

Ze Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100 papers	2,754 citations	29 h-index	49 g-index
106 ext. papers	3,055 ext. citations	5.7 avg, IF	4.9 L-index

#	Paper	IF	Citations
100	Alginate-assistant nanofiber integrated with polypropylene hernia mesh for efficient anti-adhesion effects and enhanced tissue compatibility. <i>Composites Part B: Engineering</i> , 2022 , 235, 109761	10	0
99	A comparative study of different tissue materials for bioprosthetic aortic valves using experimental assays and finite element analysis.. <i>Computer Methods and Programs in Biomedicine</i> , 2022 , 220, 106813	6.9	
98	Flexible and free-standing pristine polypyrrole membranes with a nanotube structure for repeatable Cr(VI) ion removal. <i>Separation and Purification Technology</i> , 2021 , 258, 117981	8.3	12
97	Innovative textile structures designed to prevent type III endoleaks in endovascular stent-grafts. <i>Artificial Organs</i> , 2021 , 45, 278-288	2.6	1
96	Commentary: Honing the Technique of In Situ Stent-Graft Fenestration. <i>Journal of Endovascular Therapy</i> , 2021 , 28, 53-55	2.5	1
95	A biocompatible polypyrrole membrane for biomedical applications.. <i>RSC Advances</i> , 2021 , 11, 16996-17006	9.6	5
94	Optimal In Situ Fenestration Technique With Laser Perforation and Balloon Dilation for Aortic Stent-Grafts. <i>Journal of Endovascular Therapy</i> , 2021 , 28, 300-308	2.5	1
93	Facile fabrication of phospholipid-functionalized nanofiber-based barriers with enhanced anti-adhesion efficiency. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 203, 111728	6	2
92	Effect of Electrical Stimulation on Diabetic Human Skin Fibroblast Growth and the Secretion of Cytokines and Growth Factors Involved in Wound Healing. <i>Biology</i> , 2021 , 10,	4.9	3
91	Soybean-derived phospholipids complexed poly (lactic-co-glycolic acid) nanofibrous scaffolds for tissue engineering applications. <i>Materials and Design</i> , 2021 , 205, 109737	8.1	4
90	Ultra-low temperature flexible supercapacitor based on hierarchically structured pristine polypyrrole membranes. <i>Chemical Engineering Journal</i> , 2021 , 420, 129712	14.7	12
89	Antimicrobial activity and biocompatibility of slow-release hyaluronic acid-antibiotic conjugated particles. <i>International Journal of Pharmaceutics</i> , 2020 , 576, 119024	6.5	12
88	Electrical stimulation promotes the proliferation of human keratinocytes, increases the production of keratin 5 and 14, and increases the phosphorylation of ERK1/2 and p38 MAP kinases. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 909-919	4.4	8
87	Comparison of tensile properties of xenopericardium from three animal species and finite element analysis for bioprosthetic heart valve tissue. <i>Artificial Organs</i> , 2020 , 44, 278-287	2.6	8
86	Surface modification by assembling: a modular approach based on the match in nanostructures. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 755-762	7.3	3
85	Donkey pericardium compares favorably with commercial xenopericardia used in the manufacture of transcatheter heart valves. <i>Artificial Organs</i> , 2019 , 43, 976-987	2.6	5
84	Toward endothelialization via vascular endothelial growth factor immobilization on cell-repelling functional polyurethanes. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 965-977	3.5	2

83	Laser Fenestration of Aortic Stent-Grafts Followed by Noncompliant vs Cutting Balloon Dilation: A Scanning Electron Microscopy Study. <i>Journal of Endovascular Therapy</i> , 2018 , 25, 397-407	2.5	10
82	Polypyrrole as Electrically Conductive Biomaterials: Synthesis, Biofunctionalization, Potential Applications and Challenges. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1078, 347-370	3.6	12
81	Pulsed electrical stimulation modulates fibroblasts behaviour through the Smad signalling pathway. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1110-1121	4.4	27
80	Conductive Polymer Waving in Liquid Nitrogen. <i>ACS Nano</i> , 2017 , 11, 10409-10416	16.7	16
79	Correlation between structural changes and acute thrombogenicity in transcatheter pericardium valves after crimping and balloon deployment. <i>Morphologie</i> , 2017 , 101, 19-32	0.9	20
78	One-step reactivity-driven synthesis of core-shell structured electrically conducting particles for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 5429-5436	7.3	5
77	Conductive poly(pyrrole-co-(1-(2-carboxyethyl)pyrrole)) core-shell particles: Synthesis, characterization, and optimization. <i>Polymer</i> , 2016 , 105, 113-123	3.9	3
76	Ex Vivo Assay of Electrical Stimulation to Rat Sciatic Nerves: Cell Behaviors and Growth Factor Expression. <i>Journal of Cellular Physiology</i> , 2016 , 231, 1301-12	7	6
75	The Gelweave Valsalva Graft to Better Reconstruct the Anatomy of the Aortic Root. <i>Journal of Long-Term Effects of Medical Implants</i> , 2016 , 26, 97-121	0.2	2
74	The ROVT Elan Valved Bilex Conduits for the Reconstruction of the Right Ventricular Outflow Tract. <i>Journal of Long-Term Effects of Medical Implants</i> , 2016 , 26, 13-42	0.2	
73	The Triplex BioValsalva Prostheses To Reconstruct the Aortic Valve and the Aortic Root. <i>Journal of Long-Term Effects of Medical Implants</i> , 2016 , 26, 49-78	0.2	
72	Prenatal developmental safety of functional polyurethanes for cardiovascular implants. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 606-14	3.5	4
71	Electrically Activated Primary Human Fibroblasts Improve In Vitro and In Vivo Skin Regeneration. <i>Journal of Cellular Physiology</i> , 2016 , 231, 1814-21	7	12
70	In Vitro Laser Fenestration of Aortic Stent-Grafts: A Qualitative Analysis Under Scanning Electron Microscope. <i>Artificial Organs</i> , 2016 , 40, E241-E252	2.6	11
69	Pulsed electrical stimulation benefits wound healing by activating skin fibroblasts through the TGF β /ERK/NF- κ B axis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 1551-9	4	36
68	An electrically conductive 3D scaffold based on a nonwoven web of poly(L-lactic acid) and conductive poly(3,4-ethylenedioxythiophene). <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2635-44	5.4	30
67	Electrical Stimulation Modulates the Expression of Multiple Wound Healing Genes in Primary Human Dermal Fibroblasts. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1982-90	3.9	26
66	Novel genipin-collagen immobilization of polylactic acid (PLA) fibers for use as tissue engineering scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1188-97	3.5	23

65	Stent fabric fatigue of grafts supported by Z-stents versus ringed stents: an in vitro buckling test. <i>Journal of Biomaterials Applications</i> , 2014 , 28, 965-77	2.9	14
64	Commentary: nitinol stent designs need to adhere to the 3Bs: biofunctionality, biodurability, and biocompatibility. <i>Journal of Endovascular Therapy</i> , 2014 , 21, 240-2	2.5	1
63	CoreValve prosthesis causes anterior mitral leaflet perforation resulting in severe mitral regurgitation. <i>Canadian Journal of Cardiology</i> , 2014 , 30, 1108.e11-3	3.8	12
62	A comparative study of bovine and porcine pericardium to highlight their potential advantages to manufacture percutaneous cardiovascular implants. <i>Journal of Biomaterials Applications</i> , 2013 , 28, 552-65	2.9	60
61	Synthesis of polycarbonate urethanes with functional poly(ethylene glycol) side chains intended for bioconjugates. <i>Polymer</i> , 2013 , 54, 5363-5373	3.9	15
60	Electrical stimulation modulates osteoblast proliferation and bone protein production through heparin-bioactivated conductive scaffolds. <i>Bioelectromagnetics</i> , 2013 , 34, 189-99	1.6	69
59	PPy-coated PET fabrics and electric pulse-stimulated fibroblasts. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 3789-3796	7.3	21
58	Electrical stimulation promotes wound healing by enhancing dermal fibroblast activity and promoting myofibroblast transdifferentiation. <i>PLoS ONE</i> , 2013 , 8, e71660	3.7	85
57	Cuspal dehiscence at a post and along the stent cloth in a bovine pericardium heart valve implanted for seven years. <i>Journal of Long-Term Effects of Medical Implants</i> , 2012 , 22, 95-111	0.2	5
56	Electrical field directed electropolymerization of free-standing film of polypyrrole and poly(1-(2-carboxyethyl)pyrrole) at the air/liquid interface. <i>Synthetic Metals</i> , 2011 , 161, 724-730	3.6	9
55	Accelerated osteoblast mineralization on a conductive substrate by multiple electrical stimulation. <i>Journal of Bone and Mineral Metabolism</i> , 2011 , 29, 535-44	2.9	78
54	A novel collagen/hydroxyapatite/poly(lactide-co-ε-caprolactone) biodegradable and bioactive 3D porous scaffold for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 96, 693-704	5.4	52
53	Electroactivity and stability of polylactide/polypyrrole composites. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011 , 22, 1931-46	3.5	3
52	The marvel of percutaneous cardiovascular devices in the elderly. <i>Annals of the New York Academy of Sciences</i> , 2010 , 1197, 188-99	6.5	7
51	Surfactant-templated crystalline polygon nanoparticles of heterocyclic polypyrrole prepared with Fenton's reagent. <i>Synthetic Metals</i> , 2010 , 160, 116-122	3.6	12
50	Five types of polyurethane vascular grafts in dogs: the importance of structural design and material selection. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 1239-64	3.5	27
49	Bioactivating electrically conducting polypyrrole with fibronectin and bovine serum albumin. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 92, 221-31	5.4	30
48	Fluoropassivation and gelatin sealing of polyester arterial prostheses to skip preclotting and constrain the chronic inflammatory response. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 93, 497-509	3.5	15

47	Transrenal deployment of a modular stent graft to repair AAAs with short necks: experiments in dogs. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2008 , 36, 310-39		5
46	The regulation of cell functions electrically using biodegradable polypyrrole-poly lactide conductors. <i>Biomaterials</i> , 2008 , 29, 3792-8	15.6	122
45	Electrical stimulation enhances viability of human cutaneous fibroblasts on conductive biodegradable substrates. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 84, 1026-37	5.4	74
44	Heparin dopant increases the electrical stability, cell adhesion, and growth of conducting polypyrrole/poly(L,L-lactide) composites. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 332-44	5.4	56
43	Transmural communication at a subcellular level may play a critical role in the fallout based-endothelialization of dacron vascular prostheses in canine. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 81, 877-87	5.4	13
42	Electrically conductive biodegradable polymer composite for nerve regeneration: electricity-stimulated neurite outgrowth and axon regeneration. <i>Artificial Organs</i> , 2007 , 31, 13-22	2.6	180
41	Newly developed hybrid suture without lubricant: noninvasive in vivo assessment of biocompatibility with multiparametric MR imaging. <i>Journal of Investigative Surgery</i> , 2007 , 20, 121-33	1.2	2
40	In vitro homogeneous and heterogeneous degradation of poly(epsilon-caprolactone/polyethylene glycol/L-lactide): The absence of autocatalysis and the role of enzymes. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 79, 6-15	5.4	5
39	Polymethylmethacrylate (PMMA) as an embedding medium preserving tissues and foreign materials encroaching in endovascular devices. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2006 , 34, 349-66		2
38	MRI virtual biopsies: analysis of an explanted endovascular device and perspectives for the future. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2006 , 34, 241-61		3
37	Evaluation of biodegradable synthetic scaffold coated on arterial prostheses implanted in rat subcutaneous tissue. <i>Biomaterials</i> , 2005 , 26, 7387-401	15.6	30
36	Biocompatibility studies of the Anaconda stent-graft and observations of nitinol corrosion resistance. <i>Journal of Endovascular Therapy</i> , 2004 , 11, 385-403	2.5	14
35	Pore size, tissue ingrowth, and endothelialization of small-diameter microporous polyurethane vascular prostheses. <i>Biomaterials</i> , 2004 , 25, 177-87	15.6	112
34	In vivo evaluation of a novel electrically conductive polypyrrole/poly(D,L-lactide) composite and polypyrrole-coated poly(D,L-lactide-co-glycolide) membranes. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 70, 28-38		56
33	A novel electrically conductive and biodegradable composite made of polypyrrole nanoparticles and polylactide. <i>Biomaterials</i> , 2004 , 25, 2477-88	15.6	295
32	Can magnetic resonance imaging be the key technique to visualize and investigate endovascular biomaterials?. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2004 , 32, 105-27		1
31	A biodegradable electrical bioconductor made of polypyrrole nanoparticle/poly(D,L-lactide) composite: A preliminary in vitro biostability study. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 738-46		59
30	Biostability of electrically conductive polyester fabrics: an in vitro study. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 62, 507-13		21

29	Tissue reaction to polypyrrole-coated polyester fabrics: an in vivo study in rats. <i>Tissue Engineering</i> , 2002 , 8, 635-47		117
28	In vitro biocompatibility study of electrically conductive polypyrrole-coated polyester fabrics. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 57, 63-71		107
27	Mechanism and rate of degradation of polyhydroxyoctanoate films in aqueous media: A long-term in vitro study. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 49, 216-24		38
26	Selection of a polyurethane membrane for the manufacture of ventricles for a totally implantable artificial heart: blood compatibility and biocompatibility studies. <i>Artificial Organs</i> , 2000 , 24, 879-88	2.6	50
25	Biostability, inflammatory response, and healing characteristics of a fluoropassivated polyester-knit mesh in the repair of experimental abdominal hernias. <i>Artificial Organs</i> , 2000 , 24, 533-43	2.6	21
24	Polymerization and surface analysis of electrically-conductive polypyrrole on surface-activated polyester fabrics for biomedical applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2000 , 11, 87-99	3.5	34
23	Hydrolytic and enzymatic incubation of polyhydroxyoctanoate (PHO): a short-term in vitro study of a degradable bacterial polyester. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999 , 10, 483-99	3.5	22
22	In vivo biocompatibility and degradation studies of polyhydroxyoctanoate in the rat: a new sealant for the polyester arterial prosthesis. <i>Tissue Engineering</i> , 1999 , 5, 369-86		31
21	Tissue reactions to polypyrrole-coated polyesters: A magnetic resonance relaxometry study. <i>Artificial Organs</i> , 1999 , 23, 910-9	2.6	22
20	Totally implantable artificial hearts and left ventricular assist devices: selecting impermeable polycarbonate urethane to manufacture ventricles. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 48, 13-23		36
19	A new generation of polyurethane vascular prostheses: rara avis or ignis fatuus?. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 48, 546-58		30
18	Assessing the resistance to calcification of polyurethane membranes used in the manufacture of ventricles for a totally implantable artificial heart. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 48, 648-59		24
17	Effect of sterilization on the physical and structural characteristics of polyhydroxyoctanoate (PHO). <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999 , 10, 469-82	3.5	12
16	Totally implantable artificial hearts and left ventricular assist devices: Selecting impermeable polycarbonate urethane to manufacture ventricles 1999 , 48, 13		1
15	A new generation of polyurethane vascular prostheses: Rara Avis or Ignis Fatuus? 1999 , 48, 546		1
14	In vitro cellular response to polypyrrole-coated woven polyester fabrics: potential benefits of electrical conductivity. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 41, 519-26		61
13	Are Intraaortic Balloons Suitable for Reuse? A Survey Study of 112 Used Intraaortic Balloons?. <i>Artificial Organs</i> , 1998 , 22, 96-96	2.6	
12	Blood compatible phospholipid-containing polyurethanes: synthesis characterization and blood compatibility evaluation. <i>Journal of Biomaterials Applications</i> , 1997 , 12, 167-91	2.9	33

11	Vascugraft polyurethane arterial prosthesis as femoro-popliteal and femoro-peroneal bypasses in humans: pathological, structural and chemical analyses of four excised grafts. <i>Biomaterials</i> , 1997 , 18, 113-24	15.6	50
10	Are intraaortic balloons suitable for reuse? A survey study of 112 used intraaortic balloons. <i>Artificial Organs</i> , 1997 , 21, 121-30	2.6	5
9	In vivo characterization of a fluoropassivated gelatin-impregnated polyester mesh for hernia repair. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 32, 293-305		18
8	Chemical and morphological analysis of explanted polyurethane vascular prostheses: the challenge of removing fixed adhering tissue. <i>Biomaterials</i> , 1996 , 17, 1843-8	15.6	5
7	Vascugraft [®] microporous polyesterurethane arterial prosthesis as a thoraco-abdominal bypass in dogs. <i>Biomaterials</i> , 1996 , 17, 1289-1300	15.6	15
6	Removing fresh tissue from explanted polyurethane prostheses: which approach facilitates physico-chemical analysis?. <i>Biomaterials</i> , 1995 , 16, 369-80	15.6	21
5	The benefits of fluoropassivation of polyester arterial prostheses as observed in a canine model. <i>ASAIO Journal</i> , 1994 , 40, M870-9	3.6	28
4	In vivo performance of the polyesterurethane Vascugraft prosthesis implanted as a thoraco-abdominal bypass in dogs: an exploratory study. <i>Biomaterials</i> , 1994 , 15, 1099-112	15.6	16
3	Quantitative analysis of the surface morphology and textile structure of the polyurethane Vascugraft arterial prosthesis using image and statistical analyses. <i>Biomaterials</i> , 1994 , 15, 621-7	15.6	13
2	In vitro exposure of a novel polyesterurethane graft to enzymes: a study of the biostability of the Vascugraft arterial prosthesis. <i>Biomaterials</i> , 1994 , 15, 1129-44	15.6	19
1	Expanded polytetrafluoroethylene arterial prostheses in humans: chemical analysis of 79 explanted specimens. <i>Biomaterials</i> , 1993 , 14, 694-704	15.6	33