Dissolvable microneedle fabrication using piezoelectric

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Citation Report

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Accuracy and feasibility of piezoelectric inkjet coating technology for applications in microneedle-based transdermal delivery. Microelectronic Engineering, 2017, 172, 19-25. | 2.4 | 18 |
| 2 | Microneedle, bio-microneedle and bio-inspired microneedle: A review. Journal of Controlled Release, 2017, 251, 11-23. | 9.9 | 285 |
| 3 | Fabrication of coated polymer microneedles for transdermal drug delivery. Journal of Controlled Release, 2017, 265, 14-21. | 9.9 | 131 |
| 4 | Engineering Microneedle Patches for Vaccination and Drug Delivery to Skin. Annual Review of Chemical and Biomolecular Engineering, 2017, 8, 177-200. | 6.8 | 284 |
| 5 | Dissolving Microneedle Patches for Dermal Vaccination. Pharmaceutical Research, 2017, 34, 2223-2240. | 3.5 | 139 |
| 6 | The numerical and experimental research on injection performance of piezoelectric micro-jet. Ceramics International, 2017, 43, S27-S35. | 4.8 | 3 |
| 7 | Influences of Excitation on Dynamic Characteristics of Piezoelectric Micro-Jets. Micromachines, 2017, 8, 213. | 2.9 | 7 |
| 8 | 3D printing applications for transdermal drug delivery. International Journal of Pharmaceutics, 2018, 544, 415-424. | 5.2 | 165 |
| 9 | An update on coating/manufacturing techniques of microneedles. Drug Delivery and Translational Research, 2018, 8, 1828-1843. | 5.8 | 63 |
| 10 | Controllable printing droplets on demand by piezoelectric inkjet: applications and methods. Microsystem Technologies, 2018, 24, 879-889. | 2.0 | 25 |
| 11 | A Trace Redundant Lubrication Piezoelectric Microjet for Bearing System. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2263-2272. | 5.8 | 24 |
| 12 | Individually coated microneedles for co-delivery of multiple compounds with different properties. Drug Delivery and Translational Research, 2018, 8, 1043-1052. | 5.8 | 32 |
| 13 | Piezoelectric micro-jet devices: A review. Sensors and Actuators A: Physical, 2019, 297, 111552. | 4.1 | 56 |
| 14 | Application of Micro-Scale 3D Printing in Pharmaceutics. Pharmaceutics, 2019, 11, 390. | 4.5 | 47 |
| 15 | Piezoelectric inkjet coating of injection moulded, reservoir-tipped microneedle arrays for transdermal delivery. Journal of Micromechanics and Microengineering, 2019, 29, 085004. | 2.6 | 9 |
| 16 | Kinetics of collagen microneedle drug delivery system. Journal of Drug Delivery Science and Technology, 2019, 52, 618-623. | 3.0 | 21 |
| 17 | 3D Printing of Pharmaceuticals and Transdermal Drug Delivery––An Overview. Minerals, Metals and Materials Series, 2019, , 1563-1573. | 0.4 | 5 |
| 18 | 3D PRINTING IN PHARMACEUTICAL TECHNOLOGY: A REVIEW. International Research Journal of Pharmacy, 2019, 10, 8-17. | 0.2 | 5 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | A fast-dissolving microneedle array loaded with chitosan nanoparticles to evoke systemic immune responses in mice. Journal of Materials Chemistry B, 2020, 8, 216-225. | 5.8 | 45 |
| 20 | 3D printing for drug delivery and biomedical applications. Drug Discovery Today, 2020, 25, 1668-1681. | 6.4 | 119 |
| 21 | 3D Printing Technologies: Recent Development and Emerging Applications in Various Drug Delivery Systems. AAPS PharmSciTech, 2020, 21, 220. | 3.3 | 55 |
| 22 | Transdermal drug delivery and patches—An overview. Medical Devices & Sensors, 2020, 3, e10069. | 2.7 | 43 |
| 23 | Biomedical Applications of Polymeric Microneedles for Transdermal Therapeutic Delivery and Diagnosis: Current Status and Future Perspectives. Advanced Therapeutics, 2020, 3, 1900140. | 3.2 | 34 |
| 24 | Folic acidâ€modified nonionic surfactant vesicles for gambogenic acid targeting: Preparation, characterization, and in vitro and in vivo evaluation. Kaohsiung Journal of Medical Sciences, 2020, 36, 344-353. | 1.9 | 4 |
| 25 | pH-responsive lipid polymer hybrid nanoparticles (LPHNs) based on poly (β-amino ester) as a promising candidate to resist breast cancers. Journal of Drug Delivery Science and Technology, 2021, 61, 102102. | 3.0 | 10 |
| 26 | Influence of input signal on injection performance for needle driven piezoelectric micro-jet device. Microsystem Technologies, 2021, 27, 2009-2019. | 2.0 | 2 |
| 27 | Low Adenovirus Vaccine Doses Administered to Skin Using Microneedle Patches Induce Better Functional Antibody Immunogenicity as Compared to Systemic Injection. Vaccines, 2021, 9, 299. | 4.4 | 10 |
| 28 | Dissolvable Microneedle Patches to Enable Increased Access to Vaccines against SARS-CoV-2 and Future Pandemic Outbreaks. Vaccines, 2021, 9, 320. | 4.4 | 36 |
| 29 | 2D and 3D inkjet printing of biopharmaceuticals – A review of trends and future perspectives in research and manufacturing. International Journal of Pharmaceutics, 2021, 599, 120443. | 5.2 | 44 |
| 30 | Advances in Piezoelectric Jet and Atomization Devices. Applied Sciences (Switzerland), 2021, 11, 5093. | 2.5 | 8 |
| 31 | Inkjet printing of small molecules, biologics, and nanoparticles. International Journal of Pharmaceutics, 2021, 600, 120462. | 5.2 | 32 |
| 32 | Engineering of an automated nano-droplet dispensing system for fabrication of antigen-loaded dissolving microneedle arrays. International Journal of Pharmaceutics, 2021, 600, 120473. | 5.2 | 10 |
| 33 | 3D Printing—A "Touch-Button―Approach to Manufacture Microneedles for Transdermal Drug Delivery. Pharmaceutics, 2021, 13, 924. | 4.5 | 16 |
| 34 | Efficient Drug Delivery into Skin Using a Biphasic Dissolvable Microneedle Patch with Waterâ€Insoluble Backing. Advanced Functional Materials, 2021, 31, 2103359. | 14.9 | 21 |
| 35 | Fabrication, evaluation and applications of dissolving microneedles. International Journal of Pharmaceutics, 2021, 604, 120749. | 5.2 | 57 |
| 37 | A Review on Solid Microneedles for Biomedical Applications. Journal of Pharmaceutical Innovation, 2022, 17, 1464-1483. | 2.4 | 23 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 38 | 3D Printing in medicine: Technology overview and drug delivery applications. Annals of 3D Printed Medicine, 2021, 4, 100037. | 3.1 | 28 |
| 39 | Fabrication of microneedles. , 2022, , 21-48. | | 0 |
| 40 | Trends in drug- and vaccine-based dissolvable microneedle materials and methods of fabrication. European Journal of Pharmaceutics and Biopharmaceutics, 2022, 173, 54-72. | 4.3 | 38 |
| 41 | Microneedles in Action: Microneedling and Microneedles-Assisted Transdermal Delivery. Polymers, 2022, 14, 1608. | 4.5 | 16 |
| 42 | Potential of Microneedle Systems for COVID-19 Vaccination: Current Trends and Challenges. Pharmaceutics, 2022, 14, 1066. | 4.5 | 11 |
| 43 | Microneedle patch tattoos. IScience, 2022, 25, 105014. | 4.1 | 12 |
| 44 | Research progress on detachable microneedles for advanced applications. Expert Opinion on Drug Delivery, 2022, 19, 1115-1131. | 5.0 | 3 |
| 45 | Expanding Quality by Design Principles to Support 3D Printed Medical Device Development Following the Renewed Regulatory Framework in Europe. Biomedicines, 2022, 10, 2947. | 3.2 | 3 |
| 46 | Recent Advances in Multifunctional Microneedle Patches for Wound Healing and Health Monitoring. Advanced NanoBiomed Research, 2023, 3, . | 3.6 | 12 |
| 47 | Technical evaluation of precisely manufacturing customized microneedle array patches via inkjet drug printing. International Journal of Pharmaceutics, 2023, 642, 123173. | 5.2 | 3 |
| 48 | Control strategy and mechanism for satellite droplet reduction. International Journal of Pharmaceutics, 2023, 643, 123228. | 5.2 | 0 |
| 49 | Dissolving and Swelling Hydrogel-Based Microneedles: An Overview of Their Materials, Fabrication, Characterization Methods, and Challenges. Gels, 2023, 9, 806. | 4.5 | 3 |
| 50 | The Progress in the Application of Dissolving Microneedles in Biomedicine. Polymers, 2023, 15, 4059. | 4.5 | 1 |
| 51 | Design and fabrication of customizable microneedles enabled by 3D printing for biomedical applications. Bioactive Materials, 2024, 32, 222-241. | 15.6 | 0 |
| 52 | 3D printing of biologics—what has been accomplished to date?. Drug Discovery Today, 2024, 29, 103823. | 6.4 | 0 |
| 53 | Inkjet Printing of Pharmaceuticals. Advanced Materials, 0, , . | 21.0 | 2 |
| 54 | Additive manufacturing methods for pharmaceutical and medical applications. , 2024, , 345-390. | | 0 |
| 55 | 3D Printing in pharmaceutical manufacturing: Current status and future prospects. Materials Today Communications, 2024, 38, 107987. | 1.9 | 0 |