

Parasuraman Padmanabhan

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

3,992
citations

126708

33
h-index

128067

60
g-index

112
all docs

112
docs citations

112
times ranked

6520
citing authors

#	ARTICLE	IF	CITATIONS
1	Positron emission tomographic imaging in drug discovery. <i>Drug Discovery Today</i> , 2022, 27, 280-291.	3.2	21
2	Mollification of Doxorubicin (DOX)-Mediated Cardiotoxicity Using Conjugated Chitosan Nanoparticles with Supplementation of Propionic Acid. <i>Nanomaterials</i> , 2022, 12, 502.	1.9	7
3	The Multifarious Applications of Copper Nanoclusters in Biosensing and Bioimaging and Their Translational Role in Early Disease Detection. <i>Nanomaterials</i> , 2022, 12, 301.	1.9	16
4	Gadolinium and Polythiophene Functionalized Polyurea Polymer Dots as Fluoro-Magnetic Nanoprobes. <i>Nanomaterials</i> , 2022, 12, 642.	1.9	1
5	The Exoproteome of <i>Staphylococcus pasteurii</i> Isolated from Cervical Mucus during the Estrus Phase in Water Buffalo (<i>Bubalus bubalis</i>). <i>Biomolecules</i> , 2022, 12, 450.	1.8	1
6	3D culturing of human pluripotent stem cells-derived endothelial cells for vascular regeneration. <i>Theranostics</i> , 2022, 12, 4684-4702.	4.6	4
7	A Brief Introduction to Magnetoencephalography (MEG) and Its Clinical Applications. <i>Brain Sciences</i> , 2022, 12, 788.	1.1	16
8	Shallow 3D CNN for Detecting Acute Brain Hemorrhage From Medical Imaging Sensors. <i>IEEE Sensors Journal</i> , 2021, 21, 14290-14299.	2.4	65
9	Coordination chemistry of ligands: Insights into the design of amyloid beta/tau-PET imaging probes and nanoparticles-based therapies for Alzheimer's disease. <i>Coordination Chemistry Reviews</i> , 2021, 430, 213659.	9.5	8
10	Doxorubicin-Conjugated Platinum Theranostic Nanoparticles Induce Apoptosis <i>via</i> Inhibition of a Cell Survival (PI3K/AKT) Signaling Pathway in Human Breast Cancer Cells. <i>ACS Applied Nano Materials</i> , 2021, 4, 198-210.	2.4	14
11	An In Vivo Study of a Rat Fluid-Percussion-Induced Traumatic Brain Injury Model with [11C]PBR28 and [18F]flumazenil PET Imaging. <i>International Journal of Molecular Sciences</i> , 2021, 22, 951.	1.8	7
12	Neurophysiological Correlates of Cognition as Revealed by Virtual Reality: Delving the Brain with a Synergistic Approach. <i>Brain Sciences</i> , 2021, 11, 51.	1.1	6
13	Fluorescence Resonance Energy Transfer (FRET)-Based ThT Free Sensing of Beta-Amyloid Fibrillation by Carbon Dot-Ag Composites. <i>Plasmonics</i> , 2021, 16, 863-872.	1.8	3
14	Nanotechnology Facilitated Cultured Neuronal Network and Its Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5552.	1.8	4
15	Parkinson's Disease: A Nanotheranostic Approach Targeting Alpha-Synuclein Aggregation. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 707441.	1.8	10
16	Positive and Negative Impacts of COVID-19 in Digital Transformation. <i>Sustainability</i> , 2021, 13, 9470.	1.6	18
17	Alzheimer's Disease: A Molecular View of β -Amyloid Induced Morbific Events. <i>Biomedicines</i> , 2021, 9, 1126.	1.4	22
18	Gold Nano-Urchins Enhanced Surface Plasmon Resonance (SPR) BIOSENSORS for the Detection of Estrogen Receptor Alpha (ER α). <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-6.	1.9	5

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19	An Overview on Cognitive Function Enhancement through Physical Exercises. <i>Brain Sciences</i> , 2021, 11, 1289.	1.1	15
20	Amyloid Beta42 (A β 42) Peptide Functionalized Iron Oxide Nanoparticles for Specific Targeting of SH-SY5Y Neuroblastoma Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 5044-5050.	0.9	0
21	Brain-Computer Interfacing Using Functional Near-Infrared Spectroscopy (fNIRS). <i>Biosensors</i> , 2021, 11, 389.	2.3	22
22	Anticancer Potential of L-Histidine-Capped Silver Nanoparticles against Human Cervical Cancer Cells (SiHA). <i>Nanomaterials</i> , 2021, 11, 3154.	1.9	3
23	Codon usage of human hepatitis C virus clearance genes in relation to its expression. <i>Journal of Cellular Biochemistry</i> , 2020, 121, 534-544.	1.2	1
24	Nanotechnology-Based Diagnostics and Therapy for Pathogen-Related Infections in the CNS. <i>ACS Chemical Neuroscience</i> , 2020, 11, 2371-2377.	1.7	10
25	Blood brain barrier: A tissue engineered microfluidic chip. <i>Journal of Neuroscience Methods</i> , 2020, 331, 108525.	1.3	15
26	Targeted pancreatic beta cell imaging for early diagnosis. <i>European Journal of Cell Biology</i> , 2020, 99, 151110.	1.6	5
27	Altered striatal dopamine levels in Parkinson's disease VPS35 D620N mutant transgenic aged mice. <i>Molecular Brain</i> , 2020, 13, 164.	1.3	10
28	Fluorescent, Prussian Blue-Based Biocompatible Nanoparticle System for Multimodal Imaging Contrast. <i>Nanomaterials</i> , 2020, 10, 1732.	1.9	6
29	3D Deep Learning on Medical Images: A Review. <i>Sensors</i> , 2020, 20, 5097.	2.1	268
30	Direct myosin-2 inhibition enhances cerebral perfusion resulting in functional improvement after ischemic stroke. <i>Theranostics</i> , 2020, 10, 5341-5356.	4.6	9
31	Mushroom-Derived Carbon Dots for Toxic Metal Ion Detection and as Antibacterial and Anticancer Agents. <i>ACS Applied Nano Materials</i> , 2020, 3, 5910-5919.	2.4	146
32	Silica-Coated Mn-Doped ZnS Nanocrystals for Cancer Theranostics. <i>ACS Applied Nano Materials</i> , 2020, 3, 3088-3096.	2.4	23
33	Au nano-urchins enabled localized surface plasmon resonance sensing of beta amyloid fibrillation. <i>Nanoscale Advances</i> , 2020, 2, 2693-2698.	2.2	17
34	Gadolinium-based bimodal probes to enhance T1-Weighted magnetic resonance/optical imaging. <i>Acta Biomaterialia</i> , 2020, 110, 15-36.	4.1	28
35	Nanotheranostic agents for neurodegenerative diseases. <i>Emerging Topics in Life Sciences</i> , 2020, 4, 645-675.	1.1	10
36	Dealing with PET radiometabolites. <i>EJNMMI Research</i> , 2020, 10, 109.	1.1	9

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37	Misfolded Protein Linked Strategies Toward Biomarker Development for Neurodegenerative Diseases. <i>Molecular Neurobiology</i> , 2019, 56, 2559-2578.	1.9	2
38	Peripheral Biomarkers for Early Detection of Alzheimer's and Parkinson's Diseases. <i>Molecular Neurobiology</i> , 2019, 56, 2256-2277.	1.9	43
39	The gut microbiota influences skeletal muscle mass and function in mice. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	271
40	Bifunctional Fluorescent/Raman Nanoprobe for the Early Detection of Amyloid. <i>Scientific Reports</i> , 2019, 9, 8497.	1.6	34
41	Muscle extract of <i>Arothron immaculatus</i> regulates the blood glucose level and the antioxidant system in high-fat diet and streptozotocin induced diabetic rats. <i>Bioorganic Chemistry</i> , 2019, 90, 103072.	2.0	7
42	PET-MR and SPECT-MR multimodality probes: Development and challenges. <i>Theranostics</i> , 2018, 8, 6210-6232.	4.6	59
43	Localization of β 2u-globulin in the acinar cells of preputial gland, and confirmation of its binding with farnesol, a putative pheromone, in field rat (<i>Millardia melitana</i>). <i>PLoS ONE</i> , 2018, 13, e0197287.	1.1	2
44	Theranostic applications of nanoparticles in neurodegenerative disorders. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 5561-5576.	3.3	102
45	PET/MRI: a frontier in era of complementary hybrid imaging. <i>European Journal of Hybrid Imaging</i> , 2018, 2, 12.	0.6	38
46	Thallium Labeled Citrate-Coated Prussian Blue Nanoparticles as Potential Imaging Agent. <i>Contrast Media and Molecular Imaging</i> , 2018, 2018, 1-10.	0.4	14
47	The Potential of Cognitive Neuroimaging: A Way Forward to the Mind-Machine Interface. <i>Journal of Imaging</i> , 2018, 4, 70.	1.7	9
48	Buffalo nasal odorant-binding protein (bunOBP) and its structural evaluation with putative pheromones. <i>Scientific Reports</i> , 2018, 8, 9323.	1.6	14
49	Lineage-specific exosomes could override extracellular matrix mediated human mesenchymal stem cell differentiation. <i>Biomaterials</i> , 2018, 182, 312-322.	5.7	66
50	Nanoparticle Functionalization and Its Potentials for Molecular Imaging. <i>Advanced Science</i> , 2017, 4, 1600279.	5.6	106
51	PET probes for imaging pancreatic islet cells. <i>Clinical and Translational Imaging</i> , 2017, 5, 507-523.	1.1	5
52	Engineering Concepts in Stem Cell Research. <i>Biotechnology Journal</i> , 2017, 12, 1700066.	1.8	9
53	The Advents of Hybrid Imaging Modalities: A New Era in Neuroimaging Applications. <i>Advanced Biology</i> , 2017, 1, e1700019.	3.0	10
54	Current Perspective of Stem Cell Therapy in Neurodegenerative and Metabolic Diseases. <i>Molecular Neurobiology</i> , 2017, 54, 7276-7296.	1.9	30

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55	Peptides functionalized carbon dots for in vitro fluorescent imaging of amyloid fibrils. , 2017, , .		0
56	An Overview of Multimodal Neuroimaging Using Nanoprobes. International Journal of Molecular Sciences, 2017, 18, 311.	1.8	9
57	Theranostic Probes for Targeting Tumor Microenvironment: An Overview. International Journal of Molecular Sciences, 2017, 18, 1036.	1.8	43
58	Simplified estimation of binding parameters based on image-derived reference tissue models for dopamine transporter bindings in non-human primates using [F]FE-PE2I and PET. American Journal of Nuclear Medicine and Molecular Imaging, 2017, 7, 246-254.	1.0	3
59	Basics to different imaging techniques, different nanobiomaterials for image enhancement. , 2016, , 101-129.		12
60	Structural elucidation of estrus urinary lipocalin protein (EULP) and evaluating binding affinity with pheromones using molecular docking and fluorescence study. Scientific Reports, 2016, 6, 35900.	1.6	9
61	Nanoparticulate Contrast Agents for Multimodality Molecular Imaging. Journal of Biomedical Nanotechnology, 2016, 12, 1553-1584.	0.5	30
62	Multi-functional nano silver: A novel disruptive and theranostic agent for pathogenic organisms in real-time. Scientific Reports, 2016, 6, 34058.	1.6	21
63	Proteomic analysis of human saliva: An approach to find the marker protein for ovulation. Reproductive Biology, 2016, 16, 287-294.	0.9	11
64	Nanoparticles in practice for molecular-imaging applications: An overview. Acta Biomaterialia, 2016, 41, 1-16.	4.1	175
65	Gadolinium(ⁱⁱⁱ) based nanoparticles for T ₁ -weighted magnetic resonance imaging probes. RSC Advances, 2016, 6, 60945-60966.	1.7	36
66	The cell aggregating propensity of probiotic actinobacterial isolates: isolation and characterization of the aggregation inducing peptide pheromone. Biofouling, 2016, 32, 71-79.	0.8	13
67	Cellular crosstalk mechanism of Toll-like receptors in gingival overgrowth (Review). International Journal of Molecular Medicine, 2015, 35, 1151-1158.	1.8	9
68	Synthesis of Small-Sized, Porous, and Low-Toxic Magnetite Nanoparticles by Thin POSS Silica Coating. Chemistry - A European Journal, 2015, 21, 3914-3918.	1.7	13
69	Biocompatible branched copolymer nanoparticles prepared by RAFT polymerization as MRI/PET bimodal tracers. EJNMMI Physics, 2015, 2, A90.	1.3	0
70	Synthesis of antibacterial and magnetic nanocomposites by decorating graphene oxide surface with metal nanoparticles. RSC Advances, 2015, 5, 76442-76450.	1.7	41
71	Exploration of salivary proteins in buffalo: an approach to find marker proteins for estrus. FASEB Journal, 2014, 28, 4700-4709.	0.2	17
72	Smart theranostic lanthanide nanoprobes with simultaneous up-conversion fluorescence and tunable T ₁ magnetic resonance imaging contrast and near-infrared activated photodynamic therapy. Nanoscale, 2014, 6, 12609-12617.	2.8	46

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73	Recent Advance of Biological Molecular Imaging Based on Lanthanide-Doped Upconversion-Luminescent Nanomaterials. <i>Nanomaterials</i> , 2014, 4, 129-154.	1.9	100
74	Evaluating the binding efficiency of pheromone binding protein with its natural ligand using molecular docking and fluorescence analysis. <i>Scientific Reports</i> , 2014, 4, 5201.	1.6	14
75	Design and Synthesis of Polymer-Functionalized NIR Fluorescent Dyesâ€“Magnetic Nanoparticles for Bioimaging. <i>ACS Nano</i> , 2013, 7, 6796-6805.	7.3	98
76	Gastrointestinal transit measurements in mice with ^{99m} Tc-DTPA-labeled activated charcoal using NanoSPECT-CT. <i>EJNMMI Research</i> , 2013, 3, 60.	1.1	137
77	Mimicking cellular transport mechanism in stem cells through endosomal escape of new peptide-coated quantum dots. <i>Scientific Reports</i> , 2013, 3, 2184.	1.6	37
78	Multifunctional Iron Oxide Nanoparticles for Diagnostics, Therapy and Macromolecule Delivery. <i>Theranostics</i> , 2013, 3, 986-1003.	4.6	160
79	MicroRNAs -the Next Generation Therapeutic Targets in Human Diseases. <i>Theranostics</i> , 2013, 3, 930-942.	4.6	68
80	Aminoxyâ€“functionalized DOTA for radiolabeling of oxidized antibodies: evaluation of siteâ€“specific ¹¹¹ Inâ€“labeled trastuzumab. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2012, 55, 346-353.	0.5	9
81	Single-Phase Dy ₂ O ₃ :Tb ₃₊ Nanocrystals as Dual-Modal Contrast Agent for High Field Magnetic Resonance and Optical Imaging. <i>Chemistry of Materials</i> , 2011, 23, 2439-2446.	3.2	76
82	Molecular Targeting of Breast Cancer: Molecular Imaging and Therapy. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 528-538.	0.9	3
83	Enzymeâ€“Responsive Multifunctional Magnetic Nanoparticles for Tumor Intracellular Drug Delivery and Imaging. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1381-1389.	1.7	76
84	Bimodal magneticâ€“fluorescent probes for bioimaging. <i>Microscopy Research and Technique</i> , 2011, 74, 563-576.	1.2	83
85	High Resolution Optical Imaging of Epithelial and Neuronal Cells. <i>Journal of Medical Imaging and Health Informatics</i> , 2011, 1, 354-359.	0.2	8
86	Highly sensitive optical detection of specific protein in breast cancer cells using microstructured fiber in extremely low sample volume. <i>Journal of Biomedical Optics</i> , 2010, 15, 017005.	1.4	43
87	Indirect imaging of cardiac-specific transgene expression using a bidirectional two-step transcriptional amplification strategy. <i>Gene Therapy</i> , 2010, 17, 827-838.	2.3	32
88	Metallic nanoparticles bioassay for <i>Enterobacter cloacae</i> P99 β -lactamase activity and inhibitor screening. <i>Analyst</i> , The, 2010, 135, 1031.	1.7	20
89	Gadolinium Oxide Ultranarrow Nanorods as Multimodal Contrast Agents for Optical and Magnetic Resonance Imaging. <i>Langmuir</i> , 2010, 26, 8959-8965.	1.6	158
90	Novel trimethyl lock based enzyme switch for the self-assembly and disassembly of gold nanoparticles. <i>New Journal of Chemistry</i> , 2010, 34, 594.	1.4	12

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91	A Novel Estrogen Receptor Intramolecular Folding-based Titratable Transgene Expression System. <i>Molecular Therapy</i> , 2009, 17, 1703-1711.	3.7	8
92	Photonic crystal fiber-based dual-modality probe for simultaneous sensing and imaging applications. <i>Optical Engineering</i> , 2009, 48, 103601.	0.5	10
93	Stem cell-mediated accelerated bone healing observed with in vivo molecular and small animal imaging technologies in a model of skeletal injury. <i>Journal of Orthopaedic Research</i> , 2009, 27, 295-302.	1.2	71
94	Visualization of telomerase reverse transcriptase (hTERT) promoter activity using a trimodality fusion reporter construct. <i>Journal of Nuclear Medicine</i> , 2006, 47, 270-7.	2.8	13
95	Study on <i>Staphylococcus aureus</i> Strain HPC-250 for Associated Antibacterial Property. <i>Current Microbiology</i> , 2005, 51, 287-291.	1.0	3
96	Strategies for targeting marker bacterial oxygenases involved in transformation of hydrocarbons in contaminated soil. <i>International Journal of Environmental Studies</i> , 2004, 61, 709-717.	0.7	0
97	Peer Reviewed: Genomics Tools in Environmental Impact Assessment. <i>Environmental Science & Technology</i> , 2003, 37, 356A-363A.	4.6	23
98	Respiration of 13 C-Labeled Substrates Added to Soil in the Field and Subsequent 16S rRNA Gene Analysis of 13 C-Labeled Soil DNA. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1614-1622.	1.4	196
99	Discovery of a bacterium, with distinctive dioxygenase, that is responsible for in situ biodegradation in contaminated sediment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13591-13596.	3.3	244
100	Geochemical and Physiological Evidence for Mixed Aerobic and Anaerobic Field Biodegradation of Coal Tar Waste by Subsurface Microbial Communities. <i>Microbial Ecology</i> , 2002, 44, 107-117.	1.4	57
101	nahR, encoding a lysR-type transcriptional regulator, is highly conserved among naphthalene-degrading bacteria isolated from a coal tar waste-contaminated site and in extracted community DNA b bThe GenBank accession number for the sequences of the tnpA-like gene, nahG and nahR of <i>P. putida</i> NCIB 9816-4 is AF491307. The GenBank accession numbers for the sequences of the nahR-nahG intergenic region and the nahR homologue genes of strains Cg1, Cg2, Cg5, Cg7, Cg9, Cg11, Hg8 and N1 are AF491308-AF491315, respectl. <i>Microbiology (United Kingdom)</i> , 2002, 148, 2319-2329.	0.7	34
102	Duplex RT-PCR for simultaneous detection of hepatitis A and hepatitis E virus isolated from drinking water samples. <i>Journal of Environmental Monitoring</i> , 2000, 2, 587-590.	2.1	21
103	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 1998, 14, 925-926.	1.7	3
104	Short Communication: Membrane-impregnated probe for simultaneous PCR amplification and detection. <i>World Journal of Microbiology and Biotechnology</i> , 1998, 14, 933-934.	1.7	0
105	A simple device for the concentration and detection of enterovirus, hepatitis E virus and rotavirus from water samples by reverse transcription-polymerase chain reaction. <i>Journal of Virological Methods</i> , 1995, 55, 401-415.	1.0	37