

Zhengwei Cai

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,313
citations

430874

18
h-index

477307

29
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29
docs citations

29
times ranked

1046
citing authors

#	ARTICLE	IF	CITATIONS
1	Exhausted local lactate accumulation via injectable nanozyme-functionalized hydrogel microsphere for inflammation relief and tissue regeneration. <i>Bioactive Materials</i> , 2022, 12, 153-168.	15.6	40
2	Inhaled ACE2-engineered microfluidic microsphere for intratracheal neutralization of COVID-19 and calming of the cytokine storm. <i>Matter</i> , 2022, 5, 336-362.	10.0	39
3	Injectable hydrogel microspheres with self-renewable hydration layers alleviate osteoarthritis. <i>Science Advances</i> , 2022, 8, eabl6449.	10.3	90
4	Adhesive and Injectable Hydrogel Microspheres for Inner Ear Treatment. <i>Small</i> , 2022, 18, e2106591.	10.0	24
5	Modulated integrin signaling receptors of stem cells via ultra-soft hydrogel for promoting angiogenesis. <i>Composites Part B: Engineering</i> , 2022, 234, 109747.	12.0	12
6	Biological signal integrated microfluidic hydrogel microspheres for promoting bone regeneration. <i>Chemical Engineering Journal</i> , 2022, 436, 135176.	12.7	20
7	Shear-responsive boundary-lubricated hydrogels attenuate osteoarthritis. <i>Bioactive Materials</i> , 2022, 16, 472-484.	15.6	31
8	Advanced Biomaterials for Regulating Polarization of Macrophages in Wound Healing. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	68
9	Balancing Microthrombosis and Inflammation via Injectable Protein Hydrogel for Inflammatory Bowel Disease. <i>Advanced Science</i> , 2022, 9, e2200281.	11.2	26
10	Nutrient capsules maintain tear film homeostasis for human corneal lenticule transplantation. <i>Chemical Engineering Journal</i> , 2022, 450, 138078.	12.7	3
11	Charge and receptor functional injectable hydrogels as cytokine-releasing reservoirs for wound healing. <i>Chemical Engineering Journal</i> , 2022, 450, 137880.	12.7	9
12	Heat-shrinkable Electrospun Fibrous Tape for Restoring Structure and Function of Loose Soft Tissue. <i>Advanced Functional Materials</i> , 2021, 31, 2007440.	14.9	17
13	Electrospun Fibrous Tapes: Heat-shrinkable Electrospun Fibrous Tape for Restoring Structure and Function of Loose Soft Tissue (<i>Adv. Funct. Mater.</i> 8/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170054.	14.9	1
14	Injectable Microfluidic Hydrogel Microspheres for Cell and Drug Delivery. <i>Advanced Functional Materials</i> , 2021, 31, 2103339.	14.9	117
15	Flexible Osteogenic Glue as an All-in-One Solution to Assist Fracture Fixation and Healing. <i>Advanced Functional Materials</i> , 2021, 31, 2102465.	14.9	40
16	Stem Cell-Recruiting Injectable Microgels for Repairing Osteoarthritis. <i>Advanced Functional Materials</i> , 2021, 31, 2105084.	14.9	48
17	Colon-Targeted Adhesive Hydrogel Microsphere for Regulation of Gut Immunity and Flora. <i>Advanced Science</i> , 2021, 8, e2101619.	11.2	91
18	Capturing Magnesium Ions via Microfluidic Hydrogel Microspheres for Promoting Cancellous Bone Regeneration. <i>ACS Nano</i> , 2021, 15, 13041-13054.	14.6	133

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19	Microfluidic Hydrogel Microspheres: Injectable Microfluidic Hydrogel Microspheres for Cell and Drug Delivery (Adv. Funct. Mater. 31/2021). Advanced Functional Materials, 2021, 31, 2170227.	14.9	25
20	Improving drug utilization platform with injectable mucoadhesive hydrogel for treating ulcerative colitis. Chemical Engineering Journal, 2021, 424, 130464.	12.7	13
21	Capturing dynamic biological signals via bio-mimicking hydrogel for precise remodeling of soft tissue. Bioactive Materials, 2021, 6, 4506-4516.	15.6	36
22	Stem Cell-Recruiting Injectable Microgels for Repairing Osteoarthritis (Adv. Funct. Mater. 48/2021). Advanced Functional Materials, 2021, 31, 2170357.	14.9	8
23	Black phosphorus-based 2D materials for bone therapy. Bioactive Materials, 2020, 5, 1026-1043.	15.6	60
24	Bioinspired Functional Black Phosphorus Electrospun Fibers Achieving Recruitment and Biom mineralization for Staged Bone Regeneration. Small, 2020, 16, e2005433.	10.0	57
25	Injectable and Self-Healing Hydrogel with Anti-Bacterial and Anti-Inflammatory Properties for Acute Bacterial Rhinosinusitis with Micro Invasive Treatment. Advanced Healthcare Materials, 2020, 9, e2001032.	7.6	17
26	Injectable Polypeptide-Protein Hydrogels for Promoting Infected Wound Healing. Advanced Functional Materials, 2020, 30, 2001196.	14.9	186
27	Photo and Reduction Dual-Responsive Hydrogel for Regulating Cell Adhesion and Cell Sheet Harvest. ACS Applied Bio Materials, 2020, 3, 2410-2418.	4.6	7
28	Precise Construction of Cell-Instructive 3D Microenvironments by Photopatterning a Biodegradable Hydrogel. Chemistry of Materials, 2019, 31, 4710-4719.	6.7	43
29	Photosensitive Hydrogel Creates Favorable Biologic Niches to Promote Spinal Cord Injury Repair. Advanced Healthcare Materials, 2019, 8, e1900013.	7.6	52