

Hyungil Jung

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,184
citations

186265
28
h-index

223800
46
g-index

55
all docs

55
docs citations

55
times ranked

1624
citing authors

#	ARTICLE	IF	CITATIONS
1	Droplet-born air blowing: Novel dissolving microneedle fabrication. <i>Journal of Controlled Release</i> , 2013, 170, 430-436.	9.9	216
2	Dissolving microneedles for transdermal drug administration prepared by stepwise controlled drawing of maltose. <i>Biomaterials</i> , 2011, 32, 3134-3140.	11.4	166
3	Drawing Lithography: Three-dimensional Fabrication of an Ultrahigh Aspect Ratio Microneedle. <i>Advanced Materials</i> , 2010, 22, 483-486.	21.0	159
4	Drawing lithography for microneedles: A review of fundamentals and biomedical applications. <i>Biomaterials</i> , 2012, 33, 7309-7326.	11.4	131
5	An optimized hollow microneedle for minimally invasive blood extraction. <i>Biomedical Microdevices</i> , 2013, 15, 17-25.	2.8	102
6	A patchless dissolving microneedle delivery system enabling rapid and efficient transdermal drug delivery. <i>Scientific Reports</i> , 2015, 5, 7914.	3.3	101
7	Anti-obesity effect of a novel caffeine-loaded dissolving microneedle patch in high-fat diet-induced obese C57BL/6J mice. <i>Journal of Controlled Release</i> , 2017, 265, 41-47.	9.9	83
8	Transcutaneous implantation of valproic acid-encapsulated dissolving microneedles induces hair regrowth. <i>Biomaterials</i> , 2018, 167, 69-79.	11.4	71
9	Implantable powder-carrying microneedles for transdermal delivery of high-dose insulin with enhanced activity. <i>Biomaterials</i> , 2020, 232, 119733.	11.4	67
10	Innovative polymeric system (IPS) for solvent-free lipophilic drug transdermal delivery via dissolving microneedles. <i>Journal of Controlled Release</i> , 2016, 223, 118-125.	9.9	62
11	Centrifugal Lithography: Self-shaping of Polymer Microstructures Encapsulating Biopharmaceutics by Centrifuging Polymer Drops. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700326.	7.6	60
12	Transdermal finasteride delivery via powder-carrying microneedles with a diffusion enhancer to treat androgenetic alopecia. <i>Journal of Controlled Release</i> , 2019, 316, 1-11.	9.9	52
13	Evaluation of the anti-wrinkle effect of an ascorbic acid-loaded dissolving microneedle patch via a double-blind, placebo-controlled clinical study. <i>International Journal of Cosmetic Science</i> , 2016, 38, 375-381.	2.6	48
14	Dissolving microneedle with high molecular weight hyaluronic acid to improve skin wrinkles, dermal density and elasticity. <i>International Journal of Cosmetic Science</i> , 2020, 42, 302-309.	2.6	44
15	Nanostructured lipid carrier-loaded hyaluronic acid microneedles for controlled dermal delivery of a lipophilic molecule. <i>International Journal of Nanomedicine</i> , 2014, 9, 289.	6.7	42
16	Dissolving Microneedles for Rapid and Painless Local Anesthesia. <i>Pharmaceutics</i> , 2020, 12, 366.	4.5	42
17	Overexpressing antioxidant enzymes enhances naphthalene biodegradation in <i>Pseudomonas</i> sp. strain As1. <i>Microbiology (United Kingdom)</i> , 2007, 153, 3246-3254.	1.8	39
18	Physicochemical study of ascorbic acid 2-glucoside loaded hyaluronic acid dissolving microneedles irradiated by electron beam and gamma ray. <i>Carbohydrate Polymers</i> , 2018, 180, 297-303.	10.2	38

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19	Rapid implantation of dissolving microneedles on an electrospun pillar array. <i>Biomaterials</i> , 2015, 64, 70-77.	11.4	37
20	Adenosine-loaded dissolving microneedle patches to improve skin wrinkles, dermal density, elasticity and hydration. <i>International Journal of Cosmetic Science</i> , 2018, 40, 199-206.	2.6	37
21	Tissue Interlocking Dissolving Microneedles for Accurate and Efficient Transdermal Delivery of Biomolecules. <i>Scientific Reports</i> , 2019, 9, 7886.	3.3	37
22	Development of Lidocaine-Loaded Dissolving Microneedle for Rapid and Efficient Local Anesthesia. <i>Pharmaceutics</i> , 2020, 12, 1067.	4.5	36
23	Comparative Study of Two Droplet-Based Dissolving Microneedle Fabrication Methods for Skin Vaccination. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701381.	7.6	35
24	Enhanced Transdermal Delivery by Combined Application of Dissolving Microneedle Patch on Serum-Treated Skin. <i>Molecular Pharmaceutics</i> , 2017, 14, 2024-2031.	4.6	34
25	Effects of two droplet-based dissolving microneedle manufacturing methods on the activity of encapsulated epidermal growth factor and ascorbic acid. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 114, 285-292.	4.0	31
26	Micro-Pillar Integrated Dissolving Microneedles for Enhanced Transdermal Drug Delivery. <i>Pharmaceutics</i> , 2019, 11, 402.	4.5	31
27	4-Butylresorcinol dissolving microneedle patch for skin depigmentation: a randomized, double-blind, placebo-controlled trial. <i>Journal of Cosmetic Dermatology</i> , 2016, 15, 16-23.	1.6	30
28	Dissolving Candlelit Microneedle for Chronic Inflammatory Skin Diseases. <i>Advanced Science</i> , 2021, 8, 2004873.	11.2	30
29	Exendin-4-encapsulated dissolving microneedle arrays for efficient treatment of type 2 diabetes. <i>Scientific Reports</i> , 2018, 8, 1170.	3.3	29
30	Effects of dissolving microneedle fabrication parameters on the activity of encapsulated lysozyme. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 117, 290-296.	4.0	29
31	High-Dose Steroid Dissolving Microneedle for Relieving Atopic Dermatitis. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001691.	7.6	27
32	The Troy Microneedle: A Rapidly Separating, Dissolving Microneedle Formed by Cyclic Contact and Drying on the Pillar (CCDP). <i>PLoS ONE</i> , 2015, 10, e0136513.	2.5	21
33	Combinatorial application of dissolving microneedle patch and cream for improvement of skin wrinkles, dermal density, elasticity, and hydration. <i>Journal of Cosmetic Dermatology</i> , 2019, 18, 1083-1091.	1.6	21
34	Effect of sodium hydroxide treatment of bacterial cellulose on cellulase activity. <i>Cellulose</i> , 2008, 15, 465-471.	4.9	20
35	Skin Barrier Restoration and Moisturization Using Horse Oil-Loaded Dissolving Microneedle Patches. <i>Skin Pharmacology and Physiology</i> , 2018, 31, 163-171.	2.5	19
36	Clinical Evaluation of a Low-pain Long Microneedle for Subcutaneous Insulin Injection. <i>Biochip Journal</i> , 2018, 12, 309-316.	4.9	18

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37	Two-phase delivery using a horse oil and adenosine-loaded dissolving microneedle patch for skin barrier restoration, moisturization, and wrinkle improvement. <i>Journal of Cosmetic Dermatology</i> , 2019, 18, 936-943.	1.6	18
38	Solvent-Free Polycaprolactone Dissolving Microneedles Generated via the Thermal Melting Method for the Sustained Release of Capsaicin. <i>Micromachines</i> , 2021, 12, 167.	2.9	17
39	Ribosome Display and Dip-Pen Nanolithography for the Fabrication of Protein Nanoarrays. <i>Advanced Materials</i> , 2008, 20, 3349-3353.	21.0	16
40	Tower Microneedle Via Reverse Drawing Lithography for Innocuous Intravitreal Drug Delivery. <i>Advanced Healthcare Materials</i> , 2013, 2, 812-816.	7.6	16
41	Tower microneedle minimizes vitreal reflux in intravitreal injection. <i>Biomedical Microdevices</i> , 2013, 15, 841-848.	2.8	13
42	A Novel Ultrafine Needle (UN) for Innocuous and Efficient Subcutaneous Insulin Delivery. <i>Advanced Functional Materials</i> , 2017, 27, 1603228.	14.9	8
43	Optimization of Layered Dissolving Microneedle for Sustained Drug Delivery Using Heat-Melted Poly(Lactic-Co-glycolic Acid). <i>Pharmaceutics</i> , 2021, 13, 1058.	4.5	8
44	An Arched Micro-Injector (ARCMi) for Innocuous Subretinal Injection. <i>PLoS ONE</i> , 2014, 9, e104145.	2.5	7
45	Dual-Mode Vasodilator M119 Delivery to Hair Follicle via Dissolving Microneedle for Advanced Alopecia Treatment. <i>Advanced Therapeutics</i> , 2022, 5, .	3.2	6
46	Intravitreal injection of anti-vascular endothelial growth factor (anti-VEGF) antibody via Tower Microneedle. <i>Biochip Journal</i> , 2015, 9, 232-238.	4.9	5
47	Extraction method for manipulation of water- and organic-soluble extracts of PM2.5 in Korean winter season and its chemical composition. <i>Toxicology and Environmental Health Sciences</i> , 2013, 5, 55-64.	2.1	4
48	Development of a quantitative method for active epidermal growth factor extracted from dissolving microneedle by solid phase extraction and liquid chromatography electrospray ionization mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 131, 297-302.	2.8	4
49	An Insulin Microneedle Pen (IMP) for Self-Subcutaneous Insulin Injection. <i>Advanced Materials Technologies</i> , 2018, 3, 1800234.	5.8	4
50	Minimally invasive curved-micro-drainer (CMD) capable of innocuous drainage of subretinal fluid for the treatment of retinal detachment. <i>Biomedical Microdevices</i> , 2016, 18, 65.	2.8	3
51	Scalp Micro-Pigmentation via Transcutaneous Implantation of Flexible Tissue Interlocking Biodegradable Microneedles. <i>Pharmaceutics</i> , 2019, 11, 549.	4.5	3
52	Clinical Evaluation of a Novel Micro-lancet (ML) for Minimizing Lancing Pain. <i>Biochip Journal</i> , 2019, 13, 394-402.	4.9	3
53	Drug Delivery: Drawing Lithography: Three-Dimensional Fabrication of an Ultrahigh-Aspect-Ratio Microneedle (<i>Adv. Mater.</i> 4/2010). <i>Advanced Materials</i> , 2010, 22, NA-NA.	21.0	0
54	Replication of label-free guided mode resonance filter for protein-sensors using UV nanoimprinting process with metallic nano stamp. , 2010, , .		0