Robin Augustine

List of Publications by Year in Descending Order

74 papers	2,820 citations	33 h-index	52 g-index
77 ext. papers	3,744 ext. citations	5.5 avg, IF	5.99 L-index

#	Paper	IF	Citations
74	Nitric oxide-releasing biomaterials for promoting wound healing in impaired diabetic wounds: State of the art and recent trends.. *Biomedicine and Pharmacotherapy*, **2022**, 149, 112707	7.5	2
73	Electrospinning and Three-Dimensional (3D) Printing for Biofabrication **2022**, 555-604		0
72	Increased complications of COVID-19 in people with cardiovascular disease: Role of the renin-angiotensin-aldosterone system (RAAS) dysregulation. *Chemico-Biological Interactions*, **2021**, 351, 109738	5	4
71	Spatial mapping of cancer tissues by OMICS technologies. *Biochimica Et Biophysica Acta: Reviews on Cancer*, **2021**, 188663	11.2	1
70	Stem cells basedmodels: Trends and prospects in biomaterials cytotoxicity studies. *Biomedical Materials (Bristol)*, **2021**,	3.5	3
69	3D Bioprinted cancer models: Revolutionizing personalized cancer therapy. *Translational Oncology*, **2021**, 14, 101015	4.9	29
68	Active agents loaded extracellular matrix mimetic electrospun membranes for wound healing applications. *Journal of Drug Delivery Science and Technology*, **2021**, 63, 102500	4.5	11
67	Stem cell-based approaches in cardiac tissue engineering: controlling the microenvironment for autologous cells. *Biomedicine and Pharmacotherapy*, **2021**, 138, 111425	7.5	9
66	Novel drug delivery systems based on triaxial electrospinning based nanofibers. *Reactive and Functional Polymers*, **2021**, 163, 104895	4.6	23
65	Bioengineered microfluidic blood-brain barrier models in oncology research. *Translational Oncology* , **2021**, 14, 101087	4.9	4
64	Growth factor loaded in situ photocrosslinkable poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/gelatin methacryloyl hybrid patch for diabetic wound healing. *Materials Science and Engineering C*, **2021**, 118, 111519	8.3	37
63	Cerium Oxide Nanoparticle-Loaded Gelatin Methacryloyl Hydrogel Wound-Healing Patch with Free Radical Scavenging Activity. *ACS Biomaterials Science and Engineering*, **2021**, 7, 279-290	5.5	18
62	Gelatin-methacryloyl hydrogel based blood-brain barrier model for studying breast cancer-associated brain metastasis. *Pharmaceutical Development and Technology*, **2021**, 26, 490-500	3.4	7
61	Development of nitric oxide releasing visible light crosslinked gelatin methacrylate hydrogel for rapid closure of diabetic wounds. *Biomedicine and Pharmacotherapy*, **2021**, 140, 111747	7.5	3
60	Imaging cancer cells with nanostructures: Prospects of nanotechnology driven non-invasive cancer diagnosis. *Advances in Colloid and Interface Science*, **2021**, 294, 102457	14.3	11
59	Crosslinking Strategies to Develop Hydrogels for Biomedical Applications. *Gels Horizons: From Science To Smart Materials*, **2021**, 21-57		1
58	Cellular response to nanobiomaterials **2020**, 473-504		1

57	Carboxymethylcellulose hybrid nanodispersions for edible coatings with potential anti-cancer properties. *International Journal of Biological Macromolecules*, **2020**, 157, 350-358	7.9	7
56	Electrospun chitosan membranes containing bioactive and therapeutic agents for enhanced wound healing. *International Journal of Biological Macromolecules*, **2020**, 156, 153-170	7.9	81
55	MXene Nanosheets May Induce Toxic Effect on the Early Stage of Embryogenesis. *Journal of Biomedical Nanotechnology*, **2020**, 16, 364-372	4	17
54	A novel in ovo model to study cancer metastasis using chicken embryos and GFP expressing cancer cells. *Bosnian Journal of Basic Medical Sciences*, **2020**, 20, 140-148	3.3	3
53	Emerging applications of biocompatible phytosynthesized metal/metal oxide nanoparticles in healthcare. *Journal of Drug Delivery Science and Technology*, **2020**, 56, 101516	4.5	41
52	Cellular uptake and retention of nanoparticles: Insights on particle properties and interaction with cellular components. *Materials Today Communications*, **2020**, 25, 101692	2.5	19
51	NiFe2O4/poly(ethylene glycol)/lipid–polymer hybrid nanoparticles for anti-cancer drug delivery. *New Journal of Chemistry*, **2020**, 44, 18162-18172	3.6	9
50	Natural halloysite nanotubes /chitosan based bio-nanocomposite for delivering norfloxacin, an anti-microbial agent in sustained release manner. *International Journal of Biological Macromolecules* , **2020**, 162, 1849-1861	7.9	38
49	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. *Biology*, **2020**, 9,	4.9	76
48	Multimodal applications of phytonanoparticles **2020**, 195-219		7
47	Rapid Antibody-Based COVID-19 Mass Surveillance: Relevance, Challenges, and Prospects in a Pandemic and Post-Pandemic World. *Journal of Clinical Medicine*, **2020**, 9,	5.1	28
46	Cerium Oxide Nanoparticle Incorporated Electrospun Poly(3-hydroxybutyrate--3-hydroxyvalerate) Membranes for Diabetic Wound Healing Applications. *ACS Biomaterials Science and Engineering*, **2020**, 6, 58-70	5.5	69
45	Stromal cell-derived factor loaded co-electrospun hydrophilic/hydrophobic bicomponent membranes for wound protection and healing.. *RSC Advances*, **2020**, 11, 572-583	3.7	4
44	Nitric oxide releasing chitosan-poly (vinyl alcohol) hydrogel promotes angiogenesis in chick embryo model. *International Journal of Biological Macromolecules*, **2019**, 136, 901-910	7.9	40
43	Yttrium oxide nanoparticle loaded scaffolds with enhanced cell adhesion and vascularization for tissue engineering applications. *Materials Science and Engineering C*, **2019**, 103, 109801	8.3	43
42	Titanium Nanorods Loaded PCL Meshes with Enhanced Blood Vessel Formation and Cell Migration for Wound Dressing Applications. *Macromolecular Bioscience*, **2019**, 19, e1900058	5.5	23
41	Recent advances in electrospun polycaprolactone based scaffolds for wound healing and skin bioengineering applications. *Materials Today Communications*, **2019**, 19, 319-335	2.5	69
40	Chitosan ascorbate hydrogel improves water uptake capacity and cell adhesion of electrospun poly(epsilon-caprolactone) membranes. *International Journal of Pharmaceutics*, **2019**, 559, 420-426	6.5	27

39	Development of titanium dioxide nanowire incorporated poly(vinylidene fluoride-trifluoroethylene) scaffolds for bone tissue engineering applications. *Journal of Materials Science: Materials in Medicine*, **2019**, 30, 96	4.5	19
38	Electrospun polylactic acid/date palm polyphenol extract nanofibres for tissue engineering applications. *Emergent Materials*, **2019**, 2, 141-151	3.5	17
37	Growth factor releasing core-shell polymeric scaffolds for tissue engineering applications. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 1066-1069	0.9	1
36	Reactive Nitrogen Species Releasing Hydrogel for Enhanced Wound Healing. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 3939-3942	0.9	4
35	Graphene Oxide Loaded Hydrogel for Enhanced Wound Healing in Diabetic Patients. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 3943-3946	0.9	3
34	Reduced Graphene Oxide Incorporated GelMA Hydrogel Promotes Angiogenesis For Wound Healing Applications. *International Journal of Nanomedicine*, **2019**, 14, 9603-9617	7.3	60
33	CTGF Loaded Electrospun Dual Porous Core-Shell Membrane For Diabetic Wound Healing. *International Journal of Nanomedicine*, **2019**, 14, 8573-8588	7.3	46
32	Therapeutic angiogenesis: From conventional approaches to recent nanotechnology-based interventions. *Materials Science and Engineering C*, **2019**, 97, 994-1008	8.3	21
31	Nanoparticle-in-microparticle oral drug delivery system of a clinically relevant darunavir/ritonavir antiretroviral combination. *Acta Biomaterialia*, **2018**, 74, 344-359	10.8	36
30	Novel electrospun chitosan/polyvinyl alcohol/zinc oxide nanofibrous mats with antibacterial and antioxidant properties for diabetic wound healing. *International Journal of Biological Macromolecules*, **2018**, 120, 385-393	7.9	200
29	Electrospun polyvinyl alcohol membranes incorporated with green synthesized silver nanoparticles for wound dressing applications. *Journal of Materials Science: Materials in Medicine*, **2018**, 29, 163	4.5	46
28	Nanoceria Can Act as the Cues for Angiogenesis in Tissue-Engineering Scaffolds: Toward Next-Generation in Situ Tissue Engineering. *ACS Biomaterials Science and Engineering*, **2018**, 4, 4338-4353	5.5	31
27	Skin bioprinting: a novel approach for creating artificial skin from synthetic and natural building blocks. *Progress in Biomaterials*, **2018**, 7, 77-92	4.4	80
26	Electrospun poly(vinylidene fluoride-trifluoroethylene)/zinc oxide nanocomposite tissue engineering scaffolds with enhanced cell adhesion and blood vessel formation. *Nano Research*, **2017**, 10, 3358-3376	10	107
25	Electrospun polycaprolactone (PCL) scaffolds embedded with europium hydroxide nanorods (EHNs) with enhanced vascularization and cell proliferation for tissue engineering applications. *Journal of Materials Chemistry B*, **2017**, 5, 4660-4672	7.3	79
24	Metal Oxide Nanoparticles as Versatile Therapeutic Agents Modulating Cell Signaling Pathways: Linking Nanotechnology with Molecular Medicine. *Applied Materials Today*, **2017**, 7, 91-103	6.6	46
23	Microbial Barrier Property and Blood Compatibility Studies of Electrospun Poly-Ε-Caprolactone/ Zinc Oxide Nanocomposite Scaffolds. *Journal of Siberian Federal University - Biology*, **2017**, 10, 226-236	0.3	4
22	Effect of zinc oxide nanoparticles on the in vitro degradation of electrospun polycaprolactone membranes in simulated body fluid. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2016**, 65, 28-37	3	49

21	Clogging-Free Electrospinning of Polycaprolactone Using Acetic Acid/Acetone Mixture. *Polymer-Plastics Technology and Engineering*, **2016**, 55, 518-529		36
20	Electrospun PCL membranes incorporated with biosynthesized silver nanoparticles as antibacterial wound dressings. *Applied Nanoscience (Switzerland)*, **2016**, 6, 337-344	3.3	96
19	Tissue Engineering: Principles, Recent Trends and the Future **2016**, 31-82		4
18	Gentamicin Loaded Electrospun Poly(ε-Caprolactone)/TiO2 Nanocomposite Membranes with Antibacterial Property against Methicillin Resistant Staphylococcus aureus. *Polymer-Plastics Technology and Engineering*, **2016**, 55, 1785-1796		24
17	Surface Acoustic Wave Device with Reduced Insertion Loss by Electrospinning P(VDF-TrFE)/ZnO Nanocomposites. *Nano-Micro Letters*, **2016**, 8, 282-290	19.5	32
16	Challenges in oral drug delivery of antiretrovirals and the innovative strategies to overcome them. *Advanced Drug Delivery Reviews*, **2016**, 103, 105-120	18.5	58
15	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
14	Nanomedicine: From Concept to Reality **2016**, 1-30		
13	Cell Adhesion on Polycaprolactone Modified by Plasma Treatment. *International Journal of Polymer Science*, **2016**, 2016, 1-9	2.4	45
12	Monitoring and separation of food-borne pathogens using magnetic nanoparticles **2016**, 271-312		8
11	Fabrication and characterization of biosilver nanoparticles loaded calcium pectinate nano-micro dual-porous antibacterial wound dressings. *Progress in Biomaterials*, **2016**, 5, 223-235	4.4	36
10	Electrospun poly(ε-caprolactone)-based skin substitutes: In vivo evaluation of wound healing and the mechanism of cell proliferation. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2015**, 103, 1445-54	3.5	63
9	An in vitro method for the determination of microbial barrier property (MBP) of porous polymeric membranes for skin substitute and wound dressing applications. *Tissue Engineering and Regenerative Medicine*, **2015**, 12, 12-19	4.5	39
8	Dose-Dependent Effects of Gamma Irradiation on the Materials Properties and Cell Proliferation of Electrospun Polycaprolactone Tissue Engineering Scaffolds. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2015**, 64, 526-533	3	44
7	Electrospun polycaprolactone/ZnO nanocomposite membranes as biomaterials with antibacterial and cell adhesion properties. *Journal of Polymer Research*, **2014**, 21, 1	2.7	182
6	A facile and rapid method for the black pepper leaf mediated green synthesis of silver nanoparticles and the antimicrobial study. *Applied Nanoscience (Switzerland)*, **2014**, 4, 809-818	3.3	59
5	Investigation of angiogenesis and its mechanism using zinc oxide nanoparticle-loaded electrospun tissue engineering scaffolds. *RSC Advances*, **2014**, 4, 51528-51536	3.7	127
4	Electrospun polycaprolactone membranes incorporated with ZnO nanoparticles as skin substitutes with enhanced fibroblast proliferation and wound healing. *RSC Advances*, **2014**, 4, 24777	3.7	140

3	Advancement of wound care from grafts to bioengineered smart skin substitutes. *Progress in Biomaterials*, **2014**, 3, 103-113	4.4	77
2	Biopolymers for Health, Food, and Cosmetic Applications **2013**, 801-849		30
1	Extracellular biosynthesis of iron oxide nanoparticles by Bacillus subtilis strains isolated from rhizosphere soil. *Biotechnology and Bioprocess Engineering*, **2012**, 17, 835-840	3.1	103