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Template synthesis of the polypyrrole tube and its bridging in vivo sciatic nerve regeneration

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#	Paper	IF	Citations
35	Electrochemical Growth of Polypyrrole Microcontainers. <i>Macromolecules</i> , 2003 , 36, 1063-1067	5.5	210
34	Bionic ears: their development and future advances using neurotrophins and inherently conducting polymers. <i>Applied Bionics and Biomechanics</i> , 2004 , 1, 67-89	1.6	2
33	Fabrication and biocompatibility of polypyrrole implants suitable for neural prosthetics. <i>Biomaterials</i> , 2005 , 26, 3511-9	15.6	471
32	Carboxy-endcapped conductive polypyrrole: biomimetic conducting polymer for cell scaffolds and electrodes. <i>Langmuir</i> , 2006 , 22, 9816-9	4	107
31	Carboxylic acid-functionalized conductive polypyrrole as a bioactive platform for cell adhesion. <i>Biomacromolecules</i> , 2006 , 7, 1692-5	6.9	204
30	Three-Dimensional Scaffolds. 2007 , 359-373		14
29	Micropatterned Polypyrrole: A Combination of Electrical and Topographical Characteristics for the Stimulation of Cells. <i>Advanced Functional Materials</i> , 2007 , 17, 1645-1653	15.6	172
28	Nerve growth factor-immobilized polypyrrole: bioactive electrically conducting polymer for enhanced neurite extension. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 81, 135-49	5.4	238
27	Conducting polymers in biomedical engineering. <i>Progress in Polymer Science</i> , 2007 , 32, 876-921	29.6	1234
26	Approaches to neural tissue engineering using scaffolds for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2007 , 59, 325-38	18.5	285
25	Three-dimensional conductive constructs for nerve regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 91, 519-27	5.4	41
24	Towards a Biocompatible, Biodegradable Copolymer Incorporating Electroactive Oligothiophene Units. <i>Macromolecules</i> , 2009 , 42, 502-511	5.5	70
23	Physical surface and electromechanical properties of doped polypyrrole biomaterials. <i>Biomaterials</i> , 2010 , 31, 1974-83	15.6	120
22	Incorporation of collagen in poly(3,4-ethylenedioxythiophene) for a bifunctional film with high bio- and electrochemical activity. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 92, 766-72	5.4	79
21	The synthesis and characterization of a novel biodegradable and electroactive polyphosphazene for nerve regeneration. <i>Materials Science and Engineering C</i> , 2010 , 30, 160-166	8.3	84
20	The development of electrically conductive polycaprolactone fumarate-polypyrrole composite materials for nerve regeneration. <i>Biomaterials</i> , 2010 , 31, 5916-26	15.6	124
19	Novel degradable co-polymers of polypyrrole support cell proliferation and enhance neurite out-growth with electrical stimulation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 1265-82	3.5	76

18	Implantable microdevice for peripheral nerve regeneration: materials and fabrications. <i>Journal of Materials Science</i> , 2011 , 46, 4723-4740	4.3	18
17	Fabrication of high conductivity dual multi-porous poly (l-lactic acid)/polypyrrole composite micro/nanofiber film. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 913-920	3.1	21
16	Material properties and electrical stimulation regimens of polycaprolactone fumarate-polypyrrole scaffolds as potential conductive nerve conduits. <i>Acta Biomaterialia</i> , 2011 , 7, 944-53	10.8	82
15	Application of conductive polymers, scaffolds and electrical stimulation for nerve tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011 , 5, e17-35	4.4	472
14	One Step Lithography of Polypyrrole. <i>Advanced Engineering Materials</i> , 2011 , 13, 405-410	3.5	8
13	A chemically polymerized electrically conducting composite of polypyrrole nanoparticles and polyurethane for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 98, 509-16	5.4	66
12	Organic Bionics [Where are we? Where do we go now?]. 2012 , 211-220		
11	Corrosion and biocompatibility of PPy/PEG coating electrodeposited on Ti6Al7Nb alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013 , 64, 926-931	1.6	9
10	3D Scaffolds. 2014 , 475-494		4
9	Conducting polypyrrole in tissue engineering applications. <i>Frontiers of Materials Science</i> , 2014 , 8, 39-45	2.5	101
8	Remote-controlled eradication of astrogliosis in spinal cord injury via electromagnetically-induced dexamethasone release from "smart" nanowires. <i>Journal of Controlled Release</i> , 2015 , 211, 22-7	11.7	11
7	In-vitro biocompatibility and corrosion resistance of electrochemically assembled PPy/TNTA hybrid material for biomedical applications. <i>Applied Surface Science</i> , 2018 , 445, 320-334	6.7	14
6	Peripheral Nerve Conduit: Materials and Structures. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 3349-3365	5.7	54
5	Application of conducting polymers to wound care and skin tissue engineering: A review. <i>Biosensors and Bioelectronics</i> , 2019 , 135, 50-63	11.8	98
4	Conductive biomaterials as nerve conduits: Recent advances and future challenges. <i>Applied Materials Today</i> , 2020 , 20, 100784	6.6	20
3	Three-dimensional scaffolds. 2020 , 343-360		4
2	Conducting Polymers for Tissue Regeneration in Vivo [Chemistry of Materials], 2020 , 32, 4095-4115	9.6	22
1	Conducting Polymers. 1962-1971		

