

Bo Duan

List of Publications by Year in descending order

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42
papers

3,676
citations

201674

27
h-index

254184

43
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43
all docs

43
docs citations

43
times ranked

4296
citing authors

#	ARTICLE	IF	CITATIONS
1	Superabsorbent hydrogels based on cellulose for smart swelling and controllable delivery. <i>European Polymer Journal</i> , 2010, 46, 92-100.	5.4	668
2	Unique elastic N-doped carbon nanofibrous microspheres with hierarchical porosity derived from renewable chitin for high rate supercapacitors. <i>Nano Energy</i> , 2016, 27, 482-491.	16.0	299
3	Recent advances in chitin based materials constructed via physical methods. <i>Progress in Polymer Science</i> , 2018, 82, 1-33.	24.7	276
4	Recent Progress in High-Strength and Robust Regenerated Cellulose Materials. <i>Advanced Materials</i> , 2021, 33, e2000682.	21.0	244
5	Hydrophobic Modification on Surface of Chitin Sponges for Highly Effective Separation of Oil. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19933-19942.	8.0	219
6	Highly Biocompatible Nanofibrous Microspheres Self-Assembled from Chitin in NaOH/Urea Aqueous Solution as Cell Carriers. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5152-5156.	13.8	174
7	Intermolecular Interaction and the Extended Wormlike Chain Conformation of Chitin in NaOH/Urea Aqueous Solution. <i>Biomacromolecules</i> , 2015, 16, 1410-1417.	5.4	164
8	High strength films with gas-barrier fabricated from chitin solution dissolved at low temperature. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1867-1874.	10.3	144
9	Ag@Fe ₃ O ₄ nanocomposites@chitin microspheres constructed by in situ one-pot synthesis for rapid hydrogenation catalysis. <i>Green Chemistry</i> , 2014, 16, 2835-2845.	9.0	120
10	Biocompatible chitin/carbon nanotubes composite hydrogels as neuronal growth substrates. <i>Carbohydrate Polymers</i> , 2017, 174, 830-840.	10.2	108
11	Construction of Chitin/PVA Composite Hydrogels with Jellyfish Gel-Like Structure and Their Biocompatibility. <i>Biomacromolecules</i> , 2014, 15, 3358-3365.	5.4	101
12	Novel fibers fabricated directly from chitin solution and their application as wound dressing. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3427.	5.8	91
13	Recyclable Universal Solvents for Chitin to Chitosan with Various Degrees of Acetylation and Construction of Robust Hydrogels. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2725-2733.	6.7	87
14	Swelling behaviors of superabsorbent chitin/carboxymethylcellulose hydrogels. <i>Journal of Materials Science</i> , 2014, 49, 2235-2242.	3.7	86
15	Biocompatible Chitin Hydrogel Incorporated with PEDOT Nanoparticles for Peripheral Nerve Repair. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16106-16117.	8.0	67
16	Superior strength and highly thermoconductive cellulose/ boron nitride film by stretch-induced alignment. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10304-10315.	10.3	65
17	Homogeneous synthesis and characterization of quaternized chitin in NaOH/urea aqueous solution. <i>Carbohydrate Polymers</i> , 2012, 87, 422-426.	10.2	63
18	Polyphenol-mediated chitin self-assembly for constructing a fully naturally resourced hydrogel with high strength and toughness. <i>Materials Horizons</i> , 2021, 8, 2503-2512.	12.2	57

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19	Facile construction of carbon dots via acid catalytic hydrothermal method and their application for target imaging of cancer cells. <i>Nano Research</i> , 2016, 9, 214-223.	10.4	51
20	Construction of controllable size silver nanoparticles immobilized on nanofibers of chitin microspheres via green pathway. <i>Nano Research</i> , 2016, 9, 2149-2161.	10.4	48
21	Hierarchical Microspheres Constructed from Chitin Nanofibers Penetrated Hydroxyapatite Crystals for Bone Regeneration. <i>Biomacromolecules</i> , 2017, 18, 2080-2089.	5.4	42
22	Polyphenol-driving assembly for constructing chitin-polyphenol-metal hydrogel as wound dressing. <i>Carbohydrate Polymers</i> , 2022, 290, 119444.	10.2	42
23	Construction of chitin/graphene oxide hybrid hydrogels. <i>Cellulose</i> , 2015, 22, 2035-2043.	4.9	41
24	Multifunctional chitin-based barrier membrane with antibacterial and osteogenic activities for the treatment of periodontal disease. <i>Carbohydrate Polymers</i> , 2021, 269, 118276.	10.2	37
25	Pd/TiO ₂ @ Carbon Microspheres Derived from Chitin for Highly Efficient Photocatalytic Degradation of Volatile Organic Compounds. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1658-1666.	6.7	34
26	Ultra-small Pd clusters supported by chitin nanowires as highly efficient catalysts. <i>Nano Research</i> , 2018, 11, 3145-3153.	10.4	32
27	Anisotropic Hybrid Hydrogels Constructed via the Noncovalent Assembly for Biomimetic Tissue Scaffold. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	32
28	A quaternized chitin derivatives, egg white protein and montmorillonite composite sponge with antibacterial and hemostatic effect for promoting wound healing. <i>Composites Part B: Engineering</i> , 2022, 234, 109661.	12.0	29
29	Moisture and solvent responsive cellulose/SiO ₂ nanocomposite materials. <i>Cellulose</i> , 2015, 22, 553-563.	4.9	26
30	Polymer-Water Interaction Enabled Intelligent Moisture Regulation in Hydrogels. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2587-2592.	4.6	25
31	Solvent Mediating the <i>in Situ</i> Self-Assembly of Polysaccharides for 3D Printing Biomimetic Tissue Scaffolds. <i>ACS Nano</i> , 2021, 15, 17790-17803.	14.6	25
32	Hierarchical microspheres with macropores fabricated from chitin as 3D cell culture. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5190-5198.	5.8	22
33	Chitin/graphene oxide composite films with enhanced mechanical properties prepared in NaOH/urea aqueous solution. <i>Cellulose</i> , 2014, 21, 1781-1791.	4.9	20
34	Green and Economical Strategy for Spinning Robust Cellulose Filaments. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14927-14937.	6.7	20
35	Elucidation of molecular pathways responsible for the accelerated wound healing induced by a novel fibrous chitin dressing. <i>Biomaterials Science</i> , 2019, 7, 5247-5257.	5.4	17
36	Loose Pre-Cross-Linking Mediating Cellulose Self-Assembly for 3D Printing Strong and Tough Biomimetic Scaffolds. <i>Biomacromolecules</i> , 2022, 23, 877-888.	5.4	15

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37	An engineered platform based on chitin-affinity immobilization for producing low molecular weight heparin. <i>Carbohydrate Polymers</i> , 2017, 177, 297-305.	10.2	14
38	Structure and properties of films fabricated from chitin solution by coagulating with heating. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	13
39	Anisotropic chitosan/tunicate cellulose nanocrystals hydrogel with tunable interference color and acid-responsiveness. <i>Carbohydrate Polymers</i> , 2022, 295, 119866.	10.2	12
40	Multifunctional chitin-based hollow nerve conduit for peripheral nerve regeneration and neuroma inhibition. <i>Carbohydrate Polymers</i> , 2022, 289, 119443.	10.2	11
41	In situ exfoliated silk fibroin nanoribbons enhanced chitin hydrogel for bile duct restoration. <i>Chemical Engineering Journal</i> , 2021, 422, 130088.	12.7	9
42	Biocompatible Composite Microspheres of Chitin/Ordered Mesoporous Carbon CMK3 for Bilirubin Adsorption and Cell Microcarrier Culture. <i>Macromolecular Bioscience</i> , 2022, 22, e2100412.	4.1	7