

# Yingjun Wang

## List of Publications by Year in descending order

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71  
papers

2,283  
citations

218381

26  
h-index

243296

44  
g-index

72  
all docs

72  
docs citations

72  
times ranked

3809  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2015, 28, 1815-1822.	1.7	217
2	3D Bioplotting 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> , 2016, 32, 889-900.	5.6	150
3	Copper-catalyzed click reaction on/in live cells. <i>Chemical Science</i> , 2017, 8, 2107-2114.	3.7	102
4	Integrating 3D Printing and Biomimetic Mineralization for Personalized Enhanced Osteogenesis, Angiogenesis, and Osteointegration. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42146-42154.	4.0	81
5	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> , 2018, 7, e1800441.	3.9	74
6	Improvement in hydrophilicity of PHBV films by plasma treatment. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 589-595.	2.1	73
7	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> , 2014, 2, 4794.	2.9	73
8	3D-printed guiding templates for improved osteosarcoma resection. <i>Scientific Reports</i> , 2016, 6, 23335.	1.6	73
9	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> , 2016, 148, 549-556.	2.5	71
10	The synergistic antibacterial activity and mechanism of multicomponent metal ions-containing aqueous solutions against <i>Staphylococcus aureus</i> . <i>Journal of Inorganic Biochemistry</i> , 2016, 163, 214-220.	1.5	68
11	Symmetrically Substituted Xanthone Amphiphiles Combat Gram-Positive Bacterial Resistance with Enhanced Membrane Selectivity. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 1362-1378.	2.9	68
12	miR-29b-Loaded Gold Nanoparticles Targeting to the Endoplasmic Reticulum for Synergistic Promotion of Osteogenic Differentiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19217-19227.	4.0	64
13	Immobilization of an antimicrobial peptide on silicon surface with stable activity by click chemistry. <i>Journal of Materials Chemistry B</i> , 2018, 6, 68-74.	2.9	54
14	Fusion peptide engineered electrostatically-versatile titanium implant simultaneously enhancing anti-infection, vascularization and osseointegration. <i>Biomaterials</i> , 2021, 264, 120446.	5.7	52
15	Hierarchical porous hydroxyapatite microsphere as drug delivery carrier. <i>CrystEngComm</i> , 2013, 15, 5760.	1.3	51
16	Weak Hydrogen Bonds Lead to Self-Healable and Bioadhesive Hybrid Polymeric Hydrogels with Mineralization-Active Functions. <i>Biomacromolecules</i> , 2018, 19, 1939-1949.	2.6	49
17	The promotion of antimicrobial activity on silicon substrates using a click-immobilized short peptide. <i>Chemical Communications</i> , 2014, 50, 975-977.	2.2	45
18	Built-in microscale electrostatic fields induced by anatase-rutile-phase transition in selective areas promote osteogenesis. <i>NPG Asia Materials</i> , 2016, 8, e243-e243.	3.8	41

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19	Fabrication of a hydroxyapatite-PDMS microfluidic chip for bone-related cell culture and drug screening. <i>Bioactive Materials</i> , 2021, 6, 169-178.	8.6	41
20	Nearly constant dielectric loss behavior in poly(3-hydroxybutyrate-co-3-hydroxyvalerate) biodegradable polyester. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	37
21	Synthesis of calcium phosphate microcapsules using yeast-based biotemplate. <i>Journal of Materials Chemistry</i> , 2012, 22, 626-630.	6.7	35
22	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> , 2018, 10, 35830-35837.	4.0	34
23	Performance and characterization of irradiated poly(vinyl alcohol)/polyvinylpyrrolidone composite hydrogels used as cartilages replacement. <i>Journal of Applied Polymer Science</i> , 2009, 113, 736-741.	1.3	31
24	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> , 2015, 7, 13876-13881.	4.0	29
25	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> , 2010, 21, 1227-1238.	1.9	28
26	In vivo and in vitro osteogenesis of stem cells induced by controlled release of drugs from microspherical scaffolds. <i>Journal of Materials Chemistry</i> , 2010, 20, 9140.	6.7	26
27	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> , 2015, 2, 187-195.	1.9	26
28	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> , 2015, 5, 25525-25531.	1.7	26
29	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> , 2016, 27, 758-772.	1.9	26
30	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> , 2010, 93, 32-35.	1.9	24
31	Morphology control of hydroxyapatite microcrystals: Synergistic effects of citrate and CTAB. <i>Materials Science and Engineering C</i> , 2016, 62, 160-165.	3.8	24
32	Insight into vitronectin structural evolution on material surface chemistries: The mediation for cell adhesion. <i>Bioactive Materials</i> , 2020, 5, 1044-1052.	8.6	21
33	High-throughput screening and rational design of biofunctionalized surfaces with optimized biocompatibility and antimicrobial activity. <i>Nature Communications</i> , 2021, 12, 3757.	5.8	20
34	Surface characterization of the chitosan membrane after oxygen plasma treatment and its aging effect. <i>Biomedical Materials (Bristol)</i> , 2009, 4, 035003.	1.7	19
35	Microstructure and properties of polycaprolactone/calcium sulfate particle and whisker composites. <i>Polymer Composites</i> , 2012, 33, 501-508.	2.3	18
36	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> , 2013, 50, 885-893.	1.2	18

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37	MicroRNA-activated hydrogel scaffold generated by 3D printing accelerates bone regeneration. <i>Bioactive Materials</i> , 2022, 10, 1-14.	8.6	18
38	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> , 2010, 93B, 84-92.	1.6	17
39	Effective Spatial Separation of PC12 and NIH3T3 Cells by the Microgrooved Surface of Biocompatible Polymer Substrates. <i>Langmuir</i> , 2015, 31, 6797-6806.	1.6	17
40	Biomimetic Synthesis and Characterization of Hydroxyapatite Crystal with Low Phase Transformation Temperature. <i>Journal of Chemical &amp; Engineering Data</i> , 2008, 53, 2735-2738.	1.0	16
41	Superficially porous poly(lactic-co-glycolic acid)/calcium carbonate microsphere developed by spontaneous pore-forming method for bone repair. <i>RSC Advances</i> , 2013, 3, 6871.	1.7	16
42	Crosslinking of collagen using a controlled molecular weight bio-crosslinker: $\beta$ -cyclodextrin polyrotaxane multi-aldehydes. <i>RSC Advances</i> , 2015, 5, 46088-46094.	1.7	16
43	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> , 2021, 6, 3125-3135.	8.6	16
44	Synthesis and Characterization of Novel Biodegradable Polyamides Containing $\alpha$ -amino Acid. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2009, 46, 312-320.	1.2	15
45	Hollow hydroxyapatite microsphere: a promising carrier for bone tissue engineering. <i>Journal of Microencapsulation</i> , 2016, 33, 421-426.	1.2	15
46	Ti nanorod arrays with a medium density significantly promote osteogenesis and osteointegration. <i>Scientific Reports</i> , 2016, 6, 19047.	1.6	15
47	$\beta$ -Cyclodextrin polyrotaxane monoaldehyde: a novel bio-crosslinker with high biocompatibility. <i>RSC Advances</i> , 2014, 4, 18608-18611.	1.7	14
48	Influence of Surrounding Cations on the Surface Degradation of Magnesium Alloy Implants under a Compressive Pressure. <i>Langmuir</i> , 2015, 31, 13561-13570.	1.6	14
49	Role of Ninth Type-III Domain of Fibronectin in the Mediation of Cell-Binding Domain Adsorption on Surfaces with Different Chemistries. <i>Langmuir</i> , 2018, 34, 9847-9855.	1.6	13
50	Synthesis and Drug Delivery Property of Calcium Phosphate Cement with Special Crystal Morphology. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1241-1244.	1.9	12
51	Engineering PLGA doped PCL microspheres with a layered architecture and an island-sea topography. <i>RSC Advances</i> , 2014, 4, 9031.	1.7	12
52	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> , 2016, 8, 18684-18692.	4.0	12
53	Enhanced osteogenic differentiation and biomineralization in mouse mesenchymal stromal cells on a $\beta$ -TCP robocast scaffold modified with collagen nanofibers. <i>RSC Advances</i> , 2016, 6, 23588-23598.	1.7	12
54	Improved Small Extracellular Vesicle Secretion of Rat Adipose-Derived Stem Cells by Microgrooved Substrates through Upregulation of the ESCRT-Associated Protein Alix. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100492.	3.9	12

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55	The correlation between osteopontin adsorption and cell adhesion to mixed self-assembled monolayers of varying charges and wettability. <i>Biomaterials Science</i> , 2017, 5, 800-807.	2.6	11
56	Mechanistic Insights and Rational Design of a Versatile Surface with Cells/Bacteria Recognition Capability via Orientated Fusion Peptides. <i>Advanced Science</i> , 2019, 6, 1801827.	5.6	11
57	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> , 2005, 35, 717-725.	0.6	10
58	A microarray platform designed for high-throughput screening the reaction conditions for the synthesis of micro/nanosized biomedical materials. <i>Bioactive Materials</i> , 2020, 5, 286-296.	8.6	10
59	Influence of a non-biodegradable porous structure on bone repair. <i>RSC Advances</i> , 2016, 6, 80522-80528.	1.7	9
60	Thermoresponsive Self-Assembled $\beta$ -Cyclodextrin-Modified Surface for Blood Purification. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1083-1091.	2.6	9
61	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> , 2020, 14, 1581-1591.	1.3	9
62	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> , 2020, 3, 1753-1760.	2.3	9
63	Bottom-up topography assembly into 3D porous scaffold to mediate cell activities. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1056-1063.	1.6	8
64	Porous Li-containing biphasic calcium phosphate scaffolds fabricated by three-dimensional plotting for bone repair. <i>RSC Advances</i> , 2017, 7, 34508-34516.	1.7	7
65	Control of Crystallinity of Hydrated Products in a Calcium Phosphate Cement. <i>Journal of the American Ceramic Society</i> , 2009, 92, 949-951.	1.9	6
66	In vitro effects of differentially shaped hydroxyapatite microparticles on RAW264.7 cell responses. <i>RSC Advances</i> , 2014, 4, 28615-28622.	1.7	6
67	A novel glucosamine derivative with low cytotoxicity enhances chondrogenic differentiation of ATDC5. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 170.	1.7	5
68	Effects of cholic acid modified glucosamine on chondrogenic differentiation. <i>RSC Advances</i> , 2016, 6, 69586-69594.	1.7	3
69	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> , 2009, 46, 282-289.	1.2	2
70	Fabrication and characterization of a PAM modified PHBV/BG scaffold. <i>Science Bulletin</i> , 2009, 54, 2940-2946.	1.7	2
71	A Microarray Screening Platform with an Experimental Conditions Gradient Generator for the High-Throughput Synthesis of Micro/Nanosized Calcium Phosphates. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3939.	1.8	0