

Aruna Prakasarao

List of Publications by Year in descending order

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43
papers

651
citations

471509

17
h-index

610901

24
g-index

43
all docs

43
docs citations

43
times ranked

911
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into the binding of thiosemicarbazone derivatives with human serum albumin: spectroscopy and molecular modelling studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 1264-1281.	3.5	50
2	Raman spectroscopic characterization of urine of normal and oral cancer subjects. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 84-93.	2.5	42
3	Green synthesis of white light emitting carbon quantum dots: Fabrication of white fluorescent film and optical sensor applications. <i>Journal of Hazardous Materials</i> , 2021, 416, 125091.	12.4	39
4	Exploring the Binding Interaction Mechanism of Taxol in β -Tubulin and Bovine Serum Albumin: A Biophysical Approach. <i>Molecular Pharmaceutics</i> , 2019, 16, 669-681.	4.6	33
5	Determination on the binding of thiadiazole derivative to human serum albumin: a spectroscopy and computational approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 817-828.	3.5	31
6	Near-infrared Raman spectroscopy for estimating biochemical changes associated with different pathological conditions of cervix. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 190, 409-416.	3.9	27
7	Comparative Binding Analysis of <i>N</i> -Acetylneuraminic Acid in Bovine Serum Albumin and Human β -1 Acid Glycoprotein. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 326-338.	5.4	26
8	Chitosan mediated 5-Fluorouracil functionalized silica nanoparticle from rice husk for anticancer activity. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 969-980.	7.5	25
9	Near-infrared Raman spectroscopic characterization of salivary metabolites in the discrimination of normal from oral premalignant and malignant conditions. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 763-772.	2.5	22
10	Diffuse reflectance spectroscopy for monitoring physiological and morphological changes in oral cancer. <i>Optik</i> , 2016, 127, 1479-1485.	2.9	22
11	Polarized Raman spectroscopy unravels the biomolecular structural changes in cervical cancer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 152, 58-63.	3.9	22
12	Raman mapping of oral tissues for cancer diagnosis. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 541-549.	2.5	21
13	High wavenumber Raman spectroscopy in the characterization of urinary metabolites of normal subjects, oral premalignant and malignant patients. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 171, 52-59.	3.9	21
14	A cytotoxicity, optical spectroscopy and computational binding analysis of 4-((3-((acetylamino)-2-methyl-2,3-dihydro-1,3,4-thiadiazole-2-yl)phenyl)benzoate in calf thymus DNA. <i>Luminescence</i> , 2018, 33, 731-741.		20
15	Near infrared Raman spectroscopic characterization of blood plasma of normal, oral premalignant and malignant conditions—a pilot study. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 735-743.	2.5	19
16	Synthesis and formulation of methotrexate (MTX) conjugated LaF ₃ :Tb ³⁺ /chitosan nanoparticles for targeted drug delivery applications. <i>Biomedicine and Pharmacotherapy</i> , 2015, 69, 170-178.	5.6	19
17	Steady-state and time-resolved fluorescence spectroscopic characterization of urine of healthy subjects and cervical cancer patients. <i>Journal of Biomedical Optics</i> , 2014, 19, 037003.	2.6	18
18	Enhanced Emission of Zinc Nitride Colloidal Nanoparticles with Organic Dyes for Optical Sensors and Imaging Application. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19245-19257.	8.0	17

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19	Characterization of blood plasma of normal and cervical cancer patients using NIR raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2019, 102, 1-7.	2.2	16
20	Pulsed laser deposition of nanostructured bioactive glass and hydroxyapatite coatings: Microstructural and electrochemical characterization. <i>Materials Science and Engineering C</i> , 2021, 130, 112459.	7.3	16
21	Native Fluorescence and Time Resolved Fluorescence Spectroscopic Characterization of Normal and Malignant Oral Tissues Under UV Excitation—An In Vitro Study. <i>Journal of Fluorescence</i> , 2014, 24, 613-623.	2.5	14
22	Investigation of Optical Spectroscopic and Computational Binding Mode of Bovine Serum Albumin with 1, 4-Bis((4-(Heptylpiperazin-1-yl) Methyl)-1, 2, 3-Triazol-4-yl) Methyl) Benzene. <i>Journal of Biochemical and Molecular Toxicology</i> , 2015, 29, 373-381.	3.0	14
23	Photodynamic therapy of oral leukoplakia and oral lichen planus using methylene blue: A pilot study. <i>Journal of Innovative Optical Health Sciences</i> , 2015, 08, 1540005.	1.0	14
24	Effect of Moderate UVC Irradiation on Bovine Serum Albumin and Complex with Antimetabolite 5-Fluorouracil: Fluorescence Spectroscopic and Molecular Modelling Studies. <i>International Journal of Spectroscopy</i> , 2015, 2015, 1-12.	1.6	12
25	Synthesis of 5-Fluorouracil conjugated LaF ₃ :Tb ³⁺ /PEG-COOH nanoparticles and its studies on the interaction with bovine serum albumin: spectroscopic approach. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	11
26	N-Doped zinc oxide as an effective fluorescence sensor for urea detection. <i>New Journal of Chemistry</i> , 2021, 45, 6080-6090.	2.8	10
27	Investigations on the Interactions of 5-Fluorouracil with Herring Sperm DNA: Steady State/Time Resolved and Molecular Modeling Studies. <i>Biophysical Reviews and Letters</i> , 2015, 10, 115-133.	0.8	8
28	Optical Fiber-Based Steady State and Fluorescence Lifetime Spectroscopy for Rapid Identification and Classification of Bacterial Pathogens Directly from Colonies on Agar Plates. <i>International Scholarly Research Notices</i> , 2014, 2014, 1-7.	0.9	7
29	Synchronous Luminescence Spectroscopy as a Tool in the Discrimination and Characterization of Oral Cancer Tissue. <i>Journal of Fluorescence</i> , 2019, 29, 361-367.	2.5	7
30	Polarization gating technique extracts depth resolved fluorescence redox ratio in oral cancer diagnostics. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020, 30, 101757.	2.6	7
31	Steady-state and fluorescence lifetime spectroscopy for identification and classification of bacterial pathogens. <i>Biomedical Spectroscopy and Imaging</i> , 2014, 3, 381-391.	1.2	6
32	Ascertaining of age by Raman spectroscopic analysis of apical dentin — A forensic study. <i>Journal of Forensic Dental Sciences</i> , 2019, 11, 11.	0.4	6
33	An in vitro diagnosis of oral premalignant lesion using time-resolved fluorescence spectroscopy under UV excitation—a pilot study. <i>Photodiagnosis and Photodynamic Therapy</i> , 2016, 14, 18-24.	2.6	5
34	Monitoring of breast cancer patients under pre and post treated conditions using Raman spectroscopic analysis of blood plasma. <i>Vibrational Spectroscopy</i> , 2019, 105, 102982.	2.2	5
35	A pilot study on parallel factor analysis as a diagnostic tool for oral cancer diagnosis: A statistical modeling approach. <i>Journal of Chemometrics</i> , 2021, 35, e3315.	1.3	5
36	Synthesis and Characterization of Gd ³⁺ Doped HfO ₂ Nanoparticles for Radiotherapy Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 819-827.	0.9	4

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37	Monitoring Breast Cancer Response to Treatment Using Stokes Shift Spectroscopy of Blood Plasma. Journal of Fluorescence, 2019, 29, 803-812.	2.5	3
38	Monte Carlo based model for diffuse reflectance from turbid media for the diagnosis of epithelial dysplasia. Optik, 2019, 181, 828-835.	2.9	3

39