

Jayakumar Rajadas

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105
papers

3,448
citations

33
h-index

56
g-index

107
ext. papers

4,099
ext. citations

6.9
avg, IF

5.09
L-index

#	Paper	IF	Citations
105	Small molecule BDNF mimetics activate TrkB signaling and prevent neuronal degeneration in rodents. <i>Journal of Clinical Investigation</i> , 2010 , 120, 1774-85	15.9	286
104	Enhancement of mesenchymal stem cell angiogenic capacity and stemness by a biomimetic hydrogel scaffold. <i>Biomaterials</i> , 2012 , 33, 80-90	15.6	276
103	Exosomes as nano-theranostic delivery platforms for gene therapy. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 357-67	18.5	166
102	Filamentous Bacteriophage Promote Biofilm Assembly and Function. <i>Cell Host and Microbe</i> , 2015 , 18, 549-59	23.4	135
101	The effect of bioengineered acellular collagen patch on cardiac remodeling and ventricular function post myocardial infarction. <i>Biomaterials</i> , 2013 , 34, 9048-55	15.6	133
100	Engineered pullulan-collagen composite dermal hydrogels improve early cutaneous wound healing. <i>Tissue Engineering - Part A</i> , 2011 , 17, 631-44	3.9	119
99	Transdermal deferoxamine prevents pressure-induced diabetic ulcers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 94-9	11.5	113
98	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	8.3	112
97	Small molecule, non-peptide p75 ligands inhibit Abeta-induced neurodegeneration and synaptic impairment. <i>PLoS ONE</i> , 2008 , 3, e3604	3.7	100
96	Quantum dots and carbon nanotubes in oncology: a review on emerging theranostic applications in nanomedicine. <i>Nanomedicine</i> , 2011 , 6, 1101-14	5.6	93
95	Nanomaterials engineering for drug delivery: a hybridization approach. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 3995-4018	7.3	79
94	Capillary force seeding of hydrogels for adipose-derived stem cell delivery in wounds. <i>Stem Cells Translational Medicine</i> , 2014 , 3, 1079-89	6.9	78
93	Pullulan hydrogels improve mesenchymal stem cell delivery into high-oxidative-stress wounds. <i>Macromolecular Bioscience</i> , 2011 , 11, 1458-66	5.5	68
92	Pathogenesis of Abeta oligomers in synaptic failure. <i>Current Alzheimer Research</i> , 2013 , 10, 316-23	3	65
91	Exosomes as immunotheranostic nanoparticles. <i>Clinical Therapeutics</i> , 2014 , 36, 820-9	3.5	62
90	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	6.7	57
89	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	19	55

88	Polyvinylpyrrolidone microneedles enable delivery of intact proteins for diagnostic and therapeutic applications. <i>Acta Biomaterialia</i> , 2013 , 9, 7767-74	10.8	55
87	Efficient gene delivery of primary human cells using peptide linked polyethylenimine polymer hybrid. <i>Biomaterials</i> , 2011 , 32, 4647-58	15.6	55
86	Pharmacological rescue of diabetic skeletal stem cell niches. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	53
85	In situ Endothelialization: Bioengineering Considerations to Translation. <i>Small</i> , 2015 , 11, 6248-64	11	51
84	Inception to actualization: next generation coronary stent coatings incorporating nanotechnology. <i>Journal of Biotechnology</i> , 2013 , 164, 151-70	3.7	49
83	Biochemical engineering nerve conduits using peptide amphiphiles. <i>Journal of Controlled Release</i> , 2012 , 163, 342-52	11.7	46
82	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	3.9	43
81	Protein Corona Influences Cell-Biomaterial Interactions in Nanostructured Tissue Engineering Scaffolds. <i>Advanced Functional Materials</i> , 2015 , 25, 4379-4389	15.6	40
80	Promotion of airway anastomotic microvascular regeneration and alleviation of airway ischemia by deferoxamine nanoparticles. <i>Biomaterials</i> , 2014 , 35, 803-813	15.6	39
79	Delivery of monocyte lineage cells in a biomimetic scaffold enhances tissue repair. <i>JCI Insight</i> , 2017 , 2,	9.9	39
78	Effect of phenolic compounds against Aβ aggregation and Aβ-induced toxicity in transgenic C. elegans. <i>Neurochemical Research</i> , 2012 , 37, 40-8	4.6	37
77	Tissue engineering vascular grafts a fortiori: looking back and going forward. <i>Expert Opinion on Biological Therapy</i> , 2015 , 15, 231-44	5.4	35
76	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	4.9	35
75	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	3.7	35
74	Aβ peptide conformation determines uptake and interleukin-1α expression by primary microglial cells. <i>Neurobiology of Aging</i> , 2009 , 30, 1792-804	5.6	35
73	[Pyr1]-Apelin-13 delivery via nano-liposomal encapsulation attenuates pressure overload-induced cardiac dysfunction. <i>Biomaterials</i> , 2015 , 37, 289-98	15.6	33
72	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	1.8	33
71	Identification of new drug candidates against <i>Borrelia burgdorferi</i> using high-throughput screening. <i>Drug Design, Development and Therapy</i> , 2016 , 10, 1307-22	4.4	29

70	Inhibition of hyaluronan synthesis attenuates pulmonary hypertension associated with lung fibrosis. <i>British Journal of Pharmacology</i> , 2017 , 174, 3284-3301	8.6	28
69	Multilayered Magnetic Gelatin Membrane Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23098-109	9.5	27
68	PEG/Dextran Double Layer Influences Fe Ion Release and Colloidal Stability of Iron Oxide Nanoparticles. <i>Scientific Reports</i> , 2018 , 8, 4286	4.9	26
67	Transdermal Delivery of Functional Collagen Via Polyvinylpyrrolidone Microneedles. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 2978-90	4.7	24
66	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	4.3	23
65	Synergistic photothermal ablative effects of functionalizing carbon nanotubes with a POSS-PCU nanocomposite polymer. <i>Journal of Nanobiotechnology</i> , 2012 , 10, 34	9.4	22
64	Channelrhodopsins: visual regeneration and neural activation by a light switch. <i>New Biotechnology</i> , 2013 , 30, 461-74	6.4	19
63	4-Methylumbelliferyl glucuronide contributes to hyaluronan synthesis inhibition. <i>Journal of Biological Chemistry</i> , 2019 , 294, 7864-7877	5.4	18
62	Microhemorrhage-associated tissue iron enhances the risk for invasion in a mouse model of airway transplantation. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	18
61	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	2.2	18
60	Use of bio-mimetic three-dimensional technology in therapeutics for heart disease. <i>Bioengineered</i> , 2014 , 5, 193-7	5.7	18
59	Upregulation of CD47 Is a Host Checkpoint Response to Pathogen Recognition. <i>MBio</i> , 2020 , 11,	7.8	17
58	A Thermo-Sensitive Delivery Platform for Topical Administration of Inflammatory Bowel Disease Therapies. <i>Gastroenterology</i> , 2015 , 149, 52-55.e2	13.3	16
57	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	5.5	16
56	Nanotechnology-based gene-eluting stents. <i>Molecular Pharmaceutics</i> , 2013 , 10, 1279-98	5.6	16
55	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	19	16
54	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	3.7	15
53	Strategies for directing cells into building functional hearts and parts. <i>Biomaterials Science</i> , 2018 , 6, 1664-1690	16.90	15

52	Fidgetin-Like 2 siRNA Enhances the Wound Healing Capability of a Surfactant Polymer Dressing. <i>Advances in Wound Care</i> , 2019 , 8, 91-100	4.8	14
51	Nanotechnology and regenerative therapeutics in plastic surgery: The next frontier. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2016 , 69, 1-13	1.7	13
50	From solvent-free microspheres to bioactive gradient scaffolds. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 1157-1169	6	13
49	Borreliacidal activity of Borrelia metal transporter A (BmtA) binding small molecules by manganese transport inhibition. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 805-16	4.4	13
48	Adenosine and hyaluronan promote lung fibrosis and pulmonary hypertension in combined pulmonary fibrosis and emphysema. <i>DMM Disease Models and Mechanisms</i> , 2019 , 12,	4.1	12
47	Screening of NCI-DTP library to identify new drug candidates for Borrelia burgdorferi. <i>Journal of Antibiotics</i> , 2017 , 70, 308-312	3.7	12
46	Enhanced A β (1-40) production in endothelial cells stimulated with fibrillar A β (1-42). <i>PLoS ONE</i> , 2013 , 8, e58194	3.7	12
45	Optimization of transdermal deferoxamine leads to enhanced efficacy in healing skin wounds. <i>Journal of Controlled Release</i> , 2019 , 308, 232-239	11.7	11
44	Amyloid toxicity in skeletal myoblasts: Implications for inclusion-body myositis. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 474, 15-21	4.1	11
43	Lipid-induced conformational transition of the amyloid core fragment A β (28-35) and its A30G and A30I mutants. <i>FEBS Journal</i> , 2008 , 275, 2415-27	5.7	11
42	Infrared Imaging Tools for Diagnostic Applications in Dermatology 2015 , 1, 1-5		11
41	Adipose-Derived Stromal Cells Seeded in Pullulan-Collagen Hydrogels Improve Healing in Murine Burns. <i>Tissue Engineering - Part A</i> , 2021 , 27, 844-856	3.9	11
40	Deferoxamine can prevent pressure ulcers and accelerate healing in aged mice. <i>Wound Repair and Regeneration</i> , 2018 , 26, 300-305	3.6	10
39	Structural preferences of A β fragments in different micellar environments. <i>Neuropeptides</i> , 2011 , 45, 369-76	3.3	10
38	Therapeutic Nanoparticles for Targeted Delivery of Anticancer Drugs 2017 , 245-259		9
37	Dendritic Cells as Targets for Biomaterial-Based Immunomodulation. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 2726-2739	5.5	9
36	Effect of osmolytes on the conformation and aggregation of some amyloid peptides: CD spectroscopic data. <i>Data in Brief</i> , 2016 , 7, 1643-51	1.2	9
35	In vitro analysis of Mg scaffolds coated with polymer/hydrogel/ceramic composite layers. <i>Surface and Coatings Technology</i> , 2016 , 301, 126-132	4.4	9

34	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 ^{5.6}	9
33	Vascularisation in regenerative therapeutics and surgery. <i>Materials Science and Engineering C</i> , 2015 , 54, 225-38	8.3 9
32	Disrupting biological sensors of force promotes tissue regeneration in large organisms. <i>Nature Communications</i> , 2021 , 12, 5256	17.4 9
31	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	4.1 8
30	In vitro and in vivo metabolite identification of a novel benzimidazole compound ZLN005 by LC-MS/MS. <i>Rapid Communications in Mass Spectrometry</i> , 2018 , 32, 480	2.2 8
29	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	3.5 8
28	Repurposing Disulfiram (Tetraethylthiuram Disulfide) as a Potential Drug Candidate against In Vitro and In Vivo. <i>Antibiotics</i> , 2020 , 9,	4.9 8
27	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	2.1 7
26	Solvent microenvironments and copper binding alters the conformation and toxicity of a prion fragment. <i>PLoS ONE</i> , 2013 , 8, e85160	3.7 7
25	Dynamic CT imaging of volumetric changes in pulmonary nodules correlates with physical measurements of stiffness. <i>Radiotherapy and Oncology</i> , 2017 , 122, 313-318	5.3 5
24	Salivary Thiocyanate as a Biomarker of Cystic Fibrosis Transmembrane Regulator Function. <i>Analytical Chemistry</i> , 2019 , 91, 7929-7934	7.8 5
23	Azlocillin can be the potential drug candidate against drug-tolerant <i>Borrelia burgdorferi</i> sensu stricto JLB31. <i>Scientific Reports</i> , 2020 , 10, 3798	4.9 5
22	Cytokines as therapeutic agents and targets in heart disease. <i>Cytokine and Growth Factor Reviews</i> , 2018 , 43, 54-68	17.9 5
21	Pharmaceuticals and Stem Cells in Autism Spectrum Disorders: Wishful Thinking?. <i>World Neurosurgery</i> , 2017 , 98, 659-672	2.1 5
20	Density functional theory analysis and spectral studies on amyloid peptide Abeta(28-35) and its mutants A30G and A30I. <i>Journal of Structural Biology</i> , 2010 , 170, 439-50	3.4 5
19	Association of serum allopregnanolone with restricted and repetitive behaviors in adult males with autism. <i>Psychoneuroendocrinology</i> , 2021 , 123, 105039	5 5
18	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, 2764831	6.7 5
17	Amyloid protein aggregates: new clients for mitochondrial energy production in the brain?. <i>FEBS Journal</i> , 2020 , 287, 3386-3395	5.7 4

16	Self-assembly and sequence length dependence on nanofibrils of polyglutamine peptides. <i>Neuropeptides</i> , 2016 , 57, 71-83	3.3	4
15	Polymeric Nanoparticles to Combat Squamous Cell Carcinomas in Patients with Dystrophic Epidermolysis Bullosa. <i>Recent Patents on Nanomedicine</i> , 2014 , 4, 15-24		4
14	Aggregation and conformational studies on a pentapeptide derivative. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008 , 1784, 1659-67	4	4
13	An introduction to nanoengineered biomaterials 2019 , 1-11		4
12	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	6.6	4
11	Conformational dynamics of a hydrophobic prion fragment (113-127) in different pH and osmolyte solutions. <i>Neuropeptides</i> , 2016 , 57, 9-14	3.3	3
10	A hydrodynamic microchip for formation of continuous cell chains. <i>Applied Physics Letters</i> , 2014 , 104, 203701	3.4	3
9	Integrated Ca flux and AFM force analysis in human iPSC-derived cardiomyocytes. <i>Biological Chemistry</i> , 2020 , 402, 113-121	4.5	3
8	Anti-hyperlipidaemic effects of synthetic analogues of nordihydroguaiaretic acid in dyslipidaemic rats. <i>British Journal of Pharmacology</i> , 2019 , 176, 369-385	8.6	3
7	Recent Developments in Diffusion Tensor Imaging of Brain 2015 , 1, 1-12		2
6	Sutureless microvascular anastomosis with the aid of heparin loaded poloxamer 407. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2017 , 70, 267-273	1.7	1
5	Nanoparticles hybridization to engineer biomaterials for drug delivery 2017 , 147-161		1
4	Conformational Preferences of A β 5-35 and A β 5-25 in Membrane Mimicking Environments. <i>Protein and Peptide Letters</i> , 2019 , 26, 386-390	1.9	1
3	Development of Vancomycin Delivery Systems Based on Autologous 3D Platelet-Rich Fibrin Matrices for Bone Tissue Engineering. <i>Biomedicines</i> , 2021 , 9,	4.8	1
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	3.9	1
1	In vitro and in vivo evaluation of cephalosporins for the treatment of Lyme disease. <i>Drug Design, Development and Therapy</i> , 2018 , 12, 2915-2921	4.4	1