

Parasuraman Padmanabhan

List of Publications by Year in descending order

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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	The gut microbiota influences skeletal muscle mass and function in mice. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	271
2	3D Deep Learning on Medical Images: A Review. <i>Sensors</i> , 2020, 20, 5097.	2.1	268
3	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
4	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
5	Nanoparticles in practice for molecular-imaging applications: An overview. <i>Acta Biomaterialia</i> , 2016, 41, 1-16.	4.1	175
6	Multifunctional Iron Oxide Nanoparticles for Diagnostics, Therapy and Macromolecule Delivery. <i>Theranostics</i> , 2013, 3, 986-1003.	4.6	160
7	Gadolinium Oxide Ultranarrow Nanorods as Multimodal Contrast Agents for Optical and Magnetic Resonance Imaging. <i>Langmuir</i> , 2010, 26, 8959-8965.	1.6	158
8	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
9	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
10	Nanoparticle Functionalization and Its Potentials for Molecular Imaging. <i>Advanced Science</i> , 2017, 4, 1600279.	5.6	106
11	Theranostic applications of nanoparticles in neurodegenerative disorders. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 5561-5576.	3.3	102
12	Recent Advance of Biological Molecular Imaging Based on Lanthanide-Doped Upconversion-Luminescent Nanomaterials. <i>Nanomaterials</i> , 2014, 4, 129-154.	1.9	100
13	Design and Synthesis of Polymer-Functionalized NIR Fluorescent Dyesâ€“Magnetic Nanoparticles for Bioimaging. <i>ACS Nano</i> , 2013, 7, 6796-6805.	7.3	98
14	Bimodal magneticâ€“fluorescent probes for bioimaging. <i>Microscopy Research and Technique</i> , 2011, 74, 563-576.	1.2	83
15	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
16	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
17	Stem cellâ€“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
18	MicroRNAs -the Next Generation Therapeutic Targets in Human Diseases. <i>Theranostics</i> , 2013, 3, 930-942.	4.6	68

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19	Lineage-specific exosomes could override extracellular matrix mediated human mesenchymal stem cell differentiation. <i>Biomaterials</i> , 2018, 182, 312-322.	5.7	66
20	Shallow 3D CNN for Detecting Acute Brain Hemorrhage From Medical Imaging Sensors. <i>IEEE Sensors Journal</i> , 2021, 21, 14290-14299.	2.4	65
21	PET-MR and SPECT-MR multimodality probes: Development and challenges. <i>Theranostics</i> , 2018, 8, 6210-6232.	4.6	59
22	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
23	Smart theranostic lanthanide nanoprobe with simultaneous up-conversion fluorescence and tunable T ₁ magnetic resonance imaging contrast and near-infrared activated photodynamic therapy. <i>Nanoscale</i> , 2014, 6, 12609-12617.	2.8	46
24	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
25	Theranostic Probes for Targeting Tumor Microenvironment: An Overview. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1036.	1.8	43
26	Peripheral Biomarkers for Early Detection of Alzheimer's and Parkinson's Diseases. <i>Molecular Neurobiology</i> , 2019, 56, 2256-2277.	1.9	43
27	Synthesis of antibacterial and magnetic nanocomposites by decorating graphene oxide surface with metal nanoparticles. <i>RSC Advances</i> , 2015, 5, 76442-76450.	1.7	41
28	PET/MRI: a frontier in era of complementary hybrid imaging. <i>European Journal of Hybrid Imaging</i> , 2018, 2, 12.	0.6	38
29	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
30	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
31	Gadolinium(III) based nanoparticles for T ₁ -weighted magnetic resonance imaging probes. <i>RSC Advances</i> , 2016, 6, 60945-60966.	1.7	36
32	Bifunctional Fluorescent/Raman Nanoprobe for the Early Detection of Amyloid. <i>Scientific Reports</i> , 2019, 9, 8497.	1.6	34
33	namly 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 AF491308a, AF491315, respectl. <i>Microbiology (United Kingdom)</i> , 2002, 148, 2319-2329.	0.7	34
34	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
35	Nanoparticulate Contrast Agents for Multimodality Molecular Imaging. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 1553-1584.	0.5	30
36	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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37	Gadolinium-based bimodal probes to enhance T1-Weighted magnetic resonance/optical imaging. <i>Acta Biomaterialia</i> , 2020, 110, 15-36.	4.1	28
38	Peer Reviewed: Genomics Tools in Environmental Impact Assessment. <i>Environmental Science & Technology</i> , 2003, 37, 356A-363A.	4.6	23
39	Silica-Coated Mn-Doped ZnS Nanocrystals for Cancer Theranostics. <i>ACS Applied Nano Materials</i> , 2020, 3, 3088-3096.	2.4	23
40	Alzheimer's Disease: A Molecular View of β -Amyloid Induced Morbific Events. <i>Biomedicines</i> , 2021, 9, 1126.	1.4	22
41	Brain-Computer Interfacing Using Functional Near-Infrared Spectroscopy (fNIRS). <i>Biosensors</i> , 2021, 11, 389.	2.3	22
42	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
43	Multi-functional nano silver: A novel disruptive and theranostic agent for pathogenic organisms in real-time. <i>Scientific Reports</i> , 2016, 6, 34058.	1.6	21
44	Positron emission tomographic imaging in drug discovery. <i>Drug Discovery Today</i> , 2022, 27, 280-291.	3.2	21
45	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
46	Positive and Negative Impacts of COVID-19 in Digital Transformation. <i>Sustainability</i> , 2021, 13, 9470.	1.6	18
47	Exploration of salivary proteins in buffalo: an approach to find marker proteins for estrus. <i>FASEB Journal</i> , 2014, 28, 4700-4709.	0.2	17
48	Au nano-urchins enabled localized surface plasmon resonance sensing of beta amyloid fibrillation. <i>Nanoscale Advances</i> , 2020, 2, 2693-2698.	2.2	17
49	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
50	A Brief Introduction to Magnetoencephalography (MEG) and Its Clinical Applications. <i>Brain Sciences</i> , 2022, 12, 788.	1.1	16
51	Blood brain barrier: A tissue engineered microfluidic chip. <i>Journal of Neuroscience Methods</i> , 2020, 331, 108525.	1.3	15
52	An Overview on Cognitive Function Enhancement through Physical Exercises. <i>Brain Sciences</i> , 2021, 11, 1289.	1.1	15
53	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
54	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

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55	Buffalo nasal odorant-binding protein (bunOBP) and its structural evaluation with putative pheromones. <i>Scientific Reports</i> , 2018, 8, 9323.	1.6	14
56	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
57	Synthesis of Small-Sized, Porous, and Low-Toxic Magnetite Nanoparticles by Thin POSS Silica Coating. <i>Chemistry - A European Journal</i> , 2015, 21, 3914-3918.	1.7	13
58	The cell aggregating propensity of probiotic actinobacterial isolates: isolation and characterization of the aggregation inducing peptide pheromone. <i>Biofouling</i> , 2016, 32, 71-79.	0.8	13
59	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
60	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
61	Basics to different imaging techniques, different nanobiomaterials for image enhancement. , 2016, , 101-129.		12
62	Proteomic analysis of human saliva: An approach to find the marker protein for ovulation. <i>Reproductive Biology</i> , 2016, 16, 287-294.	0.9	11
63	Photonic crystal fiber-based dual-modality probe for simultaneous sensing and imaging applications. <i>Optical Engineering</i> , 2009, 48, 103601.	0.5	10
64	The Advents of Hybrid Imaging Modalities: A New Era in Neuroimaging Applications. <i>Advanced Biology</i> , 2017, 1, e1700019.	3.0	10
65	Nanotechnology-Based Diagnostics and Therapy for Pathogen-Related Infections in the CNS. <i>ACS Chemical Neuroscience</i> , 2020, 11, 2371-2377.	1.7	10
66	Altered striatal dopamine levels in Parkinson's disease VPS35 D620N mutant transgenic aged mice. <i>Molecular Brain</i> , 2020, 13, 164.	1.3	10
67	Parkinson's Disease: A Nanotheranostic Approach Targeting Alpha-Synuclein Aggregation. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 707441.	1.8	10
68	Nanotheranostic agents for neurodegenerative diseases. <i>Emerging Topics in Life Sciences</i> , 2020, 4, 645-675.	1.1	10
69	Aminoxy-functionalized DOTA for radiolabeling of oxidized antibodies: evaluation of site-specific ¹¹¹ In-labeled trastuzumab. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2012, 55, 346-353.	0.5	9
70	Cellular crosstalk mechanism of Toll-like receptors in gingival overgrowth (Review). <i>International Journal of Molecular Medicine</i> , 2015, 35, 1151-1158.	1.8	9
71	Structural elucidation of estrus urinary lipocalin protein (EULP) and evaluating binding affinity with pheromones using molecular docking and fluorescence study. <i>Scientific Reports</i> , 2016, 6, 35900.	1.6	9
72	Engineering Concepts in Stem Cell Research. <i>Biotechnology Journal</i> , 2017, 12, 1700066.	1.8	9

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73	An Overview of Multimodal Neuroimaging Using Nanoprobes. <i>International Journal of Molecular Sciences</i> , 2017, 18, 311.	1.8	9
74	The Potential of Cognitive Neuroimaging: A Way Forward to the Mind-Machine Interface. <i>Journal of Imaging</i> , 2018, 4, 70.	1.7	9
75	Direct myosin-2 inhibition enhances cerebral perfusion resulting in functional improvement after ischemic stroke. <i>Theranostics</i> , 2020, 10, 5341-5356.	4.6	9
76	Dealing with PET radiometabolites. <i>EJNMMI Research</i> , 2020, 10, 109.	1.1	9
77	A Novel Estrogen Receptor Intramolecular Folding-based Titratable Transgene Expression System. <i>Molecular Therapy</i> , 2009, 17, 1703-1711.	3.7	8
78	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
79	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
80	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
81	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
82	Mollification of Doxorubicin (DOX)-Mediated Cardiotoxicity Using Conjugated Chitosan Nanoparticles with Supplementation of Propionic Acid. <i>Nanomaterials</i> , 2022, 12, 502.	1.9	7
83	Fluorescent, Prussian Blue-Based Biocompatible Nanoparticle System for Multimodal Imaging Contrast. <i>Nanomaterials</i> , 2020, 10, 1732.	1.9	6
84	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
85	PET probes for imaging pancreatic islet cells. <i>Clinical and Translational Imaging</i> , 2017, 5, 507-523.	1.1	5
86	Targeted pancreatic beta cell imaging for early diagnosis. <i>European Journal of Cell Biology</i> , 2020, 99, 151110.	1.6	5
87	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
88	Nanotechnology Facilitated Cultured Neuronal Network and Its Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5552.	1.8	4
89	3D culturing of human pluripotent stem cells-derived endothelial cells for vascular regeneration. <i>Theranostics</i> , 2022, 12, 4684-4702.	4.6	4
90	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 1998, 14, 925-926.	1.7	3

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91	Study on Staphylococcus aureus Strain HPC-250 for Associated Antibacterial Property. Current Microbiology, 2005, 51, 287-291.	1.0	3
92	Molecular Targeting of Breast Cancer: Molecular Imaging and Therapy. Current Pharmaceutical Biotechnology, 2011, 12, 528-538.	0.9	3
93	Fluorescence Resonance Energy Transfer (FRET)-Based ThT Free Sensing of Beta-Amyloid Fibrillation by Carbon Dot-Ag Composites. Plasmonics, 2021, 16, 863-872.	1.8	3
94	Simplified estimation of binding parameters based on image-derived reference tissue models for dopamine transporter bindings in non-human primates using [¹⁸ F]FE-PE2I and PET. American Journal of Nuclear Medicine and Molecular Imaging, 2017, 7, 246-254.	1.0	3
95	Anticancer Potential of L-Histidine-Capped Silver Nanoparticles against Human Cervical Cancer Cells (SiHA). Nanomaterials, 2021, 11, 3154.	1.9	3
96	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 (Millardia meltada). PLoS ONE, 2018, 13, e0197287.	1.1	2
97	Misfolded Protein Linked Strategies Toward Biomarker Development for Neurodegenerative Diseases. Molecular Neurobiology, 2019, 56, 2559-2578.	1.9	2
98	Codon usage of human hepatitis C virus clearance genes in relation to its expression. Journal of Cellular Biochemistry, 2020, 121, 534-544.	1.2	1
99	Gadolinium and Polythiophene Functionalized Polyurea Polymer Dots as Fluoro-Magnetic Nanoprobes. Nanomaterials, 2022, 12, 642.	1.9	1
100	The Exoproteome of Staphylococcus pasteurii Isolated from Cervical Mucus during the Estrus Phase in Water Buffalo (Bubalus bubalis). Biomolecules, 2022, 12, 450.	1.8	1
101	Short Communication: Membrane-impregnated probe for simultaneous PCR amplification and detection. World Journal of Microbiology and Biotechnology, 1998, 14, 933-934.	1.7	0
102	Strategies for targeting marker bacterial oxygenases involved in transformation of hydrocarbons in contaminated soil. International Journal of Environmental Studies, 2004, 61, 709-717.	0.7	0
103	Biocompatible branched copolymer nanoparticles prepared by RAFT polymerization as MRI/PET bimodal tracers. EJMNM Physics, 2015, 2, A90.	1.3	0
104	Peptides functionalized carbon dots for in vitro fluorescent imaging of amyloid fibrils. , 2017, , .		0
105	Amyloid Beta42 ($A\beta$ 42) Peptide Functionalized Iron Oxide Nanoparticles for Specific Targeting of SH-SY5Y Neuroblastoma Cells. Journal of Nanoscience and Nanotechnology, 2021, 21, 5044-5050.	0.9	0