

Ramapurath S. Jayasree

List of Publications by Year in descending order

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68
papers

1,543
citations

304743

22
h-index

345221

36
g-index

70
all docs

70
docs citations

70
times ranked

2550
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescence Imaging Assisted Photodynamic Therapy Using Photosensitizer-Linked Gold Quantum Clusters. ACS Nano, 2015, 9, 5825-5832.	14.6	128
2	Citrate coated iron oxide nanoparticles with enhanced relaxivity for in vivo magnetic resonance imaging of liver fibrosis. Colloids and Surfaces B: Biointerfaces, 2014, 117, 216-224.	5.0	89
3	Synthesis and characterization of dextran stabilized superparamagnetic iron oxide nanoparticles for in vivo MR imaging of liver fibrosis. Carbohydrate Polymers, 2014, 101, 760-768.	10.2	79
4	A Near-Infrared Fluorescent Nanosensor (Au@Urease) for the Selective Detection of Blood Urea. Small, 2013, 9, 2673-2677.	10.0	68
5	Segmentation and volumetric analysis of the caudate nucleus in Alzheimer's disease. European Journal of Radiology, 2013, 82, 1525-1530.	2.6	55
6	The Influence of Photodynamic Therapy on the Wound Healing Process in Rats. Journal of Biomaterials Applications, 2001, 15, 176-186.	2.4	53
7	Quantum Dot Tailored to Single Wall Carbon Nanotubes: A Multifunctional Hybrid Nanoconstruct for Cellular Imaging and Targeted Photothermal Therapy. Small, 2014, 10, 2771-2775.	10.0	52
8	A Cyclometalated Ir(III) Complex as a Lysosome-Targeted Photodynamic Therapeutic Agent for Integrated Imaging and Therapy in Cancer Cells. Chemistry - A European Journal, 2018, 24, 10999-11007.	3.3	49
9	Effect of substrate roughness on photoluminescence spectra of silicon nanocrystals grown by off axis pulsed laser deposition. Journal of Applied Physics, 2006, 100, 014302.	2.5	47
10	Blood brain barrier permeable gold nanocluster for targeted brain imaging and therapy: an in vitro and in vivo study. Journal of Materials Chemistry B, 2017, 5, 8314-8321.	5.8	43
11	Multifunctional hybrid nanoconstruct of zerovalent iron and carbon dots for magnetic resonance angiography and optical imaging: An In vivo study. Biomaterials, 2018, 171, 46-56.	11.4	36
12	Flower shaped assembly of cobalt ferrite nanoparticles: application as T2 contrast agent in MRI. RSC Advances, 2013, 3, 6906.	3.6	31
13	Raman and infrared spectral analysis of thallium niobyl phosphates: $Tl_2NbO_2PO_4$, $Tl_3NaNb_4O_9(PO_4)_2$ and $TlNbOP_2O_7$. Materials Chemistry and Physics, 2002, 73, 179-185.	4.0	30
14	Investigation of apoptotic events at molecular level induced by SERS guided targeted theranostic nanoprobe. Nanoscale, 2016, 8, 11392-11397.	5.6	30
15	Fractal analysis: fractal dimension and lacunarity from MR images for differentiating the grades of glioma. Physics in Medicine and Biology, 2015, 60, 6937-6947.	3.0	29
16	Raman and infrared spectral analysis of corrosion products on zinc $NaZn_4Cl(OH)_6SO_4 \cdot 6H_2O$ and $Zn_4Cl_2(OH)_4SO_4 \cdot 5H_2O$. Materials Chemistry and Physics, 2006, 99, 474-478.	4.0	28
17	An aqueous method for the controlled manganese (Mn^{2+}) substitution in superparamagnetic iron oxide nanoparticles for contrast enhancement in MRI. Physical Chemistry Chemical Physics, 2015, 17, 4609-4619.	2.8	27
18	Fluorescent nanonetworks: A novel bioalley for collagen scaffolds and Tissue Engineering. Scientific Reports, 2015, 4, 5968.	3.3	26

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19	Synthesis of pure and biocompatible gold nanoparticles using laser ablation method for SERS and photothermal applications. <i>Current Applied Physics</i> , 2017, 17, 1430-1438.	2.4	26
20	Three-year follow-up of oral leukoplakia after neodymium:yttrium aluminum garnet (Nd:YAG) laser surgery. <i>Lasers in Medical Science</i> , 2008, 23, 375-379.	2.1	25
21	Optimum Wavelength for the Differentiation of Brain Tumor Tissue Using Autofluorescence Spectroscopy. <i>Photomedicine and Laser Surgery</i> , 2009, 27, 425-433.	2.0	25
22	Fluorescence spectroscopy to discriminate neoplastic human brain lesions: a study using the spectral intensity ratio and multivariate linear discriminant analysis. <i>Laser Physics</i> , 2014, 24, 025602.	1.2	25
23	Habits with killer instincts: in vivo analysis on the severity of oral mucosal alterations using autofluorescence spectroscopy. <i>Journal of Biomedical Optics</i> , 2011, 16, 087006.	2.6	24
24	Fluorescence spectroscopy as an efficient tool for staging the degree of liver fibrosis: an in vivo comparison with MRI. <i>Scientific Reports</i> , 2018, 8, 10967.	3.3	24
25	Multifunctional nano manganese ferrite ferrofluid for efficient theranostic application. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 1089-1097.	5.0	23
26	Gold nanorods decorated with a cancer drug for multimodal imaging and therapy. <i>Faraday Discussions</i> , 2018, 207, 423-435.	3.2	23
27	Vanadium pentoxide nanoparticle mediated perturbations in cellular redox balance and the paradigm of autophagy to apoptosis. <i>Free Radical Biology and Medicine</i> , 2020, 161, 198-211.	2.9	23
28	Fluorescence spectroscopy as a highly potential single-entity tool to identify chromophores and fluorophores: study on neoplastic human brain lesions. <i>Journal of Biomedical Optics</i> , 2013, 18, 067002.	2.6	20
29	Noninvasive assessment of the risk of tobacco abuse in oral mucosa using fluorescence spectroscopy: a clinical approach. <i>Journal of Biomedical Optics</i> , 2014, 19, 057013.	2.6	20
30	Relative percentage signal intensity recovery of perfusion metrics as an efficient tool for differentiating grades of glioma. <i>British Journal of Radiology</i> , 2015, 88, 20140784.	2.2	20
31	Effect of thermal annealing on the structural and optical properties of nanostructured zinc oxide thin films prepared by pulsed laser ablation. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 74-78.	6.2	19
32	Total magnitude of diffusion tensor imaging as an effective tool for the differentiation of glioma. <i>European Journal of Radiology</i> , 2013, 82, 857-861.	2.6	19
33	Development of Artificial Skin (Template) and Influence of Different Types of Sterilization Procedures on Wound Healing Pattern in Rabbits and Guinea Pigs. <i>Journal of Biomaterials Applications</i> , 1995, 10, 144-162.	2.4	18
34	Autofluorescence Spectroscopy for the <i>In Vivo</i> Evaluation of Oral Submucous Fibrosis. <i>Photomedicine and Laser Surgery</i> , 2009, 27, 757-761.	2.0	18
35	Real Time Imaging and Dynamics of Hippocampal Zn ²⁺ under Epileptic Condition Using a Ratiometric Fluorescent Probe. <i>Scientific Reports</i> , 2018, 8, 9069.	3.3	18
36	Nanohybrids of Magnetically Intercalated Optical Metamaterials for Magnetic Resonance/Raman Imaging and <i>In Situ</i> Chemodynamic/Photothermal Therapy. <i>ACS Applied Bio Materials</i> , 2021, 4, 5742-5752.	4.6	18

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37	Autofluorescence Spectroscopy Augmented by Multivariate Analysis as a Potential Noninvasive Tool for Early Diagnosis of Oral Cavity Disorders. <i>Photomedicine and Laser Surgery</i> , 2013, 31, 605-612.	2.0	17
38	Optical diagnosis of the progression and reversal of CCl ₄ -induced liver injury in rodent model using minimally invasive autofluorescence spectroscopy. <i>Analyst, The</i> , 2015, 140, 3773-3780.	3.5	17
39	Evaluation of Antitumor Activity of Hesperetin-Loaded Nanoparticles Against DMBA-Induced Oral Carcinogenesis Based on Tissue Autofluorescence Spectroscopy and Multivariate Analysis. <i>Journal of Fluorescence</i> , 2015, 25, 931-939.	2.5	16
40	Optically controlled hybrid metamaterial of plasmonic spiky gold inbuilt graphene sheets for bimodal imaging guided multimodal therapy. <i>Biomaterials Science</i> , 2020, 8, 3381-3391.	5.4	16
41	Endogenous porphyrin fluorescence as a biomarker for monitoring the anti-angiogenic effect in antitumor response to hesperetin loaded nanoparticles in experimental oral carcinogenesis. <i>RSC Advances</i> , 2014, 4, 46896-46906.	3.6	15
42	Spectroscopic and thermal analysis of a submandibular sialolith of Wharton's duct resected using Nd:YAG laser. <i>Lasers in Medical Science</i> , 2008, 23, 125-131.	2.1	14
43	Asialoglycoprotein receptor targeted optical and magnetic resonance imaging and therapy of liver fibrosis using pullulan stabilized multi-functional iron oxide nanoprobe. <i>Scientific Reports</i> , 2021, 11, 18324.	3.3	14
44	Infrared and Polarized Raman Spectra of Tetramethyl Ammonium Cerium(III) Bis(sulfate) Trihydrate. <i>Journal of Solid State Chemistry</i> , 1996, 127, 51-55.	2.9	13
45	Graphene-Gold Nanohybrid-Based Surface-Enhanced Raman Scattering Platform on a Portable Easy-to-Use Centrifugal Prototype for Liquid Biopsy Detection of Circulating Breast Cancer Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15496-15505.	6.7	13
46	An insight into the optical properties of a sub nanosize glutathione stabilized gold cluster. <i>Dalton Transactions</i> , 2016, 45, 11286-11291.	3.3	12
47	Luminescent Gold Nanorods To Enhance the Near-Infrared Emission of a Photosensitizer for Targeted Cancer Imaging and Dual Therapy: Experimental and Theoretical Approach. <i>Chemistry - A European Journal</i> , 2020, 26, 2826-2836.	3.3	12
48	A dual signal on-off fluorescent nanosensor for the simultaneous detection of copper and creatinine. <i>Materials Science and Engineering C</i> , 2020, 109, 110569.	7.3	12
49	Effect of 980-nm Diode Laser and 1064-nm Nd:YAG Laser on the Intervertebral Disc In Vitro and In Vivo Studies. <i>Photomedicine and Laser Surgery</i> , 2009, 27, 547-552.	2.0	11
50	Monitoring the metabolic response to nanoencapsulated silibinin treatment in DMBA-induced oral carcinogenesis using endogenous fluorescence. <i>Analytical Methods</i> , 2014, 6, 9744-9753.	2.7	10
51	Infrared and Polarized Raman Spectra of RbAl(SO ₄) ₂ ·12H ₂ O. <i>Journal of Solid State Chemistry</i> , 1996, 122, 333-337.	2.9	9
52	Optical redox ratio using endogenous fluorescence to assess the metabolic changes associated with treatment response of bioconjugated gold nanoparticles in streptozotocin-induced diabetic rats. <i>Laser Physics Letters</i> , 2017, 14, 065901.	1.4	8
53	Forensic application of fluorescence spectroscopy: An efficient technique to predict the presence of human saliva. <i>Journal of Luminescence</i> , 2018, 203, 696-701.	3.1	8
54	Nanotechnology in cardiac stem cell therapy: cell modulation, imaging and gene delivery. <i>RSC Advances</i> , 2021, 11, 34572-34588.	3.6	7

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55	Radio frequency plasma assisted surface modification of Fe ₃ O ₄ nanoparticles using polyaniline/polypyrrole for bioimaging and magnetic hyperthermia applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2021, 32, 108.	3.6	6
56	Synthesis of cubic ZnS microspheres exhibiting broad visible emission for bioimaging applications. <i>Luminescence</i> , 2016, 31, 544-550.	2.9	5
57	Biosafety of citrate coated zerovalent iron nanoparticles for Magnetic Resonance Angiography. <i>Data in Brief</i> , 2018, 20, 1829-1835.	1.0	5
58	Autofluorescence spectroscopy and multivariate analysis for predicting the induced damages to other organs due to liver fibrosis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 257, 119741.	3.9	5
59	Vibrational spectra of mono, di and trimethyl ammonium double sulphates of rare earths Pr, Nd, Ho and Eu. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 278-284.	3.9	4
60	Temperature dependent polarized Raman spectra of nonaqualanthanoid (Pr) single crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 64, 518-525.	3.9	2
61	Frontispiece: Luminescent Gold Nanorods To Enhance the Near-Infrared Emission of a Photosensitizer for Targeted Cancer Imaging and Dual Therapy: Experimental and Theoretical Approach. <i>Chemistry - A European Journal</i> , 2020, 26, .	3.3	1
62	Optical diagnosis of oral lichen planus: A clinical study on the use of autofluorescence spectroscopy combined with multivariate analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 248, 119240.	3.9	1
63	Regression of Solid Tumour Using Laser and 5-Aminolevulinic Acid in Mice. <i>Journal of Biomaterials Applications</i> , 2002, 16, 267-274.	2.4	0
64	White Matter Hyperintensity segmentation using multiple stage FCM. , 2010, , .		0
65	Influence of Tissue Fluorescence Measurement and Imaging by Auto-Fluorescence of Substrata. <i>Journal of Applied Spectroscopy</i> , 2015, 82, 494-501.	0.7	0
66	Role of advanced nanomaterials in biosensing. , 2018, , 201-227.		0
67	Frontispiece: A Cyclometalated Ir(III) Complex as a Lysosome-Targeted Photodynamic Therapeutic Agent for Integrated Imaging and Therapy in Cancer Cells. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
68	Semi-Supervised Nonnegative Matrix Factorization of Wide-Field Fluorescence Microscopic Images for Tissue Diagnosis. <i>Microscopy and Microanalysis</i> , 2020, 26, 419-428.	0.4	0