

# Jayakumar Rajadas

## List of Publications by Year in descending order

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Version: 2024-02-01

107  
papers

4,668  
citations

94433

37  
h-index

110387

64  
g-index

107  
all docs

107  
docs citations

107  
times ranked

8221  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oral hymecromone decreases hyaluronan in human study participants. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	13
2	The Effect of Ethanol Consumption on Composition and Morphology of Femur Cortical Bone in Wild-Type and ALDH2*2-Homozygous Mice. <i>Calcified Tissue International</i> , 2021, 108, 265-276.	3.1	3
3	Association of serum allopregnanolone with restricted and repetitive behaviors in adult males with autism. <i>Psychoneuroendocrinology</i> , 2021, 123, 105039.	2.7	7
4	Electrophysiological Characterization of Glioma using a Biomimetic Spheroid Model. , 2021, , .		0
5	Adipose-Derived Stromal Cells Seeded in Pullulan-Collagen Hydrogels Improve Healing in Murine Burns. <i>Tissue Engineering - Part A</i> , 2021, 27, 844-856.	3.1	31
6	Development of Vancomycin Delivery Systems Based on Autologous 3D Platelet-Rich Fibrin Matrices for Bone Tissue Engineering. <i>Biomedicines</i> , 2021, 9, 814.	3.2	9
7	A neurovascular-unit-on-a-chip for the evaluation of the restorative potential of stem cell therapies for ischaemic stroke. <i>Nature Biomedical Engineering</i> , 2021, 5, 847-863.	22.5	62
8	Disrupting biological sensors of force promotes tissue regeneration in large organisms. <i>Nature Communications</i> , 2021, 12, 5256.	12.8	43
9	Repurposing Disulfiram (Tetraethylthiuram Disulfide) as a Potential Drug Candidate against <i>Borrelia burgdorferi</i> In Vitro and In Vivo. <i>Antibiotics</i> , 2020, 9, 633.	3.7	22
10	Upregulation of CD47 Is a Host Checkpoint Response to Pathogen Recognition. <i>MBio</i> , 2020, 11, .	4.1	29
11	Azlocillin can be the potential drug candidate against drug-tolerant <i>Borrelia burgdorferi</i> sensu stricto JLB31. <i>Scientific Reports</i> , 2020, 10, 3798.	3.3	20
12	Amyloid protein aggregates: new clients for mitochondrial energy production in the brain?. <i>FEBS Journal</i> , 2020, 287, 3386-3395.	4.7	8
13	Dendritic Cells as Targets for Biomaterial-Based Immunomodulation. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2726-2739.	5.2	21
14	Integrated Ca <sup>2+</sup> flux and AFM force analysis in human iPSC-derived cardiomyocytes. <i>Biological Chemistry</i> , 2020, 402, 113-121.	2.5	5
15	Anti-hyperlipidaemic effects of synthetic analogues of nordihydroguaiaretic acid in dyslipidaemic rats. <i>British Journal of Pharmacology</i> , 2019, 176, 369-385.	5.4	4
16	Optimization of transdermal deferoxamine leads to enhanced efficacy in healing skin wounds. <i>Journal of Controlled Release</i> , 2019, 308, 232-239.	9.9	31
17	Pharmacological antagonism of histamine H2R ameliorated L-DOPA-induced dyskinesia via normalization of GRK3 and by suppressing FosB and ERK in PD. <i>Neurobiology of Aging</i> , 2019, 81, 177-189.	3.1	12
18	Salivary Thiocyanate as a Biomarker of Cystic Fibrosis Transmembrane Regulator Function. <i>Analytical Chemistry</i> , 2019, 91, 7929-7934.	6.5	6

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19	Adenosine and hyaluronan promote lung fibrosis and pulmonary hypertension in combined pulmonary fibrosis and emphysema. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	31
20	4-Methylumbelliferyl glucuronide contributes to hyaluronan synthesis inhibition. <i>Journal of Biological Chemistry</i> , 2019, 294, 7864-7877.	3.4	40
21	An introduction to nanoengineered biomaterials. , 2019, , 1-11.		5
22	Fidgetin-Like 2 siRNA Enhances the Wound Healing Capability of a Surfactant Polymer Dressing. <i>Advances in Wound Care</i> , 2019, 8, 91-100.	5.1	23
23	Conformational Preferences of A <sup>25-35</sup> and A <sup>35-25</sup> in Membrane Mimicking Environments. <i>Protein and Peptide Letters</i> , 2019, 26, 386-390.	0.9	3
24	Microhemorrhage-associated tissue iron enhances the risk for <i>Aspergillus fumigatus</i> invasion in a mouse model of airway transplantation. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	29
25	Prolonged survival of transplanted stem cells after ischaemic injury via the slow release of pro-survival peptides from a collagen matrix. <i>Nature Biomedical Engineering</i> , 2018, 2, 104-113.	22.5	71
26	<i>In vitro</i> and <i>in vivo</i> metabolite identification of a novel benzimidazole compound ZLN005 by liquid chromatography/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 480-488.	1.5	8
27	PEG/Dextran Double Layer Influences Fe Ion Release and Colloidal Stability of Iron Oxide Nanoparticles. <i>Scientific Reports</i> , 2018, 8, 4286.	3.3	36
28	Possible Clues for Brain Energy Translation via Endolysosomal Trafficking of APP-CTFs in Alzheimer's Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-11.	4.0	8
29	<i>In vitro</i> and <i>in vivo</i> evaluation of cephalosporins for the treatment of Lyme disease. <i>Drug Design, Development and Therapy</i> , 2018, Volume 12, 2915-2921.	4.3	4
30	Characterization of Brain Dysfunction Induced by Bacterial Lipopeptides That Alter Neuronal Activity and Network in Rodent Brains. <i>Journal of Neuroscience</i> , 2018, 38, 10672-10691.	3.6	8
31	Strategies for directing cells into building functional hearts and parts. <i>Biomaterials Science</i> , 2018, 6, 1664-1690.	5.4	17
32	Controlled Delivery of a Focal Adhesion Kinase Inhibitor Results in Accelerated Wound Closure with Decreased Scar Formation. <i>Journal of Investigative Dermatology</i> , 2018, 138, 2452-2460.	0.7	45
33	Cytokines as therapeutic agents and targets in heart disease. <i>Cytokine and Growth Factor Reviews</i> , 2018, 43, 54-68.	7.2	9
34	Deferoxamine can prevent pressure ulcers and accelerate healing in aged mice. <i>Wound Repair and Regeneration</i> , 2018, 26, 300-305.	3.0	19
35	Pharmacological rescue of diabetic skeletal stem cell niches. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	80
36	Dynamic CT imaging of volumetric changes in pulmonary nodules correlates with physical measurements of stiffness. <i>Radiotherapy and Oncology</i> , 2017, 122, 313-318.	0.6	11

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37	Nanomaterials engineering for drug delivery: a hybridization approach. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3995-4018.	5.8	96
38	Therapeutic Nanoparticles for Targeted Delivery of Anticancer Drugs. , 2017, , 245-259.		23
39	Inhibition of hyaluronan synthesis attenuates pulmonary hypertension associated with lung fibrosis. <i>British Journal of Pharmacology</i> , 2017, 174, 3284-3301.	5.4	52
40	From solvent-free microspheres to bioactive gradient scaffolds. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1157-1169.	3.3	14
41	Screening of NCI-DTP library to identify new drug candidates for <i>Borrelia burgdorferi</i> . <i>Journal of Antibiotics</i> , 2017, 70, 308-312.	2.0	14
42	Pharmaceuticals and Stem Cells in Autism Spectrum Disorders: Wishful Thinking?. <i>World Neurosurgery</i> , 2017, 98, 659-672.	1.3	5
43	Sutureless microvascular anastomosis with the aid of heparin loaded poloxamer 407. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2017, 70, 267-273.	1.0	5
44	Nanoparticles hybridization to engineer biomaterials for drug delivery. , 2017, , 147-161.		1
45	Discovery of novel brain permeable and G protein-biased beta-1 adrenergic receptor partial agonists for the treatment of neurocognitive disorders. <i>PLoS ONE</i> , 2017, 12, e0180319.	2.5	22
46	Delivery of monocyte lineage cells in a biomimetic scaffold enhances tissue repair. <i>JCI Insight</i> , 2017, 2, .	5.0	55
47	Identification of new drug candidates against <i>Borrelia burgdorferi</i> using high-throughput screening. <i>Drug Design, Development and Therapy</i> , 2016, 10, 1307.	4.3	49
48	Enhanced Electrochemical Sensing with Carbon Nanotubes Modified with Bismuth and Magnetic Nanoparticles in a Lab-on-a-Chip. <i>ChemNanoMat</i> , 2016, 2, 904-910.	2.8	9
49	A small molecule TrkB/TrkC neurotrophin receptor co-activator with distinctive effects on neuronal survival and process outgrowth. <i>Neuropharmacology</i> , 2016, 110, 343-361.	4.1	31
50	Attenuation of synaptic toxicity and MARK4/PAR1-mediated Tau phosphorylation by methylene blue for Alzheimer's disease treatment. <i>Scientific Reports</i> , 2016, 6, 34784.	3.3	45
51	Effect of osmolytes on the conformation and aggregation of some amyloid peptides: CD spectroscopic data. <i>Data in Brief</i> , 2016, 7, 1643-1651.	1.0	10
52	Adipose-Derived Stem Cell-Seeded Hydrogels Increase Endogenous Progenitor Cell Recruitment and Neovascularization in Wounds. <i>Tissue Engineering - Part A</i> , 2016, 22, 295-305.	3.1	57
53	In vitro analysis of Mg scaffolds coated with polymer/hydrogel/ceramic composite layers. <i>Surface and Coatings Technology</i> , 2016, 301, 126-132.	4.8	10
54	Self-assembly and sequence length dependence on nanofibrils of polyglutamine peptides. <i>Neuropeptides</i> , 2016, 57, 71-83.	2.2	4

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55	Conformational dynamics of a hydrophobic prion fragment (113-127) in different pH and osmolyte solutions. <i>Neuropeptides</i> , 2016, 57, 9-14.	2.2	3
56	Nanotechnology and regenerative therapeutics in plastic surgery: The next frontier. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2016, 69, 1-13.	1.0	21
57	Recent Developments in Diffusion Tensor Imaging of Brain. <i>Radiology - Open Journal</i> , 2016, 1, 1-12.	0.1	7
58	In situ Endothelialization: Bioengineering Considerations to Translation. <i>Small</i> , 2015, 11, 6248-6264.	10.0	64
59	Protein Corona Influences Cell-Biomaterial Interactions in Nanostructured Tissue Engineering Scaffolds. <i>Advanced Functional Materials</i> , 2015, 25, 4379-4389.	14.9	57
60	Borreliacidal activity of Borrelia metal transporter A (BmtA) binding small molecules by manganese transport inhibition. <i>Drug Design, Development and Therapy</i> , 2015, 9, 805.	4.3	17
61	Vascularisation in regenerative therapeutics and surgery. <i>Materials Science and Engineering C</i> , 2015, 54, 225-238.	7.3	10
62	Filamentous Bacteriophage Promote Biofilm Assembly and Function. <i>Cell Host and Microbe</i> , 2015, 18, 549-559.	11.0	235
63	Transdermal deferoxamine prevents pressure-induced diabetic ulcers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 94-99.	7.1	160
64	Significant degradability enhancement in multilayer coating of polycaprolactone-bioactive glass/gelatin-bioactive glass on magnesium scaffold for tissue engineering applications. <i>Applied Surface Science</i> , 2015, 338, 137-145.	6.1	70
65	Transdermal Delivery of Functional Collagen Via Polyvinylpyrrolidone Microneedles. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2978-2990.	2.5	30
66	Altering the concentration of silica tunes the functional properties of collagen-silica composite scaffolds to suit various clinical requirements. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 52, 131-138.	3.1	13
67	A Thermo-Sensitive Delivery Platform for Topical Administration of Inflammatory Bowel Disease Therapies. <i>Gastroenterology</i> , 2015, 149, 52-55.e2.	1.3	24
68	Multilayered Magnetic Gelatin Membrane Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23098-23109.	8.0	34
69	Tissue engineering vascular grafts a fortiori: looking back and going forward. <i>Expert Opinion on Biological Therapy</i> , 2015, 15, 231-244.	3.1	40
70	[Pyr1]-Apelin-13 delivery via nano-liposomal encapsulation attenuates pressure overload-induced cardiac dysfunction. <i>Biomaterials</i> , 2015, 37, 289-298.	11.4	44
71	Infrared Imaging Tools for Diagnostic Applications in Dermatology. , 2015, 1, 1-5.		11
72	Polymeric Nanoparticles to Combat Squamous Cell Carcinomas in Patients with Dystrophic Epidermolysis Bullosa. <i>Recent Patents on Nanomedicine</i> , 2014, 4, 15-24.	0.5	4

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73	Use of bio-mimetic three-dimensional technology in therapeutics for heart disease. <i>Bioengineered</i> , 2014, 5, 193-197.	3.2	20
74	A hydrodynamic microchip for formation of continuous cell chains. <i>Applied Physics Letters</i> , 2014, 104, 203701.	3.3	3
75	Promotion of airway anastomotic microvascular regeneration and alleviation of airway ischemia by deferoxamine nanoparticles. <i>Biomaterials</i> , 2014, 35, 803-813.	11.4	46
76	Capillary Force Seeding of Hydrogels for Adipose-Derived Stem Cell Delivery in Wounds. <i>Stem Cells Translational Medicine</i> , 2014, 3, 1079-1089.	3.3	100
77	Diabetes impairs the angiogenic potential of adipose-derived stem cells by selectively depleting cellular subpopulations. <i>Stem Cell Research and Therapy</i> , 2014, 5, 79.	5.5	153
78	Exosomes as Immunotheranostic Nanoparticles. <i>Clinical Therapeutics</i> , 2014, 36, 820-829.	2.5	84
79	Synthesis of d-amino acid peptides and their effect on beta-amyloid aggregation and toxicity in transgenic <i>Caenorhabditis elegans</i> . <i>Medicinal Chemistry Research</i> , 2013, 22, 3991-4000.	2.4	24
80	The effect of bioengineered acellular collagen patch on cardiac remodeling and ventricular function post myocardial infarction. <i>Biomaterials</i> , 2013, 34, 9048-9055.	11.4	168
81	Surface modification of a polyhedral oligomeric silsesquioxane poly(carbonate-urea) urethane (POSS-PCU) nanocomposite polymer as a stent coating for enhanced capture of endothelial progenitor cells. <i>Biointerphases</i> , 2013, 8, 23.	1.6	39
82	Exosomes as nano-theranostic delivery platforms for gene therapy. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 357-367.	13.7	196
83	Inception to actualization: Next generation coronary stent coatings incorporating nanotechnology. <i>Journal of Biotechnology</i> , 2013, 164, 151-170.	3.8	60
84	Polyvinylpyrrolidone microneedles enable delivery of intact proteins for diagnostic and therapeutic applications. <i>Acta Biomaterialia</i> , 2013, 9, 7767-7774.	8.3	72
85	Channelrhodopsins: visual regeneration and neural activation by a light switch. <i>New Biotechnology</i> , 2013, 30, 461-474.	4.4	20
86	Nanotechnology-Based Gene-Eluting Stents. <i>Molecular Pharmaceutics</i> , 2013, 10, 1279-1298.	4.6	19
87	Solvent Microenvironments and Copper Binding Alters the Conformation and Toxicity of a Prion Fragment. <i>PLoS ONE</i> , 2013, 8, e85160.	2.5	8
88	An Anti-CD34 Antibody-Functionalized Clinical-Grade POSS-PCU Nanocomposite Polymer for Cardiovascular Stent Coating Applications: A Preliminary Assessment of Endothelial Progenitor Cell Capture and Hemocompatibility. <i>PLoS ONE</i> , 2013, 8, e77112.	2.5	41
89	Enhanced A $\beta$ 1-40 Production in Endothelial Cells Stimulated with Fibrillar A $\beta$ 1-42. <i>PLoS ONE</i> , 2013, 8, e58194.	2.5	12
90	Pathogenesis of Abeta Oligomers in Synaptic Failure. <i>Current Alzheimer Research</i> , 2013, 10, 316-323.	1.4	77

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91	Synergistic photothermal ablative effects of functionalizing carbon nanotubes with a POSS-PCU nanocomposite polymer. <i>Journal of Nanobiotechnology</i> , 2012, 10, 34.	9.1	26
92	Biochemical engineering nerve conduits using peptide amphiphiles. <i>Journal of Controlled Release</i> , 2012, 163, 342-352.	9.9	51
93	Enhancement of mesenchymal stem cell angiogenic capacity and stemness by a biomimetic hydrogel scaffold. <i>Biomaterials</i> , 2012, 33, 80-90.	11.4	340
94	The Role of Pro, Gly Lys, and Arg Containing Peptides on Amyloid-Beta Aggregation. <i>International Journal of Peptide Research and Therapeutics</i> , 2012, 18, 53-61.	1.9	7
95	Effect of Phenolic Compounds Against A $\beta$ 2 Aggregation and A $\beta$ 2-Induced Toxicity in Transgenic <i>C. elegans</i> . <i>Neurochemical Research</i> , 2012, 37, 40-48.	3.3	44
96	Quantum dots and carbon nanotubes in oncology: a review on emerging theranostic applications in nanomedicine. <i>Nanomedicine</i> , 2011, 6, 1101-1114.	3.3	106
97	Engineered Pullulan-Collagen Composite Dermal Hydrogels Improve Early Cutaneous Wound Healing. <i>Tissue Engineering - Part A</i> , 2011, 17, 631-644.	3.1	142
98	Structural preferences of A $\beta$ 2 fragments in different micellar environments. <i>Neuropeptides</i> , 2011, 45, 369-376.	2.2	12
99	Pullulan Hydrogels Improve Mesenchymal Stem Cell Delivery into High-Oxidative Stress Wounds. <i>Macromolecular Bioscience</i> , 2011, 11, 1458-1466.	4.1	88
100	Efficient gene delivery of primary human cells using peptide linked polyethylenimine polymer hybrid. <i>Biomaterials</i> , 2011, 32, 4647-4658.	11.4	56
101	Small molecule BDNF mimetics activate TrkB signaling and prevent neuronal degeneration in rodents. <i>Journal of Clinical Investigation</i> , 2010, 120, 1774-1785.	8.2	351
102	Density functional theory analysis and spectral studies on amyloid peptide A $\beta$ 2(28-35) and its mutants A30G and A30I. <i>Journal of Structural Biology</i> , 2010, 170, 439-450.	2.8	5
103	A $\beta$ 2 peptide conformation determines uptake and interleukin-1 $\beta$ expression by primary microglial cells. <i>Neurobiology of Aging</i> , 2009, 30, 1792-1804.	3.1	37
104	Aggregation and conformational studies on a pentapeptide derivative. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1659-1667.	2.3	4
105	Lipid-induced conformational transition of the amyloid core fragment A $\beta$ 2(28-35) and its A30G and A30I mutants. <i>FEBS Journal</i> , 2008, 275, 2415-2427.	4.7	13
106	Amyloid toxicity in skeletal myoblasts: Implications for inclusion-body myositis. <i>Archives of Biochemistry and Biophysics</i> , 2008, 474, 15-21.	3.0	13
107	Small Molecule, Non-Peptide p75NTR Ligands Inhibit A $\beta$ 2-Induced Neurodegeneration and Synaptic Impairment. <i>PLoS ONE</i> , 2008, 3, e3604.	2.5	112