

# David C Martin

## List of Publications by Citations

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218  
papers

15,013  
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62  
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233  
ext. papers

16,120  
ext. citations

6.4  
avg, IF

6.64  
L-index

#	Paper	IF	Citations
218	Conducting-Polymer Nanotubes for Controlled Drug Release. <i>Advanced Materials</i> , <b>2006</b> , 18, 405-409	24	730
217	Neuronal cell loss accompanies the brain tissue response to chronically implanted silicon microelectrode arrays. <i>Experimental Neurology</i> , <b>2005</b> , 195, 115-26	5.7	632
216	Biphasic Janus particles with nanoscale anisotropy. <i>Nature Materials</i> , <b>2005</b> , 4, 759-63	27	632
215	Processing and microstructural characterization of porous biocompatible protein polymer thin films. <i>Polymer</i> , <b>1999</b> , 40, 7397-7407	3.9	566
214	Chronic neural recordings using silicon microelectrode arrays electrochemically deposited with a poly(3,4-ethylenedioxythiophene) (PEDOT) film. <i>Journal of Neural Engineering</i> , <b>2006</b> , 3, 59-70	5	504
213	In vivo studies of polypyrrole/peptide coated neural probes. <i>Biomaterials</i> , <b>2003</b> , 24, 777-87	15.6	435
212	Electrochemical deposition and characterization of poly(3,4-ethylenedioxythiophene) on neural microelectrode arrays. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 89, 92-102	8.5	430
211	Polymerization of the conducting polymer poly(3,4-ethylenedioxythiophene) (PEDOT) around living neural cells. <i>Biomaterials</i> , <b>2007</b> , 28, 1539-52	15.6	416
210	Surface modification of neural recording electrodes with conducting polymer/biomolecule blends. <i>Journal of Biomedical Materials Research Part B</i> , <b>2001</b> , 56, 261-72		410
209	Sustained release of dexamethasone from hydrophilic matrices using PLGA nanoparticles for neural drug delivery. <i>Biomaterials</i> , <b>2006</b> , 27, 3031-7	15.6	350
208	Multifunctional Nanobiomaterials for Neural Interfaces. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 573-585	5.6	327
207	Conducting-polymer nanotubes improve electrical properties, mechanical adhesion, neural attachment, and neurite outgrowth of neural electrodes. <i>Small</i> , <b>2010</b> , 6, 421-9	11	327
206	Ordered bicontinuous double-diamond structure of star block copolymers: a new equilibrium microdomain morphology. <i>Macromolecules</i> , <b>1986</b> , 19, 2197-2202	5.5	306
205	Aligned electrospun nanofibers specify the direction of dorsal root ganglia neurite growth. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2007</b> , 83, 636-45	5.4	302
204	Electrochemical deposition and characterization of conducting polymer polypyrrole/PSS on multichannel neural probes. <i>Sensors and Actuators A: Physical</i> , <b>2001</b> , 93, 8-18	3.9	275
203	A finite-element model of the mechanical effects of implantable microelectrodes in the cerebral cortex. <i>Journal of Neural Engineering</i> , <b>2005</b> , 2, 103-13	5	270
202	Experimental and theoretical characterization of implantable neural microelectrodes modified with conducting polymer nanotubes. <i>Biomaterials</i> , <b>2008</b> , 29, 1273-83	15.6	264

201	The brain tissue response to implanted silicon microelectrode arrays is increased when the device is tethered to the skull. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2007</b> , 82, 169-78	5.4	247
200	Effect of Immobilized Nerve Growth Factor on Conductive Polymers: Electrical Properties and Cellular Response. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 79-86	15.6	229
199	Conducting polymers grown in hydrogel scaffolds coated on neural prosthetic devices. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 71, 577-85		225
198	Interfacing Conducting Polymer Nanotubes with the Central Nervous System: Chronic Neural Recording using Poly(3,4-ethylenedioxythiophene) Nanotubes. <i>Advanced Materials</i> , <b>2009</b> , 21, 3764-3770 <sup>24</sup>		217
197	In vitro and in vivo evaluation of PEDOT microelectrodes for neural stimulation and recording. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2011</b> , 19, 307-16	4.8	205
196	Conducting polymers on hydrogel-coated neural electrode provide sensitive neural recordings in auditory cortex. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 57-62	10.8	162
195	Microstructural Characterization of Bombyx mori Silk Fibers. <i>Macromolecules</i> , <b>1998</b> , 31, 8857-8864	5.5	157
194	Electrochemical polymerization of conducting polymers in living neural tissue. <i>Journal of Neural Engineering</i> , <b>2007</b> , 4, L6-L13	5	152
193	The Morphology of Poly(3,4-Ethylenedioxythiophene). <i>Polymer Reviews</i> , <b>2010</b> , 50, 340-384	14	140
192	Triphasic nanocolloids. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 6796-7	16.4	136
191	Fuzzy gold electrodes for lowering impedance and improving adhesion with electrodeposited conducting polymer films. <i>Sensors and Actuators A: Physical</i> , <b>2003</b> , 103, 384-394	3.9	135
190	Poly(3,4-ethylenedioxythiophene) as a Micro-Neural Interface Material for Electrostimulation. <i>Frontiers in Neuroengineering</i> , <b>2009</b> , 2, 7		129
189	The design of electrospun PLLA nanofiber scaffolds compatible with serum-free growth of primary motor and sensory neurons. <i>Acta Biomaterialia</i> , <b>2008</b> , 4, 863-75	10.8	128
188	Thickness-Driven Orthorhombic to Triclinic Phase Transformation in Pentacene Thin Films. <i>Advanced Materials</i> , <b>2005</b> , 17, 903-907	24	122
187	Ordered surfactant-templated poly(3,4-ethylenedioxythiophene) (PEDOT) conducting polymer on microfabricated neural probes. <i>Acta Biomaterialia</i> , <b>2005</b> , 1, 125-36	10.8	117
186	Electrochemical polymerization of poly(hydroxymethylated-3,4-ethylenedioxythiophene) (PEDOT-MeOH) on multichannel neural probes. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 99, 437-443	8.5	110
185	Layered carbon nanotube-polyelectrolyte electrodes outperform traditional neural interface materials. <i>Nano Letters</i> , <b>2009</b> , 9, 4012-8	11.5	103
184	Polymer-Induced Microstructure Variation in Zinc Oxide Crystals Precipitated from Aqueous Solution. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 2660-2666	3.4	100

183	Thermally induced solid-state phase transition of bis(triisopropylsilylethynyl) pentacene crystals. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 16397-403	3.4	98
182	Controlled solution deposition and systematic study of charge-transport anisotropy in single crystal and single-crystal textured TIPS pentacene thin films. <i>Organic Electronics</i> , <b>2009</b> , 10, 696-703	3.5	97
181	Enhanced PEDOT adhesion on solid substrates with electrografted P(EDOT-NH). <i>Science Advances</i> , <b>2017</b> , 3, e1600448	14.3	94
180	The use of a dual PEDOT and RGD-functionalized alginate hydrogel coating to provide sustained drug delivery and improved cochlear implant function. <i>Biomaterials</i> , <b>2012</b> , 33, 1982-90	15.6	94
179	Grain-boundary-limited charge transport in solution-processed 6,13 bis(tri-isopropylsilylethynyl) pentacene thin film transistors. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 114513	2.5	94
178	Morphological and dimensional control via hierarchical assembly of doped oligoaniline single crystals. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 9251-62	16.4	93
177	Poly(alkylbithiazoles): A New Class of Variable-Bandgap, Conjugated Polymer. <i>Chemistry of Materials</i> , <b>1995</b> , 7, 2232-2234	9.6	92
176	Regenerative peripheral nerve interface viability and signal transduction with an implanted electrode. <i>Plastic and Reconstructive Surgery</i> , <b>2014</b> , 133, 1380-1394	2.7	91
175	Surface characterization of porous, biocompatible protein polymer thin films. <i>Biomaterials</i> , <b>2001</b> , 22, 1289-300	15.6	90
174	Microporous conducting polymers on neural microelectrode arrays: II. Physical characterization. <i>Sensors and Actuators A: Physical</i> , <b>2004</b> , 113, 204-211	3.9	88
173	Ultrastructure of poly(p-phenylenebenzobisoxazole) fibers. <i>Macromolecules</i> , <b>1991</b> , 24, 2450-2460	5.5	88
172	The influence of side chains on the structures and properties of functionalized pentacenes. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 1961		85
171	Morphology and molecular orientation of thin-film bis(triisopropylsilylethynyl) pentacene. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 1701-1709	2.5	85
170	Low-voltage electron microscopy of polymer and organic molecular thin films. <i>Ultramicroscopy</i> , <b>2004</b> , 99, 247-56	3.1	85
169	Microporous conducting polymers on neural microelectrode arrays. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 101, 133-142	8.5	77
168	Morphology and primary crystal structure of a silk-like protein polymer synthesized by genetically engineered <i>Escherichia coli</i> bacteria. <i>Biopolymers</i> , <b>1994</b> , 34, 1049-58	2.2	77
167	Significant enhancement of PEDOT thin film adhesion to inorganic solid substrates with EDOT-acid. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 15388-94	9.5	75
166	X-ray Photoelectron Spectroscopy Study of Counterion Incorporation in Poly(3,4-ethylenedioxythiophene). <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5585-5592	3.8	75

165	Electrochemical polymerization and properties of PEDOT/S-EDOT on neural microelectrode arrays. <i>Journal of Electroanalytical Chemistry</i> , <b>2004</b> , 573, 43-48	4.1	75
164	Tailoring PEDOT properties for applications in bioelectronics. <i>Materials Science and Engineering Reports</i> , <b>2020</b> , 140, 100546	30.9	71
163	Surface modification of neural probes with conducting polymer poly(hydroxymethylated-3,4-ethylenedioxythiophene) and its biocompatibility. <i>Applied Biochemistry and Biotechnology</i> , <b>2006</b> , 128, 117-30	3.2	70
162	Structural, chemical and electrochemical characterization of poly(3,4-ethylenedioxythiophene) (PEDOT) prepared with various counter-ions and heat treatments. <i>Polymer</i> , <b>2011</b> , 52, 1302-1308	3.9	67
161	Chronic recording of regenerating VIIIth nerve axons with a sieve electrode. <i>Journal of Neurophysiology</i> , <b>2000</b> , 83, 611-5	3.2	67
160	Highly Aligned Poly(3,4-ethylene dioxythiophene) (PEDOT) Nano- and Microscale Fibers and Tubes. <i>Polymer</i> , <b>2013</b> , 54, 702-708	3.9	66
159	Molecular Orientation in Electrospun Poly(vinylidene fluoride) Fibers.. <i>ACS Macro Letters</i> , <b>2012</b> , 1, 428-436	3.16	65
158	Experimental high-resolution electron microscopy of polymers. <i>Polymer</i> , <b>1995</b> , 36, 1743-1759	3.9	65
157	Biofunctionalization of polydioxythiophene derivatives for biomedical applications. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 4952-4968	7.3	63
156	Accelerated neuritogenesis and maturation of primary spinal motor neurons in response to nanofibers. <i>Developmental Neurobiology</i> , <b>2010</b> , 70, 589-603	3.2	62
155	In situ polymerization of a conductive polymer in acellular muscle tissue constructs. <i>Tissue Engineering - Part A</i> , <b>2008</b> , 14, 423-32	3.9	62
154	Synthesis, copolymerization and peptide-modification of carboxylic acid-functionalized 3,4-ethylenedioxythiophene (EDOTacid) for neural electrode interfaces. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2013</b> , 1830, 4288-93	4	61
153	Discovery of Form Crystal Structure in Electrospun Poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyhexanoate] (PHBHx) Nanofibers: From Fiber Mats to Single Fibers. <i>Macromolecules</i> , <b>2015</b> , 48, 6197-6205	5.5	60
152	Impedance spectroscopy and nanoindentation of conducting poly(3,4-ethylenedioxythiophene) coatings on microfabricated neural prosthetic devices. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 1124-1132	3.5	56
151	Localized cell and drug delivery for auditory prostheses. <i>Hearing Research</i> , <b>2008</b> , 242, 117-31	3.9	55
150	Finite strain response, microstructural evolution and phase transformation of crystalline isotactic polypropylene. <i>Polymer</i> , <b>2005</b> , 46, 455-470	3.9	55
149	Quantitative characterization of surface deformation in polymer composites using digital image analysis. <i>Polymer Engineering and Science</i> , <b>1996</b> , 36, 298-304	2.3	55
148	X-ray Photoelectron Spectroscopy Study of Counterion Incorporation in Poly(3,4-ethylenedioxythiophene) (PEDOT) 2: Polyanion Effect, Toluenesulfonate, and Small Anions. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 14992-14997	3.8	53

147	Thermal and mechanical cracking in bis(triisopropylsilylethynyl) pentacene thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2006</b> , 44, 3631-3641	2.6	53
146	Impedance Spectroscopy of Spin-Cast and Electrochemically Deposited PEDOT:PSS Films on Microfabricated Electrodes with Various Areas. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2321-2327	4.3	52
145	Molecular design, synthesis, and characterization of conjugated polymers for interfacing electronic biomedical devices with living tissue. <i>MRS Communications</i> , <b>2015</b> , 5, 131-152	2.7	52
144	Hexagonal Packing of Oligo(m-phenylene ethynylene)s in the Solid State: Helical Nanotubules. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 6134-6135	16.4	52
143	Solution-processed polycrystalline copper tetrabenzoporphyrin thin-film transistors. <i>Synthetic Metals</i> , <b>2007</b> , 157, 190-197	3.6	51
142	Post-polymerization functionalization of poly(3,4-propylenedioxythiophene) (PProDOT) via thiol-ene "click" chemistry. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 5028-5034	7.3	50
141	Interfacing Electronic and Ionic Charge Transport in Bioelectronics. <i>ChemElectroChem</i> , <b>2016</b> , 3, 686-688	4.3	49
140	Synthesis and Characterization of Conjugated, n-Dopable, Bithiazole-Containing Polymers. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 1713-1719	9.6	48
139	Development of a Regenerative Peripheral Nerve Interface for Control of a Neuroprosthetic Limb. <i>BioMed Research International</i> , <b>2016</b> , 2016, 5726730	3	48
138	In vivo polymerization of poly(3,4-ethylenedioxythiophene) in the living rat hippocampus does not cause a significant loss of performance in a delayed alternation task. <i>Journal of Neural Engineering</i> , <b>2014</b> , 11, 026005	5	45
137	High resolution electron microscopy of ordered polymers and organic molecular crystals: Recent developments and future possibilities. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 1749-1778	2.6	44
136	Imaging of crystal morphology and molecular simulations of surface energies in pentacene thin films. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 6066-71	3.4	41
135	Molecular packing and morphology of oligo(m-phenylene ethynylene) foldamers. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 8605-10	16.4	41
134	Crystal morphology in pristine and doped films of poly(p-phenylene vinylene). <i>Journal of Materials Science</i> , <b>1990</b> , 25, 311-320	4.3	40
133	Stiffness, strength and adhesion characterization of electrochemically deposited conjugated polymer films. <i>Acta Biomaterialia</i> , <b>2016</b> , 31, 114-121	10.8	38
132	Poly[3,4-ethylene dioxythiophene (EDOT) -co- 1,3,5-tri[2-(3,4-ethylene dioxythienyl)]-benzene (EPh)] copolymers (PEDOT-co-EPh): optical, electrochemical and mechanical properties. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 5010-5020	7.3	38
131	Structural Characterization of Electrooptically Active Poly(nonylbithiazole). <i>Macromolecules</i> , <b>1999</b> , 32, 4558-4565	5.5	38
130	Direct laser interference patterning of poly(3,4-ethylene dioxythiophene)-poly(styrene sulfonate) (PEDOT-PSS) thin films. <i>Applied Surface Science</i> , <b>2009</b> , 255, 9186-9192	6.7	34

129	Mechanical properties of biocompatible protein polymer thin films. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 231-242	2.5	33
128	High-resolution microscopy of PMDA-ODA polyimide single crystals. <i>Macromolecules</i> , <b>1993</b> , 26, 6557-6565	5.5	33
127	Electrochemical fabrication of conducting polymer poly(3,4-ethylenedioxythiophene) (PEDOT) nanofibrils on microfabricated neural prosthetic devices. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2007</b> , 18, 1075-89	3.5	32
126	Defect-mediated curvature and twisting in polymer crystals. <i>Journal of Physical Organic Chemistry</i> , <b>2000</b> , 13, 816-829	2.1	32
125	Near-surface deformation under scratches in polypropylene blends Part I Microscopic characterization of deformation. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 803-815	4.3	31
124	Shear-Induced Solution Crystallization of Poly(3-hexylthiophene) (P3HT). <i>Macromolecules</i> , <b>2014</b> , 47, 3343-3349	3.0	30
123	In-Situ Synchrotron WAXD/SAXS Studies of Structural Development during PBO/PPA Solution Spinning. <i>Macromolecules</i> , <b>2002</b> , 35, 433-439	5.5	30
122	A Comparison of Structures and Optoelectronic Properties of Oxygen- and Sulfur-Containing Heterocycles: Conjugated Nonylbisoxazole and Nonylbithiazole Oligomers. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 2274-2284	9.6	30
121	Direct Imaging of the Electrochemical Deposition of Poly(3,4-ethylenedioxythiophene) by Transmission Electron Microscopy. <i>ACS Macro Letters</i> , <b>2015</b> , 4, 897-900	6.6	29
120	Self-Lubricating Nano-Ball-Bearings. <i>Advanced Materials</i> , <b>2007</b> , 19, 82-86	24	29
119	Biofunctionalization of PEDOT films with laminin-derived peptides. <i>Acta Biomaterialia</i> , <b>2016</b> , 41, 235-46	10.8	27
118	Direct Imaging of Defect Structures in Pentacene Nanocrystals. <i>Advanced Materials</i> , <b>2002</b> , 14, 54-57	24	27
117	Electrically conducting polymers for bio-interfacing electronics: From neural and cardiac interfaces to bone and artificial tissue biomaterials. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 170, 112620	11.8	26
116	Synthesis and characterization of bicontinuous cubic poly(3,4-ethylene dioxythiophene) gyroid (PEDOT GYR) gels. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 5115-23	3.6	25
115	Processing and Characterization of Thermally Cross-Linkable Poly[p-phenyleneterephthalamide-co-p-1,2-dihydrocyclobutaphenyleneterephthalamide] (PPTA-co-XTA) Copolymer Fibers. <i>Macromolecules</i> , <b>1995</b> , 28, 3301-3312	5.5	25
114	Micromechanisms of kinking in rigid-rod polymer fibres. <i>Journal of Materials Science</i> , <b>1991</b> , 26, 5171-5183	4.3	25
113	Single Electrospun PLLA and PCL Polymer Nanofibers: Increased Molecular Orientation with Decreased Fiber Diameter. <i>Polymer</i> , <b>2017</b> , 118, 143-149	3.9	24
112	Mechanical properties of polyurethane/montmorillonite nanocomposite prepared by melt mixing. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 106, 712-721	2.9	24

111	Impedance spectroscopy of protein polymer modified silicon micromachined probes. <i>Sensors and Actuators A: Physical</i> , <b>1999</b> , 72, 203-216	3.9	24
110	Nanoarchitecturing of Natural Melanin Nanospheres by Layer-by-Layer Assembly: Macroscale Anti-inflammatory Conductive Coatings with Optoelectronic Tunability. <i>Biomacromolecules</i> , <b>2017</b> , 18, 1908-1917	6.9	23
109	Impedimetric Biosensors for Detecting Vascular Endothelial Growth Factor (VEGF) Based on Poly(3,4-ethylene dioxythiophene) (PEDOT)/Gold Nanoparticle (Au NP) Composites. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 234	5	23
108	N-Methylated Poly(nonylbithiazole): A New n-Dopable, Conjugated Poly(ionomer). <i>Chemistry of Materials</i> , <b>1998</b> , 10, 13-16	9.6	23
107	Direct imaging of the diacetylene solid-state monomer-polymer phase transformation. <i>Science</i> , <b>1993</b> , 260, 1489-91	33.3	23
106	Cross-linkable copolymers of poly(p-phenyleneterephthalamide). <i>Chemistry of Materials</i> , <b>1993</b> , 5, 248-250	6	23
105	Crosslinking chemistry for high-performance polymer networks. <i>Polymer</i> , <b>1994</b> , 35, 5012-5017	3.9	23
104	Grain boundaries in extended-chain polymers: Theory and experiment. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1991</b> , 64, 903-922		23
103	Electrochemical deposition and characterization of carboxylic acid functionalized PEDOT copolymers. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 2835-2844	2.5	22
102	Poly(nonylbisoxazole): A Member of a New Class of Conjugated Polymer. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 2798-2804	9.6	22
101	Super-Helicallly Twisted Strands of Poly(m-phenylene isophthalamide) (MPDI). <i>Macromolecules</i> , <b>2001</b> , 34, 9053-9058	5.5	21
100	Physical and chemical evolution of PMDA-ODA during thermal imidization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1995</b> , 33, 559-569	2.6	21
99	Poly(5,6-dimethoxyindole-2-carboxylic acid) (PDMICA): A Melanin-Like Polymer with Unique Electrochromic and Structural Properties. <i>Macromolecules</i> , <b>2010</b> , 43, 3770-3774	5.5	20
98	In vivo electrical conductivity across critical nerve gaps using poly(3,4-ethylenedioxythiophene)-coated neural interfaces. <i>Plastic and Reconstructive Surgery</i> , <b>2010</b> , 126, 1865-1873	2.7	20
97	Dislocation mediated lattice bending in 1,6-di (N-carbazolyl)-2,4 hexadiyne (DCHD) polydiacetylene droplets. <i>Journal of Materials Research</i> , <b>1992</b> , 7, 3150-3158	2.5	20
96	Direct fabrication of periodic patterns with hierarchical sub-wavelength structures on poly(3,4-ethylene dioxythiophene) poly(styrene sulfonate) thin films using femtosecond laser interference patterning. <i>Applied Surface Science</i> , <b>2010</b> , 256, 1708-1713	6.7	19
95	Controlled local organization of lyotropic liquid crystalline polymer thin films with electric fields. <i>Polymer</i> , <b>2002</b> , 43, 4421-4436	3.9	18
94	Molecular stress and strain in an oriented extended-chain polymer of finite molecular length. <i>Macromolecules</i> , <b>1995</b> , 28, 6161-6174	5.5	18



93	In vivo polymerization of poly(3,4-ethylenedioxythiophene) (PEDOT) in rodent cerebral cortex. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 5412-5</i>	0.9	17
92	Dissolution of poorly crystalline apatite crystals by osteoclasts determined on artificial thin-film apatite. <i>Journal of Biomedical Materials Research Part B, 2001, 56, 250-6</i>		17
91	In situ electrochemical polymerization of poly(3,4-ethylenedioxythiophene) (PEDOT) for peripheral nerve interfaces. <i>MRS Communications, 2018, 8, 1043-1049</i>	2.7	16
90	In-vivo Evaluation of Chronically Implanted Neural Microelectrode Arrays Modified with Poly (3,4-ethylenedioxythiophene) Nanotubes <b>2007,</b>		16
89	Quantitative measurement of adhesion between polypropylene blends and paints by tensile mechanical testing. <i>Polymer Engineering and Science, 2001, 41, 440-448</i>	2.3	16
88	Functional Conducting Polymers via Thiol-ene Chemistry. <i>Biosensors, 2012, 2, 305-17</i>	5.9	15
87	Novel organotypic cultures of human skin explants with an implant-tissue biomaterial interface. <i>Annals of Biomedical Engineering, 2009, 37, 401-9</i>	4.7	15
86	Femtosecond pulsed laser patterning of poly(3,4-ethylene dioxythiophene)-poly(styrenesulfonate) thin films on gold/palladium substrates. <i>Journal of Applied Physics, 2007, 102, 013107</i>	2.5	15
85	Microstructural studies of interfacial deformation in painted thermoplastic polyolefins (TPOs). <i>Journal of Materials Science, 2002, 37, 4783-4791</i>	4.3	15
84	Thermally crosslinkable thermoplastic PET-co-XTA copolyesters. <i>Polymer, 1999, 40, 53-64</i>	3.9	15
83	Influence of structural variations on high-resolution electron microscopy images of poly[1,6-di(N-carbazolyl)2,4-hexadiyne] nanocrystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 1651-1673</i>		14
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