

Xin Dong Guo

List of Publications by Year in descending order

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67
papers

2,522
citations

201674

27
h-index

206112

48
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70
all docs

70
docs citations

70
times ranked

2372
citing authors

#	ARTICLE	IF	CITATIONS
1	Insulin delivery systems combined with microneedle technology. <i>Advanced Drug Delivery Reviews</i> , 2018, 127, 119-137.	13.7	197
2	Fabrication of coated polymer microneedles for transdermal drug delivery. <i>Journal of Controlled Release</i> , 2017, 265, 14-21.	9.9	131
3	pH-sensitive micelles self-assembled from multi-arm star triblock co-polymers poly(μ -caprolactone)-b-poly(2-(diethylamino)ethyl methacrylate)-b-poly(poly(ethylene glycol) methyl) Tj ETQq1 1 0&784314 r&BT /Over	7.8	114
4	pH-Sensitive Micelles Self-Assembled from Amphiphilic Copolymer Brush for Delivery of Poorly Water-Soluble Drugs. <i>Biomacromolecules</i> , 2011, 12, 116-122.	5.4	110
5	Dissipative Particle Dynamics Studies on Microstructure of pH-Sensitive Micelles for Sustained Drug Delivery. <i>Macromolecules</i> , 2010, 43, 7839-7844.	4.8	100
6	A basal-bolus insulin regimen integrated microneedle patch for intraday postprandial glucose control. <i>Science Advances</i> , 2020, 6, eaba7260.	10.3	99
7	A solid polymer microneedle patch pretreatment enhances the permeation of drug molecules into the skin. <i>RSC Advances</i> , 2017, 7, 15408-15415.	3.6	98
8	Rapidly separating microneedles for transdermal drug delivery. <i>Acta Biomaterialia</i> , 2016, 41, 312-319.	8.3	91
9	Amphiphilic copolymer brush with random pH-sensitive/hydrophobic structure: synthesis and self-assembled micelles for sustained drug delivery. <i>Soft Matter</i> , 2012, 8, 454-464.	2.7	78
10	A fabrication method of microneedle molds with controlled microstructures. <i>Materials Science and Engineering C</i> , 2016, 65, 135-142.	7.3	71
11	Dissipative Particle Dynamics Studies of Doxorubicin-Loaded Micelles Assembled from Four-Arm Star Triblock Polymers 4AS-PCL- <i>b</i> -PDEAEMA- <i>b</i> -PPEGMA and their pH-Release Mechanism. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13688-13697.	2.6	67
12	<i>In vitro</i> and <i>in vivo</i> assessment of polymer microneedles for controlled transdermal drug delivery. <i>Journal of Drug Targeting</i> , 2018, 26, 720-729.	4.4	62
13	Drug Release from pH-Sensitive Polymeric Micelles with Different Drug Distributions: Insight from Coarse-Grained Simulations. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17668-17678.	8.0	59
14	Controlled Delivery of Insulin Using Rapidly Separating Microneedles Fabricated from Genipin-Crosslinked Gelatin. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800075.	3.9	53
15	A gold nanoparticles deposited polymer microneedle enzymatic biosensor for glucose sensing. <i>Electrochimica Acta</i> , 2020, 358, 136917.	5.2	53
16	Self-Powered Controllable Transdermal Drug Delivery System. <i>Advanced Functional Materials</i> , 2021, 31, 2104092.	14.9	52
17	Dissipative Particle Dynamics Aided Design of Drug Delivery Systems: A Review. <i>Molecular Pharmaceutics</i> , 2020, 17, 1778-1799.	4.6	50
18	Microneedles with Controlled Bubble Sizes and Drug Distributions for Efficient Transdermal Drug Delivery. <i>Scientific Reports</i> , 2016, 6, 38755.	3.3	48

#	ARTICLE	IF	CITATIONS
19	Mesoscopic simulations on the aggregation behavior of pH-responsive polymeric micelles for drug delivery. <i>Journal of Colloid and Interface Science</i> , 2011, 363, 114-121.	9.4	42
20	Mesoscale Simulations and Experimental Studies of pH-Sensitive Micelles for Controlled Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25592-25600.	8.0	41
21	Can drug molecules diffuse into the core of micelles?. <i>Soft Matter</i> , 2012, 8, 9989.	2.7	38
22	Hyaluronic acid modified MPEG- <i>b</i> -PAE block copolymer aqueous micelles for efficient ophthalmic drug delivery of hydrophobic genistein. <i>Drug Delivery</i> , 2018, 25, 1258-1265.	5.7	37
23	Dissolvable layered microneedles with core-shell structures for transdermal drug delivery. <i>Materials Science and Engineering C</i> , 2018, 83, 143-147.	7.3	37
24	Structural optimization of rapidly separating microneedles for efficient drug delivery. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 51, 178-184.	5.8	34
25	Safety Evaluation of Solid Polymer Microneedles in Human Volunteers at Different Application Sites. <i>ACS Applied Bio Materials</i> , 2019, 2, 5616-5625.	4.6	32
26	Phase behavior study of paclitaxel loaded amphiphilic copolymer in two solvents by dissipative particle dynamics simulations. <i>Chemical Physics Letters</i> , 2009, 473, 336-342.	2.6	31
27	Synthesis and evaluation of cholesterol-grafted PEGylated peptides with pH-triggered property as novel drug carriers for cancer chemotherapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 55-64.	5.0	30
28	Development of a BDDE-crosslinked hyaluronic acid based microneedles patch as a dermal filler for anti-ageing treatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 65, 363-369.	5.8	29
29	Conductive Microneedle Patch with Electricity-Triggered Drug Release Performance for Atopic Dermatitis Treatment. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 31645-31654.	8.0	29
30	Self-implanted tiny needles as alternative to traditional parenteral administrations for controlled transdermal drug delivery. <i>International Journal of Pharmaceutics</i> , 2019, 556, 338-348.	5.2	27
31	Systematic Multiscale Method for Studying the Structure-Performance Relationship of Drug-Delivery Systems. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4719-4730.	3.7	26
32	Microneedle-assisted technology for minimally invasive medical sensing. <i>Microchemical Journal</i> , 2021, 162, 105830.	4.5	26
33	Optimization of dip-coating methods for the fabrication of coated microneedles for drug delivery. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 55, 101464.	3.0	25
34	In vivo safety assessment, biodistribution and toxicology of polyvinyl alcohol microneedles with 160-day uninterruptedly applications in mice. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 160, 1-8.	4.3	24
35	A high-dosage microneedle for programmable lidocaine delivery and enhanced local long-lasting analgesia. <i>Materials Science and Engineering C</i> , 2022, 133, 112620.	7.3	22
36	Microneedle-based technology for cell therapy: current status and future directions. <i>Nanoscale Horizons</i> , 2022, 7, 715-728.	8.0	22

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37	Mesoscopic simulation studies on the formation mechanism of drug loaded polymeric micelles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 536-544.	5.0	20
38	Application of mesoscale simulation to explore the aggregate morphology of pH-sensitive nanoparticles used as the oral drug delivery carriers under different conditions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 151, 280-286.	5.0	20
39	Assessment of mechanical stability of rapidly separating microneedles for transdermal drug delivery. <i>Drug Delivery and Translational Research</i> , 2018, 8, 1034-1042.	5.8	20
40	Kinetic stability studies of HBV vaccine in a microneedle patch. <i>International Journal of Pharmaceutics</i> , 2019, 567, 118489.	5.2	19
41	Simulation study of the pH sensitive directed self-assembly of rheins for sustained drug release hydrogel. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 195, 111260.	5.0	19
42	Multiscale simulations of drug distributions in polymer dissolvable microneedles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110844.	5.0	18
43	Improved imiquimod-induced psoriasis like dermatitis using microneedles in mice. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 164, 20-27.	4.3	18
44	A novel method for fabrication of coated microneedles with homogeneous and controllable drug dosage for transdermal drug delivery. <i>Drug Delivery and Translational Research</i> , 2022, 12, 2730-2739.	5.8	18
45	Synthesis, characterization and pH-Responsive self-assembly behavior of amphiphilic multiarm star triblock copolymers based on PCL, PDEAEMA, and PEG. <i>Macromolecular Research</i> , 2013, 21, 1011-1020.	2.4	17
46	How is a micelle formed from amphiphilic polymers in a dialysis process: Insight from mesoscopic studies. <i>Chemical Physics Letters</i> , 2020, 754, 137711.	2.6	17
47	Safety Assessment of Microneedle Technology for Transdermal Drug Delivery: A Review. <i>Advanced Therapeutics</i> , 2020, 3, 2000033.	3.2	17
48	Compatibility studies between an amphiphilic pH-sensitive polymer and hydrophobic drug using multiscale simulations. <i>RSC Advances</i> , 2016, 6, 101323-101333.	3.6	16
49	The maximum possible amount of drug in rapidly separating microneedles. <i>Drug Delivery and Translational Research</i> , 2019, 9, 1133-1142.	5.8	14
50	Codelivery of hydrophilic and hydrophobic drugs in a microneedle patch for the treatment of skin pigmentation. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 88, 241-250.	5.8	14
51	Effect of polymer microneedle pre-treatment on drug distributions in the skin <i>in vivo</i> . <i>Journal of Drug Targeting</i> , 2020, 28, 811-817.	4.4	13
52	An Update on the Routes for the Delivery of Donepezil. <i>Molecular Pharmaceutics</i> , 2021, 18, 2482-2494.	4.6	13
53	Dissolving microneedle rollers for rapid transdermal drug delivery. <i>Drug Delivery and Translational Research</i> , 2022, 12, 459-471.	5.8	13
54	Solvent mediated microstructures and release behavior of insulin from pH-sensitive nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 94, 206-212.	5.0	10

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55	Experimental and theoretical studies of drug-polymer interactions to control the drug distributions in dissolving microneedles. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 84, 280-289.	5.8	10
56	An update on microneedle-based systems for diabetes. <i>Drug Delivery and Translational Research</i> , 2022, 12, 2275-2286.	5.8	10
57	A Dissolvable Microneedle Formulation of <i>Bordetella pertussis</i> Subunit Vaccine: Translational Development and Immunological Evaluation in Mice. <i>ACS Applied Bio Materials</i> , 2019, 2, 5053-5061.	4.6	9
58	Advances in self-assembling of pH-sensitive polymers: A mini review on dissipative particle dynamics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 210, 112202.	5.0	8
59	Stability and Diffusion Properties of Insulin in Dissolvable Microneedles: A Multiscale Simulation Study. <i>Langmuir</i> , 2021, 37, 9244-9252.	3.5	7
60	Mesoscopic Simulation for the Effect of Cross-Linking Reactions on the Drug Diffusion Properties in Microneedles. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 4000-4010.	5.4	6
61	Safety evaluation of 3-month effects of microneedle patches prepared from hyaluronic acid in mice. <i>Biochemical Engineering Journal</i> , 2021, 176, 108157.	3.6	6
62	Mechanism studies on the cellular internalization of nanoparticles using computer simulations: A review. <i>AIChE Journal</i> , 2022, 68, e17507.	3.6	6
63	Advances in porous microneedle systems for drug delivery and biomarker detection: A mini review. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 74, 103518.	3.0	5
64	Some attempts to increase the amount of drug coated onto the microneedles. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 67, 102986.	3.0	4
65	Mechanical evaluation of polymer microneedles for transdermal drug delivery: In vitro and in vivo. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 114, 181-189.	5.8	4
66	Studies on pH-sensitive micellar structures for sustained drug delivery: Experiments and computer simulations. <i>Journal of Controlled Release</i> , 2011, 152, e26-e28.	9.9	2
67	Macromol. Rapid Commun. 20/2018. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1870048.	3.9	0