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	Anisotropic PLGA microsphere/PVA hydrogel composite with aligned macroporous structures for directed cell adhesion and proliferation. International Journal of Polymeric Materials and Polymeric Biomaterials, 2023, 72, 397-406.	3.4	2
2	Protein by-products: Composition, extraction, and biomedical applications. Critical Reviews in Food Science and Nutrition, 2023, 63, 9436-9481.	10.3	7
3	Exopolysaccharide from the yeast Papiliotrema terrestris PT22AV for skin wound healing. Journal of Advanced Research, 2023, 46, 61-74.	9.5	10
4	A fast method for in vitro biomineralization of PVA/alginate/biphasic calcium phosphate hydrogel. Materials Letters, 2022, 308, 131182.	2.6	7
5	Enhanced keratin extraction from wool waste using a deep eutectic solvent. Chemical Papers, 2022, 76, 2637-2648.	2.2	10
6	Waste Apple Pomace Conversion to Acrylic Acid: Economic and Potential Environmental Impact Assessments. Fermentation, 2022, 8, 21.	3.0	11
7	Synergistic complexation of phenol functionalized polymer induced in situ microfiber formation for 3D printing of marine-based hydrogels. Green Chemistry, 2022, 24, 2409-2422.	9.0	16
8	Fungal exopolysaccharides: Properties, sources, modifications, and biomedical applications. Carbohydrate Polymers, 2022, 284, 119152.	10.2	34
9	The effect of particle size distribution on the microstructure and properties of Al2O3 ceramics formed by stereolithography. Ceramics International, 2022, 48, 21600-21609.	4.8	15
10	Injectable hydrogels based on silk fibroin peptide grafted hydroxypropyl chitosan and oxidized microcrystalline cellulose for scarless wound healing. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 647, 129062.	4.7	20
11	Temperature responsive hydrogel for cells encapsulation based on graphene oxide reinforced poly(N-) Tj ETQq1 1 0.784314 rgBT /Ove	1.9	12
12	Breathable and adaptive thermo-responsive personal protective clothing. , 2022, , 377-394.		0
13	Magnesium-doped biphasic calcium phosphate nanoparticles with incorporation of silver: Synthesis, cytotoxic and antibacterial properties. Materials Letters, 2022, 322, 132478.	2.6	7
14	Tannic acid post-treatment of enzymatically crosslinked chitosan-alginate hydrogels for biomedical applications. Carbohydrate Polymers, 2022, 295, 119844.	10.2	34
15	Poly(acrylic acid) capped iron oxide nanoparticles via ligand exchange with antibacterial properties for biofilm applications. Colloids and Surfaces B: Biointerfaces, 2021, 197, 111385.	5.0	20
16	Advances in Growth Factor Delivery for Bone Tissue Engineering. International Journal of Molecular Sciences, 2021, 22, 903.	4.1	94
17	Cover Image, Volume 138, Issue 19. Journal of Applied Polymer Science, 2021, 138, 50643.	2.6	0
18	Injectable Multi-Drug Loaded Hydrogels for Contraception. , 2021, , 92-115.		0

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19	Three-Dimensional Printing of Hydroxyapatite Composites for Biomedical Application. Crystals, 2021, 11, 353.	2.2	37
20	Protein-Based 3D Biofabrication of Biomaterials. Bioengineering, 2021, 8, 48.	3.5	28
21	Valorization of Waste Apple Pomace for Production of Platform Biochemicals: A Multi-Objective Optimization Study. Waste and Biomass Valorization, 2021, 12, 6887-6901.	3.4	11
22	Iron Oxide Nanoparticles Synthesized Via Green Tea Extract for Doxorubicin Delivery. Current Nanoscience, 2021, 17, 646-657.	1.2	5
23	Mutations in the regulatory regions result in increased streptomycin resistance and keratinase synthesis in Bacillus thuringiensis. Archives of Microbiology, 2021, 203, 5387-5396.	2.2	3
24	Development of marine oligosaccharides for potential wound healing biomaterials engineering. Chemical Engineering Journal Advances, 2021, 7, 100113.	5.2	19
25	Three-Dimensional Chiral Supramolecular Microenvironment Strategy for Enhanced Biocatalysis. ACS Nano, 2021, 15, 14972-14984.	14.6	10
26	Polyphenol rich green tea waste hydrogel for removal of copper and chromium ions from aqueous solution. Cleaner Engineering and Technology, 2021, 4, 100167.	4.0	16
27	Alginate modification via click chemistry for biomedical applications. Carbohydrate Polymers, 2021, 270, 118360.	10.2	50
28	A sustainable solvent based on lactic acid and <scp>l</scp>-cysteine for the regeneration of keratin from waste wool. Green Chemistry, 2021, 23, 1171-1174.	9.0	29
29	Silverâ€doped biphasic calcium phosphate/alginate microclusters with antibacterial property and controlled doxorubicin delivery. Journal of Applied Polymer Science, 2021, 138, 50433.	2.6	14
30	Vaginal Administration of Contraceptives. Scientia Pharmaceutica, 2021, 89, 3.	2.0	6
31	Fruit pomace-lignin as a sustainable biopolymer for biomedical applications. Journal of Cleaner Production, 2021, 328, 129498.	9.3	24
32	Kinetic modelling of the solidâ€“liquid extraction process of polyphenolic compounds from apple pomace: influence of solvent composition and temperature. Bioresources and Bioprocessing, 2021, 8, .	4.2	26
33	Synthesis and characterization of silver nanoparticles-doped hydroxyapatite/alginate microparticles with promising cytocompatibility and antibacterial properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124081.	4.7	56
34	Structure and properties of PVA/silk fibroin hydrogels and their effects on growth behavior of various cell types. Materials Research Express, 2020, 7, 015413.	1.6	7
35	In vitro biomineralization on poly(vinyl alcohol)/biphasic calcium phosphate hydrogels. Bioinspired, Biomimetic and Nanobiomaterials, 2020, 9, 122-128.	0.9	8
36	Fabrication of micropatterned gold nanoparticles on graphene oxide nanosheet via thiol-Michael addition click chemistry. Materials Letters, 2020, 261, 127014.	2.6	6

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37	Fish Collagen: Extraction, Characterization, and Applications for Biomaterials Engineering. Polymers, 2020, 12, 2230.	4.5	197
38	Injectable cell-laden poly(N-isopropylacrylamide)/chitosan hydrogel reinforced via graphene oxide and incorporated with dual-growth factors. Materials Letters, 2020, 280, 128572.	2.6	12
39	Polyvinyl Alcohol/Sodium Alginate Hydrogels Incorporated with Silver Nanoclusters via Green Tea Extract for Antibacterial Applications. Designed Monomers and Polymers, 2020, 23, 118-133.	1.6	43
40	Nanostructured selenium-doped biphasic calcium phosphate with in situ incorporation of silver for antibacterial applications. Scientific Reports, 2020, 10, 13738.	3.3	21
41	3D Bioprinting of Lignocellulosic Biomaterials. Advanced Healthcare Materials, 2020, 9, e2001472.	7.6	42
42	Hydroxyethyl Chitosan-Reinforced Polyvinyl Alcohol/Biphasic Calcium Phosphate Hydrogels for Bone Regeneration. ACS Omega, 2020, 5, 10948-10957.	3.5	50
43	Transcriptional factor engineering in microbes for industrial biotechnology. Journal of Chemical Technology and Biotechnology, 2020, 95, 3071-3078.	3.2	5
44	Engineering the Translational Machinery for Biotechnology Applications. Molecular Biotechnology, 2020, 62, 219-227.	2.4	6
45	Incorporation of nonstandard amino acids into proteins: principles and applications. World Journal of Microbiology and Biotechnology, 2020, 36, 60.	3.6	8
46	Ribosome Hibernation as a Stress Response of Bacteria. Protein and Peptide Letters, 2020, 27, 1082-1091.	0.9	6
47	Synthesis of Aptamer-PEI-g-PEG Modified Gold Nanoparticles Loaded with Doxorubicin for Targeted Drug Delivery. Journal of Visualized Experiments, 2020, , .	0.3	5
48	Detecting Protein-Protein Interaction Based on Protein Fragment Complementation Assay. Current Protein and Peptide Science, 2020, 21, 598-610.	1.4	14
49	Development of chitosan/gelatin hydrogels incorporation of biphasic calcium phosphate nanoparticles for bone tissue engineering. Journal of Biomaterials Science, Polymer Edition, 2019, 30, 1636-1657.	3.5	57
50	Injectable Vaginal Hydrogels as a Multi-Drug Carrier for Contraception. Applied Sciences (Switzerland), 2019, 9, 1638.	2.5	8
51	Preparation and characterization of dithiol-modified graphene oxide nanosheets reinforced alginate nanocomposite as bone scaffold. SN Applied Sciences, 2019, 1, 1.	2.9	22
52	Tough and selfâ€recoverable hydrogels crosslinked by triblock copolymer micelles and Fe³⁺ coordination. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 865-876.	2.1	41
53	Composite Hydrogels with the Simultaneous Release of VEGF and MCP-1 for Enhancing Angiogenesis for Bone Tissue Engineering Applications. Applied Sciences (Switzerland), 2018, 8, 2438.	2.5	11
54	Ultrastretchable Strain Sensors and Arrays with High Sensitivity and Linearity Based on Super Tough Conductive Hydrogels. Chemistry of Materials, 2018, 30, 8062-8069.	6.7	318

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55	Injectable temperature-sensitive hydrogel with VEGF loaded microspheres for vascularization and bone regeneration of femoral head necrosis. Materials Letters, 2018, 229, 138-141.	2.6	32
56	Temperature-responsive star-shaped copolymer hydrogels for co-delivery and sequential release of three contraceptives. Journal of Controlled Release, 2017, 259, e75.	9.9	1
57	Drug-loaded PLGA-mPEG microparticles as treatment for atopic dermatitis-like skin lesions in BALB/c mice model. Journal of Microencapsulation, 2015, 32, 201-209.	2.8	15
58	Tough and Biocompatible Hydrogels Based on in Situ Interpenetrating Networks of Dithiol-Connected Graphene Oxide and Poly(vinyl alcohol). ACS Applied Materials & Interfaces, 2015, 7, 3003-3008.	8.0	61
59	Macroporous biphasic calcium phosphate scaffolds reinforced by poly-L-lactic acid/hydroxyapatite nanocomposite coatings for bone regeneration. Biochemical Engineering Journal, 2015, 98, 29-37.	3.6	56
60	Natural polysaccharides promote chondrocyte adhesion and proliferation on magnetic nanoparticle/PVA composite hydrogels. Colloids and Surfaces B: Biointerfaces, 2015, 132, 146-154.	5.0	49
61	A detailed view of PLGA-mPEG microsphere formation by double emulsion solvent evaporation method. Chinese Journal of Polymer Science (English Edition), 2015, 33, 955-963.	3.8	5
62	Versatile controlled ion release for synthesis of recoverable hybrid hydrogels with high stretchability and notch-insensitivity. Chemical Communications, 2015, 51, 15534-15537.	4.1	40
63	Effects of drug and polymer molecular weight on drug release from <scp>PLGA</scp>â€“<scp>PEG</scp> microspheres. Journal of Applied Polymer Science, 2015, 132, .	2.6	34
64	Controllable promotion of chondrocyte adhesion and growth on PVA hydrogels by controlled release of TGF-Î²1 from porous PLGA microspheres. Colloids and Surfaces B: Biointerfaces, 2015, 125, 51-57.	5.0	29
65	Temperature-sensitive star-shaped block copolymers hydrogels for an injection application: phase transition behavior and biocompatibility. Journal of Materials Science: Materials in Medicine, 2013, 24, 689-700.	3.6	21
66	Hydroxyapatite/poly-l-lactide nanocomposites coating improves the adherence and proliferation of human bone mesenchymal stem cells on porous biphasic calcium phosphate scaffolds. Materials Letters, 2013, 92, 25-28.	2.6	19
67	Synthesis, micellization and gelation of temperatureâ€responsive starâ€shaped block copolymers. Polymers for Advanced Technologies, 2013, 24, 460-465.	3.2	3
68	Preparation and Properties of Biphasic Calcium Phosphate Scaffolds Multiply Coated with HA/PLLA Nanocomposites for Bone Tissue Engineering Applications. Journal of Nanomaterials, 2012, 2012, 1-11.	2.7	26
69	Temperature-responsive biodegradable star-shaped block copolymers for vaginal gels. Journal of Materials Chemistry, 2012, 22, 6316.	6.7	23
70	Physicochemical characterization and biocompatibility in vitro of biphasic calcium phosphate/polyvinyl alcohol scaffolds prepared by freeze-drying method for bone tissue engineering applications. Colloids and Surfaces B: Biointerfaces, 2012, 100, 169-176.	5.0	124
71	Temperature-sensitive biodegradable mixed star-shaped block copolymers hydrogels for an injection application. Polymer, 2012, 53, 1245-1257.	3.8	26
72	Bio-Inspired Hydrogels via 3D Bioprinting. , 0, , .		3

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73	Alginate-Based Composite and Its Biomedical Applications. , 0, , .		2