Mark Byrne

List of Publications by Year
in descending order

35 papers	1,869 citations	430874 18 h-index	361022 35 g-index
36 all docs	36 docs citations	36 times ranked	2090 citing authors

#	Article	IF	Citations
1	Molecular imprinting within hydrogels. Advanced Drug Delivery Reviews, 2002, 54, 149-161.	13.7	499
2	Therapeutic RNA aptamers in clinical trials. European Journal of Pharmaceutical Sciences, 2013, 48, 259-271.	4.0	237
3	Molecular imprinting within hydrogels II: Progress and analysis of the field. International Journal of Pharmaceutics, 2008, 364, 188-212.	5.2	161
4	Controlled Release of High Molecular Weight Hyaluronic Acid from Molecularly Imprinted Hydrogel Contact Lenses. Pharmaceutical Research, 2009, 26, 714-726.	3.5	156
5	Extended release of high molecular weight hydroxypropyl methylcellulose from molecularly imprinted, extended wear silicone hydrogel contact lenses. Biomaterials, 2011, 32, 5698-5705.	11.4	124
6	In vitro controlled release of an anti-inflammatory from daily disposable therapeutic contact lenses under physiological ocular tear flow. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 81, 170-177.	4.3	88
7	Transport and structural analysis of molecular imprinted hydrogels for controlled drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 69, 852-860.	4.3	82
8	Challenges and solutions in topical ocular drug-delivery systems. Expert Review of Clinical Pharmacology, 2008, 1, 145-161.	3.1	59
9	Living Radical Polymerization and Molecular Imprinting: Improving Polymer Morphology in Imprinted Polymers. Macromolecular Materials and Engineering, 2013, 298, 379-390.	3.6	52
10	Analysis of release kinetics of ocular therapeutics from drug releasing contact lenses: Best methods and practices to advance the field. Contact Lens and Anterior Eye, 2014, 37, 305-313.	1.7	48
11	Review of Contemporary Self-Assembled Systems for the Controlled Delivery of Therapeutics in Medicine. Nanomaterials, 2021, 11, 278.	4.1	43
12	Controlled Release of Multiple Therapeutics from Silicone Hydrogel Contact Lenses. Optometry and Vision Science, 2016, 93, 377-386.	1.2	37
13	Polyethylene glycol-b-poly(lactic acid) polymersomes as vehicles for enzyme replacement therapy. Nanomedicine, 2017, 12, 2591-2606.	3.3	32
14	Bringing comfort to the masses: A novel evaluation of comfort agent solution properties. Contact Lens and Anterior Eye, 2014, 37, 81-91.	1.7	28
15	A nanoscale drug delivery carrier using nucleic acid aptamers for extended release of therapeutic. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1143-1151.	3.3	25
16	Emerging therapies for neuropathic lysosomal storage disorders. Progress in Neurobiology, 2017, 152, 166-180.	5.7	25
17	Posterior Segment Ophthalmic Drug Delivery: Role of Muco-Adhesion with a Special Focus on Chitosan. Pharmaceutics, 2021, 13, 1685.	4.5	25
18	Amphiphilic PLGAâ€PEGâ€PLGA triblock copolymer nanogels varying in gelation temperature and modulus for the extended and controlled release of hyaluronic acid. Journal of Applied Polymer Science, 2020, 137, 48678.	2.6	22

#	Article	IF	Citations
19	Controlled Drug Release from Weakly Crosslinked Molecularly Imprinted Networks: The Benefit of Living Radical Polymerization. Macromolecular Chemistry and Physics, 2013, 214, 2355-2366.	2.2	14
20	Hyaluronic Acid: Its Versatile Use in Ocular Drug Delivery with a Specific Focus on Hyaluronic Acid-Based Polyelectrolyte Complexes. Pharmaceutics, 2022, 14, 1479.	4.5	12
21	Tailored binding and transport parameters of molecularly imprinted films via macromolecular structure: The rational design of recognitive polymers. Journal of Applied Polymer Science, 2008, 107, 3435-3441.	2.6	11
22	Revolutionary Future Uses of Contact Lenses. Optometry and Vision Science, 2016, 93, 325-327.	1.2	8
23	Controlled architecture for improved macromolecular memory within polymer networks. Current Opinion in Biotechnology, 2016, 40, 170-176.	6.6	8
24	In vivo drug delivery via contact lenses: The current state of the field from origins to present. Journal of Drug Delivery Science and Technology, 2021, 63, 102413.	3.0	8
25	Controlled Release of Multiple Therapeutics From Silicone Hydrogel Contact Lenses for Post-Cataract/Post-Refractive Surgery and Uveitis Treatment. Translational Vision Science and Technology, 2021, 10, 5.	2.2	8
26	Crosslinking diversity on network morphology, template binding, and template transport of molecularly imprinted polymers prepared via living radical polymerization. Journal of Applied Polymer Science, 2013, 130, 3588-3599.	2.6	7
27	Lyoprotectants modify and stabilize self-assembly of polymersomes. Polymer, 2016, 87, 316-322.	3.8	7
28	One Week Sustained In Vivo Therapeutic Release and Safety of Novel Extendedâ€Wear Silicone Hydrogel Contact Lenses. Advanced Healthcare Materials, 2022, 11, e2101263.	7.6	6
29	Characterization and analysis of <scp>extendedâ€wear</scp> silicone hydrogel contact lenses utilizing novel silicone macromers. Journal of Biomedical Materials Research - Part A, 2022, 110, 1512-1523.	4.0	6
30	Nucleic acid biohybrid nanocarriers with highâ€therapeutic payload and controllable extended release of daunomycin for cancer therapy. Journal of Biomedical Materials Research - Part A, 2021, 109, 1256-1265.	4.0	5
31	Recent applications of QCM-D for the design, synthesis, and characterization of bioactive materials. Journal of Bioactive and Compatible Polymers, 2021, 36, 261-275.	2.1	4
32	Extended Release of Doxorubicin-Loaded 3DNA Nanocarriers fromIn-SituForming, Self-Assembled Hydrogels. Journal of Ocular Pharmacology and Therapeutics, 2020, 36, 447-457.	1.4	3
33	Tailored Nucleic Acid Architectures at Gold Surfaces for Controlled Therapeutic Release. Langmuir, 2022, 38, 1698-1704.	3.5	2
34	Biomimetic Recognitive Polymer Networks for Ocular Delivery of Anti-Histamines. Materials Research Society Symposia Proceedings, 2005, 897, 1.	0.1	1
35	Sustained Release of Antibody-Conjugated DNA Nanocarriers from a Novel Injectable Hydrogel for Targeted Cell Depletion to Treat Cataract Posterior Capsule Opacification. Journal of Ocular Pharmacology and Therapeutics, 2022, , .	1.4	0