

Ryan F Donnelly

List of Publications by Citations

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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	Microneedle arrays as transdermal and intradermal drug delivery systems: Materials science, manufacture and commercial development. <i>Materials Science and Engineering Reports</i> , 2016 , 104, 1-32	30.9	379
333	Transdermal Drug Delivery: Innovative Pharmaceutical Developments Based on Disruption of the Barrier Properties of the stratum corneum. <i>Pharmaceutics</i> , 2015 , 7, 438-70	6.4	370
332	Microneedle-based drug delivery systems: microfabrication, drug delivery, and safety. <i>Drug Delivery</i> , 2010 , 17, 187-207	7	357
331	Hydrogel-Forming Microneedle Arrays for Enhanced Transdermal Drug Delivery. <i>Advanced Functional Materials</i> , 2012 , 22, 4879-4890	15.6	329
330	Mucoadhesive drug delivery systems. <i>Journal of Pharmacy and Bioallied Sciences</i> , 2011 , 3, 89-100	1.1	320
329	Antifungal photodynamic therapy. <i>Microbiological Research</i> , 2008 , 163, 1-12	5.3	313
328	Design, optimization and characterisation of polymeric microneedle arrays prepared by a novel laser-based micromoulding technique. <i>Pharmaceutical Research</i> , 2011 , 28, 41-57	4.5	258
327	Microneedles for intradermal and transdermal drug delivery. <i>European Journal of Pharmaceutical Sciences</i> , 2013 , 50, 623-37	5.1	246
326	A proposed model membrane and test method for microneedle insertion studies. <i>International Journal of Pharmaceutics</i> , 2014 , 472, 65-73	6.5	188
325	Microneedles: A New Frontier in Nanomedicine Delivery. <i>Pharmaceutical Research</i> , 2016 , 33, 1055-73	4.5	176
324	Optical coherence tomography is a valuable tool in the study of the effects of microneedle geometry on skin penetration characteristics and in-skin dissolution. <i>Journal of Controlled Release</i> , 2010 , 147, 333-41	11.7	168
323	Hydrogel-forming microneedles prepared from "super swelling" polymers combined with lyophilised wafers for transdermal drug delivery. <i>PLoS ONE</i> , 2014 , 9, e111547	3.7	166
322	Skin dendritic cell targeting via microneedle arrays laden with antigen-encapsulated poly-D,L-lactide-co-glycolide nanoparticles induces efficient antitumor and antiviral immune responses. <i>ACS Nano</i> , 2013 , 7, 2042-55	16.7	158
321	Microneedle arrays allow lower microbial penetration than hypodermic needles in vitro. <i>Pharmaceutical Research</i> , 2009 , 26, 2513-22	4.5	151
320	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
319	Design and physicochemical characterisation of novel dissolving polymeric microneedle arrays for transdermal delivery of high dose, low molecular weight drugs. <i>Journal of Controlled Release</i> , 2014 , 180, 71-80	11.7	139
318	Synergistic phage-antibiotic combinations for the control of Escherichia coli biofilms in vitro. <i>FEMS Immunology and Medical Microbiology</i> , 2012 , 65, 395-8		137

317	Designing photosensitizers for photodynamic therapy: strategies, challenges and promising developments. <i>Future Medicinal Chemistry</i> , 2009 , 1, 667-91	4.1	136
316	Implantable Polymeric Drug Delivery Devices: Classification, Manufacture, Materials, and Clinical Applications. <i>Polymers</i> , 2018 , 10,	4.5	135
315	Potential of photodynamic therapy in treatment of fungal infections of the mouth. Design and characterisation of a mucoadhesive patch containing toluidine blue O. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2007 , 86, 59-69	6.7	133
314	Recent advances in bacteriophage therapy: how delivery routes, formulation, concentration and timing influence the success of phage therapy. <i>Journal of Pharmacy and Pharmacology</i> , 2011 , 63, 1253-64	4.8	132
313	Microneedle-mediated intradermal delivery of 5-aminolevulinic acid: potential for enhanced topical photodynamic therapy. <i>Journal of Controlled Release</i> , 2008 , 129, 154-62	11.7	129
312	Development and characterization of self-assembling nanoparticles using a bio-inspired amphipathic peptide for gene delivery. <i>Journal of Controlled Release</i> , 2014 , 189, 141-9	11.7	128
311	Influence of array interspacing on the force required for successful microneedle skin penetration: theoretical and practical approaches. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 1209-21	3.9	116
310	Processing difficulties and instability of carbohydrate microneedle arrays. <i>Drug Development and Industrial Pharmacy</i> , 2009 , 35, 1242-54	3.6	114
309	The role of microneedles for drug and vaccine delivery. <i>Expert Opinion on Drug Delivery</i> , 2014 , 11, 1769-80	8.0	109
308	Laser-engineered dissolving microneedle arrays for transdermal macromolecular drug delivery. <i>Pharmaceutical Research</i> , 2011 , 28, 1919-30	4.5	109
307	Hydrogel-forming microneedles enhance transdermal delivery of metformin hydrochloride. <i>Journal of Controlled Release</i> , 2018 , 285, 142-151	11.7	108
306	Successful application of large microneedle patches by human volunteers. <i>International Journal of Pharmaceutics</i> , 2017 , 521, 92-101	6.5	105
305	Hydrogels for Hydrophobic Drug Delivery. Classification, Synthesis and Applications. <i>Journal of Functional Biomaterials</i> , 2018 , 9,	4.8	103
304	Dissolving polymeric microneedle arrays for electrically assisted transdermal drug delivery. <i>Journal of Controlled Release</i> , 2012 , 159, 52-9	11.7	102
303	Microneedle pre-treatment of human skin improves 5-aminolevulinic acid (ALA)- and 5-aminolevulinic acid methyl ester (MAL)-induced PpIX production for topical photodynamic therapy without increase in pain or erythema. <i>Pharmaceutical Research</i> , 2010 , 27, 2213-20	4.5	102
302	Hydrogel-forming microneedle arrays can be effectively inserted in skin by self-application: a pilot study centred on pharmacist intervention and a patient information leaflet. <i>Pharmaceutical Research</i> , 2014 , 31, 1989-99	4.5	101
301	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
300	Antioxidant PLA Composites Containing Lignin for 3D Printing Applications: A Potential Material for Healthcare Applications. <i>Pharmaceutics</i> , 2019 , 11,	6.4	98

299	Hydrogel-forming microneedle arrays exhibit antimicrobial properties: potential for enhanced patient safety. <i>International Journal of Pharmaceutics</i> , 2013 , 451, 76-91	6.5	98
298	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
297	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
296	Hydrogel-Forming Microneedle Arrays Allow Detection of Drugs and Glucose In Vivo: Potential for Use in Diagnosis and Therapeutic Drug Monitoring. <i>PLoS ONE</i> , 2015 , 10, e0145644	3.7	96
295	Antimicrobial efficacy of tobramycin polymeric nanoparticles for <i>Pseudomonas aeruginosa</i> infections in cystic fibrosis: formulation, characterisation and functionalisation with dornase alfa (DNase). <i>Journal of Controlled Release</i> , 2015 , 198, 55-61	11.7	95
294	Rapidly dissolving polymeric microneedles for minimally invasive intraocular drug delivery. <i>Drug Delivery and Translational Research</i> , 2016 , 6, 800-815	6.2	94
293	Investigation of swelling and network parameters of poly(ethylene glycol)-crosslinked poly(methyl vinyl ether-co-maleic acid) hydrogels. <i>European Polymer Journal</i> , 2009 , 45, 1239-1249	5.2	93
292	Microneedle applications in improving skin appearance. <i>Experimental Dermatology</i> , 2015 , 24, 561-6	4	89
291	Effects of microneedle length, density, insertion time and multiple applications on human skin barrier function: assessments by transepidermal water loss. <i>Toxicology in Vitro</i> , 2010 , 24, 1971-8	3.6	87
290	Photothermal therapy. <i>Journal of Controlled Release</i> , 2020 , 325, 52-71	11.7	86
289	Photosensitiser delivery for photodynamic therapy. Part 2: systemic carrier platforms. <i>Expert Opinion on Drug Delivery</i> , 2008 , 5, 1241-54	8	86
288	Hydrogel-Forming Microneedle Arrays Made from Light-Responsive Materials for On-Demand Transdermal Drug Delivery. <i>Molecular Pharmaceutics</i> , 2016 , 13, 907-14	5.6	83
287	Bioadhesive patch-based delivery of 5-aminolevulinic acid to the nail for photodynamic therapy of onychomycosis. <i>Journal of Controlled Release</i> , 2005 , 103, 381-92	11.7	78
286	Drug delivery strategies for photodynamic antimicrobial chemotherapy: from benchtop to clinical practice. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2009 , 95, 71-80	6.7	74
285	3D printed microneedles for anticancer therapy of skin tumours. <i>Materials Science and Engineering C</i> , 2020 , 107, 110248	8.3	73
284	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
283	Dissolving microneedle delivery of nanoparticle-encapsulated antigen elicits efficient cross-priming and Th1 immune responses by murine Langerhans cells. <i>Journal of Investigative Dermatology</i> , 2015 , 135, 425-434	4.3	69
282	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

281	Microneedle-mediated intradermal nanoparticle delivery: Potential for enhanced local administration of hydrophobic pre-formed photosensitisers. <i>Photodiagnosis and Photodynamic Therapy</i> , 2010 , 7, 222-31	3.5	69
280	Gentamicin-loaded nanoparticles show improved antimicrobial effects towards <i>Pseudomonas aeruginosa</i> infection. <i>International Journal of Nanomedicine</i> , 2012 , 7, 4053-63	7.3	69
279	Considerations in the sterile manufacture of polymeric microneedle arrays. <i>Drug Delivery and Translational Research</i> , 2015 , 5, 3-14	6.2	68
278	Microneedle arrays permit enhanced intradermal delivery of a preformed photosensitizer. <i>Photochemistry and Photobiology</i> , 2009 , 85, 195-204	3.6	68
277	Microneedle-mediated delivery of donepezil: Potential for improved treatment options in Alzheimer's disease. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016 , 103, 43-50	5.7	68
276	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
275	Enhanced antitumor activity of the photosensitizer meso-Tetra(N-methyl-4-pyridyl) porphine tetra tosylate through encapsulation in antibody-targeted chitosan/alginate nanoparticles. <i>Biomacromolecules</i> , 2013 , 14, 302-10	6.9	66
274	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
273	Microneedle characterisation: the need for universal acceptance criteria and GMP specifications when moving towards commercialisation. <i>Drug Delivery and Translational Research</i> , 2015 , 5, 313-31	6.2	65
272	Microneedle mediated intradermal delivery of adjuvanted recombinant HIV-1 CN54gp140 effectively primes mucosal boost inoculations. <i>Journal of Controlled Release</i> , 2012 , 162, 529-37	11.7	64
271	Microneedle-mediated vaccine delivery: harnessing cutaneous immunobiology to improve efficacy. <i>Expert Opinion on Drug Delivery</i> , 2012 , 9, 541-50	8	64
270	Minimally invasive microneedles for ocular drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2017 , 14, 525-537	6.1	61
269	A novel scalable manufacturing process for the production of hydrogel-forming microneedle arrays. <i>International Journal of Pharmaceutics</i> , 2015 , 494, 417-29	6.5	60
268	Microneedle-mediated minimally invasive patient monitoring. <i>Therapeutic Drug Monitoring</i> , 2014 , 36, 10-7	3.2	60
267	The potential for human exposure, direct and indirect, to the suspected carcinogenic triphenylmethane dye Brilliant Green from green paper towels. <i>Food and Chemical Toxicology</i> , 2011 , 49, 1870-6	4.7	60
266	Development of a Biodegradable Subcutaneous Implant for Prolonged Drug Delivery Using 3D Printing. <i>Pharmaceutics</i> , 2020 , 12,	6.4	59
265	Design of a Dissolving Microneedle Platform for Transdermal Delivery of a Fixed-Dose Combination of Cardiovascular Drugs. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 3490-500	3.9	59
264	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

263	Hydrogel-forming and dissolving microneedles for enhanced delivery of photosensitizers and precursors. <i>Photochemistry and Photobiology</i> , 2014 , 90, 641-7	3.6	58
262	Microwave-Assisted Preparation of Hydrogel-Forming Microneedle Arrays for Transdermal Drug Delivery Applications. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 586-595	3.9	58
261	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
260	Cellulose Nanofibers and Other Biopolymers for Biomedical Applications. A Review. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 65	2.6	57
259	Microneedle arrays as medical devices for enhanced transdermal drug delivery. <i>Expert Review of Medical Devices</i> , 2011 , 8, 459-82	3.5	56
258	Future of the transdermal drug delivery market--have we barely touched the surface?. <i>Expert Opinion on Drug Delivery</i> , 2016 , 13, 523-32	8	55
257	Hydrogel-forming microneedle arrays: Potential for use in minimally-invasive lithium monitoring. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016 , 102, 123-31	5.7	55
256	Delivery of Methylene Blue and meso-tetra (N-methyl-4-pyridyl) porphine tetra tosylate from cross-linked poly(vinyl alcohol) hydrogels: a potential means of photodynamic therapy of infected wounds. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2009 , 96, 223-31	6.7	54
255	2012 ,		54
254	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
253	Microneedle-Based Delivery: An Overview of Current Applications and Trends. <i>Pharmaceutics</i> , 2020 , 12,	6.4	53
252	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
251	Microneedle-Mediated Transdermal Delivery of Bevacizumab. <i>Molecular Pharmaceutics</i> , 2018 , 15, 3545-3566	3.6	51
250	Influence of skin model on in vitro performance of drug-loaded soluble microneedle arrays. <i>International Journal of Pharmaceutics</i> , 2012 , 434, 80-9	6.5	51
249	Microarray patches: potentially useful delivery systems for long-acting nanosuspensions. <i>Drug Discovery Today</i> , 2018 , 23, 1026-1033	8.8	50
248	Microneedle-mediated intrascleral delivery of in situ forming thermoresponsive implants for sustained ocular drug delivery. <i>Journal of Pharmacy and Pharmacology</i> , 2014 , 66, 584-95	4.8	50
247	Laser-engineered dissolving microneedles for active transdermal delivery of nadroparin calcium. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 82, 299-307	5.7	50
246	Nanosuspension-Based Dissolving Microneedle Arrays for Intradermal Delivery of Curcumin. <i>Pharmaceutics</i> , 2019 , 11,	6.4	49

245	Dissolving polymeric microneedle arrays for enhanced site-specific acyclovir delivery. <i>European Journal of Pharmaceutical Sciences</i> , 2018 , 121, 200-209	5.1	49
244	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
243	Enhancement strategies for transdermal drug delivery systems: current trends and applications. <i>Drug Delivery and Translational Research</i> , 2021 , 1	6.2	48
242	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
241	Evaluation of the penetration of 5-aminolevulinic acid through basal cell carcinoma: a pilot study. <i>Experimental Dermatology</i> , 2004 , 13, 445-51	4	47
240	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
239	Potential of hydrogel-forming and dissolving microneedles for use in paediatric populations. <i>International Journal of Pharmaceutics</i> , 2015 , 489, 158-69	6.5	45
238	A facile system to evaluate in vitro drug release from dissolving microneedle arrays. <i>International Journal of Pharmaceutics</i> , 2016 , 497, 62-9	6.5	45
237	Review of patents on microneedle applicators. <i>Recent Patents on Drug Delivery and Formulation</i> , 2011 , 5, 11-23	1.4	45
236	Design and physicochemical characterisation of a bioadhesive patch for dose-controlled topical delivery of imiquimod. <i>International Journal of Pharmaceutics</i> , 2006 , 307, 318-25	6.5	45
235	Delivery of photosensitisers and light through mucus: investigations into the potential use of photodynamic therapy for treatment of <i>Pseudomonas aeruginosa</i> cystic fibrosis pulmonary infection. <i>Journal of Controlled Release</i> , 2007 , 117, 217-26	11.7	44
234	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
233	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
232	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
231	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
230	Children's views on microneedle use as an alternative to blood sampling for patient monitoring. <i>International Journal of Pharmacy Practice</i> , 2014 , 22, 335-44	1.7	42
229	Electrically enhanced solute permeation across poly(ethylene glycol)-crosslinked poly(methyl vinyl ether-co-maleic acid) hydrogels: effect of hydrogel crosslink density and ionic conductivity. <i>International Journal of Pharmaceutics</i> , 2011 , 406, 91-8	6.5	42
228	Drug Delivery of Aminolevulinic Acid From Topical Formulations Intended for Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2005 , 81, 750	3.6	42

227	Microneedle array systems for long-acting drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 159, 44-76	5.7	42
226	Microneedles: an innovative platform for gene delivery. <i>Drug Delivery and Translational Research</i> , 2015 , 5, 424-37	6.2	41
225	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
224	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
223	Immunocolloidal targeting of the endocytotic siglec-7 receptor using peripheral attachment of siglec-7 antibodies to poly(lactide-co-glycolide) nanoparticles. <i>Pharmaceutical Research</i> , 2008 , 25, 135-46	4.5	39
222	Design and evaluation of a water-soluble bioadhesive patch formulation for cutaneous delivery of 5-aminolevulinic acid to superficial neoplastic lesions. <i>European Journal of Pharmaceutical Sciences</i> , 2006 , 27, 268-79	5.1	39
221	Celecoxib-loaded poly(D,L-lactide-co-glycolide) nanoparticles prepared using a novel and controllable combination of diffusion and emulsification steps as part of the salting-out procedure. <i>Journal of Microencapsulation</i> , 2006 , 23, 480-98	3.4	39
220	Evaluation of a water-soluble bioadhesive patch for photodynamic therapy of vulval lesions. <i>International Journal of Pharmaceutics</i> , 2005 , 293, 11-23	6.5	39
219	Microneedles for enhanced transdermal and intraocular drug delivery. <i>Current Opinion in Pharmacology</i> , 2017 , 36, 14-21	5.1	38
218	Effect of sub-lethal challenge with Photodynamic Antimicrobial Chemotherapy (PACT) on the antibiotic susceptibility of clinical bacterial isolates. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2010 , 99, 62-6	6.7	38
217	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
216	Transcending epithelial and intracellular biological barriers; a prototype DNA delivery device. <i>Journal of Controlled Release</i> , 2016 , 226, 238-47	11.7	38
215	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
214	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
213	Enhanced Intradermal Delivery of Nanosuspensions of Antifilaria Drugs Using Dissolving Microneedles: A Proof of Concept Study. <i>Pharmaceutics</i> , 2019 , 11,	6.4	37
212	Hydrogel-forming microneedles increase in volume during swelling in skin, but skin barrier function recovery is unaffected. <i>Journal of Pharmaceutical Sciences</i> , 2014 , 103, 1478-86	3.9	37
211	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
210	Methylene Blue-Loaded Dissolving Microneedles: Potential Use in Photodynamic Antimicrobial Chemotherapy of Infected Wounds. <i>Pharmaceutics</i> , 2015 , 7, 397-412	6.4	37

209	Microporation techniques for enhanced delivery of therapeutic agents. <i>Recent Patents on Drug Delivery and Formulation</i> , 2010 , 4, 1-17	1.4	37
208	Modulation of gel formation and drug-release characteristics of lidocaine-loaded poly(vinyl alcohol)-tetraborate hydrogel systems using scavenger polyol sugars. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 69, 1135-46	5.7	37
207	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
206	Nanocarrier vaccines for SARS-CoV-2. <i>Advanced Drug Delivery Reviews</i> , 2021 , 171, 215-239	18.5	37
205	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
204	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: Strategy</i> , 2020 , 205, 1118-16	6.7	35
203	Using debate to teach pharmacy students about ethical issues. <i>American Journal of Pharmaceutical Education</i> , 2014 , 78, 57	2.5	35
202	Hollow microneedles: A perspective in biomedical applications. <i>International Journal of Pharmaceutics</i> , 2021 , 599, 120455	6.5	33
201	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
200	Microneedle/nanoencapsulation-mediated transdermal delivery: mechanistic insights. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014 , 86, 145-55	5.7	31
199	Effect of microneedle treatment on the skin permeation of a nanoencapsulated dye. <i>Journal of Pharmacy and Pharmacology</i> , 2012 , 64, 1592-602	4.8	31
198	Bioadhesive, non-drug-loaded nanoparticles as modulators of candidal adherence to buccal epithelial cells: a potentially novel prophylaxis for candidosis. <i>Biomaterials</i> , 2004 , 25, 2399-407	15.6	31
197	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
196	Investigation of solute permeation across hydrogels composed of poly(methyl vinyl ether-co-maleic acid) and poly(ethylene glycol). <i>Journal of Pharmacy and Pharmacology</i> , 2010 , 62, 829-837	4.8	30
195	Anti-adherent and antifungal activities of surfactant-coated poly(ethylcyanoacrylate) nanoparticles. <i>International Journal of Pharmaceutics</i> , 2007 , 340, 182-90	6.5	30
194	Successful photodynamic therapy of vulval Paget's disease using a novel patch-based delivery system containing 5-aminolevulinic acid. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2004 , 111, 1143-5	3.7	30
193	Drug delivery systems for photodynamic therapy. <i>Recent Patents on Drug Delivery and Formulation</i> , 2009 , 3, 1-7	1.4	29
192	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

191	Photodynamic Antimicrobial Chemotherapy (PACT) in combination with antibiotics for treatment of Burkholderia cepacia complex infection. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012 , 106, 95-100	6.7	28
190	Enhanced surface attachment of protein-type targeting ligands to poly(lactide-co-glycolide) nanoparticles using variable expression of polymeric acid functionality. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 873-84	5.4	28
189	Innovative drug delivery strategies for topical photodynamic therapy using porphyrin precursors. <i>Journal of Environmental Pathology, Toxicology and Oncology</i> , 2007 , 26, 105-16	2.1	28
188	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
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