

# Peng Yu

## 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.

71  
papers

1,579  
citations

23  
h-index

37  
g-index

78  
ext. papers

2,226  
ext. citations

6.9  
avg, IF

4.74  
L-index

#	Paper	IF	Citations
71	A facile strategy for preparation of strong tough poly(lactic acid) foam with a unique microfibrillated bimodal micro/nano cellular structure.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 199, 264-274	7.9	2
70	Preparation of poly(lactic acid) with excellent comprehensive properties via simple deformation or microfibrillation of spherulites. <i>Journal of Applied Polymer Science</i> , <b>2022</b> , 139, 51539	2.9	1
69	Tough and Highly Efficient Underwater Self-Repairing Hydrogels for Soft Electronics.. <i>Small Methods</i> , <b>2022</b> , e2101513	12.8	5
68	Exosomes-Loaded Electroconductive Hydrogel Synergistically Promotes Tissue Repair after Spinal Cord Injury via Immunoregulation and Enhancement of Myelinated Axon Growth.. <i>Advanced Science</i> , <b>2022</b> , e2105586	13.6	5
67	Wireless electrical stimulation at the nanoscale interface induces tumor vascular normalization.. <i>Bioactive Materials</i> , <b>2022</b> , 18, 399-408	16.7	5
66	Programmable biological state-switching photoelectric nanosheets for the treatment of infected wounds. <i>Materials Today Bio</i> , <b>2022</b> , 100292	9.9	1
65	Extracellular Matrix-Based Conductive Interpenetrating Network Hydrogels with Enhanced Neurovascular Regeneration Properties for Diabetic Wounds Repair. <i>Advanced Healthcare Materials</i> , <b>2021</b> , e2101556	10.1	9
64	NIR-Responsive Ti C MXene Colloidal Solution for Curing Purulent Subcutaneous Infection through the "Nanothermal Blade" Effect. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100392	10.1	8
63	Injectable Self-Healing Natural Biopolymer-Based Hydrogel Adhesive with Thermoresponsive Reversible Adhesion for Minimally Invasive Surgery. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007457	15.6	54
62	Wearable sensors and devices for real-time cardiovascular disease monitoring. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100541	6.1	11
61	Exosome-functionalized polyetheretherketone-based implant with immunomodulatory property for enhancing osseointegration. <i>Bioactive Materials</i> , <b>2021</b> , 6, 2754-2766	16.7	26
60	Preparation of PLA with High Impact-Toughness and Reduced Internal Stress via Formation of Laminated, Bimodal Structure with Micro/Nanocells. <i>Macromolecular Materials and Engineering</i> , <b>2021</b> , 306, 2100426	3.9	2
59	Ultrafast and On-Demand Oil/Water Separation Membrane System Based on Conducting Polymer Nanotip Arrays. <i>Nano Letters</i> , <b>2020</b> , 20, 4895-4900	11.5	15
58	Wireless Electrochemotherapy by Selenium-Doped Piezoelectric Biomaterials to Enhance Cancer Cell Apoptosis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 34505-34513	9.5	11
57	Endogenous electric field as a bridge for antibacterial ion transport from implant to bacteria. <i>Science China Materials</i> , <b>2020</b> , 63, 1831-1841	7.1	3
56	Elastomeric conductive hybrid hydrogels with continuous conductive networks. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 2389-2397	7.3	26
55	Nanomaterials as photothermal therapeutic agents. <i>Progress in Materials Science</i> , <b>2019</b> , 99, 1-26	42.2	234

54	Polypyrrole Nanocones and Dynamic Piezoelectric Stimulation-Induced Stem Cell Osteogenic Differentiation. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 4386-4392	5.5	15
53	A spatially varying charge model for regulating site-selective protein adsorption and cell behaviors. <i>Biomaterials Science</i> , <b>2019</b> , 7, 876-888	7.4	9
52	A Tough and Self-Powered Hydrogel for Artificial Skin. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9850-9860	9.6	56
51	Antimicrobial Peptide Functionalized Conductive Nanowire Array Electrode as a Promising Candidate for Bacterial Environment Application. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806353	15.6	8
50	Foaming of poly(lactic acid) with supercritical CO <sub>2</sub> : The combined effect of crystallinity and crystalline morphology on cellular structure. <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 145, 122-132	4.2	35
49	The antibacterial effect of potassium-sodium niobate ceramics based on controlling piezoelectric properties. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 175, 463-468	6	23
48	A built-in electric field with nanoscale distinction for cell behavior regulation. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 2723-2727	7.3	3
47	Tunable Mechanical, Antibacterial, and Cytocompatible Hydrogels Based on a Functionalized Dual Network of Metal Coordination Bonds and Covalent Crosslinking. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 6190-6198	9.5	35
46	In situ fabrication of cellulose nanocrystal-silica hybrids and its application in UHMWPE: Rheological, thermal, and wear resistance properties. <i>Polymer Composites</i> , <b>2018</b> , 39, E1701-E1713	3	14
45	Preparation and characterization of formaldehyde-modified black liquor lignin/poly (propylene carbonate) composites. <i>International Journal of Polymer Analysis and Characterization</i> , <b>2018</b> , 23, 346-353 <sup>1-7</sup>	1.7	7
44	Preparation and characterization of synergistically improved thermally conductive polyamide 6 with low melting point metal and low-temperature expandable graphite. <i>Polymer Composites</i> , <b>2018</b> , 39, 1818-1826	3	2
43	Preparation and properties of poly(lactic acid)/cellulose nanocrystals nanocomposites compatibilized with maleated poly(lactic acid). <i>Polymer Composites</i> , <b>2018</b> , 39, 3092-3101	3	14
42	Incorporating catechol into electroactive polypyrrole nanowires on titanium to promote hydroxyapatite formation. <i>Bioactive Materials</i> , <b>2018</b> , 3, 74-79	16.7	8
41	The aggregation structure regulation of lignin by chemical modification and its effect on the property of lignin/styrene-butadiene rubber composites. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45759	2.9	25
40	A Multifunctional Metallohydrogel with Injectability, Self-Healing, and Multistimulus-Responsiveness for Bioadhesives. <i>Macromolecular Materials and Engineering</i> , <b>2018</b> , 303, 1800305	3.9	10
39	Large-scale functionalization of biomedical porous titanium scaffolds surface with TiO <sub>2</sub> nanostructures. <i>Science China Materials</i> , <b>2018</b> , 61, 557-564	7.1	7
38	Soft Conducting Polymer Hydrogels Cross-Linked and Doped by Tannic Acid for Spinal Cord Injury Repair. <i>ACS Nano</i> , <b>2018</b> , 12, 10957-10967	16.7	146
37	High-performance hydroxypropyl black liquor lignin/poly (propylene carbonate) bio-composites with enhanced natural degradability. <i>Polymer Testing</i> , <b>2018</b> , 72, 348-356	4.5	14

36	Polydopamine-Assisted Immobilization of Copper Ions onto Hemodialysis Membranes for Antimicrobial.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 1236-1243	4.1	5
35	Study on low temperature toughness and crystallization behavior of polypropylene random copolymer. <i>Journal of Polymer Engineering</i> , <b>2017</b> , 37, 715-727	1.4	2
34	Bone-Inspired Spatially Specific Piezoelectricity Induces Bone Regeneration. <i>Theranostics</i> , <b>2017</b> , 7, 3387-3397	3.9	44
33	Reinforcement of Natural Rubber: The Use of in Situ Regenerated Cellulose from Alkaline/Urea Aqueous System. <i>Macromolecules</i> , <b>2017</b> , 50, 7211-7221	5.5	43
32	Palladium nanoparticles entrapped in a self-supporting nanoporous gold wire as sensitive dopamine biosensor. <i>Scientific Reports</i> , <b>2017</b> , 7, 7941	4.9	27
31	Elastomer Reinforced with Regenerated Chitin from Alkaline/Urea Aqueous System. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 26460-26467	9.5	23
30	Effect of nanoparticles on the mechanical properties of acrylonitrileButadieneStyrene specimens fabricated by fused deposition modeling. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	33
29	Spatial charge manipulated set-selective apatite deposition on micropatterned piezoceramic. <i>RSC Advances</i> , <b>2017</b> , 7, 32974-32981	3.7	6
28	Fabrication of Biocompatible Potassium Sodium Niobate Piezoelectric Ceramic as an Electroactive Implant. <i>Materials</i> , <b>2017</b> , 10,	3.5	29
27	Fabrication of polystyrene/nano-CaCO3 foams with unimodal or bimodal cell structure from extrusion foaming using supercritical carbon dioxide. <i>Polymer Composites</i> , <b>2016</b> , 37, 1864-1873	3	8
26	Periodic Nanoneedle and Buffer Zones Constructed on a Titanium Surface Promote Osteogenic Differentiation and Bone Calcification In Vivo. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 364-72	10.1	14
25	The dynamic response and failure of Polycarbonate plate by soft body impact. <i>Polymer Engineering and Science</i> , <b>2016</b> , 56, 1160-1168	2.3	0
24	Enhanced oil resistance and mechanical properties of nitrile butadiene rubber/lignin composites modified by epoxy resin. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	10
23	Flame-retardant and thermal degradation mechanism of low-density polyethylene modified with aluminum hypophosphite and microencapsulated red phosphorus. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	7
22	Ti nanorod arrays with a medium density significantly promote osteogenesis and osteointegration. <i>Scientific Reports</i> , <b>2016</b> , 6, 19047	4.9	12
21	Built-in microscale electrostatic fields induced by anatase-rutile-phase transition in selective areas promote osteogenesis. <i>NPG Asia Materials</i> , <b>2016</b> , 8,	10.3	26
20	Polydopamine-Assisted Electrochemical Fabrication of Polypyrrole Nanofibers on Bone Implants to Improve Bioactivity. <i>Macromolecular Materials and Engineering</i> , <b>2016</b> , 301, 1288-1294	3.9	20
19	Surface-Selective Preferential Production of Reactive Oxygen Species on Piezoelectric Ceramics for Bacterial Killing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24306-9	9.5	38

18	Covalent Bonding of an Electroconductive Hydrogel to Gold-Coated Titanium Surfaces via Thiol-ene Click Chemistry. <i>Macromolecular Materials and Engineering</i> , <b>2016</b> , 301, 1423-1429	3.9	7
17	The synergistic antibacterial activity and mechanism of multicomponent metal ions-containing aqueous solutions against <i>Staphylococcus aureus</i> . <i>Journal of Inorganic Biochemistry</i> , <b>2016</b> , 163, 214-220	4.2	40
16	The Effect of Talc on the Mechanical, Crystallization and Foaming Properties of Poly(Lactic Acid). <i>Journal of Macromolecular Science - Physics</i> , <b>2016</b> , 55, 908-924	1.4	12
15	Osteogenic Differentiation: Periodic Nanoneedle and Buffer Zones Constructed on a Titanium Surface Promote Osteogenic Differentiation and Bone Calcification In Vivo (Adv. Healthcare Mater. 3/2016). <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 300-300	10.1	
14	Effects of different functional groups on metastatic behavior of SPC-A-1/human lung cancer cells in self-assembled monolayers. <i>RSC Advances</i> , <b>2015</b> , 5, 41412-41419	3.7	2
13	Concentration ranges of antibacterial cations for showing the highest antibacterial efficacy but the least cytotoxicity against mammalian cells: implications for a new antibacterial mechanism. <i>Chemical Research in Toxicology</i> , <b>2015</b> , 28, 1815-22	4	127
12	Preparation of poly(propylene carbonate)/nano calcium carbonate composites and their supercritical carbon dioxide foaming behavior. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	7
11	Influence of Surrounding Cations on the Surface Degradation of Magnesium Alloy Implants under a Compressive Pressure. <i>Langmuir</i> , <b>2015</b> , 31, 13561-70	4	9
10	Effect of Poly(butylene succinate) on Poly(lactic acid) Foaming Behavior: Formation of Open Cell Structure. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 6199-6207	3.9	63
9	In situ dispersion and compatibilization of lignin/epoxidized natural rubber composites: reactivity, morphology and property. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	24
8	Effect of poly(ethylene glycol) on the properties and foaming behavior of macroporous poly(lactic acid)/sodium chloride scaffold. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	15
7	Ti nanorod arrays with periodic density fabricated via anodic technology. <i>Micro and Nano Letters</i> , <b>2014</b> , 9, 168-170	0.9	2
6	Self-crosslinkable lignin/epoxidized natural rubber composites. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	16
5	Minor-phase particles evolution in a polyethylene/ethylene-propylene copolymer (80/20) blend across mixing: Breakup and coalescence. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, 3421-3431	2.9	4
4	Processing and characterization of supercritical CO <sub>2</sub> batch foamed poly(lactic acid)/poly(ethylene glycol) scaffold for tissue engineering application. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, 3066-3073	2.9	43
3	0D/1D Heterojunction Implant with Electro-Mechanobiological Coupling Cues Promotes Osteogenesis. <i>Advanced Functional Materials</i> , 2106249	15.6	7
2	The innovation of biomaterials: From bioactive to bioelectroactive. <i>Science China Materials</i> , 1	7.1	2
1	Near-Infrared Light-Activatable Bismuth-based Nanomaterials for Antibacterial and Antitumor Treatment. <i>Advanced Therapeutics</i> , 2200027	4.9	1

