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	Impedance Properties of Multi-Optrode Biopotential Sensing Arrays. IEEE Transactions on Biomedical Engineering, 2022, 69, 1674-1684.	4.2	6
2	Challenges and solutions for fabrication of three-dimensional cocultures of neural cell-loaded biomimetic constructs. Biointerphases, 2021, 16, 011202.	1.6	0
3	Improving Deep Brain Stimulation Electrode Performance in vivo Through Use of Conductive Hydrogel Coatings. Frontiers in Neuroscience, 2021, 15, 761525.	2.8	9
4	Electrochemical and mechanical performance of reduced graphene oxide, conductive hydrogel, and electrodeposited Ptâ€“Ir coated electrodes: an activein vitrostudy. Journal of Neural Engineering, 2020, 17, 016015.	3.5	22
5	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
6	Electrochemical and biological performance of chronically stimulated conductive hydrogel electrodes. Journal of Neural Engineering, 2020, 17, 026018.	3.5	36
7	A Neuroethics Framework for the Australian Brain Initiative. Neuron, 2019, 101, 365-369.	8.1	11
8	An Improved in vitro Model of Cortical Tissue. Frontiers in Neuroscience, 2019, 13, 1349.	2.8	8
9	Tissue engineered hydrogels supporting 3D neural networks. Acta Biomaterialia, 2019, 95, 269-284.	8.3	40
10	Development and performance of a biomimetic artificial perilymph forin vitrotesting of medical devices. Journal of Neural Engineering, 2019, 16, 026006.	3.5	4
11	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
12	Biosynthetic Hydrogels for Cell Encapsulation. Springer Series in Biomaterials Science and Engineering, 2018, , 1-29.	1.0	3
13	Interpenetrating Conducting Hydrogel Materials for Neural Interfacing Electrodes. Advanced Healthcare Materials, 2017, 6, 1601177.	7.6	90
14	A living electrode construct for incorporation of cells into bionic devices. MRS Communications, 2017, 7, 487-495.	1.8	37
15	Mechanisms for Imparting Conductivity to Nonconductive Polymeric Biomaterials. Macromolecular Bioscience, 2016, 16, 1103-1121.	4.1	12
16	A comparative study of enzyme initiators for crosslinking phenol-functionalized hydrogels for cell encapsulation. Biomaterials Research, 2016, 20, 30.	6.9	39
17	A critical review of cell culture strategies for modelling intracortical brain implant material reactions. Biomaterials, 2016, 91, 23-43.	11.4	33
18	Promoting Cell Survival and Proliferation in Degradable Poly(vinyl alcohol)â€“Tyramine Hydrogels. Macromolecular Bioscience, 2015, 15, 1423-1432.	4.1	43

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19	Understanding and tailoring the degradation of PVAâ€tyramine hydrogels. Journal of Applied Polymer Science, 2015, 132, .	2.6	15
20	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
21	Producing 3D neuronal networks in hydrogels for living bionic device interfaces. , 2015, 2015, 2600-3.		11
22	Freestanding, soft bioelectronics. , 2015, , .		2
23	Small bioactive molecules as dual functional co-dopants for conducting polymers. Journal of Materials Chemistry B, 2015, 3, 5058-5069.	5.8	31
24	InÂvivo delivery of functional Flightless I siRNA using layer-by-layer polymer surface modification. Journal of Biomaterials Applications, 2015, 30, 257-268.	2.4	9
25	In vitro biological assessment of electrode materials for neural interfaces. , 2015, , .		3
26	Mediating conducting polymer growth within hydrogels by controlling nucleation. APL Materials, 2015, 3, .	5.1	16
27	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
28	CHAPTER 8. Bioactive Conducting Polymers for Optimising the Neural Interface. RSC Smart Materials, 2014, , 192-220.	0.1	0
29	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
30	Correlation of macromolecular permeability to network characteristics of multivinyl poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	2.1	6
31	Platelet interactions with polyurethane nanocomposites: effect of organic modifier terminal functionality. Materials Technology, 2014, 29, B114-B119.	3.0	3
32	Conductive hydrogels with tailored bioactivity for implantable electrode coatings. Acta Biomaterialia, 2014, 10, 1216-1226.	8.3	102
33	Stiffness quantification of conductive polymers for bioelectrodes. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 666-675.	2.1	29
34	Improving Cochlear Implant Properties Through Conductive Hydrogel Coatings. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 411-418.	4.9	62
35	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
36	Organic electrode coatings for next-generation neural interfaces. Frontiers in Neuroengineering, 2014, 7, 15.	4.8	211

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37	Performance of conducting polymer electrodes for stimulating neuroprosthetics. Journal of Neural Engineering, 2013, 10, 016009.	3.5	108
38	Effects of drug chemistry on the dispersion and release behaviour of polyurethane organosilicate nanocomposites. European Polymer Journal, 2013, 49, 652-663.	5.4	6
39	Thin film hydrophilic electroactive polymer coatings for bioelectrodes. Journal of Materials Chemistry B, 2013, 1, 3803.	5.8	26
40	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
41	Covalent incorporation of non-chemically modified gelatin into degradable PVA-tyramine hydrogels. Biomaterials, 2013, 34, 7097-7105.	11.4	124
42	Mechanical characteristics of swollen gellan gum hydrogels. Journal of Applied Polymer Science, 2013, 130, 3374-3383.	2.6	39
43	Poly(vinyl alcohol)-heparin biosynthetic microspheres produced by microfluidics and ultraviolet photopolymerisation. Biomicrofluidics, 2013, 7, 44109.	2.4	23
44	Living electrodes: Tissue engineering the neural interface. , 2013, 2013, 6957-60.		25
45	Challenges of therapeutic delivery using conducting polymers. Therapeutic Delivery, 2012, 3, 421-427.	2.2	11
46	Degradable, click poly(vinyl alcohol) hydrogels: characterization of degradation and cellular compatibility. Biomedical Materials (Bristol), 2012, 7, 024106.	3.3	40
47	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
48	Polyurethane Organosilicate Nanocomposites as Blood Compatible Coatings. Coatings, 2012, 2, 45-63.	2.6	3
49	Conductive Hydrogels: Mechanically Robust Hybrids for Use as Biomaterials. Macromolecular Bioscience, 2012, 12, 494-501.	4.1	168
50	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
51	Silk fibroin/poly(vinyl alcohol) photocrosslinked hydrogels for delivery of macromolecular drugs. Acta Biomaterialia, 2012, 8, 1720-1729.	8.3	123
52	In vivo biostability of polyurethaneâ€“organosilicate nanocomposites. Acta Biomaterialia, 2012, 8, 2243-2253.	8.3	20
53	Substrate dependent stability of conducting polymer coatings on medical electrodes. Biomaterials, 2012, 33, 5875-5886.	11.4	175
54	The Influence of Silkworm Species on Cellular Interactions with Novel PVA/Silk Sericin Hydrogels. Macromolecular Bioscience, 2012, 12, 322-332.	4.1	54

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55	Electrochemical stability of poly(ethylene dioxythiophene) electrodes. , 2011, , .		2
56	Non-degradable polymer nanocomposites for drug delivery. Expert Opinion on Drug Delivery, 2011, 8, 765-778.	5.0	14
57	Elastomeric Nanocomposites for Biomedical Applications. Advanced Structured Materials, 2011, , 255-278.	0.5	6
58	Immunoisolating semi-permeable membranes for cell encapsulation: Focus on hydrogels. Journal of Controlled Release, 2011, 154, 110-122.	9.9	90
59	Matrix Components and Scaffolds for Sustained Islet Function. Tissue Engineering - Part B: Reviews, 2011, 17, 235-247.	4.8	66
60	Bio-synthetic Encapsulation Systems for Organ Engineering: Focus on Diabetes. , 2011, , 363-381.		1
61	Cytotoxicity of implantable microelectrode arrays produced by laser micromachining. Biomaterials, 2010, 31, 886-893.	11.4	30
62	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
63	Impact of co-incorporating laminin peptide dopants and neurotrophic growth factors on conducting polymer properties. Acta Biomaterialia, 2010, 6, 63-71.	8.3	163
64	Antibacterial polyurethane nanocomposites using chlorhexidine diacetate as an organic modifier. Acta Biomaterialia, 2010, 6, 2554-2561.	8.3	54
65	Conducting polymer electrodes for visual prostheses. , 2010, 2010, 6769-72.		7
66	Conducting polymer-hydrogels for medical electrode applications. Science and Technology of Advanced Materials, 2010, 11, 014107.	6.1	221
67	Materials facilitating protein drug delivery and vascularisation. , 2010, , 179-203.		0
68	Development of bioactive conducting polymers for neural interfaces. Expert Review of Medical Devices, 2010, 7, 35-49.	2.8	64
69	The modulation of platelet and endothelial cell adhesion to vascular graft materials by perlecan. Biomaterials, 2009, 30, 4898-4906.	11.4	58
70	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
71	Cell attachment functionality of bioactive conducting polymers for neural interfaces. Biomaterials, 2009, 30, 3637-3644.	11.4	238
72	Bioactive conducting polymers for neural interfaces application to vision prosthesis. , 2009, , .		8

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73	Controlling cell-material interactions with polymer nanocomposites by use of surface modifying additives. Applied Surface Science, 2008, 255, 519-522.	6.1	13
74	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
75	In vitro fibroblast response to polyurethane organosilicate nanocomposites. Journal of Biomedical Materials Research - Part A, 2008, 86A, 571-582.	4.0	30
76	Biostability and biological performance of a PDMS-based polyurethane for controlled drug release. Biomaterials, 2008, 29, 2987-2995.	11.4	104
77	Conducting polymers for neural interfaces: Challenges in developing an effective long-term implant. Biomaterials, 2008, 29, 3393-3399.	11.4	677
78	Structural and functional characterisation of poly(vinyl alcohol) and heparin hydrogels. Biomaterials, 2008, 29, 4658-4664.	11.4	112
79	Synthesis and Characterization of Radiopaque Iodine-containing Degradable PVA Hydrogels. Biomacromolecules, 2008, 9, 263-268.	5.4	46
80	Characterisation of Redox Initiators for Producing Poly(Vinyl Alcohol) Hydrogels. Macromolecular Symposia, 2008, 266, 59-62.	0.7	6
81	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
82	Porous Orbital Implants in Enucleation: A Systematic Review. Survey of Ophthalmology, 2007, 52, 145-155.	4.0	102
83	Novel Neural Interface for Vision Prosthesis Electrodes: Improving Electrical and Mechanical Properties through Layering. , 2007, , .		8
84	Effect of Poly(vinyl alcohol) Macromer Chemistry and Chain Interactions on Hydrogel Mechanical Properties. Chemistry of Materials, 2007, 19, 2641-2648.	6.7	47
85	The effect of redox polymerisation on degradation and cell responses to poly (vinyl alcohol) hydrogels. Biomaterials, 2007, 28, 947-955.	11.4	49
86	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
87	The effect of sterilisation on a poly(dimethylsiloxane)/poly(hexamethylene oxide) mixed macrodiol-based polyurethane elastomer. Biomaterials, 2006, 27, 4484-4497.	11.4	85
88	Chitosan adhesive for laser tissue repair: In vitro characterization. Lasers in Surgery and Medicine, 2005, 36, 193-201.	2.1	59
89	Electrically conductive polyurethanes for biomedical applications. , 2005, 5651, 329.		6
90	Albumin-genipin solder for laser tissue repair. Lasers in Surgery and Medicine, 2004, 35, 140-145.	2.1	38

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91	Long-term in vivo biostability of poly(dimethylsiloxane)/poly(hexamethylene oxide) mixed macrodiol-based polyurethane elastomers. Biomaterials, 2004, 25, 4887-4900.	11.4	171
92	The control of Staphylococcus epidermidis biofilm formation and in vivo infection rates by covalently bound furanones. Biomaterials, 2004, 25, 5023-5030.	11.4	139
93	Biological performance of a novel synthetic furanone-based antimicrobial. Biomaterials, 2004, 25, 5013-5021.	11.4	41
94	Furanones as potential anti-bacterial coatings on biomaterials. Biomaterials, 2004, 25, 5003-5012.	11.4	155
95	Albumin-genipin solder for laser tissue welding. , 2004, , .		0
96	A photo-crosslinked poly(vinyl alcohol) hydrogel growth factor release vehicle for wound healing applications. AAPS PharmSci, 2003, 5, 101-111.	1.3	100
97	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
98	<title>Low-temperature solder for laser tissue welding</title>. , 2003, , .		1
99	In vitro calcification of UHMWPE/PU composite membrane. Materials Science and Engineering C, 2002, 20, 149-152.	7.3	9
100	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
101	Fluid Dynamics of a Textured Blood-Contacting Surface. Journal of Biomechanical Engineering, 2001, 123, 97-105.	1.3	3
102	New methods for the assessment of in vitro and in vivo stress cracking in biomedical polyurethanes. Biomaterials, 2001, 22, 973-978.	11.4	27
103	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
104	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
105	Acute cellular interaction with textured surfaces in blood contact. Journal of Biomedical Materials Research Part B, 2000, 52, 517-527.	3.1	15
106	Polydimethylsiloxane/polyether-mixed macrodiol-based polyurethane elastomers: biostability. Biomaterials, 2000, 21, 1021-1029.	11.4	158
107	A novel textured surface for blood-contact. Biomaterials, 1999, 20, 955-962.	11.4	31
108	Performance of small diameter synthetic vascular prostheses with confluent autologous endothelial cell linings. , 1996, 30, 221-229.		37

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109	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
110	Comparative evaluation of treated bovine pericardium as a xenograft for hernia repair. Biomaterials, 1991, 12, 801-809.	11.4	47
111	Laboratory diagnosis of peritonitis in patients treated with continuous ambulatory peritoneal dialysis. Pathology, 1986, 18, 237-239.	0.6	14
112	Advances in Retinal Neuroprosthetics. , 0, , 337-356.		14