

Kongchang Wei

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.

35
papers

1,655
citations

23
h-index

40
g-index

41
ext. papers

2,075
ext. citations

12.2
avg, IF

4.74
L-index

#	Paper	IF	Citations
35	Hydrogel Fibers Produced via Microfluidics 2022 , 233-274		
34	Reversible and Broad-Range Oxygen Sensing Based on Purely Organic Long-Lived Photoemitters. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 2480-2488	4.3	1
33	Enhanced mechanosensing of cells in synthetic 3D matrix with controlled biophysical dynamics. <i>Nature Communications</i> , 2021 , 12, 3514	17.4	27
32	Chemically Stable, Strongly Adhesive Sealant Patch for Intestinal Anastomotic Leakage Prevention. <i>Advanced Functional Materials</i> , 2021 , 31, 2007099	15.6	15
31	Carbohydrate-Based Macromolecular Biomaterials. <i>Chemical Reviews</i> , 2021 , 121, 10950-11029	68.1	21
30	Biomimetic Presentation of Cryptic Ligands Single-Chain Nanogels for Synergistic Regulation of Stem Cells. <i>ACS Nano</i> , 2020 , 14, 4027-4035	16.7	11
29	Facile Fabrication of Microfluidic Chips for 3D Hydrodynamic Focusing and Wet Spinning of Polymeric Fibers. <i>Polymers</i> , 2020 , 12,	4.5	4
28	Reversible Oxygen Sensing Based on Multi-Emission Fluorescence Quenching. <i>Sensors</i> , 2020 , 20,	3.8	8
27	Bioadhesive hydrogels demonstrating pH-independent and ultrafast gelation promote gastric ulcer healing in pigs. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	74
26	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , 2019 , 10, 2705	17.4	37
25	Injectable stem cell-laden supramolecular hydrogels enhance in situ osteochondral regeneration via the sustained co-delivery of hydrophilic and hydrophobic chondrogenic molecules. <i>Biomaterials</i> , 2019 , 210, 51-61	15.6	108
24	Highly Dynamic Nanocomposite Hydrogels Self-Assembled by Metal Ion-Ligand Coordination. <i>Small</i> , 2019 , 15, e1900242	11	23
23	Stretchable and Bioadhesive Supramolecular Hydrogels Activated by a One-Stone-Two-Bird Postgelation Functionalization Method. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16328-16335	9.5	15
22	Synthetic presentation of noncanonical Wnt5a motif promotes mechanosensing-dependent differentiation of stem cells and regeneration. <i>Science Advances</i> , 2019 , 5, eaaw3896	14.3	40
21	Dynamic and Cell-Infiltratable Hydrogels as Injectable Carrier of Therapeutic Cells and Drugs for Treating Challenging Bone Defects. <i>ACS Central Science</i> , 2019 , 5, 440-450	16.8	112
20	Mussel-Inspired Injectable Hydrogel Adhesive Formed under Mild Conditions Features Near-Native Tissue Properties. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47707-47719	9.5	30
19	Manipulating the mechanical properties of biomimetic hydrogels with multivalent host-guest interactions. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 1726-1733	7.3	7

18	Bioadhesive Polymersome for Localized and Sustained Drug Delivery at Pathological Sites with Harsh Enzymatic and Fluidic Environment via Supramolecular Host-Guest Complexation. <i>Small</i> , 2018 , 14, 1702288	11	29
17	One-pot solvent exchange preparation of non-swellaable, thermoplastic, stretchable and adhesive supramolecular hydrogels based on dual synergistic physical crosslinking. <i>NPG Asia Materials</i> , 2018 , 10, e455-e455	10.3	39
16	Supramolecular hydrogels cross-linked by preassembled host-guest PEG cross-linkers resist excessive, ultrafast, and non-resting cyclic compression. <i>NPG Asia Materials</i> , 2018 , 10, 788-799	10.3	37
15	Nanolayered hybrid mediates synergistic co-delivery of ligand and ligation activator for inducing stem cell differentiation and tissue healing. <i>Biomaterials</i> , 2017 , 149, 12-28	15.6	25
14	Mussel-mimetic hydrogels with defined cross-linkers achieved via controlled catechol dimerization exhibiting tough adhesion for wet biological tissues. <i>Chemical Communications</i> , 2017 , 53, 12000-12003	5.8	53
13	Remote Control of Multimodal Nanoscale Ligand Oscillations Regulates Stem Cell Adhesion and Differentiation. <i>ACS Nano</i> , 2017 , 11, 9636-9649	16.7	47
12	Multivalent Host-Guest Hydrogels as Fatigue-Resistant 3D Matrix for Excessive Mechanical Stimulation of Encapsulated Cells. <i>Chemistry of Materials</i> , 2017 , 29, 8604-8610	9.6	37
11	Building Nanowires from Micelles: Hierarchical Self-Assembly of Alternating Amphiphilic Glycopolypeptide Brushes with Pendants of High-Mannose Glycodendron and Oligophenylalanine. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12387-94	16.4	41
10	Mechanically resilient, injectable, and bioadhesive supramolecular gelatin hydrogels crosslinked by weak host-guest interactions assist cell infiltration and in situ tissue regeneration. <i>Biomaterials</i> , 2016 , 101, 217-28	15.6	180
9	Robust Biopolymeric Supramolecular Host-Guest Macromer-Hydrogels Reinforced by in Situ Formed Multivalent Nanoclusters for Cartilage Regeneration. <i>Macromolecules</i> , 2016 , 49, 866-875	5.5	82
8	Bioactive Nanocomposite Poly (Ethylene Glycol) Hydrogels Crosslinked by Multifunctional Layered Double Hydroxides Nanocrosslinkers. <i>Macromolecular Bioscience</i> , 2016 , 16, 1019-26	5.5	22
7	Preserving the adhesion of catechol-conjugated hydrogels by thiourea-quinone coupling. <i>Biomaterials Science</i> , 2016 , 4, 1726-1730	7.4	22
6	A gold@polydopamine core-shell nanoprobe for long-term intracellular detection of microRNAs in differentiating stem cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7337-46	16.4	164
5	Cell-mediated degradation regulates human mesenchymal stem cell chondrogenesis and hypertrophy in MMP-sensitive hyaluronic acid hydrogels. <i>PLoS ONE</i> , 2014 , 9, e99587	3.7	47
4	Progressive macromolecular self-assembly: from biomimetic chemistry to bio-inspired materials. <i>Advanced Materials</i> , 2013 , 25, 5215-56	24	190
3	Dual Molecular Recognition Leading to a Protein-Polymer Conjugate and Further Self-Assembly.. <i>ACS Macro Letters</i> , 2013 , 2, 278-283	6.6	42
2	Reversible vesicles of supramolecular hybrid nanoparticles. <i>Soft Matter</i> , 2012 , 8, 3300	3.6	21
1	Does PNIPAM block really retard the micelle-to-vesicle transition of its copolymer?. <i>Polymer</i> , 2011 , 52, 3647-3654	3.9	37

