

# Lei Nie

## List of Publications by Year in descending order

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73  
papers

2,089  
citations

257450

24  
h-index

254184

43  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2414  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrastretchable Strain Sensors and Arrays with High Sensitivity and Linearity Based on Super Tough Conductive Hydrogels. <i>Chemistry of Materials</i> , 2018, 30, 8062-8069.	6.7	318
2	Fish Collagen: Extraction, Characterization, and Applications for Biomaterials Engineering. <i>Polymers</i> , 2020, 12, 2230.	4.5	197
3	Physicochemical characterization and biocompatibility in vitro of biphasic calcium phosphate/polyvinyl alcohol scaffolds prepared by freeze-drying method for bone tissue engineering applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 100, 169-176.	5.0	124
4	Advances in Growth Factor Delivery for Bone Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2021, 22, 903.	4.1	94
5	Tough and Biocompatible Hydrogels Based on in Situ Interpenetrating Networks of Dithiol-Connected Graphene Oxide and Poly(vinyl alcohol). <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 3003-3008.	8.0	61
6	Development of chitosan/gelatin hydrogels incorporation of biphasic calcium phosphate nanoparticles for bone tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2019, 30, 1636-1657.	3.5	57
7	Macroporous biphasic calcium phosphate scaffolds reinforced by poly-L-lactic acid/hydroxyapatite nanocomposite coatings for bone regeneration. <i>Biochemical Engineering Journal</i> , 2015, 98, 29-37.	3.6	56
8	Synthesis and characterization of silver nanoparticles-doped hydroxyapatite/alginate microparticles with promising cytocompatibility and antibacterial properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 585, 124081.	4.7	56
9	Hydroxyethyl Chitosan-Reinforced Polyvinyl Alcohol/Biphasic Calcium Phosphate Hydrogels for Bone Regeneration. <i>ACS Omega</i> , 2020, 5, 10948-10957.	3.5	50
10	Alginate modification via click chemistry for biomedical applications. <i>Carbohydrate Polymers</i> , 2021, 270, 118360.	10.2	50
11	Natural polysaccharides promote chondrocyte adhesion and proliferation on magnetic nanoparticle/PVA composite hydrogels. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 132, 146-154.	5.0	49
12	Polyvinyl Alcohol/Sodium Alginate Hydrogels Incorporated with Silver Nanoclusters via Green Tea Extract for Antibacterial Applications. <i>Designed Monomers and Polymers</i> , 2020, 23, 118-133.	1.6	43
13	3D Bioprinting of Lignocellulosic Biomaterials. <i>Advanced Healthcare Materials</i> , 2020, 9, e2001472.	7.6	42
14	Tough and self-recoverable hydrogels crosslinked by triblock copolymer micelles and Fe <sup>3+</sup> coordination. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 865-876.	2.1	41
15	Versatile controlled ion release for synthesis of recoverable hybrid hydrogels with high stretchability and notch-insensitivity. <i>Chemical Communications</i> , 2015, 51, 15534-15537.	4.1	40
16	Three-Dimensional Printing of Hydroxyapatite Composites for Biomedical Application. <i>Crystals</i> , 2021, 11, 353.	2.2	37
17	Effects of drug and polymer molecular weight on drug release from PLGA-PEG microspheres. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	34
18	Fungal exopolysaccharides: Properties, sources, modifications, and biomedical applications. <i>Carbohydrate Polymers</i> , 2022, 284, 119152.	10.2	34

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19	Tannic acid post-treatment of enzymatically crosslinked chitosan-alginate hydrogels for biomedical applications. <i>Carbohydrate Polymers</i> , 2022, 295, 119844.	10.2	34
20	Injectable temperature-sensitive hydrogel with VEGF loaded microspheres for vascularization and bone regeneration of femoral head necrosis. <i>Materials Letters</i> , 2018, 229, 138-141.	2.6	32
21	Controllable promotion of chondrocyte adhesion and growth on PVA hydrogels by controlled release of TGF- $\beta$ 1 from porous PLGA microspheres. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 125, 51-57.	5.0	29
22	A sustainable solvent based on lactic acid and $\alpha$ -cysteine for the regeneration of keratin from waste wool. <i>Green Chemistry</i> , 2021, 23, 1171-1174.	9.0	29
23	Protein-Based 3D Biofabrication of Biomaterials. <i>Bioengineering</i> , 2021, 8, 48.	3.5	28
24	Preparation and Properties of Biphasic Calcium Phosphate Scaffolds Multiply Coated with HA/PLLA Nanocomposites for Bone Tissue Engineering Applications. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-11.	2.7	26
25	Temperature-sensitive biodegradable mixed star-shaped block copolymers hydrogels for an injection application. <i>Polymer</i> , 2012, 53, 1245-1257.	3.8	26
26	Kinetic modelling of the solid-liquid extraction process of polyphenolic compounds from apple pomace: influence of solvent composition and temperature. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	4.2	26
27	Fruit pomace-lignin as a sustainable biopolymer for biomedical applications. <i>Journal of Cleaner Production</i> , 2021, 328, 129498.	9.3	24
28	Temperature-responsive biodegradable star-shaped block copolymers for vaginal gels. <i>Journal of Materials Chemistry</i> , 2012, 22, 6316.	6.7	23
29	Preparation and characterization of dithiol-modified graphene oxide nanosheets reinforced alginate nanocomposite as bone scaffold. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	22
30	Temperature-sensitive star-shaped block copolymers hydrogels for an injection application: phase transition behavior and biocompatibility. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 689-700.	3.6	21
31	Nanostructured selenium-doped biphasic calcium phosphate with in situ incorporation of silver for antibacterial applications. <i>Scientific Reports</i> , 2020, 10, 13738.	3.3	21
32	Poly(acrylic acid) capped iron oxide nanoparticles via ligand exchange with antibacterial properties for biofilm applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 197, 111385.	5.0	20
33	Injectable hydrogels based on silk fibroin peptide grafted hydroxypropyl chitosan and oxidized microcrystalline cellulose for scarless wound healing. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 647, 129062.	4.7	20
34	Hydroxyapatite/poly-l-lactide nanocomposites coating improves the adherence and proliferation of human bone mesenchymal stem cells on porous biphasic calcium phosphate scaffolds. <i>Materials Letters</i> , 2013, 92, 25-28.	2.6	19
35	Development of marine oligosaccharides for potential wound healing biomaterials engineering. <i>Chemical Engineering Journal Advances</i> , 2021, 7, 100113.	5.2	19
36	Polyphenol rich green tea waste hydrogel for removal of copper and chromium ions from aqueous solution. <i>Cleaner Engineering and Technology</i> , 2021, 4, 100167.	4.0	16

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37	Synergistic complexation of phenol functionalized polymer induced <i>in situ</i> microfiber formation for 3D printing of marine-based hydrogels. <i>Green Chemistry</i> , 2022, 24, 2409-2422.	9.0	16
38	Drug-loaded PLGA-mPEG microparticles as treatment for atopic dermatitis-like skin lesions in BALB/c mice model. <i>Journal of Microencapsulation</i> , 2015, 32, 201-209.	2.8	15
39	The effect of particle size distribution on the microstructure and properties of Al <sub>2</sub> O <sub>3</sub> ceramics formed by stereolithography. <i>Ceramics International</i> , 2022, 48, 21600-21609.	4.8	15
40	Silver-doped biphasic calcium phosphate/alginate microclusters with antibacterial property and controlled doxorubicin delivery. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50433.	2.6	14
41	Detecting Protein-Protein Interaction Based on Protein Fragment Complementation Assay. <i>Current Protein and Peptide Science</i> , 2020, 21, 598-610.	1.4	14
42	Injectable cell-laden poly(N-isopropylacrylamide)/chitosan hydrogel reinforced via graphene oxide and incorporated with dual-growth factors. <i>Materials Letters</i> , 2020, 280, 128572.	2.6	12
43	Temperature responsive hydrogel for cells encapsulation based on graphene oxide reinforced poly(N- Tj ETQq1 1 0,784314 rgBT /Overle	1.9	12
44	Composite Hydrogels with the Simultaneous Release of VEGF and MCP-1 for Enhancing Angiogenesis for Bone Tissue Engineering Applications. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2438.	2.5	11
45	Valorization of Waste Apple Pomace for Production of Platform Biochemicals: A Multi-Objective Optimization Study. <i>Waste and Biomass Valorization</i> , 2021, 12, 6887-6901.	3.4	11
46	Waste Apple Pomace Conversion to Acrylic Acid: Economic and Potential Environmental Impact Assessments. <i>Fermentation</i> , 2022, 8, 21.	3.0	11
47	Three-Dimensional Chiral Supramolecular Microenvironment Strategy for Enhanced Biocatalysis. <i>ACS Nano</i> , 2021, 15, 14972-14984.	14.6	10
48	Enhanced keratin extraction from wool waste using a deep eutectic solvent. <i>Chemical Papers</i> , 2022, 76, 2637-2648.	2.2	10
49	Exopolysaccharide from the yeast <i>Papiliotrema terrestris</i> PT22AV for skin wound healing. <i>Journal of Advanced Research</i> , 2023, 46, 61-74.	9.5	10
50	Injectable Vaginal Hydrogels as a Multi-Drug Carrier for Contraception. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1638.	2.5	8
51	In vitro biomineralization on poly(vinyl alcohol)/biphasic calcium phosphate hydrogels. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2020, 9, 122-128.	0.9	8
52	Incorporation of nonstandard amino acids into proteins: principles and applications. <i>World Journal of Microbiology and Biotechnology</i> , 2020, 36, 60.	3.6	8
53	Structure and properties of PVA/silk fibroin hydrogels and their effects on growth behavior of various cell types. <i>Materials Research Express</i> , 2020, 7, 015413.	1.6	7
54	A fast method for in vitro biomineralization of PVA/alginate/biphasic calcium phosphate hydrogel. <i>Materials Letters</i> , 2022, 308, 131182.	2.6	7

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55	Protein by-products: Composition, extraction, and biomedical applications. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 9436-9481.	10.3	7
56	Magnesium-doped biphasic calcium phosphate nanoparticles with incorporation of silver: Synthesis, cytotoxic and antibacterial properties. <i>Materials Letters</i> , 2022, 322, 132478.	2.6	7
57	Fabrication of micropatterned gold nanoparticles on graphene oxide nanosheet via thiol-Michael addition click chemistry. <i>Materials Letters</i> , 2020, 261, 127014.	2.6	6
58	Engineering the Translational Machinery for Biotechnology Applications. <i>Molecular Biotechnology</i> , 2020, 62, 219-227.	2.4	6
59	Ribosome Hibernation as a Stress Response of Bacteria. <i>Protein and Peptide Letters</i> , 2020, 27, 1082-1091.	0.9	6
60	Vaginal Administration of Contraceptives. <i>Scientia Pharmaceutica</i> , 2021, 89, 3.	2.0	6
61	A detailed view of PLGA-mPEG microsphere formation by double emulsion solvent evaporation method. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015, 33, 955-963.	3.8	5
62	Transcriptional factor engineering in microbes for industrial biotechnology. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 3071-3078.	3.2	5
63	Iron Oxide Nanoparticles Synthesized Via Green Tea Extract for Doxorubicin Delivery. <i>Current Nanoscience</i> , 2021, 17, 646-657.	1.2	5
64	Synthesis of Aptamer-PEI-g-PEG Modified Gold Nanoparticles Loaded with Doxorubicin for Targeted Drug Delivery. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	5
65	Synthesis, micellization and gelation of temperature-responsive star-shaped block copolymers. <i>Polymers for Advanced Technologies</i> , 2013, 24, 460-465.	3.2	3
66	Bio-Inspired Hydrogels via 3D Bioprinting. , 0, , .		3
67	Mutations in the regulatory regions result in increased streptomycin resistance and keratinase synthesis in <i>Bacillus thuringiensis</i> . <i>Archives of Microbiology</i> , 2021, 203, 5387-5396.	2.2	3
68	Alginate-Based Composite and Its Biomedical Applications. , 0, , .		2
69	Anisotropic PLGA microsphere/PVA hydrogel composite with aligned macroporous structures for directed cell adhesion and proliferation. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2023, 72, 397-406.	3.4	2
70	Temperature-responsive star-shaped copolymer hydrogels for co-delivery and sequential release of three contraceptives. <i>Journal of Controlled Release</i> , 2017, 259, e75.	9.9	1
71	Cover Image, Volume 138, Issue 19. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50643.	2.6	0
72	Injectable Multi-Drug Loaded Hydrogels for Contraception. , 2021, , 92-115.		0

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73	Breathable and adaptive thermo-responsive personal protective clothing. , 2022, , 377-394.		0