

Ryan F Donnelly

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

334
papers

13,762
citations

64
h-index

102
g-index

367
ext. papers

17,186
ext. citations

6.2
avg, IF

7.05
L-index

#	Paper	IF	Citations
334	Immune Response after Skin Delivery of a Recombinant Heat-Labile Enterotoxin B Subunit of Enterotoxigenic in Mice.. <i>Pharmaceutics</i> , 2022 , 14,	6.4	1
333	Bioinspired microneedle patches: Biomimetic designs, fabrication, and biomedical applications. <i>Matter</i> , 2022 , 5, 390-429	12.7	6
332	Systemic delivery of tenofovir alafenamide using dissolving and implantable microneedle patches.. <i>Materials Today Bio</i> , 2022 , 13, 100217	9.9	3
331	Long-lasting drug delivery systems based on microneedles 2022 , 249-287		1
330	Overview of the clinical current needs and potential applications for long-acting and implantable delivery systems 2022 , 1-16		0
329	Novel Bilayer Microarray Patch-Assisted Long-Acting Micro-Depot Cabotegravir Intradermal Delivery for HIV Pre-Exposure Prophylaxis (Adv. Funct. Mater. 9/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270059	15.6	
328	The Role of 3D Printing Technology in Microengineering of Microneedles.. <i>Small</i> , 2022 , e2106392	11	2
327	Nanosuspension-loaded dissolving bilayer microneedles for hydrophobic drug delivery to the posterior segment of the eye 2022 , 212767		3
326	Development and characterization of a dry reservoir-hydrogel-forming microneedles composite for minimally invasive delivery of cefazolin.. <i>International Journal of Pharmaceutics</i> , 2022 , 121593	6.5	1
325	3D-printed implantable devices with biodegradable rate-controlling membrane for sustained delivery of hydrophobic drugs.. <i>Drug Delivery</i> , 2022 , 29, 1038-1048	7	0
324	HPLC-MS method for simultaneous quantification of the antiretroviral agents rilpivirine and cabotegravir in rat plasma and tissues.. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022 , 213, 114698	3.5	1
323	Nanocrystals as a master key to deliver hydrophobic drugs via multiple administration routes.. <i>Journal of Controlled Release</i> , 2022 , 345, 334-353	11.7	9
322	Super-swelling hydrogel-forming microneedle based transdermal drug delivery: Mathematical modelling, simulation and experimental validation. <i>International Journal of Pharmaceutics</i> , 2022 , 622, 121835	6.5	2
321	Beneath the Skin: A Review of Current Trends and Future Prospects of Transdermal Drug Delivery Systems. <i>Pharmaceutics</i> , 2022 , 14, 1152	6.4	4
320	Development and validation of simple and sensitive HPLC-UV method for ethambutol hydrochloride detection following transdermal application.. <i>Analytical Methods</i> , 2021 ,	3.2	2
319	A novel in vitro approach to investigate the effect of food intake on release profile of valsartan in solid dispersion-floating gel in-situ delivery system. <i>European Journal of Pharmaceutical Sciences</i> , 2021 , 168, 106057	5.1	0
318	Trilayer microneedle array assisted transdermal and intradermal delivery of dexamethasone. <i>International Journal of Pharmaceutics</i> , 2021 , 612, 121295	6.5	4

317	Validation of spectrophotometric method to quantify cabotegravir in simulated vaginal fluid and porcine vaginal tissue in ex vivo permeation and retention studies from thermosensitive and mucoadhesive gels. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 267, 120600	4.4	0
316	Nestorone nanosuspension-loaded dissolving microneedles array patch: A promising novel approach for "on-demand" hormonal female-controlled peritocoital contraception.. <i>International Journal of Pharmaceutics</i> , 2021 , 614, 121422	6.5	2
315	Development of thermosensitive and mucoadhesive gels of cabotegravir for enhanced permeation and retention profiles in vaginal tissue: A proof of concept study. <i>International Journal of Pharmaceutics</i> , 2021 , 609, 121182	6.5	2
314	Dissolving microneedle patches loaded with amphotericin B microparticles for localised and sustained intradermal delivery: Potential for enhanced treatment of cutaneous fungal infections. <i>Journal of Controlled Release</i> , 2021 , 339, 361-380	11.7	12
313	Engineering Microneedle Patches for Improved Penetration: Analysis, Skin Models and Factors Affecting Needle Insertion. <i>Nano-Micro Letters</i> , 2021 , 13, 93	19.5	40
312	Laser irradiation of ocular tissues to enhance drug delivery. <i>International Journal of Pharmaceutics</i> , 2021 , 596, 120282	6.5	3
311	Nanocarrier vaccines for SARS-CoV-2. <i>Advanced Drug Delivery Reviews</i> , 2021 , 171, 215-239	18.5	37
310	Hollow microneedles: A perspective in biomedical applications. <i>International Journal of Pharmaceutics</i> , 2021 , 599, 120455	6.5	33
309	Antibiotic Therapy and the Gut Microbiome: Investigating the Effect of Delivery Route on Gut Pathogens. <i>ACS Infectious Diseases</i> , 2021 , 7, 1283-1296	5.5	2
308	Bioadhesive-Thermosensitive Vaginal Gel of the Gel Flake-Solid Dispersion of Itraconazole for Enhanced Antifungal Activity in the Treatment of Vaginal Candidiasis. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18128-18141	9.5	8
307	Artemether and lumefantrine dissolving microneedle patches with improved pharmacokinetic performance and antimalarial efficacy in mice infected with Plasmodium yoelii. <i>Journal of Controlled Release</i> , 2021 , 333, 298-315	11.7	17
306	Thermosensitive and mucoadhesive in situ ocular gel for effective local delivery and antifungal activity of itraconazole nanocrystal in the treatment of fungal keratitis. <i>International Journal of Pharmaceutics</i> , 2021 , 602, 120623	6.5	17
305	Microarray patches: Breaking down the barriers to contraceptive care and HIV prevention for women across the globe. <i>Advanced Drug Delivery Reviews</i> , 2021 , 173, 331-348	18.5	20
304	Rapidly dissolving microneedle patch of amphotericin B for intracorneal fungal infections. <i>Drug Delivery and Translational Research</i> , 2021 , 1	6.2	4
303	Exploration into the opinions of patients with HIV, healthcare professionals and the lay public of the use of microneedles in clinical practice: highlighting the translational potential for their role in HIV infection. <i>Drug Delivery and Translational Research</i> , 2021 , 11, 1199-1217	6.2	6
302	Microneedle technology 2021 , 345-366		2
301	Enhancing intradermal delivery of tofacitinib citrate: Comparison between powder-loaded hollow microneedle arrays and dissolving microneedle arrays. <i>International Journal of Pharmaceutics</i> , 2021 , 593, 120152	6.5	12
300	Versatility of hydrogel-forming microneedles in in vitro transdermal delivery of tuberculosis drugs. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 158, 294-312	5.7	21

299	Selective delivery of silver nanoparticles for improved treatment of biofilm skin infection using bacteria-responsive microparticles loaded into dissolving microneedles. <i>Materials Science and Engineering C</i> , 2021 , 120, 111786	8.3	28
298	Directly Compressed Tablets: A Novel Drug-Containing Reservoir Combined with Hydrogel-Forming Microneedle Arrays for Transdermal Drug Delivery. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001256	10.1	15
297	Microarray Patches: Poking a Hole in the Challenges Faced When Delivering Poorly Soluble Drugs. <i>Advanced Functional Materials</i> , 2021 , 31, 2005792	15.6	20
296	New and sensitive HPLC-UV method for concomitant quantification of a combination of antifilaria drugs in rat plasma and organs after simultaneous oral administration. <i>Analytical Methods</i> , 2021 , 13, 933-945	3.2	8
295	Development and validation of a high-performance liquid chromatography method for levothyroxine sodium quantification in plasma for pre-clinical evaluation of long-acting drug delivery systems. <i>Analytical Methods</i> , 2021 , 13, 5204-5210	3.2	2
294	Enhancement strategies for transdermal drug delivery systems: current trends and applications. <i>Drug Delivery and Translational Research</i> , 2021 , 1	6.2	48
293	Fabrication of lignin-based hydrogels and their applications 2021 , 371-394		1
292	From the laboratory to the end-user: a primary packaging study for microneedle patches containing amoxicillin sodium. <i>Drug Delivery and Translational Research</i> , 2021 , 11, 2169-2185	6.2	3
291	Recent advances in combination of microneedles and nanomedicines for lymphatic targeted drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021 , 13, e1690	9.2	11
290	Microneedle array systems for long-acting drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 159, 44-76	5.7	42
289	A Role for Extracellular Vesicles in SARS-CoV-2 Therapeutics and Prevention. <i>Journal of NeuroImmune Pharmacology</i> , 2021 , 16, 270-288	6.9	11
288	Fused deposition modelling for the development of drug loaded cardiovascular prosthesis. <i>International Journal of Pharmaceutics</i> , 2021 , 595, 120243	6.5	21
287	Microneedles for gene and drug delivery in skin cancer therapy. <i>Journal of Controlled Release</i> , 2021 , 335, 158-177	11.7	10
286	Designing a unique feedback mechanism for hydrogel-forming microneedle array patches: a concept study. <i>Drug Delivery and Translational Research</i> , 2021 , 1	6.2	
285	Smart Responsive Microarray Patches for Transdermal Drug Delivery and Biological Monitoring. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100996	10.1	2
284	The role of microneedle arrays in drug delivery and patient monitoring to prevent diabetes induced fibrosis. <i>Advanced Drug Delivery Reviews</i> , 2021 , 175, 113825	18.5	15
283	Long-acting nanoparticle-loaded bilayer microneedles for protein delivery to the posterior segment of the eye. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 165, 306-318	5.7	11
282	Albendazole Nanocrystal-Based Dissolving Microneedles with Improved Pharmacokinetic Performance for Enhanced Treatment of Cystic Echinococcosis. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38745-38760	9.5	7

281	Etravirine-loaded dissolving microneedle arrays for long-acting delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 165, 41-51	5.7	19
280	Hydrogel-forming microneedles for rapid and efficient skin deposition of controlled release tip-implants. <i>Materials Science and Engineering C</i> , 2021 , 127, 112226	8.3	13
279	Novel tip-loaded dissolving and implantable microneedle array patches for sustained release of finasteride. <i>International Journal of Pharmaceutics</i> , 2021 , 606, 120885	6.5	9
278	Synthesis and characterization of sorbitol laced hydrogel-forming microneedles for therapeutic drug monitoring. <i>International Journal of Pharmaceutics</i> , 2021 , 607, 121049	6.5	3
277	Use of 3D Printing for the Development of Biodegradable Antiplatelet Materials for Cardiovascular Applications. <i>Pharmaceutics</i> , 2021 , 14,	5.2	4
276	Poly(caprolactone)-based subcutaneous implant for sustained delivery of levothyroxine. <i>International Journal of Pharmaceutics</i> , 2021 , 607, 121011	6.5	5
275	HPLC method for levothyroxine quantification in long-acting drug delivery systems. Validation and evaluation of bovine serum albumin as levothyroxine stabilizer. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 203, 114182	3.5	3
274	Development of drug loaded cardiovascular prosthesis for thrombosis prevention using 3D printing. <i>Materials Science and Engineering C</i> , 2021 , 129, 112375	8.3	8
273	Microneedles for drug delivery and monitoring 2021 , 225-260		2
272	Dissolving microneedles containing aminolevulinic acid improves protoporphyrin IX distribution. <i>Journal of Biophotonics</i> , 2021 , 14, e202000128	3.1	6
271	Nanoemulsion-based dissolving microneedle arrays for enhanced intradermal and transdermal delivery.. <i>Drug Delivery and Translational Research</i> , 2021 , 12, 881	6.2	3
270	Coated polymeric needles for rapid and deep intradermal delivery. <i>International Journal of Pharmaceutics: X</i> , 2020 , 2, 100048	3.2	4
269	Microneedle Mediated Transdermal Delivery of Protein, Peptide and Antibody Based Therapeutics: Current Status and Future Considerations. <i>Pharmaceutical Research</i> , 2020 , 37, 117	4.5	37
268	Plasmonic photothermal microneedle arrays and single needles for minimally-invasive deep in-skin hyperthermia. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 5425-5433	7.3	7
267	Novel Design Approaches in the Fabrication of Polymeric Microarray Patches via Micromoulding. <i>Micromachines</i> , 2020 , 11,	3.3	10
266	A sensitive HPLC-UV method for quantifying vancomycin in biological matrices: Application to pharmacokinetic and biodistribution studies in rat plasma, skin and lymph nodes. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 189, 113429	3.5	8
265	Potential of Polymeric Films Loaded with Gold Nanorods for Local Hyperthermia Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
264	Development and characterisation of novel poly (vinyl alcohol)/poly (vinyl pyrrolidone)-based hydrogel-forming microneedle arrays for enhanced and sustained transdermal delivery of methotrexate. <i>International Journal of Pharmaceutics</i> , 2020 , 586, 119580	6.5	42

263	Dissolving microneedle-mediated dermal delivery of itraconazole nanocrystals for improved treatment of cutaneous candidiasis. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020 , 154, 50-61	5.7	42
262	Microneedle-Based Delivery: An Overview of Current Applications and Trends. <i>Pharmaceutics</i> , 2020 , 12,	6.4	53
261	Photothermal therapy. <i>Journal of Controlled Release</i> , 2020 , 325, 52-71	11.7	86
260	Development of a Biodegradable Subcutaneous Implant for Prolonged Drug Delivery Using 3D Printing. <i>Pharmaceutics</i> , 2020 , 12,	6.4	59
259	Evaluation of the clinical impact of repeat application of hydrogel-forming microneedle array patches. <i>Drug Delivery and Translational Research</i> , 2020 , 10, 690-705	6.2	37
258	A Novel Transdermal Protein Delivery Strategy via Electrohydrodynamic Coating of PLGA Microparticles onto Microneedles. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12478-12488	9.5	25
257	Phytosomal nanocarriers as platforms for improved delivery of natural antioxidant and photoprotective compounds in propolis: An approach for enhanced both dissolution behaviour in biorelevant media and skin retention profiles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 205, 111846	6.7	35
256	Hydrogel-forming microneedle arrays as a therapeutic option for transdermal esketamine delivery. <i>Journal of Controlled Release</i> , 2020 , 322, 177-186	11.7	42
255	Bacterially sensitive nanoparticle-based dissolving microneedles of doxycycline for enhanced treatment of bacterial biofilm skin infection: A proof of concept study. <i>International Journal of Pharmaceutics: X</i> , 2020 , 2, 100047	3.2	23
254	Enhancement in site-specific delivery of carvacrol for potential treatment of infected wounds using infection responsive nanoparticles loaded into dissolving microneedles: A proof of concept study. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020 , 147, 57-68	5.7	37
253	Pullulan-based dissolving microneedle arrays for enhanced transdermal delivery of small and large biomolecules. <i>International Journal of Biological Macromolecules</i> , 2020 , 146, 290-298	7.9	59
252	Gut Check Time: Antibiotic Delivery Strategies to Reduce Antimicrobial Resistance. <i>Trends in Biotechnology</i> , 2020 , 38, 447-462	15.1	11
251	Cellulose Nanofibers and Other Biopolymers for Biomedical Applications. A Review. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 65	2.6	57
250	Lignin for pharmaceutical and biomedical applications [Could this become a reality?]. <i>Sustainable Chemistry and Pharmacy</i> , 2020 , 18, 100320	3.9	14
249	Poly(caprolactone)-Based Coatings on 3D-Printed Biodegradable Implants: A Novel Strategy to Prolong Delivery of Hydrophilic Drugs. <i>Molecular Pharmaceutics</i> , 2020 , 17, 3487-3500	5.6	26
248	Localised and sustained intradermal delivery of methotrexate using nanocrystal-loaded microneedle arrays: Potential for enhanced treatment of psoriasis. <i>European Journal of Pharmaceutical Sciences</i> , 2020 , 152, 105469	5.1	38
247	Microneedle liquid injection system assisted delivery of infection responsive nanoparticles: A promising approach for enhanced site-specific delivery of carvacrol against polymicrobial biofilms-infected wounds. <i>International Journal of Pharmaceutics</i> , 2020 , 587, 119643	6.5	15
246	A Drug Content, Stability Analysis, and Qualitative Assessment of Pharmacists' Opinions of Two Exemplar Extemporaneous Formulations. <i>Molecules</i> , 2020 , 25,	4.8	4

245	Development, Evaluation, and Pharmacokinetic Assessment of Polymeric Microarray Patches for Transdermal Delivery of Vancomycin Hydrochloride. <i>Molecular Pharmaceutics</i> , 2020 , 17, 3353-3368	5.6	15
244	Two-Photon Polymerisation 3D Printing of Microneedle Array Templates with Versatile Designs: Application in the Development of Polymeric Drug Delivery Systems. <i>Pharmaceutical Research</i> , 2020 , 37, 174	4.5	47
243	3D printed microneedles for anticancer therapy of skin tumours. <i>Materials Science and Engineering C</i> , 2020 , 107, 110248	8.3	73
242	Influence of molecular weight on transdermal delivery of model macromolecules using hydrogel-forming microneedles: potential to enhance the administration of novel low molecular weight biotherapeutics. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 4202-4209	7.3	11
241	Understanding the basis of transcutaneous vaccine delivery. <i>Therapeutic Delivery</i> , 2019 , 10, 63-80	3.8	8
240	Lignin and Cellulose Blends as Pharmaceutical Excipient for Tablet Manufacturing via Direct Compression. <i>Biomolecules</i> , 2019 , 9,	5.9	24
239	Technology update: dissolvable microneedle patches for vaccine delivery. <i>Medical Devices: Evidence and Research</i> , 2019 , 12, 379-398	1.5	26
238	Evaluation of microneedles-assisted in situ depot forming poloxamer gels for sustained transdermal drug delivery. <i>Drug Delivery and Translational Research</i> , 2019 , 9, 764-782	6.2	27
237	Rapidly dissolving bilayer microneedle arrays - A minimally invasive transdermal drug delivery system for vitamin B12. <i>International Journal of Pharmaceutics</i> , 2019 , 566, 299-306	6.5	23
236	Design, Formulation, and Evaluation of Novel Dissolving Microarray Patches Containing Rilpivirine for Intravaginal Delivery. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801510	10.1	21
235	Slowly dissolving intradermal microneedles. <i>Nature Biomedical Engineering</i> , 2019 , 3, 169-170	19	13
234	New HPLC-MS method for rapid and simultaneous quantification of doxycycline, diethylcarbamazine and albendazole metabolites in rat plasma and organs after concomitant oral administration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 170, 243-253	3.5	16
233	Control of Klebsiella pneumoniae Infection in Mice by Using Dissolving Microarray Patches Containing Gentamicin. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	6
232	Antioxidant PLA Composites Containing Lignin for 3D Printing Applications: A Potential Material for Healthcare Applications. <i>Pharmaceutics</i> , 2019 , 11,	6.4	98
231	DNA vaccination via RALA nanoparticles in a microneedle delivery system induces a potent immune response against the endogenous prostate cancer stem cell antigen. <i>Acta Biomaterialia</i> , 2019 , 96, 480-490	10.8	36
230	Enhanced Intradermal Delivery of Nanosuspensions of Antifilaria Drugs Using Dissolving Microneedles: A Proof of Concept Study. <i>Pharmaceutics</i> , 2019 , 11,	6.4	37
229	Nanosuspension-Based Dissolving Microneedle Arrays for Intradermal Delivery of Curcumin. <i>Pharmaceutics</i> , 2019 , 11,	6.4	49
228	Modelling the intradermal delivery of microneedle array patches for long-acting antiretrovirals using PBPK. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019 , 144, 101-109	5.7	18

227	Dissolving Microneedles for Intradermal Vaccination against Shigellosis. <i>Vaccines</i> , 2019 , 7,	5.3	8
226	LB8. Microarray Patch Delivery of Long-Acting HIV PrEP and Contraception. <i>Open Forum Infectious Diseases</i> , 2019 , 6, S996-S996	1	6
225	Solid lipid nanoparticle-based dissolving microneedles: A promising intradermal lymph targeting drug delivery system with potential for enhanced treatment of lymphatic filariasis. <i>Journal of Controlled Release</i> , 2019 , 316, 34-52	11.7	69
224	Design and Development of Liquid Drug Reservoirs for Microneedle Delivery of Poorly Soluble Drug Molecules. <i>Pharmaceutics</i> , 2019 , 11,	6.4	19
223	Enhancement in Site-Specific Delivery of Carvacrol against Methicillin Resistant Induced Skin Infections Using Enzyme Responsive Nanoparticles: A Proof of Concept Study. <i>Pharmaceutics</i> , 2019 , 11,	6.4	29
222	Microneedles for Transdermal Drug Delivery 2019 , 223-270		2
221	Novel Hydrogel-Forming Microneedle Array for Intradermal Vaccination in Mice Using Ovalbumin as a Model Protein Antigen. <i>Molecular Pharmaceutics</i> , 2019 , 16, 118-127	5.6	26
220	Poly(methyl vinyl ether-co-maleic acid) Hydrogels Containing Cyclodextrins and Tween 85 for Potential Application as Hydrophobic Drug Delivery Systems. <i>Macromolecular Research</i> , 2019 , 27, 396-403 ¹⁹	1.9	12
219	Semisynthetic Derivative of Artemisia annua-Loaded Transdermal Bioadhesive for the Treatment of Uncomplicated Malaria Caused by Plasmodium falciparum in Children. <i>Journal of Pharmaceutical Sciences</i> , 2019 , 108, 1177-1188	3.9	4
218	DNA vaccination for cervical cancer: Strategic optimisation of RALA mediated gene delivery from a biodegradable microneedle system. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 127, 288-297	5.7	40
217	Transdermal delivery of vitamin K using dissolving microneedles for the prevention of vitamin K deficiency bleeding. <i>International Journal of Pharmaceutics</i> , 2018 , 541, 56-63	6.5	47
216	Hydrogels based on poly(methyl vinyl ether-co-maleic acid) and Tween 85 for sustained delivery of hydrophobic drugs. <i>International Journal of Pharmaceutics</i> , 2018 , 538, 147-158	6.5	31
215	Nanotechnologies for tissue engineering and regeneration 2018 , 93-206		11
214	In vivo and qualitative studies investigating the translational potential of microneedles for use in the older population. <i>Drug Delivery and Translational Research</i> , 2018 , 8, 307-316	6.2	17
213	Microarray patches: potentially useful delivery systems for long-acting nanosuspensions. <i>Drug Discovery Today</i> , 2018 , 23, 1026-1033	8.8	50
212	Design and characterisation of a dissolving microneedle patch for intradermal vaccination with heat-inactivated bacteria: A proof of concept study. <i>International Journal of Pharmaceutics</i> , 2018 , 549, 87-95	6.5	25
211	Microneedle arrays for vaccine delivery: the possibilities, challenges and use of nanoparticles as a combinatorial approach for enhanced vaccine immunogenicity. <i>Expert Opinion on Drug Delivery</i> , 2018 , 15, 851-867	8	30
210	Delivery of Photosensitisers and Precursors Using Microneedles 2018 , 235-258		

209	Hydrogels for Hydrophobic Drug Delivery. Classification, Synthesis and Applications. <i>Journal of Functional Biomaterials</i> , 2018 , 9,	4.8	103
208	Hydrogel-forming microneedles enhance transdermal delivery of metformin hydrochloride. <i>Journal of Controlled Release</i> , 2018 , 285, 142-151	11.7	108
207	Microneedle-Mediated Transdermal Delivery of Bevacizumab. <i>Molecular Pharmaceutics</i> , 2018 , 15, 3545-3556	5.5	51
206	Synthesis and characterization of hyaluronic acid hydrogels crosslinked using a solvent-free process for potential biomedical applications. <i>Carbohydrate Polymers</i> , 2018 , 181, 1194-1205	10.3	143
205	Microneedles as the technique of drug delivery enhancement in diverse organs and tissues. <i>Journal of Controlled Release</i> , 2018 , 270, 184-202	11.7	99
204	Implantable Polymeric Drug Delivery Devices: Classification, Manufacture, Materials, and Clinical Applications. <i>Polymers</i> , 2018 , 10,	4.5	135
203	Design, formulation and evaluation of novel dissolving microarray patches containing a long-acting rilpivirine nanosuspension. <i>Journal of Controlled Release</i> , 2018 , 292, 119-129	11.7	66
202	Microneedles in Improving Skin Appearance and Enhanced Delivery of Cosmeceuticals 2018 , 259-282		
201	Dissolving polymeric microneedle arrays for enhanced site-specific acyclovir delivery. <i>European Journal of Pharmaceutical Sciences</i> , 2018 , 121, 200-209	5.1	49
200	Synthesis and Characterization of Lignin Hydrogels for Potential Applications as Drug Eluting Antimicrobial Coatings for Medical Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9037-9046	8.3	98
199	Intradermal Delivery of a Near-Infrared Photosensitizer Using Dissolving Microneedle Arrays. <i>Journal of Pharmaceutical Sciences</i> , 2018 , 107, 2439-2450	3.9	17
198	Clinical Translation and Industrial Development of Microneedle-based Products 2018 , 307-322		10
197	Microneedle-mediated Vaccine Delivery 2018 , 93-127		1
196	Minimally-invasive Patient Monitoring and Diagnosis Using Microneedles 2018 , 207-234		
195	Microneedle-mediated Drug Delivery 2018 , 71-91		4
194	Novel nanosuspension-based dissolving microneedle arrays for transdermal delivery of a hydrophobic drug. <i>Journal of Interdisciplinary Nanomedicine</i> , 2018 , 3, 89-101	4	49
193	Successful application of large microneedle patches by human volunteers. <i>International Journal of Pharmaceutics</i> , 2017 , 521, 92-101	6.5	105
192	In vivo studies investigating biodistribution of nanoparticle-encapsulated rhodamine B delivered via dissolving microneedles. <i>Journal of Controlled Release</i> , 2017 , 265, 57-65	11.7	53

191	Fabrication of Microneedles 2017 , 305-323		1
190	Repeat application of microneedles does not alter skin appearance or barrier function and causes no measurable disturbance of serum biomarkers of infection, inflammation or immunity in mice in vivo. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017 , 117, 400-407	5.7	57
189	Microporation Using Microneedle Arrays 2017 , 273-303		
188	Active Enhancement Methods in Transdermal Drug Delivery: Current Status and Future Perspectives 2017 , 359-366		0
187	DNA vaccination for cervical cancer; a novel technology platform of RALA mediated gene delivery via polymeric microneedles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 921-932	6	66
186	Novel bilayer dissolving microneedle arrays with concentrated PLGA nano-microparticles for targeted intradermal delivery: Proof of concept. <i>Journal of Controlled Release</i> , 2017 , 265, 93-101	11.7	70
185	Bioadhesive Polymers for Drug Delivery 2017 , 559-601		0
184	Transdermal delivery of gentamicin using dissolving microneedle arrays for potential treatment of neonatal sepsis. <i>Journal of Controlled Release</i> , 2017 , 265, 30-40	11.7	97
183	Microneedles for enhanced transdermal and intraocular drug delivery. <i>Current Opinion in Pharmacology</i> , 2017 , 36, 14-21	5.1	38
182	Dissolving microneedles for DNA vaccination: Improving functionality via polymer characterization and RALA complexation. <i>Human Vaccines and Immunotherapeutics</i> , 2017 , 13, 50-62	4.4	37
181	Minimally invasive microneedles for ocular drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2017 , 14, 525-537	5.3	61
180	Microporation in Penetration Enhancement 2017 , 257-271		1
179	Bioadhesive Drug Delivery Systems 2017 , 111-128		
178	Mucoadhesive Systems: Drug Delivery 2017 , 961-977		
177	The Use of a Pressure-Indicating Sensor Film to Provide Feedback upon Hydrogel-Forming Microneedle Array Self-Application In Vivo. <i>Pharmaceutical Research</i> , 2016 , 33, 3072-3080	4.5	42
176	Rapidly dissolving polymeric microneedles for minimally invasive intraocular drug delivery. <i>Drug Delivery and Translational Research</i> , 2016 , 6, 800-815	6.2	94
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14	Influence of plasticizer type and storage conditions on properties of poly(methyl vinyl ether-co-maleic anhydride) bioadhesive films. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 1576-1589	2.9	52
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