

# Yingjun Wang

## List of Publications by Citations

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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.

70  
papers

1,601  
citations

24  
h-index

36  
g-index

72  
ext. papers

1,938  
ext. citations

6.3  
avg, IF

4.7  
L-index

#	Paper	IF	Citations
70	Concentration ranges of antibacterial cations for showing the highest antibacterial efficacy but the least cytotoxicity against mammalian cells: implications for a new antibacterial mechanism. <i>Chemical Research in Toxicology</i> , <b>2015</b> , 28, 1815-22	4	127
69	3D Biplotting of Gelatin/Alginate Scaffolds for Tissue Engineering: Influence of Crosslinking Degree and Pore Architecture on Physicochemical Properties. <i>Journal of Materials Science and Technology</i> , <b>2016</b> , 32, 889-900	9.1	89
68	Copper-Catalyzed Click Reaction on/in Live Cells. <i>Chemical Science</i> , <b>2017</b> , 8, 2107-2114	9.4	74
67	Improvement in hydrophilicity of PHBV films by plasma treatment. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 76, 589-95	5.4	65
66	3D-printed guiding templates for improved osteosarcoma resection. <i>Scientific Reports</i> , <b>2016</b> , 6, 23335	4.9	63
65	Directing the fate of human and mouse mesenchymal stem cells by hydroxyl-methyl mixed self-assembled monolayers with varying wettability. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 4794-4807	7.3	63
64	Symmetrically Substituted Xanthone Amphiphiles Combat Gram-Positive Bacterial Resistance with Enhanced Membrane Selectivity. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 1362-1378	8.3	55
63	Surface chemistry from wettability and charge for the control of mesenchymal stem cell fate through self-assembled monolayers. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 148, 549-556	6	50
62	miR-29b-Loaded Gold Nanoparticles Targeting to the Endoplasmic Reticulum for Synergistic Promotion of Osteogenic Differentiation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19217-27	9.5	48
61	Hierarchical porous hydroxyapatite microsphere as drug delivery carrier. <i>CrystEngComm</i> , <b>2013</b> , 15, 5760	3.3	48
60	3D-Plotted Beta-Tricalcium Phosphate Scaffolds with Smaller Pore Sizes Improve In Vivo Bone Regeneration and Biomechanical Properties in a Critical-Sized Calvarial Defect Rat Model. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1800441	10.1	43
59	The promotion of antimicrobial activity on silicon substrates using a "click" immobilized short peptide. <i>Chemical Communications</i> , <b>2014</b> , 50, 975-7	5.8	40
58	The synergistic antibacterial activity and mechanism of multicomponent metal ions-containing aqueous solutions against <i>Staphylococcus aureus</i> . <i>Journal of Inorganic Biochemistry</i> , <b>2016</b> , 163, 214-220	4.2	40
57	Immobilization of an antimicrobial peptide on silicon surface with stable activity by click chemistry. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 68-74	7.3	38
56	Integrating 3D Printing and Biomimetic Mineralization for Personalized Enhanced Osteogenesis, Angiogenesis, and Osteointegration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 42146-42154	9.5	37
55	Weak Hydrogen Bonds Lead to Self-Healable and Bioadhesive Hybrid Polymeric Hydrogels with Mineralization-Active Functions. <i>Biomacromolecules</i> , <b>2018</b> , 19, 1939-1949	6.9	30
54	Synthesis of calcium phosphate microcapsules using yeast-based biotemplate. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 626-630		29

53	Antimicrobial Hyaluronic Acid/Poly(amidoamine) Dendrimer Multilayer on Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) Prepared by a Layer-by-Layer Self-Assembly Method. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 13876-81	9.5	28
52	Performance and characterization of irradiated poly(vinyl alcohol)/polyvinylpyrrolidone composite hydrogels used as cartilages replacement. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 113, 736-741	2.9	27
51	In vivo and in vitro osteogenesis of stem cells induced by controlled release of drugs from microspherical scaffolds. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9140		26
50	Built-in microscale electrostatic fields induced by anatase-rutile-phase transition in selective areas promote osteogenesis. <i>NPG Asia Materials</i> , <b>2016</b> , 8,	10.3	26
49	In vitro osteogenesis of synovium mesenchymal cells induced by controlled release of alendronate and dexamethasone from a sintered microspherical scaffold. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2010</b> , 21, 1227-38	3.5	25
48	Effect of water state and polymer chain motion on the mechanical properties of a bacterial cellulose and polyvinyl alcohol (BC/PVA) hydrogel. <i>RSC Advances</i> , <b>2015</b> , 5, 25525-25531	3.7	24
47	Fusion peptide engineered "statically-versatile" titanium implant simultaneously enhancing anti-infection, vascularization and osseointegration. <i>Biomaterials</i> , <b>2021</b> , 264, 120446	15.6	22
46	Influence of Sintering Temperature on Pore Structure and Apatite Formation of a Sol-Gel-Derived Bioactive Glass. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 32-35	3.8	21
45	Temperature-Controlled Reversible Exposure and Hiding of Antimicrobial Peptides on an Implant for Killing Bacteria at Room Temperature and Improving Biocompatibility in Vivo. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 35830-35837	9.5	21
44	Morphology control of hydroxyapatite microcrystals: Synergistic effects of citrate and CTAB. <i>Materials Science and Engineering C</i> , <b>2016</b> , 62, 160-5	8.3	20
43	Two competitive nucleation mechanisms of calcium carbonate biomineralization in response to surface functionality in low calcium ion concentration solution. <i>International Journal of Energy Production and Management</i> , <b>2015</b> , 2, 187-95	5.3	19
42	Microstructure and properties of polycaprolactone/calcium sulfate particle and whisker composites. <i>Polymer Composites</i> , <b>2012</b> , 33, 501-508	3	17
41	Surface characterization of the chitosan membrane after oxygen plasma treatment and its aging effect. <i>Biomedical Materials (Bristol)</i> , <b>2009</b> , 4, 035003	3.5	17
40	Effective Spatial Separation of PC12 and NIH3T3 Cells by the Microgrooved Surface of Biocompatible Polymer Substrates. <i>Langmuir</i> , <b>2015</b> , 31, 6797-806	4	16
39	Fabrication of a hydroxyapatite-PDMS microfluidic chip for bone-related cell culture and drug screening. <i>Bioactive Materials</i> , <b>2021</b> , 6, 169-178	16.7	16
38	Improving the moisturizing properties of collagen film by surface grafting of chondroitin sulfate for corneal tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2016</b> , 27, 758-72	3.5	15
37	Superficially porous poly(lactic-co-glycolic acid)/calcium carbonate microsphere developed by spontaneous pore-forming method for bone repair. <i>RSC Advances</i> , <b>2013</b> , 3, 6871	3.7	15
36	In Situ Synthesis of Robust Conductive Cellulose/Polypyrrole Composite Aerogels and Their Potential Application in Nerve Regeneration. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 5484-5488	3.6	14

35	Recent Advances and the Application of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) as Tissue Engineering Materials. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2013</b> , 50, 885-893 <sup>2,2</sup>	14
34	Biomimetic Synthesis and Characterization of Hydroxyapatite Crystal with Low Phase Transformation Temperature. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 2735-2738	2.8 14
33	β-Cyclodextrin polyrotaxane monoaldehyde: a novel bio-crosslinker with high biocompatibility. <i>RSC Advances</i> , <b>2014</b> , 4, 18608-18611	3.7 12
32	Poly(lactide-co-glycolide)/titania composite microsphere-sintered scaffolds for bone tissue engineering applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2010</b> , 93, 84-92	3.5 12
31	Insight into vitronectin structural evolution on material surface chemistries: The mediation for cell adhesion. <i>Bioactive Materials</i> , <b>2020</b> , 5, 1044-1052	16.7 12
30	Hollow hydroxyapatite microsphere: a promising carrier for bone tissue engineering. <i>Journal of Microencapsulation</i> , <b>2016</b> , 33, 421-426	3.4 12
29	Ti nanorod arrays with a medium density significantly promote osteogenesis and osteointegration. <i>Scientific Reports</i> , <b>2016</b> , 6, 19047	4.9 12
28	The correlation between osteopontin adsorption and cell adhesion to mixed self-assembled monolayers of varying charges and wettability. <i>Biomaterials Science</i> , <b>2017</b> , 5, 800-807	7.4 11
27	Synthesis and Characterization of Novel Biodegradable Polyamides Containing α-Amino Acid. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2009</b> , 46, 312-320	2.2 11
26	Controlling the Integration of Polyvinylpyrrolidone onto Substrate by Quartz Crystal Microbalance with Dissipation To Achieve Excellent Protein Resistance and Detoxification. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18684-92	9.5 11
25	Enhanced osteogenic differentiation and biomineralization in mouse mesenchymal stromal cells on a β-TCP robocast scaffold modified with collagen nanofibers. <i>RSC Advances</i> , <b>2016</b> , 6, 23588-23598	3.7 10
24	Insight into Shape Control Mechanism of Calcium Phosphate Nanoparticles in Reverse Micelles Solution. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2005</b> , 35, 717-725	10
23	Mechanistic Insights and Rational Design of a Versatile Surface with Cells/Bacteria Recognition Capability via Orientated Fusion Peptides. <i>Advanced Science</i> , <b>2019</b> , 6, 1801827	13.6 9
22	Influence of Surrounding Cations on the Surface Degradation of Magnesium Alloy Implants under a Compressive Pressure. <i>Langmuir</i> , <b>2015</b> , 31, 13561-70	4 9
21	Crosslinking of collagen using a controlled molecular weight bio-crosslinker: β-cyclodextrin polyrotaxane multi-aldehydes. <i>RSC Advances</i> , <b>2015</b> , 5, 46088-46094	3.7 9
20	Engineering PLGA doped PCL microspheres with a layered architecture and an island-sea topography. <i>RSC Advances</i> , <b>2014</b> , 4, 9031	3.7 8
19	Thermoresponsive Self-Assembled β-Cyclodextrin-Modified Surface for Blood Purification. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 1083-1091	5.5 7
18	Synthesis and Drug Delivery Property of Calcium Phosphate Cement with Special Crystal Morphology. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 1241	3.8 7

17	A microarray platform designed for high-throughput screening the reaction conditions for the synthesis of micro/nanosized biomedical materials. <i>Bioactive Materials</i> , <b>2020</b> , 5, 286-296	16.7	6
16	Influence of a non-biodegradable porous structure on bone repair. <i>RSC Advances</i> , <b>2016</b> , 6, 80522-80528	3.7	6
15	Role of Ninth Type-III Domain of Fibronectin in the Mediation of Cell-Binding Domain Adsorption on Surfaces with Different Chemistries. <i>Langmuir</i> , <b>2018</b> , 34, 9847-9855	4	6
14	In vitro effects of differentially shaped hydroxyapatite microparticles on RAW264.7 cell responses. <i>RSC Advances</i> , <b>2014</b> , 4, 28615-28622	3.7	6
13	Porous Li-containing biphasic calcium phosphate scaffolds fabricated by three-dimensional plotting for bone repair. <i>RSC Advances</i> , <b>2017</b> , 7, 34508-34516	3.7	6
12	Bottom-up topography assembly into 3D porous scaffold to mediate cell activities. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2016</b> , 104, 1056-63	3.5	6
11	In Situ Formation of Hexagon-like Column Array Hydroxyapatite on 3D-Plotted Hydroxyapatite Scaffolds by Hydrothermal Method and Its Effect on Osteogenic Differentiation.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 1753-1760	4.1	5
10	Control of Crystallinity of Hydrated Products in a Calcium Phosphate Cement. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 949-951	3.8	5
9	Promotion of the immunomodulatory properties and osteogenic differentiation of adipose-derived mesenchymal stem cells in vitro by lentivirus-mediated mir-146a sponge expression. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2020</b> , 14, 1581-1591	4.4	5
8	Mechanistic insights into the adsorption and bioactivity of fibronectin on surfaces with varying chemistries by a combination of experimental strategies and molecular simulations. <i>Bioactive Materials</i> , <b>2021</b> , 6, 3125-3135	16.7	5
7	High-throughput screening and rational design of biofunctionalized surfaces with optimized biocompatibility and antimicrobial activity. <i>Nature Communications</i> , <b>2021</b> , 12, 3757	17.4	4
6	A novel glucosamine derivative with low cytotoxicity enhances chondrogenic differentiation of ATDC5. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2017</b> , 28, 170	4.5	3
5	Effects of cholic acid modified glucosamine on chondrogenic differentiation. <i>RSC Advances</i> , <b>2016</b> , 6, 69586-69594	3.7	3
4	Synthesis and Characterization of New Unsaturated Degradable Poly(ether ester amide)s Containing Ethylene Oxide Moieties. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2009</b> , 46, 282-289	2.2	2
3	Fabrication and characterization of a PAM modified PHBV/BG scaffold. <i>Science Bulletin</i> , <b>2009</b> , 54, 2940-2946		2
2	Improved Small Extracellular Vesicle Secretion of Rat Adipose-Derived Stem Cells by Microgrooved Substrates through Upregulation of the ESCRT-III-Associated Protein Alix. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100492	10.1	2
1	MicroRNA-activated hydrogel scaffold generated by 3D printing accelerates bone regeneration.. <i>Bioactive Materials</i> , <b>2022</b> , 10, 1-14	16.7	2