

Eneko Larraeta

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93
papers

4,075
citations

38
h-index

62
g-index

103
ext. papers

5,324
ext. citations

6.6
avg. IF

6.17
L-index

#	Paper	IF	Citations
93	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
92	A proposed model membrane and test method for microneedle insertion studies. <i>International Journal of Pharmaceutics</i> , 2014 , 472, 65-73	6.5	188
91	Microneedles: A New Frontier in Nanomedicine Delivery. <i>Pharmaceutical Research</i> , 2016 , 33, 1055-73	4.5	176
90	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
89	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
88	Implantable Polymeric Drug Delivery Devices: Classification, Manufacture, Materials, and Clinical Applications. <i>Polymers</i> , 2018 , 10,	4.5	135
87	Zein-Based Nanoparticles Improve the Oral Bioavailability of Resveratrol and Its Anti-inflammatory Effects in a Mouse Model of Endotoxic Shock. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 5603-5711	5.7	120
86	Successful application of large microneedle patches by human volunteers. <i>International Journal of Pharmaceutics</i> , 2017 , 521, 92-101	6.5	105
85	Hydrogels for Hydrophobic Drug Delivery. Classification, Synthesis and Applications. <i>Journal of Functional Biomaterials</i> , 2018 , 9,	4.8	103
84	Status and future scope of plant-based green hydrogels in biomedical engineering. <i>Applied Materials Today</i> , 2019 , 16, 213-246	6.6	100
83	Antioxidant PLA Composites Containing Lignin for 3D Printing Applications: A Potential Material for Healthcare Applications. <i>Pharmaceutics</i> , 2019 , 11,	6.4	98
82	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
81	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
80	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
79	Increased Oral Bioavailability of Resveratrol by Its Encapsulation in Casein Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	82
78	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
77	Lignin-based hydrogels with "super-swelling" capacities for dye removal. <i>International Journal of Biological Macromolecules</i> , 2018 , 115, 1249-1259	7.9	69

76	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
75	Thermosensitive hydrogels of poly(methyl vinyl ether-co-maleic anhydride) - Pluronic(®) F127 copolymers for controlled protein release. <i>International Journal of Pharmaceutics</i> , 2014 , 459, 1-9	6.5	65
74	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
73	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
72	Development of a Biodegradable Subcutaneous Implant for Prolonged Drug Delivery Using 3D Printing. <i>Pharmaceutics</i> , 2020 , 12,	6.4	59
71	Lignin/poly(butylene succinate) composites with antioxidant and antibacterial properties for potential biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2020 , 145, 92-99	7.9	59
70	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
69	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
68	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
67	Cellulose Nanofibers and Other Biopolymers for Biomedical Applications. A Review. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 65	2.6	57
66	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
65	Microarray patches: potentially useful delivery systems for long-acting nanosuspensions. <i>Drug Discovery Today</i> , 2018 , 23, 1026-1033	8.8	50
64	Nanosuspension-Based Dissolving Microneedle Arrays for Intradermal Delivery of Curcumin. <i>Pharmaceutics</i> , 2019 , 11,	6.4	49
63	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
62	3D Printing of Drug-Loaded Thermoplastic Polyurethane Meshes: A Potential Material for Soft Tissue Reinforcement in Vaginal Surgery. <i>Pharmaceutics</i> , 2020 , 12,	6.4	48
61	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
60	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
59	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

58	Additive Manufacturing Can Assist in the Fight Against COVID-19 and Other Pandemics and Impact on the Global Supply Chain. <i>3D Printing and Additive Manufacturing</i> , 2020 , 7, 100-103	4	42
57	Phase behavior of reverse poloxamers and poloxamines in water. <i>Langmuir</i> , 2013 , 29, 1045-53	4	40
56	Non-covalent hydrogels of cyclodextrins and poloxamines for the controlled release of proteins. <i>Carbohydrate Polymers</i> , 2014 , 102, 674-81	10.3	38
55	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
54	Self-assembled supramolecular gels of reverse poloxamers and cyclodextrins. <i>Langmuir</i> , 2012 , 28, 12457-62	462	34
53	Casein nanoparticles in combination with 2-hydroxypropyl- β -cyclodextrin improves the oral bioavailability of quercetin. <i>International Journal of Pharmaceutics</i> , 2019 , 570, 118652	6.5	33
52	Fused Deposition Modeling as an Effective Tool for Anti-Infective Dialysis Catheter Fabrication. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 6300-6310	5.5	33
51	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
50	In Vitro release from reverse poloxamine/ β -cyclodextrin matrices: modelling and comparison of dissolution profiles. <i>Journal of Pharmaceutical Sciences</i> , 2014 , 103, 197-206	3.9	27
49	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
48	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
47	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
46	Lignin and Cellulose Blends as Pharmaceutical Excipient for Tablet Manufacturing via Direct Compression. <i>Biomolecules</i> , 2019 , 9,	5.9	24
45	Fused Deposition Modelling as a Potential Tool for Antimicrobial Dialysis Catheters Manufacturing: New Trends vs. Conventional Approaches. <i>Coatings</i> , 2019 , 9, 515	2.9	22
44	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
43	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
42	Fused deposition modelling for the development of drug loaded cardiovascular prosthesis. <i>International Journal of Pharmaceutics</i> , 2021 , 595, 120243	6.5	21
41	Design and Development of Liquid Drug Reservoirs for Microneedle Delivery of Poorly Soluble Drug Molecules. <i>Pharmaceutics</i> , 2019 , 11,	6.4	19

40	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
39	3D printed estradiol-eluting urogynecological mesh implants: Influence of material and mesh geometry on their mechanical properties. <i>International Journal of Pharmaceutics</i> , 2021 , 593, 120145	6.5	18
38	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
37	Lignin for pharmaceutical and biomedical applications [Could this become a reality?]. <i>Sustainable Chemistry and Pharmacy</i> , 2020 , 18, 100320	3.9	14
36	Slowly dissolving intradermal microneedles. <i>Nature Biomedical Engineering</i> , 2019 , 3, 169-170	19	13
35	Nanoparticles from Gantrez [®] AN-poly(ethylene glycol) conjugates as carriers for oral delivery of docetaxel. <i>International Journal of Pharmaceutics</i> , 2019 , 571, 118699	6.5	13
34	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
33	Pegylated poly(anhydride) nanoparticles for oral delivery of docetaxel. <i>European Journal of Pharmaceutical Sciences</i> , 2018 , 118, 165-175	5.1	12
32	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
31	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
30	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
29	Urogynecological surgical mesh implants: New trends in materials, manufacturing and therapeutic approaches. <i>International Journal of Pharmaceutics</i> , 2020 , 585, 119512	6.5	11
28	Nanotechnologies for tissue engineering and regeneration 2018 , 93-206		11
27	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
26	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
25	Understanding the basis of transcutaneous vaccine delivery. <i>Therapeutic Delivery</i> , 2019 , 10, 63-80	3.8	8
24	Potential of Polymeric Films Loaded with Gold Nanorods for Local Hyperthermia Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
23	Dissolving Microneedles for Intradermal Vaccination against Shigellosis. <i>Vaccines</i> , 2019 , 7,	5.3	8

22	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
21	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
20	Incorporating Stories of Sedatives, Spoiled Sweet Clover Hay, and Plants from the Amazon Rainforest into a Pharmaceutical Chemistry Course To Engage Students and Introduce Drug Design Strategies. <i>Journal of Chemical Education</i> , 2018 , 95, 1778-1786	2.4	5
19	Release of β -galactosidase from poloxamine/ β -cyclodextrin hydrogels. <i>Beilstein Journal of Organic Chemistry</i> , 2014 , 10, 3127-35	2.5	5
18	Antimicrobial 3D Printed Objects in the Fight Against Pandemics. <i>3D Printing and Additive Manufacturing</i> , 2021 , 8, 79-86	4	5
17	Poly(caprolactone)-based subcutaneous implant for sustained delivery of levothyroxine. <i>International Journal of Pharmaceutics</i> , 2021 , 607, 121011	6.5	5
16	Coated polymeric needles for rapid and deep intradermal delivery. <i>International Journal of Pharmaceutics: X</i> , 2020 , 2, 100048	3.2	4
15	Use of 3D Printing for the Development of Biodegradable Antiplatelet Materials for Cardiovascular Applications. <i>Pharmaceutics</i> , 2021 , 14,	5.2	4
14	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
13	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
12	Delivery of Nanomedicines Using Microneedles 2018 , 177-205		2
11	The Role of 3D Printing Technology in Microengineering of Microneedles.. <i>Small</i> , 2022 , e2106392	11	2
10	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
9	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
8	Fabrication of lignin-based hydrogels and their applications 2021 , 371-394		1
7	Classification, material types, and design approaches of long-acting and implantable drug delivery systems 2022 , 17-59		1
6	Bioadhesive Polymers for Drug Delivery 2017 , 559-601		0
5	Overview of the clinical current needs and potential applications for long-acting and implantable delivery systems 2022 , 1-16		0

- 4 3D-printed implantable devices with biodegradable rate-controlling membrane for sustained delivery of hydrophobic drugs.. *Drug Delivery*, **2022**, 29, 1038-1048 7 0
- 3 Microneedle Manufacturing and Testing **2018**, 21-70
- 2 Designing a unique feedback mechanism for hydrogel-forming microneedle array patches: a concept study. *Drug Delivery and Translational Research*, **2021**, 1 6.2
- 1 Implantable and long-lasting drug delivery systems for infectious, inflammatory, endocrine, and neurodegenerative diseases **2022**, 223-248