Kongchang Wei

List of Publications by Year
in descending order

36	2,467	201385	360668
papers	citations	27 h-index	35 g-index

41	41	41	3894
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanically resilient, injectable, and bioadhesive supramolecular gelatin hydrogels crosslinked by weak host-guest interactions assist cell infiltration and in situ tissue regeneration. Biomaterials, 2016, 101, 217-228.	5.7	249
2	Progressive Macromolecular Selfâ€Assembly: From Biomimetic Chemistry to Bioâ€Inspired Materials. Advanced Materials, 2013, 25, 5215-5256.	11.1	210
3	A Gold@Polydopamine Coreâ€“Shell Nanoprobe for Long-Term Intracellular Detection of MicroRNAs in Differentiating Stem Cells. Journal of the American Chemical Society, 2015, 137, 7337-7346.	6.6	202
4	Injectable stem cell-laden supramolecular hydrogels enhance in situ osteochondral regeneration via the sustained co-delivery of hydrophilic and hydrophobic chondrogenic molecules. Biomaterials, 2019, 210, 51-61.	5.7	179
5	Dynamic and Cell-Infiltratable Hydrogels as Injectable Carrier of Therapeutic Cells and Drugs for Treating Challenging Bone Defects. ACS Central Science, 2019, 5, 440-450.	5.3	166
6	Bioadhesive hydrogels demonstrating pH-independent and ultrafast gelation promote gastric ulcer healing in pigs. Science Translational Medicine, 2020, 12, .	5.8	147
7	Carbohydrate-Based Macromolecular Biomaterials. Chemical Reviews, 2021, 121, 10950-11029.	23.0	122
8	Robust Biopolymeric Supramolecular â€œHostâ^'Guest Macromerâ€•Hydrogels Reinforced by in Situ Formed Multivalent Nanoclusters for Cartilage Regeneration. Macromolecules, 2016, 49, 866-875.	2.2	102
9	Enhanced mechanosensing of cells in synthetic 3D matrix with controlled biophysical dynamics. Nature Communications, 2021, 12, 3514.	5.8	92
10	Mussel-mimetic hydrogels with defined cross-linkers achieved via controlled catechol dimerization exhibiting tough adhesion for wet biological tissues. Chemical Communications, 2017, 53, 12000-12003.	2.2	76
11	Remote Control of Multimodal Nanoscale Ligand Oscillations Regulates Stem Cell Adhesion and Differentiation. ACS Nano, 2017, 11, 9636-9649.	7.3	65
12	Synthetic presentation of noncanonical Wnt5a motif promotes mechanosensing-dependent differentiation of stem cells and regeneration. Science Advances, 2019, 5, eaaw3896.	4.7	64
13	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. Nature Communications, 2019, 10, 2705.	5.8	60
14	One-pot solvent exchange preparation of non-swellable, thermoplastic, stretchable and adhesive supramolecular hydrogels based on dual synergistic physical crosslinking. NPG Asia Materials, 2018, 10, e455-e455.	3.8	59
15	Cell-Mediated Degradation Regulates Human Mesenchymal Stem Cell Chondrogenesis and Hypertrophy in MMP-Sensitive Hyaluronic Acid Hydrogels. PLoS ONE, 2014, 9, e99587.	1.1	57
16	Building Nanowires from Micelles: Hierarchical Self-Assembly of Alternating Amphiphilic Glycopolypeptide Brushes with Pendants of High-Mannose Glycodendron and Oligophenylalanine. Journal of the American Chemical Society, 2016, 138, 12387-12394.	6.6	54
17	Supramolecular hydrogels cross-linked by preassembled hostâ€“guest PEG cross-linkers resist excessive, ultrafast, and non-resting cyclic compression. NPG Asia Materials, 2018, 10, 788-799.	3.8	50
18	Mussel-Inspired Injectable Hydrogel Adhesive Formed under Mild Conditions Features Near-Native Tissue Properties. ACS Applied Materials & Interfaces, 2019, 11, 47707-47719.	4.0	49

#	Article	IF	Citations
19	Dual Molecular Recognition Leading to a Proteinâ€“Polymer Conjugate and Further Self-Assembly. ACS Macro Letters, 2013, 2, 278-283.	2.3	46
20	Highly Dynamic Nanocomposite Hydrogels Selfâ€Assembled by Metal Ionâ€Ligand Coordination. Small, 2019, 15, e1900242.	5.2	45
21	Multivalent Hostâ€“Guest Hydrogels as Fatigue-Resistant 3D Matrix for Excessive Mechanical Stimulation of Encapsulated Cells. Chemistry of Materials, 2017, 29, 8604-8610.	3.2	42
22	Bioadhesive Polymersome for Localized and Sustained Drug Delivery at Pathological Sites with Harsh Enzymatic and Fluidic Environment via Supramolecular Hostâ€“Guest Complexation. Small, 2018, 14, 1702288.	5.2	40
23	Does PNIPAM block really retard the micelle-to-vesicle transition of its copolymer?. Polymer, 2011, 52, 3647-3654.	1.8	39
24	Nanolayered hybrid mediates synergistic co-delivery of ligand and ligation activator for inducing stem cell differentiation and tissue healing. Biomaterials, 2017, 149, 12-28.	5.7	36
25	Chemically Stable, Strongly Adhesive Sealant Patch for Intestinal Anastomotic Leakage Prevention. Advanced Functional Materials, 2021, 31, 2007099.	7.8	34
26	Preserving the adhesion of catechol-conjugated hydrogels by thioureaâ€“quinone coupling. Biomaterials Science, 2016, 4, 1726-1730.	2.6	33
27	Bioactive Nanocomposite Poly (Ethylene Glycol) Hydrogels Crosslinked by Multifunctional Layered Double Hydroxides Nanocrosslinkers. Macromolecular Bioscience, 2016, 16, 1019-1026.	2.1	28
28	Stretchable and Bioadhesive Supramolecular Hydrogels Activated by a One-Stoneâ€“Two-Bird Postgelation Functionalization Method. ACS Applied Materials & Interfaces, 2019, 11, 16328-16335.	4.0	25
29	Reversible vesicles of supramolecular hybrid nanoparticles. Soft Matter, 2012, 8, 3300.	1.2	22
30	Biomimetic Presentation of Cryptic Ligands via Single-Chain Nanogels for Synergistic Regulation of Stem Cells. ACS Nano, 2020, 14, 4027-4035.	7.3	22
31	Manipulating the mechanical properties of biomimetic hydrogels with multivalent hostâ€“guest interactions. Journal of Materials Chemistry B, 2019, 7, 1726-1733.	2.9	15
32	Facile Fabrication of Microfluidic Chips for 3D Hydrodynamic Focusing and Wet Spinning of Polymeric Fibers. Polymers, 2020, 12, 633.	2.0	10
33	Reversible Oxygen Sensing Based on Multi-Emission Fluorescence Quenching. Sensors, 2020, 20, 477.	2.1	9
34	Reversible and Broad-Range Oxygen Sensing Based on Purely Organic Long-Lived Photoemitters. ACS Applied Polymer Materials, 2021, 3, 2480-2488.	2.0	5
35	Robust and bioadhesive supramolecular hydrogel stabilized by pre-assembled host-guest complexation for in situ tissue regeneration. Frontiers in Bioengineering and Biotechnology, 0, 4, .	2.0	0
36	Immobilization of polymersome in hydrogels via host-guest complexation for triggered drug delivery. Frontiers in Bioengineering and Biotechnology, 0, 4, .	2.0	0