# Wujie Zhang

List of Publications by Year
in descending order



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|---|---|---|---|
| 35 papers | 1,609 citations | 430442 18 h-index | 454577 30 g-index |
| 36 all docs | 36 docs citations | 36 times ranked | 2544 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Chitosan-Decorated Doxorubicin-Encapsulated Nanoparticle Targets and Eliminates Tumor Reinitiating Cancer Stem-like Cells. ACS Nano, 2015, 9, 5725-5740. | 7.3 | 241 |
| 2 | One-step microfluidic generation of pre-hatching embryo-like coreâ€“shell microcapsules for miniaturized 3D culture of pluripotent stem cells. Lab on A Chip, 2013, 13, 4525. | 3.1 | 163 |
| 3 | Synthesis and Characterization of Thermally Responsive Pluronic F127â˜Chitosan Nanocapsules for Controlled Release and Intracellular Delivery of Small Molecules. ACS Nano, 2010, 4, 6747-6759. | 7.3 | 155 |
| 4 | Robust antimicrobial compounds and polymers derived from natural resin acids. Chemical Communications, 2012, 48, 916-918. | 2.2 | 142 |
| 5 | A novel coreâ€“shell microcapsule for encapsulation and 3D culture of embryonic stem cells. Journal of Materials Chemistry B, 2013, 1, 1002-1009. | 2.9 | 109 |
| 6 | Degradable Rosin-Esterâ€“Caprolactone Graft Copolymers. Biomacromolecules, 2011, 12, 2171-2177. | 2.6 | 105 |
| 7 | Coaxial electrospray of liquid coreâ€“hydrogel shell microcapsules for encapsulation and miniaturized 3D culture of pluripotent stem cells. Integrative Biology (United Kingdom), 2014, 6, 874-884. | 0.6 | 84 |
| 8 | Encapsulation of Living Cells in Small (â¼100â€‚Î¼m) Alginate Microcapsules by Electrostatic Spraying: A Parametric Study. Journal of Biomechanical Engineering, 2009, 131, 074515. | 0.6 | 72 |
| 9 | Preferential vitrification of water in small alginate microcapsules significantly augments cell cryopreservation by vitrification. Biomedical Microdevices, 2010, 12, 89-96. | 1.4 | 66 |
| 10 | Thermally responsive nanoparticle-encapsulated curcumin and its combination with mild hyperthermia for enhanced cancer cell destruction. Acta Biomaterialia, 2014, 10, 831-842. | 4.1 | 64 |
| 11 | The encapsulation and intracellular delivery of trehalose using a thermally responsive nanocapsule. Nanotechnology, 2009, 20, 275101. | 1.3 | 49 |
| 12 | Microencapsulating and Banking Living Cells for Cell-Based Medicine. Journal of Healthcare Engineering, 2011, 2, 427-446. | 1.1 | 40 |
| 13 | Novel pectin-based carriers for colonic drug delivery. Pharmaceutical Development and Technology, 2016, 21, 127-130. | 1.1 | 38 |
| 14 | Electrospinning pectin-based nanofibers: a parametric and cross-linker study. Applied Nanoscience (Switzerland), 2018, 8, 33-40. | 1.6 | 38 |
| 15 | Novel bioprinting method using a pectin based bioink. Technology and Health Care, 2017, 25, 651-655. | 0.5 | 30 |
| 16 | Biocompatibility and membrane strength of C3H10T1/2 cell-loaded alginate-based microcapsules. Cytotherapy, 2008, 10, 90-97. | 0.3 | 25 |
| 17 | Calcium-oligochitosan-pectin microcarrier for colonic drug delivery. Pharmaceutical Development and Technology, 2020, 25, 260-265. | 1.1 | 22 |
| 18 | Engineering Microvascularized 3D Tissue Using Alginate-Chitosan Microcapsules. Journal of Biomaterials and Tissue Engineering, 2017, 7, 170-173. | 0.0 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Bioencapsulation Technologies in Tissue Engineering. Journal of Applied Biomaterials and Functional Materials, 2016, 14, 395-403. | 0.7 | 19 |
| 20 | Development of a Microscale Red Blood Cell-Shaped Pectin-Oligochitosan Hydrogel System Using an Electrospray-Vibration Method: Preparation and Characterization. Journal of Applied Biomaterials and Functional Materials, 2015, 13, 326-331. | 0.7 | 18 |
| 21 | Design of a Novel Oxygen Therapeutic Using Polymeric Hydrogel Microcapsules Mimicking Red Blood Cells. Pharmaceutics, 2019, 11, 583. | 2.0 | 18 |
| 22 | A Novel Redâ€Bloodâ€Cellâ€Shaped Pectinâ€Oligochitosan Hydrogel System. Particle and Particle Systems Characterization, 2014, 31, 955-959. | 1.2 | 17 |
| 23 | Supercritical CO<sub>2</sub>Spray Drying of Ethyl Cellulose (EC) for Preparing Microparticles. Drying Technology, 2008, 26, 464-469. | 1.7 | 14 |
| 24 | Stability improvement and characterization of bioprinted pectin-based scaffold. Journal of Applied Biomaterials and Functional Materials, 2019, 17, 228080001880710. | 0.7 | 14 |
| 25 | Design of pectin-based bioink containing bioactive agent-loaded microspheres for bioprinting. Biomedical Physics and Engineering Express, 2019, 5, 067004. | 0.6 | 12 |
| 26 | Green Synthesis of Gold Nanoparticles Using Upland Cress and Their Biochemical Characterization and Assessment. Nanomaterials, 2022, 12, 28. | 1.9 | 11 |
| 27 | Design of Artificial Red Blood Cells using Polymeric Hydrogel Microcapsules: Hydrogel Stability Improvement and Polymer Selection. International Journal of Artificial Organs, 2016, 39, 518-523. | 0.7 | 9 |
| 28 | Development of Gelatin-Coated Microspheres for Novel Bioink Design. Polymers, 2021, 13, 3339. | 2.0 | 6 |
| 29 | Biosynthesis of silver nanoparticles using upland cress: purification, characterisation, and antimicrobial activity. Micro and Nano Letters, 2020, 15, 110-113. | 0.6 | 4 |
| 30 | Encapsulation of Transgenic Cells for Gene Therapy. , 0, , . | | 1 |
| 31 | Design and Stability Improvement of Pectin-Based Red Blood Cell-Mimicking Microcapsules for Oxygen Therapeutics. Journal of Biomedical Nanotechnology, 2021, 17, 1798-1805. | 0.5 | 1 |
| 32 | A Novel Method for Microencapsulation of Protein Using High-voltage Electrostatic Field System. , 2006, , . | | 0 |
| 33 | Hydrogels: A Novel Red-Blood-Cell-Shaped Pectin-Oligochitosan Hydrogel System (Part. Part. Syst.) Tj ETQq1 1 0.784314 rgBT /Overlo | 1.2 | 0 |
| 34 | Nanotechnology for Bioengineers. Synthesis Lectures on Biomedical Engineering, 2020, 15, 1-109. | 0.1 | 0 |
| 35 | Increasing Motivation and Enhancing the Chemistry Enrichment Experience of Incoming Students Through the Use of Lectures Related to Chemistry in Engineering and ALEKSÂ® System. , 0, , . | | 0 |