

Peng Yu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2372287/publications.pdf>

Version: 2024-02-01

74
papers

3,017
citations

201385

27
h-index

174990

52
g-index

78
all docs

78
docs citations

78
times ranked

3512
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterials as photothermal therapeutic agents. <i>Progress in Materials Science</i> , 2019, 99, 1-26.	16.0	442
2	Soft Conducting Polymer Hydrogels Cross-Linked and Doped by Tannic Acid for Spinal Cord Injury Repair. <i>ACS Nano</i> , 2018, 12, 10957-10967.	7.3	246
3	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
4	Injectable Self-Healing Natural Biopolymer-Based Hydrogel Adhesive with Thermoresponsive Reversible Adhesion for Minimally Invasive Surgery. <i>Advanced Functional Materials</i> , 2021, 31, 2007457.	7.8	160
5	A Tough and Self-Powered Hydrogel for Artificial Skin. <i>Chemistry of Materials</i> , 2019, 31, 9850-9860.	3.2	151
6	Exosomes-Loaded Electroconductive Hydrogel Synergistically Promotes Tissue Repair after Spinal Cord Injury via Immunoregulation and Enhancement of Myelinated Axon Growth. <i>Advanced Science</i> , 2022, 9, e2105586.	5.6	117
7	Effect of Poly(butylene succinate) on Poly(lactic acid) Foaming Behavior: Formation of Open Cell Structure. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 6199-6207.	1.8	84
8	Exosome-functionalized polyetheretherketone-based implant with immunomodulatory property for enhancing osseointegration. <i>Bioactive Materials</i> , 2021, 6, 2754-2766.	8.6	75
9	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
10	Bone-Inspired Spatially Specific Piezoelectricity Induces Bone Regeneration. <i>Theranostics</i> , 2017, 7, 3387-3397.	4.6	67
11	Tunable Mechanical, Antibacterial, and Cytocompatible Hydrogels Based on a Functionalized Dual Network of Metal Coordination Bonds and Covalent Crosslinking. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6190-6198.	4.0	61
12	Surface-Selective Preferential Production of Reactive Oxygen Species on Piezoelectric Ceramics for Bacterial Killing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24306-24309.	4.0	60
13	Reinforcement of Natural Rubber: The Use of <i>In Situ</i> Regenerated Cellulose from Alkaline "Urea" Aqueous System. <i>Macromolecules</i> , 2017, 50, 7211-7221.	2.2	55
14	Extracellular Matrix-Based Conductive Interpenetrating Network Hydrogels with Enhanced Neurovascular Regeneration Properties for Diabetic Wounds Repair. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101556.	3.9	53
15	Fabrication of Biocompatible Potassium Sodium Niobate Piezoelectric Ceramic as an Electroactive Implant. <i>Materials</i> , 2017, 10, 345.	1.3	52
16	Foaming of poly(lactic acid) with supercritical CO ₂ : The combined effect of crystallinity and crystalline morphology on cellular structure. <i>Journal of Supercritical Fluids</i> , 2019, 145, 122-132.	1.6	52
17	The antibacterial effect of potassium-sodium niobate ceramics based on controlling piezoelectric properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 463-468.	2.5	52
18	Wearable sensors and devices for real-time cardiovascular disease monitoring. <i>Cell Reports Physical Science</i> , 2021, 2, 100541.	2.8	51

#	ARTICLE	IF	CITATIONS
19	Effect of nanoparticles on the mechanical properties of acrylonitrile-butadiene-styrene specimens fabricated by fused deposition modeling. Journal of Applied Polymer Science, 2017, 134, .	1.3	48
20	Processing and characterization of supercritical CO ₂ batch foamed poly(lactic acid) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 T Science, 2013, 130, 3066-3073.	1.3	47
21	Elastomeric conductive hybrid hydrogels with continuous conductive networks. Journal of Materials Chemistry B, 2019, 7, 2389-2397.	2.9	46
22	In situ dispersion and compatibilization of lignin/epoxidized natural rubber composites: reactivity, morphology and property. Journal of Applied Polymer Science, 2015, 132, .	1.3	44
23	Built-in microscale electrostatic fields induced by anatase-rutile-phase transition in selective areas promote osteogenesis. NPC Asia Materials, 2016, 8, e243-e243.	3.8	41
24	Palladium nanoparticles entrapped in a self-supporting nanoporous gold wire as sensitive dopamine biosensor. Scientific Reports, 2017, 7, 7941.	1.6	38
25	The aggregation structure regulation of lignin by chemical modification and its effect on the property of lignin/styrene-butadiene rubber composites. Journal of Applied Polymer Science, 2018, 135, 45759.	1.3	36
26	Elastomer Reinforced with Regenerated Chitin from Alkaline/Urea Aqueous System. ACS Applied Materials & Interfaces, 2017, 9, 26460-26467.	4.0	33
27	Polydopamine-Assisted Electrochemical Fabrication of Polypyrrole Nanofibers on Bone Implants to Improve Bioactivity. Macromolecular Materials and Engineering, 2016, 301, 1288-1294.	1.7	30
28	Polypyrrole Nanocones and Dynamic Piezoelectric Stimulation-Induced Stem Cell Osteogenic Differentiation. ACS Biomaterials Science and Engineering, 2019, 5, 4386-4392.	2.6	29
29	Ultrafast and On-Demand Oil/Water Separation Membrane System Based on Conducting Polymer Nanotip Arrays. Nano Letters, 2020, 20, 4895-4900.	4.5	28
30	NIR-Responsive Ti ₃ C ₂ MXene Colloidal Solution for Curing Purulent Subcutaneous Infection through the NanoThermal Blade-Effect. Advanced Healthcare Materials, 2021, 10, e2100392.	3.9	28
31	Self-crosslinkable lignin/epoxidized natural rubber composites. Journal of Applied Polymer Science, 2014, 131, .	1.3	27
32	OD/1D Heterojunction Implant with Electro-Mechanobiological Coupling Cues Promotes Osteogenesis. Advanced Functional Materials, 2021, 31, 2106249.	7.8	26
33	Tough and Highly Efficient Underwater Self-Repairing Hydrogels for Soft Electronics. Small Methods, 2022, 6, e2101513.	4.6	26
34	Wireless Electrochemotherapy by Selenium-Doped Piezoelectric Biomaterials to Enhance Cancer Cell Apoptosis. ACS Applied Materials & Interfaces, 2020, 12, 34505-34513.	4.0	22
35	Effect of poly(ethylene glycol) on the properties and foaming behavior of macroporous poly(lactic acid) Tj ETQq1 1 0.784314 rgBT /Overlock 21	1.3	21
36	In situ fabrication of cellulose nanocrystal-silica hybrids and its application in UHMWPE: Rheological, thermal, and wear resistance properties. Polymer Composites, 2018, 39, E1701.	2.3	20

#	ARTICLE	IF	CITATIONS
37	Preparation and properties of poly(lactic acid)/cellulose nanocrystals nanocomposites compatibilized with maleated poly(lactic acid). <i>Polymer Composites</i> , 2018, 39, 3092-3101.	2.3	19
38	Wireless electrical stimulation at the nanoscale interface induces tumor vascular normalization. <i>Bioactive Materials</i> , 2022, 18, 399-408.	8.6	19
39	High-performance hydroxypropyl black liquor lignin/poly (propylene carbonate) bio-composites with enhanced natural degradability. <i>Polymer Testing</i> , 2018, 72, 348-356.	2.3	18
40	Periodic Nanoneedle and Buffer Zones Constructed on a Titanium Surface Promote Osteogenic Differentiation and Bone Calcification In Vivo. <i>Advanced Healthcare Materials</i> , 2016, 5, 364-372.	3.9	15
41	Ti nanorod arrays with a medium density significantly promote osteogenesis and osteointegration. <i>Scientific Reports</i> , 2016, 6, 19047.	1.6	15
42	Incorporating catechol into electroactive polypyrrole nanowires on titanium to promote hydroxyapatite formation. <i>Bioactive Materials</i> , 2018, 3, 74-79.	8.6	15
43	A Multifunctional Metallohydrogel with Injectability, Self-Healing, and Multistimulus-Responsiveness for Bioadhesives. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800305.	1.7	15
44	A facile strategy for preparation of strong tough poly(lactic acid) foam with a unique microfibrillated bimodal micro/nano cellular structure. <i>International Journal of Biological Macromolecules</i> , 2022, 199, 264-274.	3.6	15
45	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
46	Enhanced oil resistance and mechanical properties of nitrile butadiene rubber/lignin composites modified by epoxy resin. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	14
47	Polydopamine-Assisted Immobilization of Copper Ions onto Hemodialysis Membranes for Antimicrobial. <i>ACS Applied Bio Materials</i> , 2018, 1, 1236-1243.	2.3	14
48	The Effect of Talc on the Mechanical, Crystallization and Foaming Properties of Poly(Lactic Acid). <i>Journal of Macromolecular Science - Physics</i> , 2016, 55, 908-924.	0.4	13
49	Antimicrobial Peptide Functionalized Conductive Nanowire Array Electrode as a Promising Candidate for Bacterial Environment Application. <i>Advanced Functional Materials</i> , 2019, 29, 1806353.	7.8	13
50	A spatially varying charge model for regulating site-selective protein adsorption and cell behaviors. <i>Biomaterials Science</i> , 2019, 7, 876-888.	2.6	12
51	Piezoelectric Hydrogel for Prophylaxis and Early Treatment of Pressure Injuries/Pressure Ulcers. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 3078-3086.	2.6	12
52	Flame-retardant and thermal degradation mechanism of low-density polyethylene modified with aluminum hypophosphite and microencapsulated red phosphorus. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	11
53	Preparation and characterization of formaldehyde-modified black liquor lignin/poly (propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 346-353.	0.9	10
54	Near-Infrared Light-Activatable Bismuth-Based Nanomaterials for Antibacterial and Antitumor Treatment. <i>Advanced Therapeutics</i> , 2022, 5, .	1.6	10

#	ARTICLE	IF	CITATIONS
55	Covalent Bonding of an Electroconductive Hydrogel to Gold-Coated Titanium Surfaces via Thiol-ene Click Chemistry. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1423-1429.	1.7	9
56	Fabrication of polystyrene/nano-C ₃ CO foams with unimodal or bimodal cell structure from extrusion foaming using supercritical carbon dioxide. <i>Polymer Composites</i> , 2016, 37, 1864-1873.	2.3	9
57	Study on low temperature toughness and crystallization behavior of polypropylene random copolymer. <i>Journal of Polymer Engineering</i> , 2017, 37, 715-727.	0.6	9
58	Preparation of poly(propylene carbonate)/nano calcium carbonate composites and their supercritical carbon dioxide foaming behavior. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	8
59	A built-in electric field with nanoscale distinction for cell behavior regulation. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2723-2727.	2.9	8
60	Preparation of PLA with High Impact Toughness and Reduced Internal Stress via Formation of Laminated, Bimodal Structure with Micro/Nanocells. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100426.	1.7	8
61	Spatial charge manipulated set-selective apatite deposition on micropatterned piezoceramic. <i>RSC Advances</i> , 2017, 7, 32974-32981.	1.7	7
62	Preparation and characterization of synergistically improved thermally conductive polyamide 6 with low melting point metal and low-temperature expandable graphite. <i>Polymer Composites</i> , 2018, 39, 1818-1826.	2.3	7
63	Large-scale functionalization of biomedical porous titanium scaffolds surface with TiO ₂ nanostructures. <i>Science China Materials</i> , 2018, 61, 557-564.	3.5	7
64	In Situ Construction of Black Titanium Oxide with a Multilevel Structure on a Titanium Alloy for Photothermal Antibacterial Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2419-2427.	2.6	7
65	Minor phase particles evolution in a polyethylene/ethylene-propylene copolymer (80/20) blend across mixing: Breakup and coalescence. <i>Journal of Applied Polymer Science</i> , 2013, 130, 3421-3431.	1.3	6
66	Endogenous electric field as a bridge for antibacterial ion transport from implant to bacteria. <i>Science China Materials</i> , 2020, 63, 1831-1841.	3.5	5
67	The innovation of biomaterials: From bioactive to bioelectroactive. <i>Science China Materials</i> , 2022, 65, 1723-1726.	3.5	4
68	Ti nanorod arrays with periodic density fabricated via anodic technology. <i>Micro and Nano Letters</i> , 2014, 9, 168-170.	0.6	2
69	Effects of different functional groups on metastatic behavior of SPC-A-1/human lung cancer cells in self-assembled monolayers. <i>RSC Advances</i> , 2015, 5, 41412-41419.	1.7	2
70	The dynamic response and failure of Polycarbonate plate by soft body impact. <i>Polymer Engineering and Science</i> , 2016, 56, 1160-1168.	1.5	2
71	Preparation of poly(lactic acid) with excellent comprehensive properties via simple deformation or microfibrillation of spherulites. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51539.	1.3	2
72	Programmable biological state-switching photoelectric nanosheets for the treatment of infected wounds. <i>Materials Today Bio</i> , 2022, 15, 100292.	2.6	2

#	ARTICLE	IF	CITATIONS
73	A Nano-CuO doped sodium aluminosilicate composite ceramic with high efficiency against streptococcus mutans for dental restorative materials. <i>Ceramics International</i> , 2022, 48, 28578-28585.	2.3	2
74	Osteogenic Differentiation: Periodic Nanoneedle and Buffer Zones Constructed on a Titanium Surface Promote Osteogenic Differentiation and Bone Calcification In Vivo (<i>Adv. Healthcare Mater.</i> 3/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 300-300.	3.9	0