Kongchang Wei

List of Publications by Citations

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	Progressive macromolecular self-assembly: from biomimetic chemistry to bio-inspired materials. *Advanced Materials*, **2013**, 25, 5215-56	24	190
34	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, 217-28	15.6	180
33	A gold@polydopamine core-shell nanoprobe for long-term intracellular detection of microRNAs in differentiating stem cells. *Journal of the American Chemical Society*, **2015**, 137, 7337-46	16.4	164
32	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	16.8	112
31	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	15.6	108
30	Robust Biopolymeric Supramolecular Host–Guest Macromer Hydrogels Reinforced by in Situ Formed Multivalent Nanoclusters for Cartilage Regeneration. *Macromolecules*, **2016**, 49, 866-875	5.5	82
29	Bioadhesive hydrogels demonstrating pH-independent and ultrafast gelation promote gastric ulcer healing in pigs. *Science Translational Medicine*, **2020**, 12,	17.5	74
28	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	5.8	53
27	Remote Control of Multimodal Nanoscale Ligand Oscillations Regulates Stem Cell Adhesion and Differentiation. *ACS Nano*, **2017**, 11, 9636-9649	16.7	47
26	Cell-mediated degradation regulates human mesenchymal stem cell chondrogenesis and hypertrophy in MMP-sensitive hyaluronic acid hydrogels. *PLoS ONE*, **2014**, 9, e99587	3.7	47
25	Dual Molecular Recognition Leading to a Protein-Polymer Conjugate and Further Self-Assembly.. *ACS Macro Letters*, **2013**, 2, 278-283	6.6	42
24	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, 12387-94	16.4	41
23	Synthetic presentation of noncanonical Wnt5a motif promotes mechanosensing-dependent differentiation of stem cells and regeneration. *Science Advances*, **2019**, 5, eaaw3896	14.3	40
22	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	10.3	39
21	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. *Nature Communications*, **2019**, 10, 2705	17.4	37
20	Supramolecular hydrogels cross-linked by preassembled host–guest PEG cross-linkers resist excessive, ultrafast, and non-resting cyclic compression. *NPG Asia Materials*, **2018**, 10, 788-799	10.3	37
19	Multivalent Host–Guest Hydrogels as Fatigue-Resistant 3D Matrix for Excessive Mechanical Stimulation of Encapsulated Cells. *Chemistry of Materials*, **2017**, 29, 8604-8610	9.6	37

18	Does PNIPAM block really retard the micelle-to-vesicle transition of its copolymer?. *Polymer*, **2011**, 52, 3647-3654	3.9	37
17	Mussel-Inspired Injectable Hydrogel Adhesive Formed under Mild Conditions Features Near-Native Tissue Properties. *ACS Applied Materials & Interfaces*, **2019**, 11, 47707-47719	9.5	30
16	Bioadhesive Polymersome for Localized and Sustained Drug Delivery at Pathological Sites with Harsh Enzymatic and Fluidic Environment via Supramolecular Host-Guest Complexation. *Small*, **2018**, 14, 1702288	11	29
15	Enhanced mechanosensing of cells in synthetic 3D matrix with controlled biophysical dynamics. *Nature Communications*, **2021**, 12, 3514	17.4	27
14	Nanolayered hybrid mediates synergistic co-delivery of ligand and ligation activator for inducing stem cell differentiation and tissue healing. *Biomaterials*, **2017**, 149, 12-28	15.6	25
13	Highly Dynamic Nanocomposite Hydrogels Self-Assembled by Metal Ion-Ligand Coordination. *Small* , **2019**, 15, e1900242	11	23
12	Bioactive Nanocomposite Poly (Ethylene Glycol) Hydrogels Crosslinked by Multifunctional Layered Double Hydroxides Nanocrosslinkers. *Macromolecular Bioscience*, **2016**, 16, 1019-26	5.5	22
11	Preserving the adhesion of catechol-conjugated hydrogels by thiourea-quinone coupling. *Biomaterials Science*, **2016**, 4, 1726-1730	7.4	22
10	Reversible vesicles of supramolecular hybrid nanoparticles. *Soft Matter*, **2012**, 8, 3300	3.6	21
9	Carbohydrate-Based Macromolecular Biomaterials. *Chemical Reviews*, **2021**, 121, 10950-11029	68.1	21
8	Stretchable and Bioadhesive Supramolecular Hydrogels Activated by a One-Stone-Two-Bird Postgelation Functionalization Method. *ACS Applied Materials & Interfaces*, **2019**, 11, 16328-16335	9.5	15
7	Chemically Stable, Strongly Adhesive Sealant Patch for Intestinal Anastomotic Leakage Prevention. *Advanced Functional Materials*, **2021**, 31, 2007099	15.6	15
6	Biomimetic Presentation of Cryptic Ligands Single-Chain Nanogels for Synergistic Regulation of Stem Cells. *ACS Nano*, **2020**, 14, 4027-4035	16.7	11
5	Reversible Oxygen Sensing Based on Multi-Emission Fluorescence Quenching. *Sensors*, **2020**, 20,	3.8	8
4	Manipulating the mechanical properties of biomimetic hydrogels with multivalent host-guest interactions. *Journal of Materials Chemistry B*, **2019**, 7, 1726-1733	7.3	7
3	Facile Fabrication of Microfluidic Chips for 3D Hydrodynamic Focusing and Wet Spinning of Polymeric Fibers. *Polymers*, **2020**, 12,	4.5	4
2	Reversible and Broad-Range Oxygen Sensing Based on Purely Organic Long-Lived Photoemitters. *ACS Applied Polymer Materials*, **2021**, 3, 2480-2488	4.3	1
1	Hydrogel Fibers Produced via Microfluidics **2022**, 233-274		