Jung-Hwan Park

List of Publications by Year
in descending order

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52 papers	5,697 citations	218592 26 h-index	182361 51 g-index
52 all docs	52 docs citations	52 times ranked	3883 citing authors

#	Article	IF	Citations
1	Microneedles for drug and vaccine delivery. Advanced Drug Delivery Reviews, 2012, 64, 1547-1568.	6.6	1,279
2	Biodegradable polymer microneedles: Fabrication, mechanics and transdermal drug delivery. Journal of Controlled Release, 2005, 104, 51-66.	4.8	793
3	Dissolving microneedles for transdermal drug delivery. Biomaterials, 2008, 29, 2113-2124.	5.7	715
4	Microfabricated needles for transdermal delivery of macromolecules and nanoparticles: Fabrication methods and transport studies. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13755-13760.	3.3	704
5	Polymer Microneedles for Controlled-Release Drug Delivery. Pharmaceutical Research, 2006, 23, 1008-1019.	1.7	396
6	Hydrogel swelling as a trigger to release biodegradable polymer microneedles in skin. Biomaterials, 2012, 33, 668-678.	5.7	178
7	A microneedle roller for transdermal drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 76, 282-289.	2.0	140
8	Tapered Conical Polymer Microneedles Fabricated Using an Integrated Lens Technique for Transdermal Drug Delivery. IEEE Transactions on Biomedical Engineering, 2007, 54, 903-913.	2.5	133
9	Polymer particle-based micromolding to fabricate novel microstructures. Biomedical Microdevices, 2007, 9, 223-234.	1.4	108
10	Tip-loaded dissolving microneedles for transdermal delivery of donepezil hydrochloride for treatment of Alzheimerâ€™s disease. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 105, 148-155.	2.0	97
11	Polymer microneedles for transdermal drug delivery. Journal of Drug Targeting, 2013, 21, 211-223.	2.1	77
12	Analysis of mechanical failure of polymer microneedles by axial force. Journal of the Korean Physical Society, 2010, 56, 1223-1227.	0.3	74
13	Considerations in the use of microneedles: pain, convenience, anxiety and safety. Journal of Drug Targeting, 2017, 25, 29-40.	2.1	72
14	Insertion-responsive microneedles for rapid intradermal delivery of canine influenza vaccine. Journal of Controlled Release, 2018, 286, 460-466.	4.8	72
15	Bleomycin-Coated Microneedles for Treatment of Warts. Pharmaceutical Research, 2017, 34, 101-112.	1.7	63
16	Local dermal delivery of cyclosporin A, a hydrophobic and high molecular weight drug, using dissolving microneedles. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 127, 237-243.	2.0	62
17	Fabrication of Circular Obelisk-Type Multilayer Microneedles Using Micro-Milling and Spray Deposition. Frontiers in Bioengineering and Biotechnology, 2018, 6, 54.	2.0	45
18	Progress in microneedle array patch (MAP) for vaccine delivery. Human Vaccines and Immunotherapeutics, 2021, 17, 316-327.	1.4	45

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19	Wireless induction heating in a microfluidic device for cell lysis. Lab on A Chip, 2010, 10, 909.	3.1	41
20	Spray-Formed Layered Polymer Microneedles for Controlled Biphasic Drug Delivery. Polymers, 2019, 11, 369.	2.0	41
21	Use of hollow microneedles for targeted delivery of phenylephrine to treat fecal incontinence. Journal of Controlled Release, 2015, 207, 1-6.	4.8	36
22	Local transdermal delivery of phenylephrine to the anal sphincter muscle using microneedles. Journal of Controlled Release, 2011, 154, 138-147.	4.8	35
23	Microneedles for drug delivery: recent advances in materials and geometry for preclinical and clinical studies. Expert Opinion on Drug Delivery, 2021, 18, 929-947.	2.4	35
24	Immediate separation of microneedle tips from base array during skin insertion for instantaneous drug delivery. RSC Advances, 2018, 8, 17786-17796.	1.7	33
25	Microneedles with dual release pattern for improved immunological efficacy of Hepatitis B vaccine. International Journal of Pharmaceutics, 2020, 591, 119928.	2.6	30
26	The Current Status of Clinical Research Involving Microneedles: A Systematic Review. Pharmaceutics, 2020, 12, 1113.	2.0	28
27	Efficacy of a bleomycin microneedle patch for the treatment of warts. Drug Delivery and Translational Research, 2018, 8, 273-280.	3.0	28
28	Preclinical study of influenza bivalent vaccine delivered with a two compartmental microneedle array. Journal of Controlled Release, 2020, 324, 280-288.	4.8	27
29	Microneedles containing cross-linked hyaluronic acid particulates for control of degradation and swelling behaviour after administration into skin. Journal of Drug Targeting, 2018, 26, 884-894.	2.1	25
30	Skin immunization with third-generation hepatitis B surface antigen using microneedles. Vaccine, 2019, 37, 5954-5961.	1.7	25
31	Integrated vertical screen microfilter system using inclined SU-8 structures. , 0, , .		24
32	Ovalbumin and cholera toxin delivery to buccal mucus for immunization using microneedles and comparison of immunological response to transmucosal delivery. Drug Delivery and Translational Research, 2021, 11, 1390-1400.	3.0	23
33	Preparation of H1N1 microneedles by a low-temperature process without a stabilizer. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 143, 1-7.	2.0	20
34	Peri-tumor administration of 5-fluorouracil sol-gel using a hollow microneedle for treatment of gastric cancer. Drug Delivery, 2018, 25, 872-879.	2.5	19
35	Microneedle Array Patch (MAP) Consisting of Crosslinked Hyaluronic Acid Nanoparticles for Processability and Sustained Release. Pharmaceutical Research, 2020, 37, 50.	1.7	18
36	A tearable dissolving microneedle system for shortening application time. Expert Opinion on Drug Delivery, 2019, 16, 199-206.	2.4	17

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37	Safe Coated Microneedles with Reduced Puncture Occurrence after Administration. Micromachines, 2020, 11, 710.	1.4	17
38	A wireless sequentially actuated microvalve system. Journal of Micromechanics and Microengineering, 2013, 23, 045006.	1.5	16
39	Development of Botulinum Toxin A-Coated Microneedles for Treating Palmar Hyperhidrosis. Molecular Pharmaceutics, 2019, 16, 4913-4919.	2.3	15
40	Patchless administration of canine influenza vaccine on dogâ€™s ear using insertion-responsive microneedles (IRMN) without removal of hair and its in vivo efficacy evaluation. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 153, 150-157.	2.0	15
41	Characterization of Hepatitis B Surface Antigen Loaded Polylactic Acid-Based Microneedle and Its Dermal Safety Profile. Pharmaceutics, 2020, 12, 531.	2.0	13
42	Ultrasonic welding method to fabricate polymer microstructure encapsulating protein with minimum damage. Macromolecular Research, 2008, 16, 570-573.	1.0	12
43	Dissolving Microneedle Systems for the Oral Mucosal Delivery of Triamcinolone Acetonide to Treat Aphthous Stomatitis. Macromolecular Research, 2019, 27, 282-289.	1.0	12
44	Preparation and evaluation of rapid disintegrating formulation from coated microneedle. Drug Delivery and Translational Research, 2022, 12, 415-425.	3.0	7
45	Development and clinical study of the use of infrared radiation to accelerate the dissolution rate of a microneedle array patch (MAP). Drug Delivery and Translational Research, 2020, 10, 791-800.	3.0	6
46	Administration of a Sol-Gel Formulation of Phenylephrine Using Low-Temperature Hollow Microneedle for Treatment of Intermittent Fecal Incontinence. Pharmaceutical Research, 2017, 34, 2809-2816.	1.7	5
47	Epicutaneous Allergen Administration with Microneedles as a Novel Method of Immunotherapy for House Dust Mite (HDM) Allergic Rhinitis. Pharmaceutical Research, 2021, 38, 1199-1207.	1.7	5
48	Development of the H3N2 influenza microneedle vaccine for cross-protection against antigenic variants. Scientific Reports, 2022, 12, .	1.6	5
49	Development of a Microneedle Swab for Acquisition of Genomic DNA From Buccal Cells. Frontiers in Bioengineering and Biotechnology, 2022, 10, 829648.	2.0	4
50	A portable electromagnetic induction heating device for point-of-care diagnostics. Biochip Journal, 2016, 10, 208-214.	2.5	3
51	3-Dimensional Coating Polymer Microneedles for Economical and Efficient Transdermal Drug Delivery. Porrime, 2014, 38, 391-396.	0.0	2
52	The Relationship between the Drug Delivery Properties of a Formulation of Teriparatide Microneedles and the Pharmacokinetic Evaluation of Teriparatide Administration in Rats. Pharmaceutical Research, 2022, 39, 989-999.	1.7	2