

Toribio Fernández Otero

List of Publications by Year in descending order

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297
papers

9,635
citations

30070

54
h-index

58581

82
g-index

302
all docs

302
docs citations

302
times ranked

5188
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring Brain Information Storage/Reading for Neuronal Connectivity Using Macromolecular Electrochemical Sensing Motors. <i>Advanced Intelligent Systems</i> , 2022, 4, 2100058.	6.1	2
2	Artificial muscle like behavior of polypyrrole polyethylene oxide independent of applied potential ranges. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	6
3	Electroactive macromolecular motors as model materials of ectotherm muscles. <i>RSC Advances</i> , 2021, 11, 21489-21506.	3.6	8
4	Towards artificial proprioception from artificial muscles constituted by self-sensing multi-step electrochemical macromolecular motors. <i>Electrochimica Acta</i> , 2021, 368, 137576.	5.2	20
5	Improving the onset potential and Tafel slope determination of earth-abundant water oxidation electrocatalysts. <i>Electrochimica Acta</i> , 2021, 388, 138613.	5.2	30
6	Enhancing the electrocatalytic activity and stability of Prussian blue analogues by increasing their electroactive sites through the introduction of Au nanoparticles. <i>Nanoscale</i> , 2021, 13, 12676-12686.	5.6	6
7	Multifunctionality of Polypyrrole Polyethyleneoxide Composites: Concurrent Sensing, Actuation and Energy Storage. <i>Polymers</i> , 2020, 12, 2060.	4.5	8
8	Concept of an artificial muscle design on polypyrrole nanofiber scaffolds. <i>PLoS ONE</i> , 2020, 15, e0232851.	2.5	19
9	Role of polyethylene oxide content in polypyrrole linear actuators. <i>Materials Today Communications</i> , 2020, 23, 100908.	1.9	11
10	Concept of an artificial muscle design on polypyrrole nanofiber scaffolds. , 2020, 15, e0232851.		0
11	Concept of an artificial muscle design on polypyrrole nanofiber scaffolds. , 2020, 15, e0232851.		0
12	Concept of an artificial muscle design on polypyrrole nanofiber scaffolds. , 2020, 15, e0232851.		0
13	Concept of an artificial muscle design on polypyrrole nanofiber scaffolds. , 2020, 15, e0232851.		0
14	The response of polypyrroleâ€DBS electrochemical molecular motors to Na concentration: Analogies in cell biology. <i>Electrochemistry Communications</i> , 2019, 103, 114-119.	4.7	6
15	Solvent effects on carbide-derived-carbon trilayer bending actuators. <i>Synthetic Metals</i> , 2019, 247, 170-176.	3.9	4
16	Three electrochemical tools (motor-sensor-battery) with energy recovery work simultaneously in a trilayer artificial muscle. <i>Electrochimica Acta</i> , 2019, 294, 126-133.	5.2	10
17	Structural and Conformational Chemistry from Electrochemical Molecular Machines. Replicating Biological Functions. A Review. <i>Chemical Record</i> , 2018, 18, 788-806.	5.8	11
18	Chemical sensors from the cooperative actuation of multistep electrochemical molecular machines of polypyrrole: potentiostatic study. Trying to replicate muscleâ€™s fatigue signals. <i>Smart Materials and Structures</i> , 2018, 27, 074001.	3.5	9

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19	The cooperative actuation of polypyrrole electrochemical machines senses the chemical conditions as muscles sense their fatigue state. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 493-501.	7.8	14
20	The Energy Consumed by Electrochemical Molecular Machines as Self-Sensing Sensor of the Reaction Conditions: Origin of Sensing Nervous Pulses and Asymmetry in Biological Functions. <i>ChemElectroChem</i> , 2018, 5, 3335-3347.	3.4	9
21	A COTS-Based Portable System to Conduct Accurate Substance Concentration Measurements. <i>Sensors</i> , 2018, 18, 539.	3.8	12
22	Progress in electromechanically active polymers: selected papers from EuroEAP 2017. <i>Smart Materials and Structures</i> , 2018, 27, 070201.	3.5	0
23	Mechanical and actuating properties of Ppy/DBS dependency with the synthesis parameters. , 2018, , .		0
24	Front Matter: Volume 10594. , 2018, , .		0
25	Interpenetrated triple polymeric layer as electrochemomechanical actuator: Solvent influence and diffusion coefficient of counterions. <i>Electrochimica Acta</i> , 2017, 230, 461-469.	5.2	22
26	Self-Supported Polypyrrole/Polyvinylsulfate Films: Electrochemical Synthesis, Characterization, and Sensing Properties of Their Redox Reactions. <i>ChemistryOpen</i> , 2017, 6, 25-32.	1.9	6
27	Dual sensing-actuation artificial muscle based on polypyrrole-carbon nanotube composite. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
28	Properties of polypyrrole polyvinylsulfate films for dual actuator sensing systems. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
29	Electrospun silk fibroin scaffolds coated with reduced graphene promote neurite outgrowth of PC-12 cells under electrical stimulation. <i>Materials Science and Engineering C</i> , 2017, 79, 315-325.	7.3	71
30	Biomimetic reactions in conducting polymers for artificial muscles: sensing working conditions. <i>Proceedings of SPIE</i> , 2017, , .	0.8	3
31	Polypyrrole-amphiphile blend electrodes: new reaction-driven structural processes with possible formation of vesicles. <i>Electrochimica Acta</i> , 2017, 246, 89-96.	5.2	10
32	Reprint of: Oxidation kinetics of polypyrrole films: Solvent influence. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 25-33.	3.8	2
33	Electrochemical Synthesis and Characterization of Flavin Mononucleotide-Exfoliated Pristine Graphene/Polypyrrole Composites. <i>ChemElectroChem</i> , 2017, 4, 1487-1497.	3.4	11
34	Reactions driving conformational movements (molecular motors) in gels: conformational and structural chemical kinetics. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1718-1730.	2.8	21
35	A Potentiostatic/Galvanostatic Study and Theoretical Description of Polypyrrole Film Electrodes: A Model of the Intracellular Matrix of Ectothermic Muscle Cells. <i>ChemElectroChem</i> , 2017, 4, 3091-3099.	3.4	13
36	The cooperative actuation of multistep electrochemical molecular machines senses the working temperature: voltammetric study. <i>Electrochimica Acta</i> , 2017, 257, 403-411.	5.2	13

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37	Bending Monolayer Artificial Muscle. <i>ChemElectroChem</i> , 2017, 4, 3276-3282.	3.4	8
38	Chemical sensors from the cooperative actuation of multistep electrochemical molecular machines of polypyrrole: Voltammetric study. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 958-966.	7.8	29
39	The cooperative actuation of multistep electrochemical molecular machines in polypyrrole films senses the imposed energetic conditions: Influence of the potential scan rate. <i>Electrochimica Acta</i> , 2017, 258, 1293-1303.	5.2	11
40	Metal-functionalized covalent organic frameworks as precursors of supercapacitive porous N-doped graphene. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4343-4351.	10.3	91
41	Artificial muscles driven by the cooperative actuation of electrochemical molecular machines. Persistent discrepancies and challenges. <i>International Journal of Smart and Nano Materials</i> , 2017, 8, 125-143.	4.2	6
42	Self-Supported Polypyrrole/Polyvinylsulfate Films: Electrochemical Synthesis, Characterization, and Sensing Properties of Their Redox Reactions. <i>ChemistryOpen</i> , 2017, 6, 2-2.	1.9	1
43	Self-Supported Polypyrrole/Polyvinylsulfate Films: Electrochemical Synthesis, Characterization, and Sensing Properties of Their Redox Reactions. <i>ChemistryOpen</i> , 2017, , .	1.9	0
44	Self-Supported Polypyrrole/Polyvinylsulfate Films: Electrochemical Synthesis, Characterization, and Sensing Properties of Their Redox Reactions. <i>ChemistryOpen</i> , 2017, , .	1.9	0
45	Faradaic and Capacitive Components of the CNT Electrochemical Responses. <i>Frontiers in Materials</i> , 2016, 3, .	2.4	17
46	Conducting Polymers as EAPs: Fundamentals and Materials. , 2016, , 1-19.		1
47	Asymmetric Bilayer Muscles. Cooperative and Antagonist Actuation. <i>Electrochimica Acta</i> , 2016, 195, 9-18.	5.2	30
48	Polymeric actuators: Solvents tune reaction-driven cation to reaction-driven anion actuation. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 328-336.	7.8	46
49	Graphene adsorbed on silk-fibroin meshes: Biomimetic and reversible conformational movements driven by reactions. <i>Electrochimica Acta</i> , 2016, 209, 521-528.	5.2	16
50	Oxidation kinetics of polypyrrole films: Solvent influence. <i>Journal of Electroanalytical Chemistry</i> , 2016, 777, 108-116.	3.8	7
51	Conducting Polymers as EAPs: Fundamentals and Materials. , 2016, , 237-255.		2
52	Coulometric and Dynamometric Responses from Conducting Polymers and Bilayer Muscles as Tools to Identify Reaction-driven Structural Changes. A review. <i>Electrochimica Acta</i> , 2016, 212, 440-457.	5.2	49
53	Electrochemical synthesis and characterization of self-supported polypyrrole-DBS-MWCNT electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2016, 782, 182-191.	3.8	5
54	Asymmetric Bilayer Muscles: Cooperative Actuation, Dynamic Hysteresis, and Creeping in NaPF ₆ Aqueous Solutions. <i>ChemistryOpen</i> , 2016, 5, 369-374.	1.9	3

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55	Construction and coulodynamic characterization of PPy-DBS-MWCNT/tape bilayer artificial muscles. RSC Advances, 2016, 6, 68538-68544.	3.6	16
56	Electrochemo-dynamical characterization of polypyrrole actuators coated on gold electrodes. Physical Chemistry Chemical Physics, 2016, 18, 827-836.	2.8	20
57	Fabrication of electrospun silk fibroin scaffolds coated with graphene oxide and reduced graphene for applications in biomedicine. Bioelectrochemistry, 2016, 108, 36-45.	4.6	56
58	Electro-chemo-biomimetics from conducting polymers: fundamentals, materials, properties and devices. Journal of Materials Chemistry B, 2016, 4, 2069-2085.	5.8	51
59	Polypyrrole Asymmetric Bilayer Artificial Muscle: Driven Reactions, Cooperative Actuation, and Osmotic Effects. Advanced Functional Materials, 2015, 25, 1535-1541.	14.9	55
60	Deep Reduced PEDOT Films Support Electrochemical Applications: Biomimetic Color Front. Frontiers in Bioengineering and Biotechnology, 2015, 3, 15.	4.1	8
61	Solvent and electrolyte effects in PPyDBS free standing films. , 2015, , .		1
62	Artificial Physical and Chemical Awareness (Proprioception) from Polymeric Motors. Materials Research Society Symposia Proceedings, 2015, 1717, 27.	0.1	0
63	Creeping and structural effects in Faradaic artificial muscles. Journal of Solid State Electrochemistry, 2015, 19, 2683-2689.	2.5	41
64	Polymeric Artificial Muscles are Linear Faradaic Motors. Key Engineering Materials, 2015, 644, 137-144.	0.4	0
65	Chemo-ionic-conformational memory from reactive dense gels: a way to explore new multivalent memories and brain memory. Materials Research Society Symposia Proceedings, 2015, 1729, 137-142.	0.1	1
66	Physical and chemical awareness from sensing polymeric artificial muscles. Experiments and modeling. Progress in Polymer Science, 2015, 44, 62-78.	24.7	95
67	Structural Electrochemistry from Freestanding Polypyrrole Films: Full Hydrogen Inhibition from Aqueous Solutions. Advanced Functional Materials, 2014, 24, 1265-1274.	14.9	49
68	Mechanical awareness from sensing artificial muscles: Experiments and modeling. Sensors and Actuators B: Chemical, 2014, 195, 365-372.	7.8	43
69	Fibroin/Polyaniline microfibrinous mat. Preparation and electrochemical characterization as reactive sensor. Electrochimica Acta, 2014, 123, 501-510.	5.2	36
70	Ionic exchanges, structural movements and driven reactions in conducting polymers from bending artificial muscles. Sensors and Actuators B: Chemical, 2014, 199, 27-30.	7.8	55
71	Polypyrrole-para-phenolsulfonic acid/tape artificial muscle as a tool to clarify biomimetic driven reactions and ionic exchanges. Journal of Materials Chemistry B, 2014, 2, 1954-1965.	5.8	30
72	Structural electrochemistry. Chronopotentiometric responses from rising compacted polypyrrole electrodes: experiments and model. RSC Advances, 2014, 4, 29139-29145.	3.6	17

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73	Exchanged Cations and Water during Reactions in Polypyrrole Macroions from Artificial Muscles. <i>ChemPhysChem</i> , 2014, 15, 293-301.	2.1	59
74	Effect of the Electrolyte Concentration and Substrate on Conducting Polymer Actuators. <i>Langmuir</i> , 2014, 30, 3894-3904.	3.5	96
75	Polyurethane microfibrinous mat templated polypyrrole: Preparation and biomimetic reactive sensing capabilities. <i>Journal of Electroanalytical Chemistry</i> , 2014, 719, 47-53.	3.8	29
76	A chemical and electrochemical multivalent memory made from FeNi ₃ -graphene nanocomposites. <i>Electrochemistry Communications</i> , 2014, 39, 15-18.	4.7	14
77	Structural Electrochemistry: Conductivities and Ionic Content from Rising Reduced Polypyrrole Films. <i>Advanced Functional Materials</i> , 2014, 24, 1259-1264.	14.9	62
78	Biomimetic Structural Electrochemistry from Conducting Polymers: Processes, Charges, and Energies. Coulovolammetric Results from Films on Metals Revisited. <i>Advanced Functional Materials</i> , 2013, 23, 3929-3940.	14.9	91
79	Biomimetic Conducting Polymers: Synthesis, Materials, Properties, Functions, and Devices. <i>Polymer Reviews</i> , 2013, 53, 311-351.	10.9	119
80	Biomimetic intracellular matrix (ICM) materials, properties and functions. Full integration of actuators and sensors. <i>Journal of Materials Chemistry B</i> , 2013, 1, 26-38.	5.8	77
81	Electrochemistry of electromechanical actuators based on carbon nanotubes and ionic liquids. , 2013, , .		2
82	Reactions drive conformations. Biomimetic properties and devices, theoretical description. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3754.	5.8	35
83	Structural and Biomimetic Chemical Kinetics: Kinetic Magnitudes Include Structural Information. <i>Advanced Functional Materials</i> , 2013, 23, 404-416.	14.9	63
84	Reactive actuators and sensors integrated in one device: mimicking brain-muscles feedback communication. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
85	Conducting polymers are simultaneous sensing actuators. <i>Proceedings of SPIE</i> , 2013, , .	0.8	7
86	Using reactive artificial muscles to determine water exchange during reactions. <i>Smart Materials and Structures</i> , 2013, 22, 104019.	3.5	28
87	Magnetic Nanocomposites Formed by FeNi ₃ Nanoparticles Embedded in Graphene. Application as Supercapacitors. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 853-863.	2.3	53
88	One Actuator and Several Sensors in One Device with only Two Connecting Wires: Mimicking Muscle/Brain Feedback. <i>Advances in Science and Technology</i> , 2012, 79, 16-25.	0.2	4
89	Electrochemical Kinetics in Dense, Reactive and Wet Gels. Biomimicking Reactions and Devices. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 555, 295-305.	0.9	2
90	Biomimetic electrochemistry from conducting polymers. A review. <i>Electrochimica Acta</i> , 2012, 84, 112-128.	5.2	269

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91	Biomimetic Dual Sensing-Actuators Based on Conducting Polymers. Galvanostatic Theoretical Model for Actuators Sensing Temperature. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5279-5290.	2.6	75
92	Biomimetic Dual Sensing-Actuators: Theoretical Description. Sensing Electrolyte Concentration and Driving Current. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9223-9230.	2.6	60
93	Artificial Muscles: A Tool To Quantify Exchanged Solvent during Biomimetic Reactions. <i>Chemistry of Materials</i> , 2012, 24, 4093-4099.	6.7	66
94	Graphene electrochemical responses sense surroundings. <i>Electrochimica Acta</i> , 2012, 81, 49-57.	5.2	25
95	Synthesis, electropolymerization and characterization of a cross-linked PEDOT derivative. <i>Journal of Materials Chemistry</i> , 2012, 22, 4944.	6.7	20
96	Electroconductive double network hydrogels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 790-796.	2.1	35
97	Electrochemistry of Carbon Nanotubes: Reactive Processes, Dual Sensing-Actuating Properties and Devices. <i>ChemPhysChem</i> , 2012, 13, 2108-2114.	2.1	27
98	Capacitive and faradic charge components in high-speed carbon nanotube actuator. <i>Electrochimica Acta</i> , 2012, 60, 177-183.	5.2	42
99	Fabrication of conductive electrospun silk fibroin scaffolds by coating with polypyrrole for biomedical applications. <i>Bioelectrochemistry</i> , 2012, 85, 36-43.	4.6	146
100	Simultaneous sensing characteristics of a biomimetic polypyrrole based triple layer actuator exchanging cations. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
101	Electropolymerization of naphthaleneamidinemonoimide-modified poly(thiophene). <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16513.	2.8	14
102	Biomimetic polypyrrole based all three-in-one triple layer sensing actuators exchanging cations. <i>Journal of Materials Chemistry</i> , 2011, 21, 17265.	6.7	74
103	Sensing characteristics of a conducting polymer/hydrogel hybrid microfiber artificial muscle. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1180-1190.	7.8	132
104	Electropolymerization and characterization of COOH-functionalized poly(3,4-ethylenedioxythiophene): Ionic exchanges. <i>Electrochimica Acta</i> , 2011, 56, 10238-10245.	5.2	13
105	Activation energy for polypyrrole oxidation: film thickness influence. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 1169-1178.	2.5	51
106	High-Speed Carbon Nanotube Actuators Based on an Oxidation/Reduction Reaction. <i>Chemistry - A European Journal</i> , 2011, 17, 10965-10971.	3.3	45
107	Characterization of the movement of polypyrrole-dodecylbenzenesulfonate-perchlorate/tape artificial muscles. Faradaic control of reactive artificial molecular motors and muscles. <i>Electrochimica Acta</i> , 2011, 56, 3721-3726.	5.2	68
108	Self-supported semi-interpenetrating polymer networks as reactive ambient sensors. <i>Journal of Electroanalytical Chemistry</i> , 2011, 652, 37-43.	3.8	15

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109	Electrochemical characterization of PEDOTâ€PSSâ€Sorbitol electrodes. Sorbitol changes cation to anion interchange during reactions. Journal of Electroanalytical Chemistry, 2011, 657, 23-27.	3.8	26
110	Polypyrrol/chitosan hydrogel hybrid microfiber as sensing artificial muscle. Proceedings of SPIE, 2011, , .	0.8	6
111	Synthesis, electropolymerization and oxidation kinetics of an anthraquinone-functionalized poly(3,4-ethylenedioxythiophene). Electrochimica Acta, 2010, 55, 1535-1542.	5.2	33
112	Polypyrrole freeâ€standing electrodes sense temperature or current during reaction. Polymer International, 2010, 59, 337-342.	3.1	19
113	Conformational energy from the oxidation kinetics of poly(3,4â€ethylenedioxythiophene) films. Polymer International, 2010, 59, 329-336.	3.1	24
114	Conducting polymers as simultaneous sensor-actuators. Proceedings of SPIE, 2010, , .	0.8	2
115	Sensing and Tactile Artificial Muscles from Reactive Materials. Sensors, 2010, 10, 2638-2674.	3.8	89
116	Reactive polymer films. Synthetic Metals, 2010, 160, 425-431.	3.9	18
117	Reduction and Oxidation Doping Kinetics of an Electropolymerized Donorâ€Acceptor Low-Bandgap Conjugated Copolymer. Journal of Physical Chemistry B, 2010, 114, 12777-12784.	2.6	28
118	Conducting polymers as simultaneous sensor-actuators. SPIE Newsroom, 2010, , .	0.1	0
119	Chronoamperometric Study of Conformational Relaxation in PPy(DBS). Journal of Physical Chemistry B, 2009, 113, 1277-1293.	2.6	56
120	Polypyrrole oxidation: Kinetic coefficients, activation energy and conformational energy. Synthetic Metals, 2009, 159, 681-688.	3.9	40
121	Soft, wet, and reactive polymers. Sensing artificial muscles and conformational energy. Journal of Materials Chemistry, 2009, 19, 681-689.	6.7	87
122	Photopatterned electrochromic conjugated polymer films via precursor approach. Polymer, 2008, 49, 3686-3692.	3.8	24
123	Potentiostatic oxidation of poly(3-methylthiophene): Influence of the prepolarization time at cathodic potentials on the kinetics. Journal of Electroanalytical Chemistry, 2008, 618, 39-44.	3.8	27
124	Contrast limitations of dual electrochromic systems. Electrochemistry Communications, 2008, 10, 1-6.	4.7	44
125	Polythiophene oxidation: Rate coefficients, activation energy and conformational energies. Electrochimica Acta, 2008, 53, 3166-3174.	5.2	38
126	Electrons create a reaction. Nature Materials, 2008, 7, 429-430.	27.5	14

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127	Use of polymer/ionic liquid plasticizers as gel electrolytes in electrochromic devices. Journal of Physics: Conference Series, 2008, 127, 012011.	0.4	11
128	Reactive conducting polymers as actuating sensors and tactile muscles. Bioinspiration and Biomimetics, 2008, 3, 035004.	2.9	21
129	Poly (3, 4-ethylenedioxythiophene) (PEDOT) oxidation: activation energy and conformational energy. Journal of Physics: Conference Series, 2008, 127, 012016.	0.4	9
130	Electrochromic conducting polymers: optical contrast characterization of chameleonic materials. Bioinspiration and Biomimetics, 2008, 3, 035006.	2.9	4
131	Photopatterned conjugated polymer electrochromic nanofibers on paper. Journal of Physics: Conference Series, 2008, 127, 012014.	0.4	5
132	Electro-Chemo-Mechanical Actuators Touching and Sensing Both, Physical and Chemical Ambient. Advances in Science and Technology, 2008, 61, 112-121.	0.2	5
133	Electro-chemo-mechanical response of a free-standing polypyrrole strip. Journal of Physics: Conference Series, 2008, 127, 012005.	0.4	1
134	Biomimetics, Artificial Muscles & Nano-Bio 2007: Scientists Meet Doctors. Journal of Physics: Conference Series, 2008, 127, 011001.	0.4	3
135	Attempting a classification for electrical polymeric actuators. , 2007, , .		3
136	High contrast solid-state electrochromic devices from substituted 3,4-propylenedioxythiophenes using the dual conjugated polymer approach. Synthetic Metals, 2007, 157, 261-268.	3.9	38
137	Optimization, preparation, and electrical short evaluation for 30cm ² active area dual conjugated polymer electrochromic windows. Organic Electronics, 2007, 8, 367-381.	2.6	48
138	Maximum contrast from an electrochromic material. Electrochemistry Communications, 2007, 9, 1931-1935.	4.7	43
139	Structural reorganization of the PPy/DBS films caused by the reduction branch of potentiodynamic polymerization. Electrochimica Acta, 2007, 52, 3621-3629.	5.2	12
140	Nitrate and chloride transport through a smart membrane. Journal of Membrane Science, 2007, 290, 241-249.	8.2	44
141	Electrochemical study of dual conjugated polymer electrochromic devices. Journal of Electroanalytical Chemistry, 2007, 609, 75-84.	3.8	30
142	Poly(3-methylthiophene) oxidation under chemical control. Rate coefficients change with prepolarization potentials of reduction. Journal of Electroanalytical Chemistry, 2007, 610, 96-101.	3.8	33
143	Electrochromic films of a methylcarbazole derivative: optimization of polymerization and optical contrast. Journal of Solid State Electrochemistry, 2007, 11, 1697-1703.	2.5	8
144	Linear movements from two bending triple-layers. Electrochimica Acta, 2007, 53, 1252-1258.	5.2	45

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145	Mechanical characterization of free-standing polypyrrole film. <i>Materials Science and Engineering C</i> , 2007, 27, 18-22.	7.3	42
146	Chapter 6. Artificial Muscles, Sensing and Multifunctionality. , 2007, , 142-190.		0
147	Model of an Asymmetric DPPC/DPPS Membrane: Effect of Asymmetry on the Lipid Properties. A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2358-2363.	2.6	51
148	Effect of the Doping Ion on the Electrical Response of a Free-Standing Polypyrrole Strip Subjected to Different Preloads: Perspectives and Limitations Associated with the Use of These Devices as Actuators. <i>Macromolecules</i> , 2006, 39, 9551-9556.	4.8	13
149	Phase Transition of a DPPC Bilayer Induced by an External Surface Pressure: From Bilayer to Monolayer Behavior. A Molecular Dynamics Simulation Study. <i>Langmuir</i> , 2006, 22, 5818-5824.	3.5	21
150	Characterization of polypyrrole degradation by the conformational relaxation model. <i>Electrochimica Acta</i> , 2006, 51, 6238-6242.	5.2	25
151	Polypyrrole artificial muscles: a new rhombic element. Construction and electrochemomechanical characterization. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 205-214.	2.9	64
152	<title>Chemical and mechanical sensing in electrochemical actuators</title>. , 2005, 5836, 477.		0
153	Understanding the structural changes that take place in a polypyrrole film during its oxi-reduction process: a molecular dynamics simulation study. , 2005, 5838, 258.		0
154	Multifunctional and biomimicking electrochemical properties of conducting polymers. , 2005, , .		0
155	Ionic diffusion across oxidized polypyrrole membranes and during oxidation of the free-standing film. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 270-271, 226-231.	4.7	49
156	Molecular Dynamics Simulations of the Orientation and Reorientational Dynamics of Water and Polypyrrole Rings as a Function of the Oxidation State of the Polymer. <i>Macromolecular Theory and Simulations</i> , 2005, 14, 40-48.	1.4	13
157	Electrochromic variable transmission optical combiner. , 2005, 5801, 268.		5
158	Mechanical characterization of the life cycle of artificial muscles through stereoscopic computer vision and active contours. , 2005, , .		4
159	Electrodeposition of Cu on deeply reduced polypyrrole electrodes at very high cathodic potentials. <i>Journal of Materials Chemistry</i> , 2005, 15, 1662.	6.7	21
160	In Situ FTIR Spectroscopy Study of the Break-In Phenomenon Observed for PPy/PVS Films in Acetonitrile. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21078-21085.	2.6	48
161	Diffusion Coefficients in Swelling Polypyrrole: ESCR and Cottrell Models. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1723-1729.	2.6	60
162	Perchlorate Interchange during the Redox Process of PPy/PVS Films in an Acetonitrile Medium. A Voltammetric and EDX Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 907-914.	2.6	36

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163	Nucleation, non-stoichiometry and sensing muscles from conducting polymers. <i>Electrochimica Acta</i> , 2004, 49, 3719-3726.	5.2	57
164	Anodic shrinking and compaction of polypyrrole blend: electrochemical reduction under conformational relaxation kinetic control. <i>Journal of Electroanalytical Chemistry</i> , 2004, 561, 167-171.	3.8	68
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