## Bingyun Li

## List of Publications by Year in descending order

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41323 54882 8,024 132 49 84 citations h-index g-index papers 137 137 137 12397 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Layer-by-Layer Cell Encapsulation for Drug Delivery: The History, Technique Basis, and Applications. Pharmaceutics, 2022, 14, 297.	2.0	15
2	Innovative cycling reaction mechanisms of CO2 absorption in amino acid salt solvents. Chemical Engineering Journal Advances, 2022, 10, 100250.	2.4	5
3	Gelation of highly entangled hydrophobic macromolecular fluid for ultrastrong underwater in situ fast tissue adhesion. Science Advances, 2022, 8, .	4.7	31
4	A 3D chemotactic-thermo-promo bacterial hunting system: Programmatic bacterial attract, capture, killing and healing the wound. Chemical Engineering Journal, 2021, 417, 128123.	6.6	15
5	Effect of fenofibrate on proliferation of SMMC-7721 cells via regulating cell cycle. Human and Experimental Toxicology, 2021, 40, 1208-1221.	1.1	4
6	Programmed Multidrug Delivery Based on Bio-Inspired Capsule-Integrated Nanocoatings for Infected Bone Defect Treatment. ACS Applied Materials & Samp; Interfaces, 2021, 13, 12454-12462.	4.0	14
7	Carbon Dioxide Conversion to Nanomaterials: Methods, Applications, and Challenges. Energy & Camp; Fuels, 2021, 35, 11820-11834.	2.5	19
8	Injectable and conductive cardiac patches repair infarcted myocardium in rats and minipigs. Nature Biomedical Engineering, 2021, 5, 1157-1173.	11.6	89
9	Multi-functional flexible 2D carbon nanostructured networks. Nature Communications, 2020, 11, 5134.	5.8	55
10	Editorial: Antimicrobials and Anticancers of Bacterial Origins. Frontiers in Microbiology, 2020, 11, 842.	1.5	4
11	Pineconeâ€Inspired Nanoarchitectured Smart Microcages Enable Nano/Microparticle Drug Delivery. Advanced Functional Materials, 2020, 30, 2002434.	7.8	25
12	Characterization and Application of Carboxymethyl Chitosan-Based Bioink in Cartilage Tissue Engineering. Journal of Nanomaterials, 2020, 2020, 1-11.	1.5	33
13	Nanoparticle-based photodynamic therapy: new trends in wound healing applications. Materials Today Advances, 2020, 6, 100049.	2.5	26
14	Mussel-Inspired Autonomously Self-Healable All-in-One Supercapacitor with Biocompatible Hydrogel. ACS Sustainable Chemistry and Engineering, 2020, 8, 6935-6948.	3.2	41
15	Insights into the Emergence, Clinical Prevalence, and Significance of Staphylococcus aureus Small Colony Variants., 2020,, 189-211.		O
16	Carbon Nanotubes: Their Antimicrobial Properties and Applications in Bone Tissue Regeneration. , 2020, , 207-222.		1
17	Tough but self-healing and 3D printable hydrogels for E-skin, E-noses and laser controlled actuators. Journal of Materials Chemistry A, 2019, 7, 24814-24829.	5.2	76
18	Hydrogels from natural egg white with extraordinary stretchability, direct-writing 3D printability and self-healing for fabrication of electronic sensors and actuators. Journal of Materials Chemistry A, 2019, 7, 24626-24640.	5 <b>.</b> 2	68

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19	Recent advances in musculoskeletal local drug delivery. Acta Biomaterialia, 2019, 93, 135-151.	4.1	22
20	Antimicrobial peptide LL-37 is bactericidal against Staphylococcus aureus biofilms. PLoS ONE, 2019, 14, e0216676.	1.1	71
21	An Eco-Friendly, Nanocellulose/RGO/in Situ Formed Polyaniline for Flexible and Free-Standing Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 4766-4776.	3.2	66
22	Silver nanoparticles present high intracellular and extracellular killing against Staphylococcus aureus. Journal of Antimicrobial Chemotherapy, 2019, 74, 1578-1585.	1.3	39
23	An Injectable Conductive Three-Dimensional Elastic Network by Tangled Surgical-Suture Spring for Heart Repair. ACS Nano, 2019, 13, 14122-14137.	7.3	47
24	Pulp Stem Cell–Mediated Functional Pulp Regeneration. Journal of Dental Research, 2019, 98, 27-35.	2.5	92
25	Biomedical Applications of Layerâ€byâ€Layer Selfâ€Assembly for Cell Encapsulation: Current Status and Future Perspectives. Advanced Healthcare Materials, 2019, 8, e1800939.	3.9	93
26	Bacteria antibiotic resistance: New challenges and opportunities for implantâ€associated orthopedic infections. Journal of Orthopaedic Research, 2018, 36, 22-32.	1.2	621
27	Hydrogen bonds autonomously powered gelatin methacrylate hydrogels with super-elasticity, self-heal and underwater self-adhesion for sutureless skin and stomach surgery and E-skin. Biomaterials, 2018, 171, 83-96.	5.7	227
28	Comparison of Einstein-Boltzmann solvers for testing general relativity. Physical Review D, 2018, 97, .	1.6	44
29	Capsule-Integrated Polypeptide Multilayer Films for Effective pH-Responsive Multiple Drug Co-Delivery. ACS Applied Materials & Drug Co-Delivery. ACS Applied Materials & Drug Co-Delivery.	4.0	19
30	Review: Selecting for improved feed efficiency and reduced methane emissions in dairy cattle. Animal, 2018, 12, s336-s349.	1.3	81
31	Evaluation of current United States swine selection indexes and indexes designed for Chinese pork production. The Professional Animal Scientist, 2018, 34, 474-487.	0.7	6
32	Halotolerant bacteria belonging to operational group <i>Bacillus amyloliquefaciens</i> in biocontrol of the rice brown stripe pathogen <i>Acidovorax oryzae</i> Journal of Applied Microbiology, 2018, 125, 1852-1867.	1.4	26
33	CharacterizationÂandÂfunctionalÂanalysisÂofÂ <i>hsp21.8b</i> : An orthologous smallÂheatÂshock protein geneÂinÂ <i>TriboliumÂcastaneum</i> : Journal of Applied Entomology, 2018, 142, 654-666.	0.8	10
34	Biomimetic Layer-by-Layer Self-Assembly of Nanofilms, Nanocoatings, and 3D Scaffolds for Tissue Engineering. International Journal of Molecular Sciences, 2018, 19, 1641.	1.8	62
35	Mussel-Inspired Multifunctional Hydrogel Coating for Prevention of Infections and Enhanced Osteogenesis. ACS Applied Materials & Samp; Interfaces, 2017, 9, 11428-11439.	4.0	193
36	Genetic analysis of <i>Phytophthora sojae</i> populations in Fujian,ÂChina. Plant Pathology, 2017, 66, 1182-1190.	1.2	18

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37	Overview of recent HL-2A experiments. Nuclear Fusion, 2017, 57, 102013.	1.6	26
38	Toxicity and oxidative stress responses induced by nano- and micro-CoCrMo particles. Journal of Materials Chemistry B, 2017, 5, 5648-5657.	2.9	7
39	Evaluation of paeonol-loaded transethosomes as transdermal delivery carriers. European Journal of Pharmaceutical Sciences, 2017, 99, 240-245.	1.9	76
40	Dual-functional lipid-like nanoparticles for delivery of mRNA and MRI contrast agents. Nanoscale, 2017, 9, 1575-1579.	2.8	23
41	Neglect of lactation stage leads to naive assessment of residual feed intake in dairy cattle. Journal of Dairy Science, 2017, 100, 9076-9084.	1.4	48
42	Egg Albumen as a Fast and Strong Medical Adhesive Glue. Advanced Healthcare Materials, 2017, 6, 1700132.	3.9	26
43	Seeking Convergence to advance Biomaterials Science and Translation by Chinese Association for Biomaterials. Bioactive Materials, 2017, 2, 281-286.	8.6	0
44	Fundamental limitations of existing models and future solutions for dielectric reliability and RRAM applications (invited). , 2017, , .		4
45	Orthopedic Applications of Silver and Silver Nanoparticles. , 2017, , 63-83.		1
46	Peptides as Orthopedic Biomaterials., 2017,, 247-271.		0
47	Combination of LINE-1 hypomethylation and RASSF1A promoter hypermethylation in serum DNA is a non-invasion prognostic biomarker for early recurrence of hepatocellular carcinoma after curative resection. Neoplasma, 2017, 64, 795-802.	0.7	24
48	Nanotoxicity: emerging concerns regarding nanomaterial safety and occupational hard metal (WC-Co) nanoparticle exposure. International Journal of Nanomedicine, 2016, Volume 11, 6421-6433.	3.3	57
49	In vitro inflammatory effects of hard metal (WC–Co) nanoparticle exposure. International Journal of Nanomedicine, 2016, Volume 11, 6195-6206.	3.3	16
50	Histological outcomes of sinus augmentation for dental implants with calcium phosphate or deproteinized bovine bone: a systematic review and meta-analysis. International Journal of Oral and Maxillofacial Surgery, 2016, 45, 1471-1477.	0.7	23
51	Nanomaterials promise better bone repair. Materials Today, 2016, 19, 451-463.	8.3	99
52	$\hat{V^{3}9}\hat{V^{2}}$ T cells and zoledronate mediate antitumor activity in an orthotopic mouse model of human chondrosarcoma. Tumor Biology, 2016, 37, 7333-7344.	0.8	8
53	Capacity Fade Analysis of Sulfur Cathodes in Lithium–Sulfur Batteries. Advanced Science, 2016, 3, 1600101.	5.6	213
54	Phase change amino acid salt separates into CO2-rich and CO2-lean phases upon interacting with CO2. Applied Energy, 2016, 161, 41-47.	5.1	77

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55	Nanoparticles targeting to osteoblasts for potential intracellular pathogen elimination. Journal of Controlled Release, 2015, 213, e10-e11.	4.8	1
56	Phase-Change Solvents for CO2 Capture. , 2015, , 3-22.		8
57	Tungsten Carbide-Cobalt Nanoparticles Induce Reactive Oxygen Species, AKT, ERK, AP-1, NF-κB, VEGF, and Angiogenesis. Biological Trace Element Research, 2015, 166, 57-65.	1.9	31
58	Nano-porous sulfur–polyaniline electrodes for lithium–sulfurbatteries. Nano Energy, 2015, 18, 245-252.	8.2	75
59	Myricetin inhibits proliferation of cisplatin-resistant cancer cells through a p53-dependent apoptotic pathway. International Journal of Oncology, 2015, 47, 1494-1502.	1.4	52
60	Aligning 3D nanofibrous networks from self-assembled phenylalanine nanofibers. RSC Advances, 2015, 5, 8022-8027.	1.7	10
61	Nuclear Magnetic Resonance Studies of CO <sub>2</sub> Absorption and Desorption in Aqueous Sodium Salt of Alanine. Energy & Sodium Salt of Alanine.	2.5	20
62	Long-Life, High-Efficiency Lithium–Sulfur Battery from a Nanoassembled Cathode. Chemistry of Materials, 2015, 27, 5080-5087.	3.2	56
63	Nano-assembled Na2FePO4F/carbon nanotube multi-layered cathodes for Na-ion batteries. Electrochemistry Communications, 2015, 56, 46-50.	2.3	47
64	Electronic Structure, Phonon Dynamical Properties, andCO2Capture Capability ofNa2â^xMxZrO3(M=Li,K): Density-Functional Calculations and Experimental Validations. Physical Review Applied, 2015, 3, .	1.5	20
65	Long-life, high-efficiency lithium/sulfur batteries from sulfurized carbon nanotube cathodes. Journal of Materials Chemistry A, 2015, 3, 10127-10133.	5.2	59
66	High-Performance Lithium–Sulfur Batteries with a Cost-Effective Carbon Paper Electrode and High Sulfur-Loading. Chemistry of Materials, 2015, 27, 6394-6401.	3.2	73
67	Acute Inflammatory Responses of Nanoparticles in an Intra-Tracheal Instillation Rat Model. PLoS ONE, 2015, 10, e0118778.	1.1	19
68	Innovative Sulfur-Carbon Nanotube Cathodes for High-Performance Li/S Batteries. ECS Meeting Abstracts, 2015, , .	0.0	2
69	Electrospun Nanofibrous Sorbents and Membranes for Carbon Dioxide Capture. Nanostructure Science and Technology, 2014, , 249-263.	0.1	3
70	Exploring the potential role of tungsten carbide cobalt (WC-Co) nanoparticle internalization in observed toxicity toward lung epithelial cells in vitro. Toxicology and Applied Pharmacology, 2014, 278, 1-8.	1.3	40
71	Regulation of autophagy by miR-30d impacts sensitivity of anaplastic thyroid carcinoma to cisplatin. Biochemical Pharmacology, 2014, 87, 562-570.	2.0	77
72	Recent progress in Li-rich layered oxides as cathode materials for Li-ion batteries. RSC Advances, 2014, 4, 63268-63284.	1.7	167

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73	Differential responses of osteoblasts and macrophages upon Staphylococcus aureus infection. BMC Microbiology, 2014, 14, 207.	1.3	63
74	ab initio Thermodynamic Study of the CO2 Capture Properties of M2CO3 (M = Na, K)- and CaCO3-Promoted MgO Sorbents Towards Forming Double Salts. Aerosol and Air Quality Research, 2014, 14, 470-479.	0.9	50
75	Development of Lithium Sulfur Batteries with Improved Cycle Life and High-Power Properties. ECS Meeting Abstracts, 2014, , .	0.0	2
76	Biomimetic electrospun nanofibrous structures for tissue engineering. Materials Today, 2013, 16, 229-241.	8.3	645
77	Unique Antimicrobial Effects of Plateletâ€Rich Plasma and Its Efficacy as a Prophylaxis to Prevent Implantâ€Associated Spinal Infection. Advanced Healthcare Materials, 2013, 2, 1277-1284.	3.9	39
78	Amino Acid-Functionalized Ionic Liquid Solid Sorbents for Post-Combustion Carbon Capture. ACS Applied Materials & District Sciences, 2013, 5, 8670-8677.	4.0	107
79	CO2 capture properties of lithium silicates with different ratios of Li2O/SiO2: an ab initio thermodynamic and experimental approach. Physical Chemistry Chemical Physics, 2013, 15, 13538.	1.3	100
80	Immobilization of amino acid ionic liquids into nanoporous microspheres as robust sorbents for CO2 capture. Journal of Materials Chemistry A, 2013, 1, 2978.	5.2	104
81	Polyelectrolyte capsules packaging BSA gels for pH-controlled drug loading and release and their antitumor activity. Acta Biomaterialia, 2013, 9, 6123-6133.	4.1	52
82	Development of amino acid and amino acid-complex based solid sorbents for CO2 capture. Applied Energy, 2013, 109, 112-118.	5.1	57
83	Advances in CO2 capture technology: A patent review. Applied Energy, 2013, 102, 1439-1447.	5.1	540
84	Chaetoglobosin K inhibits tumor angiogenesis through downregulation of vascular epithelial growth factor-binding hypoxia-inducible factor $1\hat{l}_{\pm}$ . Anti-Cancer Drugs, 2013, 24, 715-724.	0.7	25
85	Cationic Antimicrobial Peptide LL-37 Is Effective against both Extra- and Intracellular Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2013, 57, 1283-1290.	1.4	100
86	Bunyamwera virus possesses a distinct nucleocapsid protein to facilitate genome encapsidation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9048-9053.	3.3	52
87	PRP as a New Approach to Prevent Infection: Preparation and <em>In vitro</em> Antimicrobial Properties of PRP. Journal of Visualized Experiments, 2013, , .	0.2	20
88	Intra-cellular Staphylococcus aureus alone causes infection in vivo., 2013, 25, 341-350.		41
89	Kaempferol nanoparticles achieve strong and selective inhibition of ovarian cancer cell viability. International Journal of Nanomedicine, 2012, 7, 3951.	3.3	57
90	Ab Initio Thermodynamic Study of the CO2Capture Properties of Potassium Carbonate Sesquihydrate, K2CO3Â $\cdot$ 1.5H2O. Journal of Physical Chemistry C, 2012, 116, 14461-14470.	1.5	36

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91	Additive effects of exogenous ILâ€12 supplementation and antibiotic treatment in infection prophylaxis. Journal of Orthopaedic Research, 2012, 30, 196-202.	1.2	23
92	Innovative nano-layered solid sorbents for CO2capture. Chemical Communications, 2011, 47, 1719-1721.	2.2	57
93	Performance of amine-multilayered solid sorbents for CO2 removal: Effect of fabrication variables. International Journal of Greenhouse Gas Control, 2011, 5, 1170-1175.	2.3	31
94	Emerging Ideas: Interleukin-12 Nanocoatings Prevent Open Fracture-associated Infections. Clinical Orthopaedics and Related Research, 2011, 469, 3262-3265.	0.7	12
95	Nanomedicine as an emerging approach against intracellular pathogens. International Journal of Nanomedicine, 2011, 6, 3281.	3.3	90
96	Nanoencapsulating living biological cells using electrostatic layer-by-layer self-assembly: Platelets as a model. Journal of Materials Research, 2011, 26, 347-351.	1.2	19
97	Evaluation of local MCPâ€1 and ILâ€12 nanocoatings for infection prevention in open fractures. Journal of Orthopaedic Research, 2010, 28, 48-54.	1.2	57
98	Cefazolin embedded biodegradable polypeptide nanofilms promising for infection prevention: A preliminary study on cell responses. Journal of Orthopaedic Research, 2010, 28, 992-999.	1.2	30
99	Polypeptide Multilayer Film Co-Delivers Oppositely-Charged Drug Molecules in Sustained Manners. Biomacromolecules, 2010, 11, 3630-3637.	2.6	27
100	Interleukin 12 a Key Immunoregulatory Cytokine in Infection Applications. International Journal of Molecular Sciences, 2010, 11, 789-806.	1.8	259
101	Advances in polyelectrolyte multilayer nanofilms as tunable drug delivery systems. Nanotechnology, Science and Applications, 2009, Volume 2, 21-27.	4.6	36
102	Tunable drug loading and release from polypeptide multilayer nanofilms. International Journal of Nanomedicine, 2009, 4, 37.	3.3	41
103	Polypeptide nanocoatings for preventing dental and orthopaedic deviceâ€associated infection: pHâ€induced antibiotic capture, release, and antibiotic efficacy. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 88B, 332-338.	1.6	26
104	Multilayer polypeptide nanoscale coatings incorporating IL-12 for the prevention of biomedical device-associated infections. Biomaterials, 2009, 30, 2552-2558.	5.7	91
105	pH-controlled drug loading and release from biodegradable microcapsules. Nanomedicine: Nanotechnology, Biology, and Medicine, 2008, 4, 302-310.	1.7	102
106	Biomimetic nanocoating promotes osteoblast cell adhesion on biomedical implants. Journal of Materials Research, 2008, 23, 3222-3228.	1.2	30
107	Structural Stability of Polypeptide Nanofilms under Extreme Conditions. Biotechnology Progress, 2006, 22, 111-117.	1.3	22
108	Fine Tuning of Physical Properties of Designed Polypeptide Multilayer Films by Control of pH. Biotechnology Progress, 2006, 22, 126-132.	1.3	22

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109	Control of stability of polypeptide multilayer nanofilms by quantitative control of disulfide bond formation. Nanotechnology, 2006, 17, 5726-5734.	1.3	9
110	Perturbation of Nanoscale Structure of Polypeptide Multilayer Thin Films. Langmuir, 2005, 21, 5439-5445.	1.6	24
111	Biomimetic Nanostructured Materials:Â Inherent Reversible Stabilization of Polypeptide Microcapsules. Langmuir, 2005, 21, 1136-1138.	1.6	80
112	Nanoscale Biomimetics: Fabrication and Optimization of Stability of Peptide-Based Thin Films. Journal of Nanoscience and Nanotechnology, 2005, 5, 2042-2049.	0.9	26
113	Delaying Acute Graft-Versus-Host Disease in Mouse Bone Marrow Transplantation by Treating Donor Cells with Antibodies Directed at I-Selectin and alpha4-Integrin Prior to Infusion. Scandinavian Journal of Immunology, 2004, 59, 464-468.	1.3	21
114	Multilayer Biomimetics:Â Reversible Covalent Stabilization of a Nanostructured Biofilm. Biomacromolecules, 2004, 5, 1667-1670.	2.6	73
115	Combustion synthesis of CoCrMo orthopedic implant alloys: microstructure and properties. Materials Research Innovations, 2003, 7, 245-252.	1.0	13
116	Deoxycholate-Based Method to Screen Phage Display Clones for Uninterrupted Open Reading Frames. BioTechniques, 2002, 33, 294-296.	0.8	3
117	Novel Synthesis of Orthopaedic Implant Materials. Advanced Engineering Materials, 2002, 4, 482-487.	1.6	10
118	Electric resistance phenomena in porous Ni-Ti shape-memory alloys produced by SHS. Scripta Materialia, 2001, 44, 823-827.	2.6	35
119	Human Sex Reversal Due to Impaired Nuclear Localization of SRY. Journal of Biological Chemistry, 2001, 276, 46480-46484.	1.6	65
120	Blocking L-selectin and alpha4-integrin changes donor cell homing pattern and ameliorates murine acute graft versus host disease. European Journal of Immunology, 2001, 31, 617-24.	1.6	11
121	Lyophilization of Cationic Lipid–protamine–DNA (LPD) Complexes. , 2000, 89, 355-364.		113
122	Synthesis of porous Ni–Ti shape-memory alloys by self-propagating high-temperature synthesis: reaction mechanism and anisotropy in pore structure. Acta Materialia, 2000, 48, 3895-3904.	3.8	264
123	An investigation of the synthesis of Ti-50 At. pct Ni alloys through combustion synthesis and conventional powder sintering. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2000, 31, 1867-1871.	1.1	30
124	Fabrication of cellular NiTi intermetallic compounds. Journal of Materials Research, 2000, 15, 10-13.	1.2	46
125	A recent development in producing porous Ni–Ti shape memory alloys. Intermetallics, 2000, 8, 881-884.	1.8	98
126	Microstructure and superelasticity of porous NiTi alloy. Science in China Series D: Earth Sciences, 1999, 42, 94-99.	0.9	26

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127	Transformation behavior of sintered porous NiTi alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 2753-2756.	1.1	20
128	Ceramide Inhibits L-Type Calcium Channel Currents in Rat Pinealocytes. Endocrinology, 1999, 140, 5682-5690.	1.4	8
129	Porous NiTi alloy prepared from elemental powder sintering. Journal of Materials Research, 1998, 13, 2847-2851.	1.2	106
130	24,25(OH)2 Vitamin D3 modulates the L-type Ca2+ channel current in UMR 106 cells: involvement of protein kinase A and protein kinase C. Cell Calcium, 1996, 19, 193-200.	1.1	16
131	Disease-specific changes in gammadelta T cell repertoire and function in patients with pulmonary tuberculosis. Journal of Immunology, 1996, 157, 4222-9.	0.4	97
132	Emerging New Types of Absorbents for Postcombustion Carbon Capture. , 0, , .		3