

Yudong Zheng

List of Publications by Year in descending order

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64
papers

2,557
citations

172207

29
h-index

197535

49
g-index

67
all docs

67
docs citations

67
times ranked

3594
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ synthesis of silver-nanoparticles/bacterial cellulose composites for slow-released antimicrobial wound dressing. <i>Carbohydrate Polymers</i> , 2014, 102, 762-771.	5.1	406
2	Silver nanoparticle/bacterial cellulose gel membranes for antibacterial wound dressing: investigation <i>in vitro</i> and <i>in vivo</i> . <i>Biomedical Materials (Bristol)</i> , 2014, 9, 035005.	1.7	149
3	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.	1.7	145
4	<i>In Vitro</i> Cytotoxicity of Bacterial Cellulose Scaffolds Used for Tissue-engineered Bone. <i>Journal of Bioactive and Compatible Polymers</i> , 2009, 24, 137-145.	0.8	95
5	Sulfonated bacterial cellulose/polyaniline composite membrane for use as gel polymer electrolyte. <i>Composites Science and Technology</i> , 2017, 145, 122-131.	3.8	91
6	Fabrication of nanofibrous microcarriers mimicking extracellular matrix for functional microtissue formation and cartilage regeneration. <i>Biomaterials</i> , 2018, 171, 118-132.	5.7	77
7	Highly transparent, highly flexible composite membrane with multiple antimicrobial effects used for promoting wound healing. <i>Carbohydrate Polymers</i> , 2019, 222, 114985.	5.1	75
8	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.	3.1	70
9	Novel Electronicâ€“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.	4.0	61
10	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.	1.7	53
11	The effects of two biocompatible plasticizers on the performance of dry bacterial cellulose membrane: a comparative study. <i>Cellulose</i> , 2018, 25, 5893-5908.	2.4	52
12	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.	8.6	49
13	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.	1.9	48
14	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.	1.7	47
15	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.	5.1	47
16	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.	3.8	45
17	Nanotubular surface modification of metallic implants via electrochemical anodization technique. <i>International Journal of Nanomedicine</i> , 2014, 9, 4421.	3.3	43
18	Nanoparticle assembly of a photo- and pH-responsive random azobenzene copolymer. <i>Journal of Colloid and Interface Science</i> , 2014, 421, 15-21.	5.0	43

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19	Protein adsorption behaviors of carboxymethylated bacterial cellulose membranes. <i>International Journal of Biological Macromolecules</i> , 2015, 73, 264-269.	3.6	43
20	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.	1.9	43
21	Enhanced Neurite Outgrowth on a Multiblock Conductive Nerve Scaffold with Self-Powered Electrical Stimulation. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900127.	3.9	42
22	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.	1.2	37
23	Silver nanoparticles stimulate osteogenesis of human mesenchymal stem cells through activation of autophagy. <i>Nanomedicine</i> , 2020, 15, 337-353.	1.7	37
24	Selective oxidation of bacterial cellulose by NO ₂ → HNO ₃ . <i>RSC Advances</i> , 2014, 4, 1630-1639.	1.7	35
25	Preparation of a carboxymethylated bacterial cellulose/polyaniline composite gel membrane and its characterization. <i>RSC Advances</i> , 2016, 6, 68599-68605.	1.7	35
26	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.	2.1	33
27	Bacterial Cellulose: Functional Modification and Wound Healing Applications. <i>Advances in Wound Care</i> , 2021, 10, 623-640.	2.6	32
28	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.	8.6	32
29	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.	1.3	31
30	Low swelling hyperbranched poly(amine-ester) hydrogels for pH-modulated differential release of anticancer drugs. <i>Journal of Materials Chemistry</i> , 2011, 21, 13530.	6.7	30
31	Preparation and characterization of degradable oxidized bacterial cellulose reacted with nitrogen dioxide. <i>Polymer Bulletin</i> , 2012, 68, 415-423.	1.7	30
32	Polylysine-decorated macroporous microcarriers laden with adipose-derived stem cells promote nerve regeneration in vivo. <i>Bioactive Materials</i> , 2021, 6, 3987-3998.	8.6	30
33	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.	8.6	30
34	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.	3.3	29
35	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.	1.7	24
36	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.	1.7	24

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37	Processing, structure, and properties of multiwalled carbon nanotube/poly(hydroxybutyrate-co-valerate) biopolymer nanocomposites. <i>Journal of Applied Polymer Science</i> , 2012, 125, E620.	1.3	23
38	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.	2.0	23
39	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.	3.8	22
40	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.	6.7	21
41	Cauda Equina-Derived Extracellular Matrix for Fabrication of Nanostructured Hybrid Scaffolds Applied to Neural Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2015, 21, 1095-1105.	1.6	21
42	In-situ self-assembly of bacterial cellulose/poly(3,4-ethylenedioxythiophene)-sulfonated nanofibers for peripheral nerve repair. <i>Carbohydrate Polymers</i> , 2022, 281, 119044.	5.1	21
43	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, .	1.3	19
44	Performance of novel bioactive hybrid hydrogels <i>in vitro</i> and <i>in vivo</i> used for artificial cartilage. <i>Biomedical Materials (Bristol)</i> , 2009, 4, 015015.	1.7	18
45	Effects of silica–gentamicin nanohybrids on osteogenic differentiation of human osteoblast-like SaOS-2 cells. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 877-893.	3.3	18
46	Chemical modifications and characteristic changes in bacterial cellulose treated with different media. <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	17
47	Preparation and Characterization of Moldable Demineralized Bone Matrix/Calcium Sulfate Composite Bone Graft Materials. <i>Journal of Functional Biomaterials</i> , 2021, 12, 56.	1.8	16
48	Characteristic comparison of bioactive scaffolds based on polyhydroxyalkoanate/bioceramic hybrids. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 80B, 236-243.	1.6	13
49	Double-Modified Bacterial Cellulose/Soy Protein Isolate Composites by Laser Hole Forming and Selective Oxidation Used for Urethral Repair. <i>Biomacromolecules</i> , 2022, 23, 291-302.	2.6	13
50	Regulatory science for hernia mesh: Current status and future perspectives. <i>Bioactive Materials</i> , 2021, 6, 420-432.	8.6	12
51	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.	1.7	11
52	An oxygen tolerance conductive hydrogel anode membrane for use in a potentially implantable glucose fuel cell. <i>RSC Advances</i> , 2016, 6, 112971-112980.	1.7	11
53	Evaluation of the anti-biofilm activities of bacterial cellulose-tannic acid-magnesium chloride composites using an <i>in vitro</i> multispecies biofilm model. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab054.	1.9	11
54	Preparation, mechanical properties, fatigue and tribological behavior of double crosslinked high strength hydrogel. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 105009.	1.5	11

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55	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, 211, 754-766.	3.6	9
56	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.	1.9	8
57	Plant protein modified natural cellulose with multiple adsorption effects used for bilirubin removal. <i>International Journal of Biological Macromolecules</i> , 2021, 166, 179-189.	3.6	8
58	In vivo Evaluation of Fibrous Collagen Dura Substitutes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 628129.	2.0	7
59	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.	2.3	7
60	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.	1.7	6
61	Diffusion of neutral solutes within human osteoarthritic cartilage: Effect of loading patterns. <i>Journal of Orthopaedic Translation</i> , 2020, 22, 58-66.	1.9	6
62	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.	1.9	5
63	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.	0.8	3
64	Photo- and pH-responsive Electrospun Polymer Films: Wettability and Protein Adsorption Characteristics. <i>Chemistry Letters</i> , 2015, 44, 1368-1370.	0.7	1