Yudong Zheng

List of Publications by Citations

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	In situ synthesis of silver-nanoparticles/bacterial cellulose composites for slow-released antimicrobial wound dressing. *Carbohydrate Polymers*, **2014**, 102, 762-71	10.3	345
62	Silver nanoparticle/bacterial cellulose gel membranes for antibacterial wound dressing: investigation in vitro and in vivo. *Biomedical Materials (Bristol)*, **2014**, 9, 035005	3.5	125
61	pH- and electro-response characteristics of bacterial cellulose nanofiber/sodium alginate hybrid hydrogels for dual controlled drug delivery. *RSC Advances*, **2014**, 4, 47056-47065	3.7	118
60	In Vitro Cytotoxicity of Bacterial Cellulose Scaffolds Used for Tissue-engineered Bone. *Journal of Bioactive and Compatible Polymers*, **2009**, 24, 137-145	2	81
59	Sulfonated bacterial cellulose/polyaniline composite membrane for use as gel polymer electrolyte. *Composites Science and Technology*, **2017**, 145, 122-131	8.6	67
58	Fabrication of nanofibrous microcarriers mimicking extracellular matrix for functional microtissue formation and cartilage regeneration. *Biomaterials*, **2018**, 171, 118-132	15.6	54
57	Influence of dialdehyde bacterial cellulose with the nonlinear elasticity and topology structure of ECM on cell adhesion and proliferation. *RSC Advances*, **2014**, 4, 3998-4009	3.7	47
56	Novel Electronic-Ionic Hybrid Conductive Composites for Multifunctional Flexible Bioelectrode Based on in Situ Synthesis of Poly(dopamine) on Bacterial Cellulose. *ACS Applied Materials & Interfaces*, **2018**, 10, 22692-22702	9.5	43
55	Highly transparent, highly flexible composite membrane with multiple antimicrobial effects used for promoting wound healing. *Carbohydrate Polymers*, **2019**, 222, 114985	10.3	41
54	The antibacterial stability of poly(dopamine) in-situ reduction and chelation nano-Ag based on bacterial cellulose network template. *Applied Surface Science*, **2019**, 491, 383-394	6.7	37
53	Nanoparticle assembly of a photo- and pH-responsive random azobenzene copolymer. *Journal of Colloid and Interface Science*, **2014**, 421, 15-21	9.3	37
52	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. *RSC Advances*, **2015**, 5, 41820-41829	3.7	36
51	The effects of two biocompatible plasticizers on the performance of dry bacterial cellulose membrane: a comparative study. *Cellulose*, **2018**, 25, 5893-5908	5.5	36
50	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. *Polymer Chemistry*, **2016**, 7, 6120-6132	4.9	35
49	Nanotubular surface modification of metallic implants via electrochemical anodization technique. *International Journal of Nanomedicine*, **2014**, 9, 4421-35	7.3	34
48	Effects of graphene on the structure, properties, electro-response behaviors of GO/PAA composite hydrogels and influence of electro-mechanical coupling on BMSC differentiation. *Materials Science and Engineering C*, **2018**, 93, 853-863	8.3	33
47	A novel microporous oxidized bacterial cellulose/arginine composite and its effect on behavior of fibroblast/endothelial cell. *Carbohydrate Polymers*, **2018**, 184, 323-332	10.3	32

46	Low swelling hyperbranched poly(amine-ester) hydrogels for pH-modulated differential release of anticancer drugs. *Journal of Materials Chemistry*, **2011**, 21, 13530		30
45	Synthesis of bio-castor oil polyurethane flexible foams and the influence of biotic component on their performance. *Journal of Polymer Research*, **2015**, 22, 1	2.7	29
44	Protein adsorption behaviors of carboxymethylated bacterial cellulose membranes. *International Journal of Biological Macromolecules*, **2015**, 73, 264-9	7.9	29
43	Selective oxidation of bacterial cellulose by NO2–HNO3. *RSC Advances*, **2014**, 4, 1630-1639	3.7	28
42	Preparation of a carboxymethylated bacterial cellulose/polyaniline composite gel membrane and its characterization. *RSC Advances*, **2016**, 6, 68599-68605	3.7	27
41	Performance and characterization of irradiated poly(vinyl alcohol)/polyvinylpyrrolidone composite hydrogels used as cartilages replacement. *Journal of Applied Polymer Science*, **2009**, 113, 736-741	2.9	27
40	Immobilization of collagen peptide on dialdehyde bacterial cellulose nanofibers via covalent bonds for tissue engineering and regeneration. *International Journal of Nanomedicine*, **2015**, 10, 4623-37	7.3	24
39	Preparation and characterization of degradable oxidized bacterial cellulose reacted with nitrogen dioxide. *Polymer Bulletin*, **2012**, 68, 415-423	2.4	23
38	Cellulose fibers-reinforced self-expanding porous composite with multiple hemostatic efficacy and shape adaptability for uncontrollable massive hemorrhage treatment. *Bioactive Materials*, **2021**, 6, 2089-2104	16.7	23
37	Processing, structure, and properties of multiwalled carbon nanotube/poly(hydroxybutyrate-co-valerate) biopolymer nanocomposites. *Journal of Applied Polymer Science*, **2012**, 125, E620	2.9	22
36	In situ synthesis of bacterial cellulose/copper nanoparticles composite membranes with long-term antibacterial property. *Journal of Biomaterials Science, Polymer Edition*, **2018**, 29, 2137-2153	3.5	21
35	An environmentally friendly preparation and characterization of waterborne polyurethane hydrogels by polyvinyl alcohol physical cross-linking to improve water absorption. *RSC Advances*, **2015**, 5, 73882-73891	3.7	20
34	Preparation of aminoalkyl-grafted bacterial cellulose membranes with improved antimicrobial properties for biomedical applications. *Journal of Biomedical Materials Research - Part A*, **2020**, 108, 1086-1098	5.4	20
33	The preparation and characterization of double-layer microcapsules used for the self-healing of resin matrix composites. *Journal of Materials Chemistry*, **2012**, 22, 25437		20
32	Enhanced Neurite Outgrowth on a Multiblock Conductive Nerve Scaffold with Self-Powered Electrical Stimulation. *Advanced Healthcare Materials*, **2019**, 8, e1900127	10.1	19
31	Antibacterial properties and cytocompatibility of bio-based nanostructured carbon aerogels derived from silver nanoparticles deposited onto bacterial cellulose. *RSC Advances*, **2015**, 5, 97467-97476	3.7	18
30	Preparation and characteristic of a sodium alginate/carboxymethylated bacterial cellulose composite with a crosslinking semi-interpenetrating network. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	17
29	Silver nanoparticles stimulate osteogenesis of human mesenchymal stem cells through activation of autophagy. *Nanomedicine*, **2020**, 15, 337-353	5.6	16

28	Effects of silica-gentamicin nanohybrids on osteogenic differentiation of human osteoblast-like SaOS-2 cells. *International Journal of Nanomedicine*, **2018**, 13, 877-893	7.3	16
27	Formation of Cr(VI) compounds during the thermal decomposition of amorphous chromium hydroxide. *Journal of Thermal Analysis and Calorimetry*, **2014**, 117, 741-745	4.1	15
26	Performance of novel bioactive hybrid hydrogels in vitro and in vivo used for artificial cartilage. *Biomedical Materials (Bristol)*, **2009**, 4, 015015	3.5	15
25	Bacterial Cellulose: Functional Modification and Wound Healing Applications. *Advances in Wound Care*, **2021**, 10, 623-640	4.8	15
24	An ultrasound-controllable release system based on waterborne polyurethane/chitosan membrane for implantable enhanced anticancer therapy. *Materials Science and Engineering C*, **2019**, 104, 109944	8.3	14
23	Chemical modifications and characteristic changes in bacterial cellulose treated with different media. *Journal of Polymer Research*, **2012**, 19, 1	2.7	14
22	Cauda equina-derived extracellular matrix for fabrication of nanostructured hybrid scaffolds applied to neural tissue engineering. *Tissue Engineering - Part A*, **2015**, 21, 1095-105	3.9	13
21	Characteristic comparison of bioactive scaffolds based on polyhydroxyalkoanate/bioceramic hybrids. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2007**, 80, 236-43	3.5	11
20	An oxygen tolerance conductive hydrogel anode membrane for use in a potentially implantable glucose fuel cell. *RSC Advances*, **2016**, 6, 112971-112980	3.7	10
19	Effect of selective oxidation of bacterial cellulose on degradability in phosphate buffer solution and their affinity for epidermal cell attachment. *RSC Advances*, **2014**, 4, 60749-60756	3.7	9
18	Polylysine-decorated macroporous microcarriers laden with adipose-derived stem cells promote nerve regeneration in vivo. *Bioactive Materials*, **2021**, 6, 3987-3998	16.7	9
17	Mussel-inspired fabrication of a flexible free-standing membrane cathode for oxygen reduction in neutral media. *Journal of Electroanalytical Chemistry*, **2017**, 799, 377-385	4.1	7
16	Regulatory science for hernia mesh: Current status and future perspectives. *Bioactive Materials*, **2021**, 6, 420-432	16.7	5
15	Cupric ion release and cytotoxicity for Yuangong Cu-IUDs and the release behavior of indomethacin for medicated 220 Cu-IUD. *Science Bulletin*, **2009**, 54, 3160-3166		4
14	A novel bioactive polyurethane with controlled degradation and L-Arg release used as strong adhesive tissue patch for hemostasis and promoting wound healing.. *Bioactive Materials*, **2022**, 17, 471-487	16.7	4
13	Plant protein modified natural cellulose with multiple adsorption effects used for bilirubin removal. *International Journal of Biological Macromolecules*, **2021**, 166, 179-189	7.9	4
12	Preparation, mechanical properties, fatigue and tribological behavior of double crosslinked high strength hydrogel. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 126, 105009	4.1	3
11	Preparation and Characterization of Moldable Demineralized Bone Matrix/Calcium Sulfate Composite Bone Graft Materials. *Journal of Functional Biomaterials*, **2021**, 12,	4.8	3

10	Mild in situ growth of platinum nanoparticles on multiwalled carbon nanotube-poly (vinyl alcohol) hydrogel electrode for glucose electrochemical oxidation. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	2
9	A self-crosslinking, double-functional group modified bacterial cellulose gel used for antibacterial and healing of infected wound.. *Bioactive Materials*, **2022**, 17, 248-260	16.7	2
8	In-situ self-assembly of bacterial cellulose/poly(3,4-ethylenedioxythiophene)-sulfonated nanofibers for peripheral nerve repair.. *Carbohydrate Polymers*, **2022**, 281, 119044	10.3	2
7	Diffusion of neutral solutes within human osteoarthritic cartilage: Effect of loading patterns. *Journal of Orthopaedic Translation*, **2020**, 22, 58-66	4.2	2
6	Design and characterization of plasticized bacterial cellulose/waterborne polyurethane composite with antibacterial function for nasal stenting. *International Journal of Energy Production and Management*, **2020**, 7, 597-608	5.3	2
5	Photo- and pH-responsive Electrospun Polymer Films: Wettability and Protein Adsorption Characteristics. *Chemistry Letters*, **2015**, 44, 1368-1370	1.7	1
4	Evaluation of the anti-biofilm activities of bacterial cellulose-tannic acid-magnesium chloride composites using an multispecies biofilm model. *International Journal of Energy Production and Management*, **2021**, 8, rbab054	5.3	1
3	Injectable biomimetic shellfish macromolecule conductive microcarriers loaded with adipose-derived stem cells for nerve repair in vivo. *Applied Materials Today*, **2021**, 25, 101195	6.6	1
2	Evaluation of Fibrous Collagen Dura Substitutes. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 628129	5.8	1
1	Bacterial cellulose/soybean protein isolate composites with promoted inflammation inhibition, angiogenesis and hair follicle regeneration for wound healing.. *International Journal of Biological Macromolecules*, **2022**,	7.9	1