Laura Anne Poole-Warren

List of Publications by Year
in descending order

112 papers	6,057 citations	71102 41 h-index	74163 75 g-index
120 all docs	120 docs citations	120 times ranked	7088 citing authors

#	Article	IF	Citations
1	Conducting polymers for neural interfaces: Challenges in developing an effective long-term implant. Biomaterials, 2008, 29, 3393-3399.	11.4	677
2	Cell attachment functionality of bioactive conducting polymers for neural interfaces. Biomaterials, 2009, 30, 3637-3644.	11.4	238
3	Conducting polymer-hydrogels for medical electrode applications. Science and Technology of Advanced Materials, 2010, 11, 014107.	6.1	221
4	Organic electrode coatings for next-generation neural interfaces. Frontiers in Neuroengineering, 2014, 7, 15.	4.8	211
5	Honeycomb-Structured Porous Films from Polypyrrole-Containing Block Copolymers Prepared via RAFT Polymerization as a Scaffold for Cell Growth. Biomacromolecules, 2006, 7, 1072-1082.	5.4	193
6	Effects of nitric oxide releasing poly(vinyl alcohol) hydrogel dressings on dermal wound healing in diabetic mice. Wound Repair and Regeneration, 2002, 10, 286-294.	3.0	175
7	Substrate dependent stability of conducting polymer coatings on medical electrodes. Biomaterials, 2012, 33, 5875-5886.	11.4	175
8	Long-term in vivo biostability of poly(dimethylsiloxane)/poly(hexamethylene oxide) mixed macrodiol-based polyurethane elastomers. Biomaterials, 2004, 25, 4887-4900.	11.4	171
9	Conductive Hydrogels: Mechanically Robust Hybrids for Use as Biomaterials. Macromolecular Bioscience, 2012, 12, 494-501.	4.1	168
10	Impact of co-incorporating laminin peptide dopants and neurotrophic growth factors on conducting polymer properties. Acta Biomaterialia, 2010, 6, 63-71.	8.3	163
11	Polydimethylsiloxane/polyether-mixed macrodiol-based polyurethane elastomers: biostability. Biomaterials, 2000, 21, 1021-1029.	11.4	158
12	Furanones as potential anti-bacterial coatings on biomaterials. Biomaterials, 2004, 25, 5003-5012.	11.4	155
13	The control of Staphylococcus epidermidis biofilm formation and in vivo infection rates by covalently bound furanones. Biomaterials, 2004, 25, 5023-5030.	11.4	139
14	Covalent incorporation of non-chemically modified gelatin into degradable PVA-tyramine hydrogels. Biomaterials, 2013, 34, 7097-7105.	11.4	124
15	Silk fibroin/poly(vinyl alcohol) photocrosslinked hydrogels for delivery of macromolecular drugs. Acta Biomaterialia, 2012, 8, 1720-1729.	8.3	123
16	Structural and functional characterisation of poly(vinyl alcohol) and heparin hydrogels. Biomaterials, 2008, 29, 4658-4664.	11.4	112
17	Performance of conducting polymer electrodes for stimulating neuroprosthetics. Journal of Neural Engineering, 2013, 10, 016009.	3.5	108
18	Biostability and biological performance of a PDMS-based polyurethane for controlled drug release. Biomaterials, 2008, 29, 2987-2995.	11.4	104

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19	Porous Orbital Implants in Enucleation: A Systematic Review. Survey of Ophthalmology, 2007, 52, 145-155.	4.0	102
20	Conductive hydrogels with tailored bioactivity for implantable electrode coatings. Acta Biomaterialia, 2014, 10, 1216-1226.	8.3	102
21	A photo-crosslinked poly(vinyl alcohol) hydrogel growth factor release vehicle for wound healing applications. AAPS PharmSci, 2003, 5, 101-111.	1.3	100
22	Immunoisolating semi-permeable membranes for cell encapsulation: Focus on hydrogels. Journal of Controlled Release, 2011, 154, 110-122.	9.9	90
23	Interpenetrating Conducting Hydrogel Materials for Neural Interfacing Electrodes. Advanced Healthcare Materials, 2017, 6, 1601177.	7.6	90
24	The effect of sterilisation on a poly(dimethylsiloxane)/poly(hexamethylene oxide) mixed macrodiol-based polyurethane elastomer. Biomaterials, 2006, 27, 4484-4497.	11.4	85
25	Combining submerged electrospray and UV photopolymerization for production of synthetic hydrogel microspheres for cell encapsulation. Biotechnology and Bioengineering, 2012, 109, 1561-1570.	3.3	77
26	Effects of dopants on the biomechanical properties of conducting polymer films on platinum electrodes. Journal of Biomedical Materials Research - Part A, 2014, 102, 2743-2754.	4.0	77
27	Matrix Components and Scaffolds for Sustained Islet Function. Tissue Engineering - Part B: Reviews, 2011, 17, 235-247.	4.8	66
28	Performance of a polyurethane vascular prosthesis carrying a dipyridamole (Persantinï¿½) coating on its lumenal surface. Journal of Biomedical Materials Research Part B, 2001, 54, 224-233.	3.1	64
29	Development of bioactive conducting polymers for neural interfaces. Expert Review of Medical Devices, 2010, 7, 35-49.	2.8	64
30	Improving Cochlear Implant Properties Through Conductive Hydrogel Coatings. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 411-418.	4.9	62
31	Novel neural interface for implant electrodes: improving electroactivity of polypyrrole through MWNT incorporation. Journal of Materials Science: Materials in Medicine, 2008, 19, 1625-1629.	3.6	60
32	Chitosan adhesive for laser tissue repair: In vitro characterization. Lasers in Surgery and Medicine, 2005, 36, 193-201.	2.1	59
33	The modulation of platelet and endothelial cell adhesion to vascular graft materials by perlecan. Biomaterials, 2009, 30, 4898-4906.	11.4	58
34	Antibacterial polyurethane nanocomposites using chlorhexidine diacetate as an organic modifier. Acta Biomaterialia, 2010, 6, 2554-2561.	8.3	54
35	The Influence of Silkworm Species on Cellular Interactions with Novel PVA/Silk Sericin Hydrogels. Macromolecular Bioscience, 2012, 12, 322-332.	4.1	54
36	The effect of redox polymerisation on degradation and cell responses to poly (vinyl alcohol) hydrogels. Biomaterials, 2007, 28, 947-955.	11.4	49

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37	Comparative evaluation of treated bovine pericardium as a xenograft for hernia repair. Biomaterials, 1991, 12, 801-809.	11.4	47
38	Effect of Poly(vinyl alcohol) Macromer Chemistry and Chain Interactions on Hydrogel Mechanical Properties. Chemistry of Materials, 2007, 19, 2641-2648.	6.7	47
39	Synthesis and Characterization of Radiopaque Iodine-containing Degradable PVA Hydrogels. Biomacromolecules, 2008, 9, 263-268.	5.4	46
40	Promoting Cell Survival and Proliferation in Degradable Poly(vinyl alcohol)â€"Tyramine Hydrogels. Macromolecular Bioscience, 2015, 15, 1423-1432.	4.1	43
41	Biological performance of a novel synthetic furanone-based antimicrobial. Biomaterials, 2004, 25, 5013-5021.	11.4	41
42	Degradable, click poly(vinyl alcohol) hydrogels: characterization of degradation and cellular compatibility. Biomedical Materials (Bristol), 2012, 7, 024106.	3.3	40
43	Tissue engineered hydrogels supporting 3D neural networks. Acta Biomaterialia, 2019, 95, 269-284.	8.3	40
44	Mechanical characteristics of swollen gellan gum hydrogels. Journal of Applied Polymer Science, 2013, 130, 3374-3383.	2.6	39
45	A comparative study of enzyme initiators for crosslinking phenol-functionalized hydrogels for cell encapsulation. Biomaterials Research, 2016, 20, 30.	6.9	39
46	Albumin-genipin solder for laser tissue repair. Lasers in Surgery and Medicine, 2004, 35, 140-145.	2.1	38
47	Network structure and macromolecular drug release from poly(vinyl alcohol) hydrogels fabricated via two crosslinking strategies. International Journal of Pharmaceutics, 2009, 366, 31-37.	5.2	38
48	Performance of small diameter synthetic vascular prostheses with confluent autologous endothelial cell linings. , 1996, 30, 221-229.		37
49	A living electrode construct for incorporation of cells into bionic devices. MRS Communications, 2017, 7, 487-495.	1.8	37
50	The biological and electrical trade-offs related to the thickness of conducting polymers for neural applications. Acta Biomaterialia, 2014, 10, 3048-3058.	8.3	36
51	Electrochemical and biological performance of chronically stimulated conductive hydrogel electrodes. Journal of Neural Engineering, 2020, 17, 026018.	3.5	36
52	A critical review of cell culture strategies for modelling intracortical brain implant material reactions. Biomaterials, 2016, 91, 23-43.	11.4	33
53	A novel textured surface for blood-contact. Biomaterials, 1999, 20, 955-962.	11.4	31
54	Small bioactive molecules as dual functional co-dopants for conducting polymers. Journal of Materials Chemistry B, 2015, 3, 5058-5069.	5.8	31

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55	<i>In vitro</i> fibroblast response to polyurethane organosilicate nanocomposites. Journal of Biomedical Materials Research - Part A, 2008, 86A, 571-582.	4.0	30
56	Cytotoxicity of implantable microelectrode arrays produced by laser micromachining. Biomaterials, 2010, 31, 886-893.	11.4	30
57	Stiffness quantification of conductive polymers for bioelectrodes. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 666-675.	2.1	29
58	New methods for the assessment of in vitro and in vivo stress cracking in biomedical polyurethanes. Biomaterials, 2001, 22, 973-978.	11.4	27
59	Thin film hydrophilic electroactive polymer coatings for bioelectrodes. Journal of Materials Chemistry B, 2013, 1, 3803.	5.8	26
60	Living electrodes: Tissue engineering the neural interface. , 2013, 2013, 6957-60.		25
61	Poly(vinyl alcohol)-heparin biosynthetic microspheres produced by microfluidics and ultraviolet photopolymerisation. Biomicrofluidics, 2013, 7, 44109.	2.4	23
62	Tailoring 3D hydrogel systems for neuronal encapsulation in living electrodes. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 273-287.	2.1	22
63	Electrochemical and mechanical performance of reduced graphene oxide, conductive hydrogel, and electrodeposited Ptâ€“Ir coated electrodes: an active<i>in vitro</i>study. Journal of Neural Engineering, 2020, 17, 016015.	3.5	22
64	In vivo biostability of polyurethaneâ€“organosilicate nanocomposites. Acta Biomaterialia, 2012, 8, 2243-2253.	8.3	20
65	Development of sustainedâ€release antibacterial urinary biomaterials through using an antimicrobial as an organic modifier in polyurethane nanocomposites. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 310-319.	3.4	20
66	Syndecan-4 is associated with beta-cells in the pancreas and the MIN6 beta-cell line. Histochemistry and Cell Biology, 2012, 138, 933-944.	1.7	19
67	The development of a dense gas solvent exchange process for the impregnation of pharmaceuticals into porous chitosan. International Journal of Pharmaceutics, 2010, 391, 187-196.	5.2	18
68	Mediating conducting polymer growth within hydrogels by controlling nucleation. APL Materials, 2015, 3, .	5.1	16
69	Acute cellular interaction with textured surfaces in blood contact. Journal of Biomedical Materials Research Part B, 2000, 52, 517-527.	3.1	15
70	Understanding and tailoring the degradation of PVAâ€tyramine hydrogels. Journal of Applied Polymer Science, 2015, 132, .	2.6	15
71	Advances in Retinal Neuroprosthetics. , 0, , 337-356.		14
72	Non-degradable polymer nanocomposites for drug delivery. Expert Opinion on Drug Delivery, 2011, 8, 765-778.	5.0	14

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73	Laboratory diagnosis of peritonitis in patients treated with continuous ambulatory peritoneal dialysis. Pathology, 1986, 18, 237-239.	0.6	14
74	Enzyme and cytokine effects on the impaired onset of the murine foreign-body reaction to dermal sheep collagen. Journal of Biomedical Materials Research Part B, 2001, 54, 234-240.	3.1	13
75	Controlling cell-material interactions with polymer nanocomposites by use of surface modifying additives. Applied Surface Science, 2008, 255, 519-522.	6.1	13
76	Mechanisms for Imparting Conductivity to Nonconductive Polymeric Biomaterials. Macromolecular Bioscience, 2016, 16, 1103-1121.	4.1	12
77	Challenges of therapeutic delivery using conducting polymers. Therapeutic Delivery, 2012, 3, 421-427.	2.2	11
78	Producing 3D neuronal networks in hydrogels for living bionic device interfaces. , 2015, 2015, 2600-3.		11
79	A Neuroethics Framework for the Australian Brain Initiative. Neuron, 2019, 101, 365-369.	8.1	11
80	Structural and permeability characterization of biosynthetic PVA hydrogels designed for cell-based therapy. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 1771-1790.	3.5	10
81	In vitro calcification of UHMWPE/PU composite membrane. Materials Science and Engineering C, 2002, 20, 149-152.	7.3	9
82	Bioactivity of permselective <scp>PVA</scp> hydrogels with mixed <scp>ECM</scp> analogues. Journal of Biomedical Materials Research - Part A, 2015, 103, 3727-3735.	4.0	9
83	<i>InÂvivo</i> delivery of functional Flightless I siRNA using layer-by-layer polymer surface modification. Journal of Biomaterials Applications, 2015, 30, 257-268.	2.4	9
84	Improving Deep Brain Stimulation Electrode Performance in vivo Through Use of Conductive Hydrogel Coatings. Frontiers in Neuroscience, 2021, 15, 761525.	2.8	9
85	Novel Neural Interface for Vision Prosthesis Electrodes: Improving Electrical and Mechanical Properties through Layering. , 2007, , .		8
86	Bioactive conducting polymers for neural interfaces application to vision prosthesis. , 2009, , .		8
87	An Improved in vitro Model of Cortical Tissue. Frontiers in Neuroscience, 2019, 13, 1349.	2.8	8
88	Subthreshold Electrical Stimulation for Controlling Protein-Mediated Impedance Increases in Platinum Cochlear Electrode. IEEE Transactions on Biomedical Engineering, 2020, 67, 3510-3520.	4.2	8
89	Conducting polymer electrodes for visual prostheses. , 2010, 2010, 6769-72.		7
90	Electrically conductive polyurethanes for biomedical applications. , 2005, 5651, 329.		6

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91	Characterisation of Redox Initiators for Producing Poly(Vinyl Alcohol) Hydrogels. Macromolecular Symposia, 2008, 266, 59-62.	0.7	6
92	Elastomeric Nanocomposites for Biomedical Applications. Advanced Structured Materials, 2011, , 255-278.	0.5	6
93	Effects of drug chemistry on the dispersion and release behaviour of polyurethane organosilicate nanocomposites. European Polymer Journal, 2013, 49, 652-663.	5.4	6
94	Correlation of macromolecular permeability to network characteristics of multivinyl poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	2.1	6
95	Impedance Properties of Multi-Optrode Biopotential Sensing Arrays. IEEE Transactions on Biomedical Engineering, 2022, 69, 1674-1684.	4.2	6
96	Development and performance of a biomimetic artificial perilymph for<i>in vitro</i>testing of medical devices. Journal of Neural Engineering, 2019, 16, 026006.	3.5	4
97	The Role of Vaccination in the Prevention of Staphylococcal Peritonitis in Continuous Ambulatory Peritoneal Dialysis. Peritoneal Dialysis International, 1993, 13, 176-177.	2.3	3
98	Fluid Dynamics of a Textured Blood-Contacting Surface. Journal of Biomechanical Engineering, 2001, 123, 97-105.	1.3	3
99	Polyurethane Organosilicate Nanocomposites as Blood Compatible Coatings. Coatings, 2012, 2, 45-63.	2.6	3
100	Platelet interactions with polyurethane nanocomposites: effect of organic modifier terminal functionality. Materials Technology, 2014, 29, B114-B119.	3.0	3
101	In vitro biological assessment of electrode materials for neural interfaces. , 2015, , .		3
102	Biosynthetic Hydrogels for Cell Encapsulation. Springer Series in Biomaterials Science and Engineering, 2018, , 1-29.	1.0	3
103	Electrochemical stability of poly(ethylene dioxythiophene) electrodes. , 2011, , .		2
104	Freestanding, soft bioelectronics. , 2015, , .		2
105	Compression-induced changes on physical structures and calcification of the aromatic polyether polyurethane composite. Journal of Biomaterials Science, Polymer Edition, 2003, 14, 1117-1133.	3.5	1
106	<title>Low-temperature solder for laser tissue welding</title>. , 2003, , .		1
107	Overview of Recent Advances in Injectable Materials for Augmentation of Bone and Soft-Tissue. Recent Patents on Biomedical Engineering, 2008, 1, 116-126.	0.5	1
108	Bio-synthetic Encapsulation Systems for Organ Engineering: Focus on Diabetes. , 2011, , 363-381.		1

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109	Albumin-genipin solder for laser tissue welding. , 2004, , .		0
110	Materials facilitating protein drug delivery and vascularisation. , 2010, , 179-203.		0
111	CHAPTER 8. Bioactive Conducting Polymers for Optimising the Neural Interface. RSC Smart Materials, 2014, , 192-220.	0.1	0
112	Challenges and solutions for fabrication of three-dimensional cocultures of neural cell-loaded biomimetic constructs. Biointerphases, 2021, 16, 011202.	1.6	0