

Yudong Zheng

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.

63

papers

1,802

citations

24

h-index

41

g-index

67

ext. papers

2,158

ext. citations

6.3

avg, IF

4.77

L-index

#	Paper	IF	Citations
63	A self-crosslinking, double-functional group modified bacterial cellulose gel used for antibacterial and healing of infected wound.. <i>Bioactive Materials</i> , 2022 , 17, 248-260	16.7	2
62	A novel bioactive polyurethane with controlled degradation and L-Arg release used as strong adhesive tissue patch for hemostasis and promoting wound healing.. <i>Bioactive Materials</i> , 2022 , 17, 471-487	16.7	4
61	In-situ self-assembly of bacterial cellulose/poly(3,4-ethylenedioxythiophene)-sulfonated nanofibers for peripheral nerve repair.. <i>Carbohydrate Polymers</i> , 2022 , 281, 119044	10.3	2
60	Bacterial cellulose/soybean protein isolate composites with promoted inflammation inhibition, angiogenesis and hair follicle regeneration for wound healing.. <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	1
59	Preparation, mechanical properties, fatigue and tribological behavior of double crosslinked high strength hydrogel. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 126, 105009	4.1	3
58	Evaluation of the anti-biofilm activities of bacterial cellulose-tannic acid-magnesium chloride composites using an multispecies biofilm model. <i>International Journal of Energy Production and Management</i> , 2021 , 8, rbab054	5.3	1
57	Preparation and Characterization of Moldable Demineralized Bone Matrix/Calcium Sulfate Composite Bone Graft Materials. <i>Journal of Functional Biomaterials</i> , 2021 , 12,	4.8	3
56	Injectable biomimetic shellfish macromolecule conductive microcarriers loaded with adipose-derived stem cells for nerve repair in vivo. <i>Applied Materials Today</i> , 2021 , 25, 101195	6.6	1
55	Bacterial Cellulose: Functional Modification and Wound Healing Applications. <i>Advances in Wound Care</i> , 2021 , 10, 623-640	4.8	15
54	Cellulose fibers-reinforced self-expanding porous composite with multiple hemostatic efficacy and shape adaptability for uncontrollable massive hemorrhage treatment. <i>Bioactive Materials</i> , 2021 , 6, 2089-2104	16.7	23
53	Regulatory science for hernia mesh: Current status and future perspectives. <i>Bioactive Materials</i> , 2021 , 6, 420-432	16.7	5
52	Plant protein modified natural cellulose with multiple adsorption effects used for bilirubin removal. <i>International Journal of Biological Macromolecules</i> , 2021 , 166, 179-189	7.9	4
51	Evaluation of Fibrous Collagen Dura Substitutes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 628129	5.8	1
50	Polylysine-decorated macroporous microcarriers laden with adipose-derived stem cells promote nerve regeneration in vivo. <i>Bioactive Materials</i> , 2021 , 6, 3987-3998	16.7	9
49	Preparation of aminoalkyl-grafted bacterial cellulose membranes with improved antimicrobial properties for biomedical applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2020 , 108, 1086-1098	5.4	20
48	Silver nanoparticles stimulate osteogenesis of human mesenchymal stem cells through activation of autophagy. <i>Nanomedicine</i> , 2020 , 15, 337-353	5.6	16
47	Diffusion of neutral solutes within human osteoarthritic cartilage: Effect of loading patterns. <i>Journal of Orthopaedic Translation</i> , 2020 , 22, 58-66	4.2	2

46	Design and characterization of plasticized bacterial cellulose/waterborne polyurethane composite with antibacterial function for nasal stenting. <i>International Journal of Energy Production and Management</i> , 2020 , 7, 597-608	5.3	2
45	Highly transparent, highly flexible composite membrane with multiple antimicrobial effects used for promoting wound healing. <i>Carbohydrate Polymers</i> , 2019 , 222, 114985	10.3	41
44	The antibacterial stability of poly(dopamine) in-situ reduction and chelation nano-Ag based on bacterial cellulose network template. <i>Applied Surface Science</i> , 2019 , 491, 383-394	6.7	37
43	Enhanced Neurite Outgrowth on a Multiblock Conductive Nerve Scaffold with Self-Powered Electrical Stimulation. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900127	10.1	19
42	An ultrasound-controllable release system based on waterborne polyurethane/chitosan membrane for implantable enhanced anticancer therapy. <i>Materials Science and Engineering C</i> , 2019 , 104, 109944	8.3	14
41	Fabrication of nanofibrous microcarriers mimicking extracellular matrix for functional microtissue formation and cartilage regeneration. <i>Biomaterials</i> , 2018 , 171, 118-132	15.6	54
40	A novel microporous oxidized bacterial cellulose/arginine composite and its effect on behavior of fibroblast/endothelial cell. <i>Carbohydrate Polymers</i> , 2018 , 184, 323-332	10.3	32
39	Effects of graphene on the structure, properties, electro-response behaviors of GO/PAA composite hydrogels and influence of electro-mechanical coupling on BMSC differentiation. <i>Materials Science and Engineering C</i> , 2018 , 93, 853-863	8.3	33
38	Novel Electronic-Ionic Hybrid Conductive Composites for Multifunctional Flexible Bioelectrode Based on in Situ Synthesis of Poly(dopamine) on Bacterial Cellulose. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22692-22702	9.5	43
37	In situ synthesis of bacterial cellulose/copper nanoparticles composite membranes with long-term antibacterial property. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 2137-2153	3.5	21
36	The effects of two biocompatible plasticizers on the performance of dry bacterial cellulose membrane: a comparative study. <i>Cellulose</i> , 2018 , 25, 5893-5908	5.5	36
35	Effects of silica-gentamicin nanohybrids on osteogenic differentiation of human osteoblast-like SaOS-2 cells. <i>International Journal of Nanomedicine</i> , 2018 , 13, 877-893	7.3	16
34	Sulfonated bacterial cellulose/polyaniline composite membrane for use as gel polymer electrolyte. <i>Composites Science and Technology</i> , 2017 , 145, 122-131	8.6	67
33	Mussel-inspired fabrication of a flexible free-standing membrane cathode for oxygen reduction in neutral media. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 799, 377-385	4.1	7
32	A novel biodegradable polyurethane based on poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and poly(ethylene glycol) as promising biomaterials with the improvement of mechanical properties and hemocompatibility. <i>Polymer Chemistry</i> , 2016 , 7, 6120-6132	4.9	35
31	Preparation of a carboxymethylated bacterial cellulose/polyaniline composite gel membrane and its characterization. <i>RSC Advances</i> , 2016 , 6, 68599-68605	3.7	27
30	An oxygen tolerance conductive hydrogel anode membrane for use in a potentially implantable glucose fuel cell. <i>RSC Advances</i> , 2016 , 6, 112971-112980	3.7	10
29	Synthesis of bio-castor oil polyurethane flexible foams and the influence of biotic component on their performance. <i>Journal of Polymer Research</i> , 2015 , 22, 1	2.7	29

28	Dual stimulus responsive drug release under the interaction of pH value and pulsatile electric field for a bacterial cellulose/sodium alginate/multi-walled carbon nanotube hybrid hydrogel. <i>RSC Advances</i> , 2015 , 5, 41820-41829	3.7	36
27	An environmentally friendly preparation and characterization of waterborne polyurethane hydrogels by polyvinyl alcohol physical cross-linking to improve water absorption. <i>RSC Advances</i> , 2015 , 5, 73882-73891	3.7	20
26	Protein adsorption behaviors of carboxymethylated bacterial cellulose membranes. <i>International Journal of Biological Macromolecules</i> , 2015 , 73, 264-9	7.9	29
25	Cauda equina-derived extracellular matrix for fabrication of nanostructured hybrid scaffolds applied to neural tissue engineering. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1095-105	3.9	13
24	Photo- and pH-responsive Electrospun Polymer Films: Wettability and Protein Adsorption Characteristics. <i>Chemistry Letters</i> , 2015 , 44, 1368-1370	1.7	1
23	Immobilization of collagen peptide on dialdehyde bacterial cellulose nanofibers via covalent bonds for tissue engineering and regeneration. <i>International Journal of Nanomedicine</i> , 2015 , 10, 4623-37	7.3	24
22	Mild in situ growth of platinum nanoparticles on multiwalled carbon nanotube-poly (vinyl alcohol) hydrogel electrode for glucose electrochemical oxidation. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	2
21	Antibacterial properties and cytocompatibility of bio-based nanostructured carbon aerogels derived from silver nanoparticles deposited onto bacterial cellulose. <i>RSC Advances</i> , 2015 , 5, 97467-97476	2.7	18
20	Preparation and characteristic of a sodium alginate/carboxymethylated bacterial cellulose composite with a crosslinking semi-interpenetrating network. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	17
19	Silver nanoparticle/bacterial cellulose gel membranes for antibacterial wound dressing: investigation in vitro and in vivo. <i>Biomedical Materials (Bristol)</i> , 2014 , 9, 035005	3.5	125
18	In situ synthesis of silver-nanoparticles/bacterial cellulose composites for slow-released antimicrobial wound dressing. <i>Carbohydrate Polymers</i> , 2014 , 102, 762-71	10.3	345
17	Effect of selective oxidation of bacterial cellulose on degradability in phosphate buffer solution and their affinity for epidermal cell attachment. <i>RSC Advances</i> , 2014 , 4, 60749-60756	3.7	9
16	Selective oxidation of bacterial cellulose by NO ₂ /HNO ₃ . <i>RSC Advances</i> , 2014 , 4, 1630-1639	3.7	28
15	pH- and electro-response characteristics of bacterial cellulose nanofiber/sodium alginate hybrid hydrogels for dual controlled drug delivery. <i>RSC Advances</i> , 2014 , 4, 47056-47065	3.7	118
14	Formation of Cr(VI) compounds during the thermal decomposition of amorphous chromium hydroxide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 117, 741-745	4.1	15
13	Influence of dialdehyde bacterial cellulose with the nonlinear elasticity and topology structure of ECM on cell adhesion and proliferation. <i>RSC Advances</i> , 2014 , 4, 3998-4009	3.7	47
12	Nanotubular surface modification of metallic implants via electrochemical anodization technique. <i>International Journal of Nanomedicine</i> , 2014 , 9, 4421-35	7.3	34
11	Nanoparticle assembly of a photo- and pH-responsive random azobenzene copolymer. <i>Journal of Colloid and Interface Science</i> , 2014 , 421, 15-21	9.3	37

10	Preparation and characterization of degradable oxidized bacterial cellulose reacted with nitrogen dioxide. <i>Polymer Bulletin</i> , 2012 , 68, 415-423	2.4	23
9	The preparation and characterization of double-layer microcapsules used for the self-healing of resin matrix composites. <i>Journal of Materials Chemistry</i> , 2012 , 22, 25437		20
8	Chemical modifications and characteristic changes in bacterial cellulose treated with different media. <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	14
7	Processing, structure, and properties of multiwalled carbon nanotube/poly(hydroxybutyrate-co-valerate) biopolymer nanocomposites. <i>Journal of Applied Polymer Science</i> , 2012 , 125, E620	2.9	22
6	Low swelling hyperbranched poly(amine-ester) hydrogels for pH-modulated differential release of anticancer drugs. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13530		30
5	Performance and characterization of irradiated poly(vinyl alcohol)/polyvinylpyrrolidone composite hydrogels used as cartilages replacement. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 736-741	2.9	27
4	Cupric ion release and cytotoxicity for Yuangong Cu-IUDs and the release behavior of indomethacin for medicated 220 Cu-IUD. <i>Science Bulletin</i> , 2009 , 54, 3160-3166		4
3	Performance of novel bioactive hybrid hydrogels in vitro and in vivo used for artificial cartilage. <i>Biomedical Materials (Bristol)</i> , 2009 , 4, 015015	3.5	15
2	In Vitro Cytotoxicity of Bacterial Cellulose Scaffolds Used for Tissue-engineered Bone. <i>Journal of Bioactive and Compatible Polymers</i> , 2009 , 24, 137-145	2	81
1	Characteristic comparison of bioactive scaffolds based on polyhydroxyalkoanate/bioceramic hybrids. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 80, 236-43	3.5	11