

# Qian Feng

## List of Publications by Year in descending order

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43  
papers

2,741  
citations

172207

29  
h-index

243296

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44  
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docs citations

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times ranked

3721  
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. <i>Biomaterials</i> , 2016, 101, 217-228.	5.7	249
2	Magnetite Nanostructured Porous Hollow Helical Microswimmers for Targeted Delivery. <i>Advanced Functional Materials</i> , 2015, 25, 5333-5342.	7.8	210
3	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.	5.7	179
4	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.	5.3	166
5	Structurally Dynamic Hydrogels for Biomedical Applications: Pursuing a Fine Balance between Macroscopic Stability and Microscopic Dynamics. <i>Chemical Reviews</i> , 2021, 121, 11149-11193.	23.0	161
6	Adaptable Hydrogels Mediate Cofactor-Assisted Activation of Biomarker-Responsive Drug Delivery via Positive Feedback for Enhanced Tissue Regeneration. <i>Advanced Science</i> , 2018, 5, 1800875.	5.6	141
7	Sulfated hyaluronic acid hydrogels with retarded degradation and enhanced growth factor retention promote hMSC chondrogenesis and articular cartilage integrity with reduced hypertrophy. <i>Acta Biomaterialia</i> , 2017, 53, 329-342.	4.1	136
8	All-in-One: Multifunctional Hydrogel Accelerates Oxidative Diabetic Wound Healing through Timed Release of Exosome and Fibroblast Growth Factor. <i>Small</i> , 2022, 18, e2104229.	5.2	133
9	Nanocomposite hydrogels stabilized by self-assembled multivalent bisphosphonate-magnesium nanoparticles mediate sustained release of magnesium ion and promote in-situ bone regeneration. <i>Acta Biomaterialia</i> , 2017, 64, 389-400.	4.1	117
10	Self-Assembled Injectable Nanocomposite Hydrogels Stabilized by Bisphosphonate-Magnesium (Mg <sup>2+</sup> ) Coordination Regulates the Differentiation of Encapsulated Stem Cells via Dual Crosslinking. <i>Advanced Functional Materials</i> , 2017, 27, 1701642.	7.8	110
11	Robust Biopolymeric Supramolecular "Host" Guest Macromer-Hydrogels Reinforced by <i>in Situ</i> Formed Multivalent Nanoclusters for Cartilage Regeneration. <i>Macromolecules</i> , 2016, 49, 866-875.	2.2	102
12	Enhanced mechanosensing of cells in synthetic 3D matrix with controlled biophysical dynamics. <i>Nature Communications</i> , 2021, 12, 3514.	5.8	92
13	Hydrogels functionalized with N-cadherin mimetic peptide enhance osteogenesis of hMSCs by emulating the osteogenic niche. <i>Biomaterials</i> , 2016, 77, 44-52.	5.7	77
14	Osteoblast/Osteoclast and Immune Cocktail Therapy of an Exosome/Drug Delivery Multifunctional Hydrogel Accelerates Fracture Repair. <i>ACS Nano</i> , 2022, 16, 771-782.	7.3	64
15	One-pot solvent exchange preparation of non-swellable, thermoplastic, stretchable and adhesive supramolecular hydrogels based on dual synergistic physical crosslinking. <i>NPG Asia Materials</i> , 2018, 10, e455-e455.	3.8	59
16	Cell-Mediated Degradation Regulates Human Mesenchymal Stem Cell Chondrogenesis and Hypertrophy in MMP-Sensitive Hyaluronic Acid Hydrogels. <i>PLoS ONE</i> , 2014, 9, e99587.	1.1	57
17	Synergistic effects on mesenchymal stem cell-based cartilage regeneration by chondrogenic preconditioning and mechanical stimulation. <i>Stem Cell Research and Therapy</i> , 2017, 8, 221.	2.4	52
18	Molecular cargo delivery using multicellular magnetic microswimmers. <i>Applied Materials Today</i> , 2019, 15, 242-251.	2.3	52

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19	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.	3.8	50
20	Injectable Nanoreinforced Shape-Memory Hydrogel System for Regenerating Spinal Cord Tissue from Traumatic Injury. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29299-29307.	4.0	49
21	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.	3.2	42
22	Anisotropic Nanoscale Presentation of Cell Adhesion Ligand Enhances the Recruitment of Diverse Integrins in Adhesion Structures and Mechanosensing-Dependent Differentiation of Stem Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1806822.	7.8	38
23	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.	5.7	36
24	Effect of cartilaginous matrix components on the chondrogenesis and hypertrophy of mesenchymal stem cells in hyaluronic acid hydrogels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 2292-2300.	1.6	36
25	Efficient catechol functionalization of biopolymeric hydrogels for effective multiscale bioadhesion. <i>Materials Science and Engineering C</i> , 2019, 103, 109835.	3.8	34
26	Preserving the adhesion of catechol-conjugated hydrogels by thiourea-quinone coupling. <i>Biomaterials Science</i> , 2016, 4, 1726-1730.	2.6	33
27	Targeted Covalent Inhibition of Grb2-Sos1 Interaction through Proximity-Induced Conjugation in Breast Cancer Cells. <i>Molecular Pharmaceutics</i> , 2017, 14, 1548-1557.	2.3	32
28	Effect of inorganic/organic ratio and chemical coupling on the performance of porous silica/chitosan hybrid scaffolds. <i>Materials Science and Engineering C</i> , 2017, 70, 969-975.	3.8	30
29	Differential effect of hypoxia on human mesenchymal stem cell chondrogenesis and hypertrophy in hyaluronic acid hydrogels. <i>Acta Biomaterialia</i> , 2014, 10, 1333-1340.	4.1	29
30	Stretchable and Bioadhesive Supramolecular Hydrogels Activated by a One-Stone-Two-Bird Postgelation Functionalization Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 16328-16335.	4.0	25
31	Optical $\mu$ -Printing of Cellular-Scale Microscaffold Arrays for 3D Cell Culture. <i>Scientific Reports</i> , 2017, 7, 8880.	1.6	22
32	Inhibition of protein FAK enhances 5-FU chemosensitivity to gastric carcinoma via p53 signaling pathways. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 125-136.	1.9	22
33	Angiogenesis-based diabetic skin reconstruction through multifunctional hydrogel with sustained releasing of M2 Macrophage-derived exosome. <i>Chemical Engineering Journal</i> , 2022, 431, 132413.	6.6	18
34	Highly Stretchable, Sensitive, and Durable Ag/Tannic Acid@Graphene Oxide-Composite Hydrogel for Wearable Strain Sensors. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2036-2046.	2.0	16
35	Dimer targeting peptide mediated precise and controllable drug delivery by upconversion nanocarriers for breast cancer therapy. <i>Materials and Design</i> , 2021, 203, 109597.	3.3	11
36	Utilization of an Acellular Cartilage Matrix-Based Photocrosslinking Hydrogel for Tracheal Cartilage Regeneration and Circumferential Tracheal Repair. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	10

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37	&lt;p&gt;Mimicking the Endometrial Cancer Tumor Microenvironment to Reprogram Tumor-Associated Macrophages in Disintegrable Supramolecular Gelatin Hydrogel&lt;/p&gt;. International Journal of Nanomedicine, 2020, Volume 15, 4625-4637.	3.3	8
38	Self-renewal or quiescence? Orchestrating the fate of mesenchymal stem cells by matrix viscoelasticity via PI3K/Akt-CDK1 pathway. Biomaterials, 2021, 279, 121235.	5.7	8
39	Doxorubicin-loaded polypyrrole nanovesicles for suppressing tumor metastasis through combining photothermotherapy and lymphatic&Assystem-targeted chemotherapy. Nanoscale, 2022, 14, 3097-3111.	2.8	6
40	Highly Transparent, Self-Healing, and Self-Adhesive Double Network Hydrogel for Wearable Sensors. Frontiers in Bioengineering and Biotechnology, 2022, 10, 846401.	2.0	5
41	Controllable Drug Delivery by Na <sup>+</sup> /K <sup>+</sup> ATPase $\hat{\pm}$ 1 Targeting Peptide Conjugated DSPE-PEG Nanocarriers for Breast Cancer. Technology in Cancer Research and Treatment, 2021, 20, 153303382110278.	0.8	4
42	Mesenchymal Stem Cells Resist Mechanical Confinement through the Activation of the Cortex during Cell Division. ACS Biomaterials Science and Engineering, 2021, 7, 4602-4613.	2.6	4
43	Tough, Flexible, and Bioactive Amphoteric Copolymer-Based Hydrogel for Bone Regeneration without Encapsulation of Seed Cells/Simulating Cues. ACS Applied Materials & Interfaces, 2022, 14, 12038-12049.	4.0	3