

Robin Augustine

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

4,696
citations

76196

40
h-index

110170

64
g-index

77
all docs

77
docs citations

77
times ranked

5471
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel electrospun chitosan/polyvinyl alcohol/zinc oxide nanofibrous mats with antibacterial and antioxidant properties for diabetic wound healing. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 385-393.	3.6	323
2	Electrospun polycaprolactone/ZnO nanocomposite membranes as biomaterials with antibacterial and cell adhesion properties. <i>Journal of Polymer Research</i> , 2014, 21, 1.	1.2	242
3	Electrospun chitosan membranes containing bioactive and therapeutic agents for enhanced wound healing. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 153-170.	3.6	171
4	Electrospun polycaprolactone membranes incorporated with ZnO nanoparticles as skin substitutes with enhanced fibroblast proliferation and wound healing. <i>RSC Advances</i> , 2014, 4, 24777.	1.7	170
5	Loop-Mediated Isothermal Amplification (LAMP): A Rapid, Sensitive, Specific, and Cost-Effective Point-of-Care Test for Coronaviruses in the Context of COVID-19 Pandemic. <i>Biology</i> , 2020, 9, 182.	1.3	168
6	<p>Reduced Graphene Oxide Incorporated GelMA Hydrogel Promotes Angiogenesis For Wound Healing Applications</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 9603-9617.	3.3	161
7	Investigation of angiogenesis and its mechanism using zinc oxide nanoparticle-loaded electrospun tissue engineering scaffolds. <i>RSC Advances</i> , 2014, 4, 51528-51536.	1.7	159
8	Electrospun poly(vinylidene fluoride-trifluoroethylene)/zinc oxide nanocomposite tissue engineering scaffolds with enhanced cell adhesion and blood vessel formation. <i>Nano Research</i> , 2017, 10, 3358-3376.	5.8	146
9	Extracellular biosynthesis of iron oxide nanoparticles by <i>Bacillus subtilis</i> strains isolated from rhizosphere soil. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 835-840.	1.4	141
10	Electrospun PCL membranes incorporated with biosynthesized silver nanoparticles as antibacterial wound dressings. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 337-344.	1.6	138
11	Cellular uptake and retention of nanoparticles: Insights on particle properties and interaction with cellular components. <i>Materials Today Communications</i> , 2020, 25, 101692.	0.9	131
12	Skin bioprinting: a novel approach for creating artificial skin from synthetic and natural building blocks. <i>Progress in Biomaterials</i> , 2018, 7, 77-92.	1.8	127
13	Recent advances in electrospun polycaprolactone based scaffolds for wound healing and skin bioengineering applications. <i>Materials Today Communications</i> , 2019, 19, 319-335.	0.9	122
14	Cerium Oxide Nanoparticle Incorporated Electrospun Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Membranes for Diabetic Wound Healing Applications. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 58-70.	2.6	120
15	Electrospun polycaprolactone (PCL) scaffolds embedded with europium hydroxide nanorods (EHNs) with enhanced vascularization and cell proliferation for tissue engineering applications. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4660-4672.	2.9	100
16	Advancement of wound care from grafts to bioengineered smart skin substitutes. <i>Progress in Biomaterials</i> , 2014, 3, 103-113.	1.8	98
17	Growth factor loaded in situ photocrosslinkable poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/gelatin methacryloyl hybrid patch for diabetic wound healing. <i>Materials Science and Engineering C</i> , 2021, 118, 111519.	3.8	94
18	3D Bioprinted cancer models: Revolutionizing personalized cancer therapy. <i>Translational Oncology</i> , 2021, 14, 101015.	1.7	90

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19	Challenges in oral drug delivery of antiretrovirals and the innovative strategies to overcome them. <i>Advanced Drug Delivery Reviews</i> , 2016, 103, 105-120.	6.6	87
20	Natural halloysite nanotubes /chitosan based bio-nanocomposite for delivering norfloxacin, an anti-microbial agent in sustained release manner. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 1849-1861.	3.6	83
21	Electrospun polyvinyl alcohol membranes incorporated with green synthesized silver nanoparticles for wound dressing applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 163.	1.7	80
22	Electrospun poly(ϵ -caprolactone)-based skin substitutes: <i>in vivo</i> evaluation of wound healing and the mechanism of cell proliferation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 1445-1454.	1.6	78
23	A facile and rapid method for the black pepper leaf mediated green synthesis of silver nanoparticles and the antimicrobial study. <i>Applied Nanoscience (Switzerland)</i> , 2014, 4, 809-818.	1.6	74
24	<p>CTGF Loaded Electrospun Dual Porous Core-Shell Membrane For Diabetic Wound Healing</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 8573-8588.	3.3	70
25	Effect of zinc oxide nanoparticles on the <i>in vitro</i> degradation of electrospun polycaprolactone membranes in simulated body fluid. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016, 65, 28-37.	1.8	69
26	Nitric oxide releasing chitosan-poly (vinyl alcohol) hydrogel promotes angiogenesis in chick embryo model. <i>International Journal of Biological Macromolecules</i> , 2019, 136, 901-910.	3.6	68
27	Cerium Oxide Nanoparticle-Loaded Gelatin Methacryloyl Hydrogel Wound-Healing Patch with Free Radical Scavenging Activity. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 279-290.	2.6	65
28	Emerging applications of biocompatible phytosynthesized metal/metal oxide nanoparticles in healthcare. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 56, 101516.	1.4	63
29	Metal Oxide Nanoparticles as Versatile Therapeutic Agents Modulating Cell Signaling Pathways: Linking Nanotechnology with Molecular Medicine. <i>Applied Materials Today</i> , 2017, 7, 91-103.	2.3	62
30	Novel drug delivery systems based on triaxial electrospinning based nanofibers. <i>Reactive and Functional Polymers</i> , 2021, 163, 104895.	2.0	62
31	Cell Adhesion on Polycaprolactone Modified by Plasma Treatment. <i>International Journal of Polymer Science</i> , 2016, 2016, 1-9.	1.2	61
32	Yttrium oxide nanoparticle loaded scaffolds with enhanced cell adhesion and vascularization for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2019, 103, 109801.	3.8	60
33	Dose-Dependent Effects of Gamma Irradiation on the Materials Properties and Cell Proliferation of Electrospun Polycaprolactone Tissue Engineering Scaffolds. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015, 64, 526-533.	1.8	57
34	Rapid Antibody-Based COVID-19 Mass Surveillance: Relevance, Challenges, and Prospects in a Pandemic and Post-Pandemic World. <i>Journal of Clinical Medicine</i> , 2020, 9, 3372.	1.0	54
35	Nanoparticle-in-microparticle oral drug delivery system of a clinically relevant darunavir/ritonavir antiretroviral combination. <i>Acta Biomaterialia</i> , 2018, 74, 344-359.	4.1	52
36	An <i>in vitro</i> method for the determination of microbial barrier property (MBP) of porous polymeric membranes for skin substitute and wound dressing applications. <i>Tissue Engineering and Regenerative Medicine</i> , 2015, 12, 12-19.	1.6	48

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37	Fabrication and characterization of biosilver nanoparticles loaded calcium pectinate nano-micro dual-porous antibacterial wound dressings. <i>Progress in Biomaterials</i> , 2016, 5, 223-235.	1.8	48
38	Nanoceria Can Act as the Cues for Angiogenesis in Tissue-Engineering Scaffolds: Toward Next-Generation in Situ Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 4338-4353.	2.6	48
39	Clogging-Free Electrospinning of Polycaprolactone Using Acetic Acid/Acetone Mixture. <i>Polymer-Plastics Technology and Engineering</i> , 2016, 55, 518-529.	1.9	43
40	Chitosan ascorbate hydrogel improves water uptake capacity and cell adhesion of electrospun poly(epsilon-caprolactone) membranes. <i>International Journal of Pharmaceutics</i> , 2019, 559, 420-426.	2.6	43
41	Titanium Nanorods Loaded PCL Meshes with Enhanced Blood Vessel Formation and Cell Migration for Wound Dressing Applications. <i>Macromolecular Bioscience</i> , 2019, 19, e1900058.	2.1	41
42	Surface Acoustic Wave Device with Reduced Insertion Loss by Electrospinning P(VDF/TrFE)/ZnO Nanocomposites. <i>Nano-Micro Letters</i> , 2016, 8, 282-290.	14.4	40
43	Nitric oxide-releasing biomaterials for promoting wound healing in impaired diabetic wounds: State of the art and recent trends. <i>Biomedicine and Pharmacotherapy</i> , 2022, 149, 112707.	2.5	35
44	Therapeutic angiogenesis: From conventional approaches to recent nanotechnology-based interventions. <i>Materials Science and Engineering C</i> , 2019, 97, 994-1008.	3.8	34
45	Stem cell-based approaches in cardiac tissue engineering: controlling the microenvironment for autologous cells. <i>Biomedicine and Pharmacotherapy</i> , 2021, 138, 111425.	2.5	33
46	MXene Nanosheets May Induce Toxic Effect on the Early Stage of Embryogenesis. <i>Journal of Biomedical Nanotechnology</i> , 2020, 16, 364-372.	0.5	33
47	Increased complications of COVID-19 in people with cardiovascular disease: Role of the renin-angiotensin-aldosterone system (RAAS) dysregulation. <i>Chemico-Biological Interactions</i> , 2022, 351, 109738.	1.7	33
48	Gentamicin Loaded Electrospun Poly(Lu-Caprolactone)/TiO ₂ Nanocomposite Membranes with Antibacterial Property against Methicillin Resistant <i>Staphylococcus aureus</i> . <i>Polymer-Plastics Technology and Engineering</i> , 2016, 55, 1785-1796.	1.9	30
49	Development of titanium dioxide nanowire incorporated poly(vinylidene fluoride-trifluoroethylene) scaffolds for bone tissue engineering applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 96.	1.7	29
50	Development of nitric oxide releasing visible light crosslinked gelatin methacrylate hydrogel for rapid closure of diabetic wounds. <i>Biomedicine and Pharmacotherapy</i> , 2021, 140, 111747.	2.5	27
51	Active agents loaded extracellular matrix mimetic electrospun membranes for wound healing applications. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 63, 102500.	1.4	26
52	Imaging cancer cells with nanostructures: Prospects of nanotechnology driven non-invasive cancer diagnosis. <i>Advances in Colloid and Interface Science</i> , 2021, 294, 102457.	7.0	26
53	Electrospun polylactic acid/date palm polyphenol extract nanofibres for tissue engineering applications. <i>Emergent Materials</i> , 2019, 2, 141-151.	3.2	23
54	Stem cells based in vitro models: trends and prospects in biomaterials cytotoxicity studies. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 042003.	1.7	19

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55	NiFe ₂ O ₄ /poly(ethylene glycol)/lipid polymer hybrid nanoparticles for anti-cancer drug delivery. <i>New Journal of Chemistry</i> , 2020, 44, 18162-18172.	1.4	17
56	Stromal cell-derived factor loaded co-electrospun hydrophilic/hydrophobic bicomponent membranes for wound protection and healing. <i>RSC Advances</i> , 2021, 11, 572-583.	1.7	17
57	Carboxymethylcellulose hybrid nanodispersions for edible coatings with potential anti-cancer properties. <i>International Journal of Biological Macromolecules</i> , 2020, 157, 350-358.	3.6	16
58	Gelatin-methacryloyl hydrogel based <i>in vitro</i> blood-brain barrier model for studying breast cancer-associated brain metastasis. <i>Pharmaceutical Development and Technology</i> , 2021, 26, 490-500.	1.1	16
59	Bioengineered microfluidic blood-brain barrier models in oncology research. <i>Translational Oncology</i> , 2021, 14, 101087.	1.7	16
60	Multimodal applications of phytonanoparticles. , 2020, , 195-219.		14
61	Monitoring and separation of food-borne pathogens using magnetic nanoparticles. , 2016, , 271-312.		10
62	A novel in ovo model to study cancer metastasis using chicken embryos and GFP expressing cancer cells. <i>Bosnian Journal of Basic Medical Sciences</i> , 2020, 20, 140-148.	0.6	7
63	Tissue Engineering: Principles, Recent Trends and the Future. , 2016, , 31-82.		6
64	Graphene Oxide Loaded Hydrogel for Enhanced Wound Healing in Diabetic Patients. , 2019, 2019, 3943-3946.		6
65	Reactive Nitrogen Species Releasing Hydrogel for Enhanced Wound Healing. , 2019, 2019, 3939-3942.		5
66	Crosslinking Strategies to Develop Hydrogels for Biomedical Applications. <i>Gels Horizons: From Science To Smart Materials</i> , 2021, , 21-57.	0.3	5
67	Microbial Barrier Property and Blood Compatibility Studies of Electrospun Poly-ε-Caprolactone/ Zinc Oxide Nanocomposite Scaffolds. <i>Journal of Siberian Federal University - Biology</i> , 2017, 10, 226-236.	0.2	5
68	Electrospinning and Three-Dimensional (3D) Printing for Biofabrication. , 2022, , 555-604.		5
69	Spatial mapping of cancer tissues by OMICS technologies. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2022, 1877, 188663.	3.3	4
70	Cellular response to nanobiomaterials. , 2020, , 473-504.		2
71	Effect Of Compatibilizer: Filler Ratio On The Tensile, Barrier And Thermal Properties Of polyethylene Composite Films Manufactured From Natural Fiber And Nanoclay. , 2016, , 89-108.		2
72	Cisplatin encapsulated nanoparticles from polymer blends for anti-cancer drug delivery. <i>New Journal of Chemistry</i> , 2022, 46, 5819-5829.	1.4	2

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73	Growth factor releasing core-shell polymeric scaffolds for tissue engineering applications. , 2019, 2019, 1066-1069.		1
74	Electrospun polymer nanocomposite scaffolds containing metal oxide nanoparticles for diabetic wound healing. , 2018, , .		0
75	Nanomedicine: From Concept to Reality. , 2016, , 1-30.		0
76	Conjugation of CTGF with Reduced Graphene Oxide Nanoparticles for the Development of Wound Healing Hydrogel Patch. , 2020, , .		0