

Dan Kai

List of Publications by Year in descending order

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79
papers

6,509
citations

61984

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64796

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82
all docs

82
docs citations

82
times ranked

8825
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Towards lignin-based functional materials in a sustainable world. <i>Green Chemistry</i> , 2016, 18, 1175-1200. | 9.0 | 931 |
| 2 | Biodegradable polymers for electrospinning: Towards biomedical applications. <i>Materials Science and Engineering C</i> , 2014, 45, 659-670. | 7.3 | 318 |
| 3 | Guided orientation of cardiomyocytes on electrospun aligned nanofibers for cardiac tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 98B, 379-386. | 3.4 | 241 |
| 4 | Tissue engineered plant extracts as nanofibrous wound dressing. <i>Biomaterials</i> , 2013, 34, 724-734. | 11.4 | 216 |
| 5 | Engineering Poly(lactide)-Lignin Nanofibers with Antioxidant Activity for Biomedical Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5268-5276. | 6.7 | 209 |
| 6 | Polypyrrole-contained electrospun conductive nanofibrous membranes for cardiac tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 99A, 376-385. | 4.0 | 208 |
| 7 | Biodegradable electronics: cornerstone for sustainable electronics and transient applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5531-5558. | 5.5 | 184 |
| 8 | Thermogels: In Situ Gelling Biomaterial. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 295-316. | 5.2 | 176 |
| 9 | Electrospinning of poly(glycerol sebacate)-based nanofibers for nerve tissue engineering. <i>Materials Science and Engineering C</i> , 2017, 70, 1089-1094. | 7.3 | 171 |
| 10 | Polyester elastomers for soft tissue engineering. <i>Chemical Society Reviews</i> , 2018, 47, 4545-4580. | 38.1 | 168 |
| 11 | Mechanical properties and <i>in vitro</i> behavior of nanofiber-hydrogel composites for tissue engineering applications. <i>Nanotechnology</i> , 2012, 23, 095705. | 2.6 | 163 |
| 12 | Development of Lignin Supramolecular Hydrogels with Mechanically Responsive and Self-Healing Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2160-2169. | 6.7 | 162 |
| 13 | Engineering highly stretchable lignin-based electrospun nanofibers for potential biomedical applications. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6194-6204. | 5.8 | 156 |
| 14 | Sustainable and Antioxidant Lignin-Polyester Copolymers and Nanofibers for Potential Healthcare Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6016-6025. | 6.7 | 152 |
| 15 | Long-Term Real-Time In Vivo Drug Release Monitoring with AIE Thermogelling Polymer. <i>Small</i> , 2017, 13, 1603404. | 10.0 | 140 |
| 16 | Engineering PCL/lignin nanofibers as an antioxidant scaffold for the growth of neuron and Schwann cell. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 356-365. | 5.0 | 121 |
| 17 | Polyhydroxyalkanoates: Chemical Modifications Toward Biomedical Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 106-119. | 6.7 | 120 |
| 18 | Elastic poly(ϵ -caprolactone)-polydimethylsiloxane copolymer fibers with shape memory effect for bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 015007. | 3.3 | 117 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | How far is Lignin from being a biomedical material?. <i>Bioactive Materials</i> , 2022, 8, 71-94. | 15.6 | 117 |
| 20 | Electrospun biocomposite nanofibrous patch for cardiac tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2011, 6, 055001. | 3.3 | 115 |
| 21 | Controlled release of multiple epidermal induction factors through core-shell nanofibers for skin regeneration. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 689-698. | 4.3 | 113 |
| 22 | Emulsion electrospun vascular endothelial growth factor encapsulated poly(L-lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (acid-c Materials Science, 2012, 47, 3272-3281. | 3.7 | 108 |
| 23 | Biocompatible electrically conductive nanofibers from inorganic-organic shape memory polymers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 557-565. | 5.0 | 105 |
| 24 | Implantable and degradable antioxidant poly(ϵ -caprolactone)-lignin nanofiber membrane for effective osteoarthritis treatment. <i>Biomaterials</i> , 2020, 230, 119601. | 11.4 | 100 |
| 25 | Electrospun synthetic and natural nanofibers for regenerative medicine and stem cells. <i>Biotechnology Journal</i> , 2013, 8, 59-72. | 3.5 | 91 |
| 26 | Biocompatibility evaluation of electrically conductive nanofibrous scaffolds for cardiac tissue engineering. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2305. | 5.8 | 77 |
| 27 | Stem cell-loaded nanofibrous patch promotes the regeneration of infarcted myocardium with functional improvement in rat model. <i>Acta Biomaterialia</i> , 2014, 10, 2727-2738. | 8.3 | 77 |
| 28 | Multi-arm carriers composed of an antioxidant lignin core and poly(glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (methacrylate- <i>Journal of Materials Chemistry B</i> , 2015, 3, 6897-6904. | 5.8 | 74 |
| 29 | Biomimetic material strategies for cardiac tissue engineering. <i>Materials Science and Engineering C</i> , 2011, 31, 503-513. | 7.3 | 72 |
| 30 | Mechanically cartilage-mimicking poly(PCL-PTHF urethane)/collagen nanofibers induce chondrogenesis by blocking NF κ B signaling pathway. <i>Biomaterials</i> , 2018, 178, 281-292. | 11.4 | 72 |
| 31 | Strong and biocompatible lignin /poly (3-hydroxybutyrate) composite nanofibers. <i>Composites Science and Technology</i> , 2018, 158, 26-33. | 7.8 | 70 |
| 32 | Engineered Janus amphipathic polymeric fiber films with unidirectional drainage and anti-adhesion abilities to accelerate wound healing. <i>Chemical Engineering Journal</i> , 2021, 421, 127725. | 12.7 | 65 |
| 33 | Electrospun composite scaffolds containing poly(octanediol-citrate) for cardiac tissue engineering. <i>Biopolymers</i> , 2012, 97, 529-538. | 2.4 | 62 |
| 34 | Lignin-Incorporated Nanogel Serving As an Antioxidant Biomaterial for Wound Healing. <i>ACS Applied Bio Materials</i> , 2021, 4, 3-13. | 4.6 | 58 |
| 35 | pH-responsive and hyaluronic acid-functionalized metal-organic frameworks for therapy of osteoarthritis. <i>Journal of Nanobiotechnology</i> , 2020, 18, 139. | 9.1 | 58 |
| 36 | New Dual Functional PHB-Grafted Lignin Copolymer: Synthesis, Mechanical Properties, and Biocompatibility Studies. <i>ACS Applied Bio Materials</i> , 2019, 2, 127-134. | 4.6 | 57 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Electrospun cellulose acetate butyrate/polyethylene glycol (CAB/PEG) composite nanofibers: A potential scaffold for tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110713. | 5.0 | 57 |
| 38 | The role of hydrogen bonding in alginate/poly(acrylamide-co-dimethylacrylamide) and alginate/poly(ethylene glycol) methyl ether methacrylate-based tough hybrid hydrogels. <i>RSC Advances</i> , 2015, 5, 57678-57685. | 3.6 | 54 |
| 39 | Electrospun Pectin-Polyhydroxybutyrate Nanofibers for Retinal Tissue Engineering. <i>ACS Omega</i> , 2017, 2, 8959-8968. | 3.5 | 54 |
| 40 | Using Artificial Skin Devices as Skin Replacements: Insights into Superficial Treatment. <i>Small</i> , 2019, 15, e1805453. | 10.0 | 53 |
| 41 | Dual functional anti-oxidant and SPF enhancing lignin-based copolymers as additives for personal and healthcare products. <i>RSC Advances</i> , 2016, 6, 86420-86427. | 3.6 | 49 |
| 42 | A new highly transparent injectable PHA-based thermogelling vitreous substitute. <i>Biomaterials Science</i> , 2020, 8, 926-936. | 5.4 | 47 |
| 43 | Bioimaging and biodetection assisted with TTA-UC materials. <i>Drug Discovery Today</i> , 2017, 22, 1400-1411. | 6.4 | 45 |
| 44 | Human cardiomyocyte interaction with electrospun fibrinogen/gelatin nanofibers for myocardial regeneration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 1660-1675. | 3.5 | 44 |
| 45 | Electrospun Poly(L-Lactic Acid)-co-Poly(ϵ -Caprolactone) Nanofibres Containing Silver Nanoparticles for Skin-Tissue Engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 2337-2352. | 3.5 | 37 |
| 46 | Biocompatibility evaluation of protein-incorporated electrospun polyurethane-based scaffolds with smooth muscle cells for vascular tissue engineering. <i>Journal of Materials Science</i> , 2013, 48, 5113-5124. | 3.7 | 37 |
| 47 | Gold-decorated TiO ₂ nanofibrous hybrid for improved solar-driven photocatalytic pollutant degradation. <i>Chemosphere</i> , 2021, 265, 129114. | 8.2 | 37 |
| 48 | Potential of VEGF-encapsulated electrospun nanofibers for <i>in vitro</i> cardiomyogenic differentiation of human mesenchymal stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 1002-1010. | 2.7 | 36 |
| 49 | Recycling of spent coffee grounds for useful extracts and green composites. <i>RSC Advances</i> , 2021, 11, 2682-2692. | 3.6 | 36 |
| 50 | Differentiation of embryonic stem cells to cardiomyocytes on electrospun nanofibrous substrates. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 447-454. | 3.4 | 34 |
| 51 | PLA-lignin nanofibers as antioxidant biomaterials for cartilage regeneration and osteoarthritis treatment. <i>Journal of Nanobiotechnology</i> , 2022, 20, . | 9.1 | 33 |
| 52 | Engineering Porous Water-Responsive Poly(PEG/PCL/PDMS Urethane) Shape Memory Polymers. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700174. | 3.6 | 32 |
| 53 | Addition of sodium hyaluronate and the effect on performance of the injectable calcium phosphate cement. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 1595-1602. | 3.6 | 30 |
| 54 | Emulsion electrospun nanofibers as substrates for cardiomyogenic differentiation of mesenchymal stem cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2577-2587. | 3.6 | 26 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Electrospun photosensitive nanofibers: potential for photocurrent therapy in skin regeneration. Photochemical and Photobiological Sciences, 2012, 12, 124-134. | 2.9 | 24 |
| 56 | Pitfalls and Protocols: Evaluating Catalysts for CO ₂ Reduction in Electrolyzers Based on Gas Diffusion Electrodes. ACS Energy Letters, 2022, 7, 2012-2023. | 17.4 | 24 |
| 57 | Advances in sustainable polymeric materials from lignocellulosic biomass. Materials Today Chemistry, 2022, 26, 101022. | 3.5 | 24 |
| 58 | A Triazolyl- ϵ -Pyridine- ϵ -Supported Cu ^I Dimer: Tunable Luminescence and Fabrication of Composite Fibers. ChemPlusChem, 2015, 80, 1235-1240. | 2.8 | 22 |
| 59 | Highly Washable and Reusable Green Nanofibrous Sorbent with Superoleophilicity, Biodegradability, and Mechanical Robustness. ACS Applied Polymer Materials, 2020, 2, 4825-4835. | 4.4 | 22 |
| 60 | In situ construction of thiol-silver interface for selectively electrocatalytic CO ₂ reduction. Nano Research, 2022, 15, 3283-3289. | 10.4 | 22 |
| 61 | A tough, biodegradable and water-resistant plastic alternative from coconut husk. Composites Part B: Engineering, 2022, 241, 110031. | 12.0 | 20 |
| 62 | Polyethylenimine-Mediated CpG Oligodeoxynucleotide Delivery Stimulates Bifurcated Cytokine Induction. ACS Biomaterials Science and Engineering, 2018, 4, 1013-1018. | 5.2 | 18 |
| 63 | Surface Migration of Fluorinated-Siloxane Copolymer with Unusual Liquid Crystal Behavior for Highly Efficient Oil/Water Separation. ACS Applied Polymer Materials, 2020, 2, 3612-3620. | 4.4 | 17 |
| 64 | Stem Cells and Nanostructures for Advanced Tissue Regeneration. Advances in Polymer Science, 2011, , 21-62. | 0.8 | 16 |
| 65 | Biomimetic Poly(Poly(μ -caprolactone)-Polytetrahydrofuran urethane) Based Nanofibers Enhanced Chondrogenic Differentiation and Cartilage Regeneration. Journal of Biomedical Nanotechnology, 2019, 15, 1005-1017. | 1.1 | 16 |
| 66 | Konjac glucomannan biopolymer as a multifunctional binder to build a solid permeable interface on Na ₃ V ₂ (PO ₄) ₃ /C cathodes for high-performance sodium ion batteries. Journal of Materials Chemistry A, 2021, 9, 9864-9874. | 10.3 | 16 |
| 67 | An Injectable Double-Network Hydrogel for Cell Encapsulation. Australian Journal of Chemistry, 2016, 69, 388. | 0.9 | 12 |
| 68 | Methods for Nano/Micropatterning of Substrates: Toward Stem Cells Differentiation. International Journal of Polymeric Materials and Polymeric Biomaterials, 2015, 64, 338-353. | 3.4 | 9 |
| 69 | Enhanced transfection of a macromolecular lignin-based DNA complex with low cellular toxicity. Bioscience Reports, 2018, 38, . | 2.4 | 8 |
| 70 | Cationic Lignin-Based Hyperbranched Polymers to Circumvent Drug Resistance in <i>Pseudomonas</i> Keratitis. ACS Biomaterials Science and Engineering, 2021, 7, 4659-4668. | 5.2 | 6 |
| 71 | Synergistic UV protection effects of the lignin nanodiamond complex. Materials Today Chemistry, 2021, 22, 100574. | 3.5 | 6 |
| 72 | Biomass Hyaluronic Acid to Construct High-Loading Electrode with Fast Na ⁺ Transport Structure for Na ₃ V ₂ (PO ₄) ₃ Sodium-Ion Batteries. Batteries and Supercaps, 2022, 5, . | 4.7 | 6 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Lignin and Its Properties. Sustainable Chemistry Series, 2018, , 1-28. | 0.1 | 5 |
| 74 | Reinforcement of aligned cellulose fibers by lignin-polyester copolymers. Materials Today Chemistry, 2020, 18, 100358. | 3.5 | 5 |
| 75 | Preparation of Tetracalcium Phosphate and the Effect on the Properties of Calcium Phosphate Cement. Materials Science Forum, 0, 610-613, 1356-1359. | 0.3 | 4 |
| 76 | Design and development of multilayer cotton masks via machine learning. Materials Today Advances, 2021, 12, 100178. | 5.2 | 4 |
| 77 | Antioxidative and Anti-UV Lignin Carrier for Peptide Delivery. Macromolecular Chemistry and Physics, 2022, 223, 2100364. | 2.2 | 4 |
| 78 | Facile Synthesis of Iron Oxide Nanozymes for Synergistically Colorimetric and Magnetic Resonance Detection Strategy. Journal of Biomedical Nanotechnology, 2021, 17, 582-594. | 1.1 | 2 |
| 79 | CHAPTER 10. Thermogelling Polymers: A Cutting Edge Rheology Modifier. RSC Polymer Chemistry Series, 2016, , 178-204. | 0.2 | 0 |