Li-Ming Fang

List of Publications by Citations

44 papers	3,435 citations	22 h-index	45 g-index
45 ext. papers	4,314 ext. citations	7.8 avg, IF	5.42 L-index

#	Paper	IF	Citations
44	Mussel-Inspired Adhesive and Tough Hydrogel Based on Nanoclay Confined Dopamine Polymerization. *ACS Nano*, **2017**, 11, 2561-2574	16.7	517
43	Mussel-Inspired Adhesive and Conductive Hydrogel with Long-Lasting Moisture and Extreme Temperature Tolerance. *Advanced Functional Materials*, **2018**, 28, 1704195	15.6	485
42	A Mussel-Inspired Conductive, Self-Adhesive, and Self-Healable Tough Hydrogel as Cell Stimulators and Implantable Bioelectronics. *Small*, **2017**, 13, 1601916	11	398
41	Plant-inspired adhesive and tough hydrogel based on Ag-Lignin nanoparticles-triggered dynamic redox catechol chemistry. *Nature Communications*, **2019**, 10, 1487	17.4	376
40	Processing and mechanical properties of HA/UHMWPE nanocomposites. *Biomaterials*, **2006**, 27, 3701-7	15.6	214
39	Transparent, Adhesive, and Conductive Hydrogel for Soft Bioelectronics Based on Light-Transmitting Polydopamine-Doped Polypyrrole Nanofibrils. *Chemistry of Materials*, **2018**, 30, 5561-5572	9.6	211
38	Silver nanoparticles and growth factors incorporated hydroxyapatite coatings on metallic implant surfaces for enhancement of osteoinductivity and antibacterial properties. *ACS Applied Materials & Interfaces*, **2014**, 6, 8580-9	9.5	140
37	Processing of hydroxyapatite reinforced ultrahigh molecular weight polyethylene for biomedical applications. *Biomaterials*, **2005**, 26, 3471-8	15.6	118
36	Graphene Oxide-Templated Conductive and Redox-Active Nanosheets Incorporated Hydrogels for Adhesive Bioelectronics. *Advanced Functional Materials*, **2020**, 30, 1907678	15.6	114
35	Conductive and Tough Hydrogels Based on Biopolymer Molecular Templates for Controlling in Situ Formation of Polypyrrole Nanorods. *ACS Applied Materials & Interfaces*, **2018**, 10, 36218-36228	9.5	110
34	Molecular dynamics simulations on the interaction between polymers and hydroxyapatite with and without coupling agents. *Acta Biomaterialia*, **2009**, 5, 1169-81	10.8	76
33	High strength and bioactive hydroxyapatite nano-particles reinforced ultrahigh molecular weight polyethylene. *Composites Part B: Engineering*, **2007**, 38, 345-351	10	67
32	An Anisotropic Hydrogel Based on Mussel-Inspired Conductive Ferrofluid Composed of Electromagnetic Nanohybrids. *Nano Letters*, **2019**, 19, 8343-8356	11.5	55
31	Highly compressible and superior low temperature tolerant supercapacitors based on dual chemically crosslinked PVA hydrogel electrolytes. *Journal of Materials Chemistry A*, **2020**, 8, 6219-6228	13	48
30	Mussel-Inspired Redox-Active and Hydrophilic Conductive Polymer Nanoparticles for Adhesive Hydrogel Bioelectronics. *Nano-Micro Letters*, **2020**, 12, 169	19.5	41
29	Silicone rubber nanocomposites containing a small amount of hybrid fillers with enhanced electrical sensitivity. *Materials & Design*, **2013**, 45, 548-554		36
28	Pulse Electrochemical Driven Rapid Layer-by-Layer Assembly of Polydopamine and Hydroxyapatite Nanofilms via Alternative Redox Synthesis for Bone Regeneration. *ACS Biomaterials Science and Engineering*, **2016**, 2, 920-928	5.5	36

27	Synthesis and bioactive properties of macroporous nanoscale SiO2CaOP2O5 bioactive glass. *Journal of Non-Crystalline Solids*, **2009**, 355, 2678-2681	3.9	29
26	Fabrication, structure and biological properties of organic acid-derived sol-gel bioactive glasses. *Biomedical Materials (Bristol)*, **2010**, 5, 054103	3.5	28
25	Investigation of emulsified, acid and acid-alkali catalyzed mesoporous bioactive glass microspheres for bone regeneration and drug delivery. *Materials Science and Engineering C*, **2013**, 33, 4236-43	8.3	25
24	Preparation and properties of dynamically cured poly(vinylidene fluoride)/silicone rubber blends. *Polymer Testing*, **2013**, 32, 1072-1078	4.5	24
23	Experimental and simulation studies of strontium/fluoride-codoped hydroxyapatite nanoparticles with osteogenic and antibacterial activities. *Colloids and Surfaces B: Biointerfaces*, **2019**, 182, 110359	6	23
22	Morphology study of peroxide-induced dynamically vulcanized polypropylene/ethylene-propylene-diene monomer/zinc dimethacrylate blends during tensile deformation. *Journal of Physical Chemistry B*, **2013**, 117, 7819-25	3.4	22
21	Influence of Sintering Temperature on Pore Structure and Apatite Formation of a Sol-Gel-Derived Bioactive Glass. *Journal of the American Ceramic Society*, **2010**, 93, 32-35	3.8	21
20	Mussel-inspired nano-multilayered coating on magnesium alloys for enhanced corrosion resistance and antibacterial property. *Colloids and Surfaces B: Biointerfaces*, **2017**, 157, 432-439	6	19
19	Bioinspired adhesive and tumor microenvironment responsive nanoMOFs assembled 3D-printed scaffold for anti-tumor therapy and bone regeneration. *Nano Today*, **2021**, 39, 101182	17.9	19
18	Durable Antibacterial Cotton Fabrics Based on Natural Borneol-Derived Anti-MRSA Agents. *Advanced Healthcare Materials*, **2020**, 9, e2000186	10.1	18
17	Phosphatidylserine enhances osteogenic differentiation in human mesenchymal stem cells via ERK signal pathways. *Materials Science and Engineering C*, **2013**, 33, 1783-8	8.3	18
16	The effects of hydroxyl groups on Ca adsorption on rutile surfaces: a first-principles study. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 1-10	4.5	18
15	Surface nanoscale patterning of bioactive glass to support cellular growth and differentiation. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 1091-9	5.4	17
14	Molecular dynamics simulation of RGD peptide adsorption on titanium oxide surfaces. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 3437-41	4.5	15
13	Structure and properties of polyacrylic acid modified hydroxyapatite/liquid crystal polymer composite. *Journal of Reinforced Plastics and Composites*, **2011**, 30, 1155-1163	2.9	13
12	Novel niobium and silver toughened hydroxyapatite nanocomposites with enhanced mechanical and biological properties for load-bearing bone implants. *Applied Materials Today*, **2019**, 15, 531-542	6.6	12
11	Effects of atomic-level nano-structured hydroxyapatite on adsorption of bone morphogenetic protein-7 and its derived peptide by computer simulation. *Scientific Reports*, **2017**, 7, 15152	4.9	12
10	Atomic-scale interactions at the interface of biopolymer/hydroxyapatite. *Biomedical Materials (Bristol)*, **2008**, 3, 044110	3.5	11

9	In situ reactive compatibilized polypropylene/nitrile butadiene rubber blends by zinc dimethacrylate: Preparation, structure, and properties. *Polymer Engineering and Science*, **2014**, 54, 2321-2331	2.2	10
8	Temperature window effect and its application in extrusion of ultrahigh molecular weight polyethylene. *EXPRESS Polymer Letters*, **2011**, 5, 674-684	3.4	10
7	Highly compressible hydrogel sensors with synergistic long-lasting moisture, extreme temperature tolerance and strain-sensitivity properties. *Materials Chemistry Frontiers*, **2020**, 4, 3319-3327	7.8	7
6	Processing and characterization of TLCP fibers reinforced by 1 wt% MWCNT. *Journal of Materials Science*, **2012**, 47, 8094-8102	4.3	6
5	Role of Stiffness versus Wettability in Regulating Cell Behaviors on Polymeric Surfaces. *ACS Biomaterials Science and Engineering*, **2020**, 6, 912-922	5.5	6
4	pH and light-responsive polycaprolactone/curcumin@zif-8 composite films with enhanced antibacterial activity. *Journal of Food Science*, **2021**, 86, 3550-3562	3.4	6
3	pH-responsive curcumin-based nanoscale ZIF-8 combining chemophotodynamic therapy for excellent antibacterial activity.. *RSC Advances*, **2022**, 12, 10005-10013	3.7	2
2	Morphology and properties of poly(vinylidene fluoride)/silicone rubber blends. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	1
1	Octacalcium phosphate fiber synthesized by homogeneous precipitation method. *Journal Wuhan University of Technology, Materials Science Edition*, **2010**, 25, 747-752	1	1