

Ben Newland

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,170
citations

236612

25
h-index

233125

45
g-index

61
all docs

61
docs citations

61
times ranked

2996
citing authors

#	ARTICLE	IF	CITATIONS
1	Mussel-inspired hyperbranched poly(amino ester) polymer as strong wet tissue adhesive. <i>Biomaterials</i> , 2014, 35, 711-719.	5.7	205
2	Extracellular Matrix Components HAPLN1, Lumican, and Collagen I Cause Hyaluronic Acid-Dependent Folding of the Developing Human Neocortex. <i>Neuron</i> , 2018, 99, 702-719.e6.	3.8	139
3	Highly branched poly(β -amino ester)s for skin gene therapy. <i>Journal of Controlled Release</i> , 2016, 244, 336-346.	4.8	95
4	Complex polymer architectures through free-radical polymerization of multivinyl monomers. <i>Nature Reviews Chemistry</i> , 2020, 4, 194-212.	13.8	93
5	A highly effective gene delivery vector – hyperbranched poly(2-(dimethylamino)ethyl methacrylate) from in situ deactivation enhanced ATRP. <i>Chemical Communications</i> , 2010, 46, 4698.	2.2	86
6	Catechol functionalized hyperbranched polymers as biomedical materials. <i>Progress in Polymer Science</i> , 2018, 78, 47-55.	11.8	85
7	3D Single Cyclized Polymer Chain Structure from Controlled Polymerization of Multi-Vinyl Monomers: Beyond Flory’s Stockmayer Theory. <i>Journal of the American Chemical Society</i> , 2011, 133, 13130-13137.	6.6	82
8	Single Cyclized Molecule Versus Single Branched Molecule: A Simple and Efficient 3D “Knot” Polymer Structure for Nonviral Gene Delivery. <i>Journal of the American Chemical Society</i> , 2012, 134, 4782-4789.	6.6	81
9	Highly branched poly(β -amino ester) delivery of minicircle DNA for transfection of neurodegenerative disease related cells. <i>Nature Communications</i> , 2019, 10, 3307.	5.8	80
10	The reduction in immunogenicity of neurotrophin overexpressing stem cells after intra-striatal transplantation by encapsulation in situ gelling collagen hydrogel. <i>Biomaterials</i> , 2013, 34, 9420-9429.	5.7	75
11	Significance of Branching for Transfection: Synthesis of Highly Branched Degradable Functional Poly(dimethylaminoethyl methacrylate) by Vinyl Oligomer Combination. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6095-6100.	7.2	74
12	A biomimetic hyperbranched poly(amino ester)-based nanocomposite as a tunable bone adhesive for sternal closure. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4067.	2.9	66
13	On-demand and negative-thermo-swelling tissue adhesive based on highly branched ambivalent PEG-catechol copolymers. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6420-6428.	2.9	65
14	Tackling Cell Transplantation Anoikis: An Injectable, Shape Memory Cryogel Microcarrier Platform Material for Stem Cell and Neuronal Cell Growth. <i>Small</i> , 2015, 11, 5047-5053.	5.2	62
15	Improved axonal regeneration of transected spinal cord mediated by multichannel collagen conduits functionalized with neurotrophin-3 gene. <i>Gene Therapy</i> , 2013, 20, 1149-1157.	2.3	57
16	Reactive oxygen species (ROS): utilizing injectable antioxidative hydrogels and ROS-producing therapies to manage the double-edged sword. <i>Journal of Materials Chemistry B</i> , 2021, 9, 6326-6346.	2.9	46
17	Oxygen-Producing Gellan Gum Hydrogels for Dual Delivery of Either Oxygen or Peroxide with Doxorubicin. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 787-792.	2.6	43
18	Controlled Polymerization of Multivinyl Monomers: Formation of Cyclized/Knotted Single Chain Polymer Architectures. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 450-460.	7.2	43

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19	Dual stimuli responsive PEG based hyperbranched polymers. <i>Polymer Chemistry</i> , 2010, 1, 827.	1.9	40
20	The neurotoxicity of gene vectors and its amelioration by packaging with collagen hollow spheres. <i>Biomaterials</i> , 2013, 34, 2130-2141.	5.7	37
21	Selective vulnerability of inhibitory networks in multiple sclerosis. <i>Acta Neuropathologica</i> , 2021, 141, 415-429.	3.9	37
22	GDNF Gene Delivery via a 2-(Dimethylamino)ethyl Methacrylate Based Cyclized Knot Polymer for Neuronal Cell Applications. <i>ACS Chemical Neuroscience</i> , 2013, 4, 540-546.	1.7	32
23	Synthesis of ROS scavenging microspheres from a dopamine containing poly(β -amino ester) for applications for neurodegenerative disorders. <i>Biomaterials Science</i> , 2016, 4, 400-404.	2.6	31
24	Untying a nanoscale knotted polymer structure to linear chains for efficient gene delivery in vitro and to the brain. <i>Nanoscale</i> , 2014, 6, 7526-7533.	2.8	28
25	Macroporous heparin-based microcarriers allow long-term 3D culture and differentiation of neural precursor cells. <i>Biomaterials</i> , 2020, 230, 119540.	5.7	27
26	Biomaterial based strategies to reconstruct the nigrostriatal pathway in organotypic slice co-cultures. <i>Acta Biomaterialia</i> , 2021, 121, 250-262.	4.1	25
27	Single cyclized molecule structures from RAFT homopolymerization of multi-vinyl monomers. <i>Chemical Communications</i> , 2012, 48, 3085.	2.2	24
28	Prospects for polymer therapeutics in Parkinson's disease and other neurodegenerative disorders. <i>Progress in Polymer Science</i> , 2015, 44, 79-112.	11.8	24
29	Cryogel biomaterials for neuroscience applications. <i>Neurochemistry International</i> , 2021, 147, 105012.	1.9	24
30	A hyperbranched dopamine-containing PEG-based polymer for the inhibition of α -synuclein fibrillation. <i>Biochemical and Biophysical Research Communications</i> , 2016, 469, 830-835.	1.0	23
31	Soft and flexible poly(ethylene glycol) nanotubes for local drug delivery. <i>Nanoscale</i> , 2018, 10, 8413-8421.	2.8	22
32	Does local drug delivery still hold therapeutic promise for brain cancer? A systematic review. <i>Journal of Controlled Release</i> , 2021, 337, 296-305.	4.8	22
33	The reverse of polymer degradation: in situ crosslinked gel formation through disulfide cleavage. <i>Chemical Communications</i> , 2012, 48, 585-587.	2.2	20
34	Biomaterial approaches to gene therapies for neurodegenerative disorders of the CNS. <i>Biomaterials Science</i> , 2013, 1, 556.	2.6	19
35	Beyond Branching: Multiknot Structured Polymer for Gene Delivery. <i>Biomacromolecules</i> , 2014, 15, 4520-4527.	2.6	18
36	Magnetically Controllable Polymer Nanotubes from a Cyclized Crosslinker for Site-Specific Delivery of Doxorubicin. <i>Scientific Reports</i> , 2015, 5, 17478.	1.6	16

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37	Focal drug administration via heparin-containing cryogel microcarriers reduces cancer growth and metastasis. <i>Carbohydrate Polymers</i> , 2020, 245, 116504.	5.1	16
38	Targeting delivery in Parkinson's disease. <i>Drug Discovery Today</i> , 2016, 21, 1313-1320.	3.2	15
39	Cryogel scaffolds for regionally constrained delivery of lysophosphatidylcholine to central nervous system slice cultures: A model of focal demyelination for multiple sclerosis research. <i>Acta Biomaterialia</i> , 2019, 97, 216-229.	4.1	15
40	Heparin-based, injectable microcarriers for controlled delivery of interleukin-13 to the brain. <i>Biomaterials Science</i> , 2020, 8, 4997-5004.	2.6	15
41	Local delivery to malignant brain tumors: potential biomaterial-based therapeutic/adjuvant strategies. <i>Biomaterials Science</i> , 2021, 9, 6037-6051.	2.6	15
42	Low polydispersity (N-ethyl pyrrolidine methacrylamide-co-1-vinylimidazole) linear oligomers for gene therapy applications. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 82, 465-474.	2.0	14
43	The ying and yang of idebenone: Not too little, not too much " cell death in NQO1 deficient cells and the mouse retina. <i>Free Radical Biology and Medicine</i> , 2020, 152, 551-560.	1.3	14
44	Oxygen producing microscale spheres affect cell survival in conditions of oxygen-glucose deprivation in a cell specific manner: implications for cell transplantation. <i>Biomaterials Science</i> , 2018, 6, 2571-2577.	2.6	13
45	Injectable Glycosaminoglycan-Based Cryogels from Well-Defined Microscale Templates for Local Growth Factor Delivery. <i>ACS Chemical Neuroscience</i> , 2021, 12, 1178-1188.	1.7	12
46	Sulfonated cryogel scaffolds for focal delivery in ex-vivo brain tissue cultures. <i>Biomaterials</i> , 2021, 271, 120712.	5.7	12
47	Controlled homopolymerization of multi-vinyl monomers: dendritic polymers synthesized via an optimized ATRA reaction. <i>Chemical Communications</i> , 2013, 49, 10124.	2.2	11
48	A reliable method for detecting complexed DNA in vitro. <i>Nanoscale</i> , 2010, 2, 2718.	2.8	9
49	Static and dynamic 3D culture of neural precursor cells on macroporous cryogel microcarriers. <i>MethodsX</i> , 2020, 7, 100805.	0.7	9
50	Preparation, loading, and cytotoxicity analysis of polymer nanotubes from an ethylene glycol dimethacrylate homopolymer in comparison to multi-walled carbon nanotubes. <i>Journal of Interdisciplinary Nanomedicine</i> , 2016, 1, 9-18.	3.6	8
51	Poly(ethylene glycol) based nanotubes for tuneable drug delivery to glioblastoma multiforme. <i>Nanoscale Advances</i> , 2020, 2, 4498-4509.	2.2	8
52	Non-viral xylosyltransferase-1 siRNA delivery as an effective alternative to chondroitinase in an in vitro model of reactive astrocytes. <i>Neuroscience</i> , 2016, 339, 267-275.	1.1	7
53	Kontrollierte Polymerisation von Multivinyl-Monomeren: Bildung einer cyclischen/verknöteten Einzelketten-Polymerarchitektur. <i>Angewandte Chemie</i> , 2017, 129, 462-473.	1.6	5
54	Oxygen-glucose deprivation in neurons: implications for cell transplantation therapies. <i>Progress in Neurobiology</i> , 2021, 205, 102126.	2.8	5

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55	Cryogel scaffolds: soft and easy to use tools for neural tissue culture. <i>Neural Regeneration Research</i> , 2022, 17, 1981.	1.6	5
56	Growth Factor Therapy for Parkinson's Disease: Alternative Delivery Systems. <i>Journal of Parkinson's Disease</i> , 2021, 11, S229-S236.	1.5	4
57	Well-Defined Polyethylene Glycol Microscale Hydrogel Blocks Containing Gold Nanorods for Dual Photothermal and Chemotherapeutic Therapy. <i>Pharmaceutics</i> , 2022, 14, 551.	2.0	3
58	New avenues for therapy in mitochondrial optic neuropathies. <i>Therapeutic Advances in Rare Disease</i> , 2021, 2, 263300402110290.	0.3	0