.	2.0	4
69	DNA Fingerprint Analysis of Raman Spectra Captures Global Genomic Alterations in Imatinib-Resistant Chronic Myeloid Leukemia: A Potential Single Assay for Screening Imatinib Resistance. <i>Cells</i> , 2021, 10, 2506.	1.8	4
70	Studies on p-nitroacetophenone-sensitized lipid peroxidation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1996, 34, 47-50.	1.7	3
71	Surface-enhanced Raman scattering of methyl p-hydroxy benzoate: A molecular orientational study. <i>Laser Physics</i> , 2007, 17, 1217-1221.	0.6	3
72	Protein profile study of breast tissue homogenates by HPLC-ELIF. <i>Journal of Biophotonics</i> , 2009, 2, 313-321.	1.1	3

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73	Quality assessment of cryopreserved biospecimens reveals presence of intact biomolecules. Journal of Biophotonics, 2019, 12, e201960048.	1.1	3
74	Distinct stratification of normal liver, hepatocellular carcinoma (HCC), and anticancer nanomedicine-treated- tumor tissues by Raman fingerprinting for HCC therapeutic monitoring. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 33, 102352.	1.7	3
75	Growth Kinetics Monitoring of Gram-Negative Pathogenic Microbes Using Raman Spectroscopy. Applied Spectroscopy, 2022, 76, 1263-1271.	1.2	3
76	BSA-drug-ZnO-PEI conjugates interaction with glycans of gp60 endothelial cell receptor protein for targeted drug delivery: a comprehensive spectroscopic study. Journal of Biomolecular Structure and Dynamics, 2022, 40, 9253-9269.	2.0	2
77	Emerging Advanced Technologies Developed by IPR for Bio Medical Applications –A Review. Neurology India, 2020, 68, 26.	0.2	2
78	Serum protein profile studies of cervical cancers in monitoring of tumor response to radiotherapy using HPLC-LIF: A pilot study. Medical Laser Application: International Journal for Laser Treatment and Research, 2009, 24, 165-174.	0.4	1
79	Raman spectroscopy for less invasive and online medical applications. , 2010, , .		1
80	Risk prediction by Raman spectroscopy for disease-free survival in oral cancers. Lasers in Medical Science, 2021, 36, 1691-1700.	1.0	1
81	Raman micro-spectroscopic map estimating in vivo precision of tumor ablative effect achieved by photothermal therapy procedure. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 37, 102437.	1.7	1
82	Raman mapping studies of human ectocervical tissue. , 2013, , .		0
83	Water Concentration Analysis of the Surgical Margin –Letter. Cancer Research, 2017, 77, 3121-3122.	0.4	0