

# Peng Li

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

5,463  
citations

101384

36  
h-index

91712

69  
g-index

70  
all docs

70  
docs citations

70  
times ranked

6450  
citing authors

#	ARTICLE	IF	CITATIONS
1	A polycationic antimicrobial and biocompatible hydrogel with microbe membrane suctioning ability. <i>Nature Materials</i> , 2011, 10, 149-156.	13.3	701
2	Antibacterial and conductive injectable hydrogels based on quaternized chitosan-graft-polyaniline/oxidized dextran for tissue engineering. <i>Acta Biomaterialia</i> , 2015, 26, 236-248.	4.1	453
3	Emerging photothermal-derived multimodal synergistic therapy in combating bacterial infections. <i>Chemical Society Reviews</i> , 2021, 50, 8762-8789.	18.7	337
4	Rejuvenated Photodynamic Therapy for Bacterial Infections. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900608.	3.9	252
5	Cationic Peptidopolysaccharides Show Excellent Broad-Spectrum Antimicrobial Activities and High Selectivity. <i>Advanced Materials</i> , 2012, 24, 4130-4137.	11.1	226
6	A photopolymerized antimicrobial hydrogel coating derived from epsilon-poly-L-lysine. <i>Biomaterials</i> , 2011, 32, 2704-2712.	5.7	216
7	An Environmentally Benign Antimicrobial Coating Based on a Protein Supramolecular Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 198-210.	4.0	167
8	High Potency and Broad-Spectrum Antimicrobial Peptides Synthesized via Ring-Opening Polymerization of L- $\alpha$ -Amino acid-N-carboxyanhydrides. <i>Biomacromolecules</i> , 2010, 11, 60-67.	2.6	155
9	Rationally designed dual functional block copolymers for bottlebrush-like coatings: In vitro and in vivo antimicrobial, antibiofilm, and antifouling properties. <i>Acta Biomaterialia</i> , 2017, 51, 112-124.	4.1	152
10	A Flexible Multimodal Sensor That Detects Strain, Humidity, Temperature, and Pressure with Carbon Black and Reduced Graphene Oxide Hierarchical Composite on Paper. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 40613-40619.	4.0	146
11	Dual-Functional Polyethylene Glycol-b-polyhexanide Surface Coating with in Vitro and in Vivo Antimicrobial and Antifouling Activities. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 10383-10397.	4.0	142
12	Antimicrobial functionalization of silicone surfaces with engineered short peptides having broad spectrum antimicrobial and salt-resistant properties. <i>Acta Biomaterialia</i> , 2014, 10, 258-266.	4.1	134
13	Ultra-Sensitive, Deformable, and Transparent Triboelectric Tactile Sensor Based on Micro-Pyramid Patterned Ionic Hydrogel for Interactive Human-Machine Interfaces. <i>Advanced Science</i> , 2022, 9, e2104168.	5.6	123
14	Functionalized scaffolds to enhance tissue regeneration. <i>International Journal of Energy Production and Management</i> , 2015, 2, 47-57.	1.9	115
15	Nitric Oxide-Releasing Polymeric Materials for Antimicrobial Applications: A Review. <i>Antioxidants</i> , 2019, 8, 556.	2.2	99
16	Antimicrobial macromolecules: synthesis methods and future applications. <i>RSC Advances</i> , 2012, 2, 4031.	1.7	96
17	High-Performance Capacitive Deionization Disinfection of Water with Graphene Oxide-graft-Quaternized Chitosan Nanohybrid Electrode Coating. <i>ACS Nano</i> , 2015, 9, 10142-57.	7.3	95
18	Methacrylate-ended polypeptides and polypeptoids for antimicrobial and antifouling coatings. <i>Polymer Chemistry</i> , 2017, 8, 6386-6397.	1.9	89

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19	Cationic peptidopolysaccharides synthesized by "click"™ chemistry with enhanced broad-spectrum antimicrobial activities. <i>Polymer Chemistry</i> , 2017, 8, 3788-3800.	1.9	88
20	Autoclavingâ€Derived Surface Coating with In Vitro and In Vivo Antimicrobial and Antibiofilm Efficacies. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601173.	3.9	82
21	Bio-inspired redox-cycling antimicrobial film for sustained generation of reactive oxygen species. <i>Biomaterials</i> , 2018, 162, 109-122.	5.7	72
22	A multifunctional shape-adaptive and biodegradable hydrogel with hemorrhage control and broad-spectrum antimicrobial activity for wound healing. <i>Biomaterials Science</i> , 2020, 8, 6930-6945.	2.6	70
23	Design and Synthesis of Biocompatible, Hemocompatible, and Highly Selective Antimicrobial Cationic Peptidopolysaccharides via Click Chemistry. <i>Biomacromolecules</i> , 2019, 20, 2230-2240.	2.6	69
24	Antibacterial and hydroxyapatite-forming coating for biomedical implants based on polypeptide-functionalized titania nanospikes. <i>Biomaterials Science</i> , 2020, 8, 278-289.	2.6	65
25	Novel short antibacterial and antifungal peptides with low cytotoxicity: Efficacy and action mechanisms. <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 594-600.	1.0	64
26	Mussel-Inspired Hydrogel with Potent <i>In Vivo</i> Contact-Active Antimicrobial and Wound Healing Promoting Activities. <i>ACS Applied Bio Materials</i> , 2019, 2, 3329-3340.	2.3	58
27	Antimicrobial Effect of a Novel Chitosan Derivative and Its Synergistic Effect with Antibiotics. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 3237-3245.	4.0	57
28	Hydrogel Effects Rapid Biofilm Debridement with ex situ Contact-Kill to Eliminate Multidrug Resistant Bacteria in vivo. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 20356-20367.	4.0	51
29	Flexible, Degradable, and Cost-Effective Strain Sensor Fabricated by a Scalable Papermaking Procedure. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15749-15755.	3.2	48
30	Targeted polymer-based antibiotic delivery system: A promising option for treating bacterial infections via macromolecular approaches. <i>Progress in Polymer Science</i> , 2021, 116, 101389.	11.8	48
31	Antimicrobial Peptides and Macromolecules for Combating Microbial Infections: From Agents to Interfaces. <i>ACS Applied Bio Materials</i> , 2022, 5, 366-393.	2.3	48
32	Flexible and Degradable Multimodal Sensor Fabricated by Transferring Laser-Induced Porous Carbon on Starch Film. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 527-533.	3.2	45
33	Initiated Chemical Vapor Deposition of Graded Polymer Coatings Enabling Antibacterial, Antifouling, and Biocompatible Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 18978-18986.	4.0	45
34	One-step vapor deposition of fluorinated polycationic coating to fabricate antifouling and anti-infective textile against drug-resistant bacteria and viruses. <i>Chemical Engineering Journal</i> , 2021, 418, 129368.	6.6	43
35	Musselâ€Inspired, Surfaceâ€Attachable Initiator for Grafting of Antimicrobial and Antifouling Hydrogels. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900268.	2.0	42
36	Precisely Structured Nitric-Oxide-Releasing Copolymer Brush Defeats Broad-Spectrum Catheter-Associated Biofilm Infections <i>In Vivo</i> . <i>ACS Central Science</i> , 2020, 6, 2031-2045.	5.3	41

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37	Povidone-iodine-functionalized fluorinated copolymers with dual-functional antibacterial and antifouling activities. <i>Biomaterials Science</i> , 2019, 7, 3334-3347.	2.6	39
38	Single-step fabrication of catechol- $\mu$ -poly-L-lysine antimicrobial paint that prevents superbug infection and promotes osteoconductivity of titanium implants. <i>Chemical Engineering Journal</i> , 2020, 396, 125240.	6.6	36
39	Photoactivatable Nitric Oxide-Releasing Gold Nanocages for Enhanced Hyperthermia Treatment of Biofilm-Associated Infections. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50668-50681.	4.0	36
40	Intelligent polymeric hydrogen sulfide delivery systems for therapeutic applications. <i>Bioactive Materials</i> , 2023, 19, 198-216.	8.6	34
41	Engineering poly(ionic liquid) semi-IPN hydrogels with fast antibacterial and anti-inflammatory properties for wound healing. <i>Chemical Engineering Journal</i> , 2021, 413, 127429.	6.6	33
42	Catechol cross-linked antimicrobial peptide hydrogels prevent multidrug-resistant <i>Acinetobacter baumannii</i> infection in burn wounds. <i>Bioscience Reports</i> , 2019, 39, .	1.1	31
43	Rapid inactivation of multidrug-resistant bacteria and enhancement of osteoinduction via titania nanotubes grafted with polyguanidines. <i>Journal of Materials Science and Technology</i> , 2021, 69, 188-199.	5.6	31
44	Lysozymes in Fish. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 15039-15051.	2.4	31
45	Electrofabrication of functional materials: Chloramine-based antimicrobial film for infectious wound treatment. <i>Acta Biomaterialia</i> , 2018, 73, 190-203.	4.1	30
46	Hydrogel-based flexible materials for diabetes diagnosis, treatment, and management. <i>Npj Flexible Electronics</i> , 2021, 5, .	5.1	30
47	Synthesis of sandwich-structured silver@polydopamine@silver shells with enhanced antibacterial activities. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 47-54.	5.0	28
48	Recent Insights into Emerging Coronavirus: SARS-CoV-2. <i>ACS Infectious Diseases</i> , 2021, 7, 1369-1388.	1.8	27
49	General One-Pot Method for Preparing Highly Water-Soluble and Biocompatible Photoinitiators for Digital Light Processing-Based 3D Printing of Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 55507-55516.	4.0	27
50	Theranostic platforms for specific discrimination and selective killing of bacteria. <i>Acta Biomaterialia</i> , 2021, 125, 29-40.	4.1	26
51	Stable and self-healable LbL coating with antibiofilm efficacy based on alkylated polyethyleneimine micelles. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3865-3875.	2.9	25
52	An Electroluminodynamic Flexible Device for Highly Efficient Eradication of Drug-Resistant Bacteria. <i>Advanced Materials</i> , 2022, 34, e2200334.	11.1	25
53	Metal ions $\text{sewing}^{\text{TM}}$ isoporous membranes with polystyrene-block-poly (acrylic acid) block copolymer. <i>Journal of Membrane Science</i> , 2019, 587, 117086.	4.1	24
54	Motion Detecting, Temperature Alarming, and Wireless Wearable Bioelectronics Based on Intrinsically Antibacterial Conductive Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 14596-14606.	4.0	24

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55	Argon-Plasma-Induced Ultrathin Thermal Grafting of Thermoresponsive pNIPAm Coating for Contractile Patterned Human SMC Sheet Engineering. <i>Macromolecular Bioscience</i> , 2012, 12, 937-945.	2.1	23
56	Finely Dispersed Single-Walled Carbon Nanotubes for Polysaccharide Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 4610-4615.	4.0	22
57	Titanium dioxide nanotubes as drug carriers for infection control and osteogenesis of bone implants. <i>Drug Delivery and Translational Research</i> , 2021, 11, 1456-1474.	3.0	22
58	Biocompatible metal-free organic phosphorescent nanoparticles for efficiently multidrug-resistant bacteria eradication. <i>Science China Materials</i> , 2020, 63, 316-324.	3.5	20
59	Simultaneous Efficient Decontamination of Bacteria and Heavy Metals via Capacitive Deionization Using Polydopamine/Polyhexamethylene Guanidine Co-deposited Activated Carbon Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 61669-61680.	4.0	16
60	The Strategies of Pathogen-Oriented Therapy on Circumventing Antimicrobial Resistance. <i>Research</i> , 2020, 2020, 2016201.	2.8	14
61	Selective inactivation of Gram-positive bacteria in vitro and in vivo through metabolic labelling. <i>Science China Materials</i> , 2022, 65, 237-245.	3.5	13
62	Multifunctional CuO-Coated Mesh for Wastewater Treatment: Effective Oil/Water Separation, Organic Contaminants Photodegradation, and Bacterial Photodynamic Inactivation. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101179.	1.9	11
63	Free radical nano scavenger based on amphiphilic novolacs. <i>RSC Advances</i> , 2015, 5, 95666-95673.	1.7	6
64	Multifunctional Magnetic Porous Microspheres for Highly Efficient and Recyclable Water Disinfection and Dye Removal. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1576-1585.	2.0	5
65	Biomass-Templated Fabrication of Metallic Materials for Photocatalytic and Bactericidal Applications. <i>Materials</i> , 2019, 12, 1271.	1.3	4
66	Nanoagent-based theranostic strategies against human coronaviruses. <i>Nano Research</i> , 2022, 15, 1-15.	5.8	4
67	Core-Cross-Linking of Polymeric Micelles by Di-Substituted S-Aroylthiooximes as Linkers for Controlled H <sub>2</sub> S Release. <i>ACS Macro Letters</i> , 2022, 11, 622-629.	2.3	3
68	Perspectives on Biomaterial-Associated Infection: Pathogenesis and Current Clinical Demands. , 2020, , 75-93.		1