

# 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	Electrochemomechanical properties from a bilayer: polypyrrole / non-conducting and flexible material "artificial muscle. Journal of Electroanalytical Chemistry, 1992, 341, 369-375.	3.8	286
2	Biomimetic electrochemistry from conducting polymers. A review. Electrochimica Acta, 2012, 84, 112-128.	5.2	269
3	Artificial Muscles with Tactile Sensitivity. Advanced Materials, 2003, 15, 279-282.	21.0	251
4	Reinterpretation of Polypyrrole Electrochemistry after Consideration of Conformational Relaxation Processes. Journal of Physical Chemistry B, 1997, 101, 3688-3697.	2.6	200
5	Soft and Wet Conducting Polymers for Artificial Muscles. Advanced Materials, 1998, 10, 491-494.	21.0	187
6	Artificial muscles from bilayer structures. Synthetic Metals, 1993, 57, 3713-3717.	3.9	180
7	Bilayer dimensions and movement in artificial muscles. Bioelectrochemistry, 1997, 42, 117-122.	1.0	175
8	A new model for electrochemical oxidation of polypyrrole under conformational relaxation control. Journal of Electroanalytical Chemistry, 1995, 394, 211-216.	3.8	158
9	Fabrication of conductive electrospun silk fibroin scaffolds by coating with polypyrrole for biomedical applications. Bioelectrochemistry, 2012, 85, 36-43.	4.6	146
10	Electrochemical control of the morphology, adherence, appearance and growth of polypyrrole films. Synthetic Metals, 1988, 26, 79-88.	3.9	132
11	Sensing characteristics of a conducting polymer/hydrogel hybrid microfiber artificial muscle. Sensors and Actuators B: Chemical, 2011, 160, 1180-1190.	7.8	132
12	Artificial muscle: movement and position control. Chemical Communications, 2004, , 284.	4.1	128
13	Artificial muscles based on conducting polymers. Bioelectrochemistry, 1995, 38, 411-414.	1.0	125
14	A sensing muscle. Sensors and Actuators B: Chemical, 2003, 96, 152-156.	7.8	124
15	A solid state artificial muscle based on polypyrrole and a solid polymeric electrolyte working in air. Chemical Communications, 1997, , 2217-2218.	4.1	122
16	Biomimetic Conducting Polymers: Synthesis, Materials, Properties, Functions, and Devices. Polymer Reviews, 2013, 53, 311-351.	10.9	119
17	Comparative Study of Conducting Polymers by the ESCR Model. Journal of Physical Chemistry B, 2003, 107, 6730-6738.	2.6	118
18	Electrochemical generation of polythiophene films on platinum electrodes. Polymer, 1988, 29, 1522-1527.	3.8	116

#	ARTICLE	IF	CITATIONS
19	Role of Conformational Relaxation on the Voltammetric Behavior of Polypyrrole. Experiments and Mathematical Model. <i>Journal of Physical Chemistry B</i> , 1997, 101, 8525-8533.	2.6	102
20	Effect of the Electrolyte Concentration and Substrate on Conducting Polymer Actuators. <i>Langmuir</i> , 2014, 30, 3894-3904.	3.5	96
21	Physical and chemical awareness from sensing polymeric artificial muscles. Experiments and modeling. <i>Progress in Polymer Science</i> , 2015, 44, 62-78.	24.7	95
22	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
23	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
24	Conformational relaxation during polypyrrole oxidation: From experiment to theory. <i>Electrochimica Acta</i> , 1996, 41, 1863-1869.	5.2	90
25	Sensing and Tactile Artificial Muscles from Reactive Materials. <i>Sensors</i> , 2010, 10, 2638-2674.	3.8	89
26	Soft, wet, and reactive polymers. Sensing artificial muscles and conformational energy. <i>Journal of Materials Chemistry</i> , 2009, 19, 681-689.	6.7	87
27	Parallel kinetic studies of the electrogeneration of conducting polymers: mixed materials, composition and properties control. <i>Electrochimica Acta</i> , 1994, 39, 245-253.	5.2	77
28	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
29	Conducting polymers as positive electrodes in rechargeable lithium-ion batteries. <i>Journal of Power Sources</i> , 1999, 81-82, 838-841.	7.8	76
30	Polypyrrole: Diffusion Coefficients and Degradation by Overoxidation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15429-15433.	2.6	76
31	Conformational movements explain logarithmic relaxation in conducting polymers. <i>Electrochimica Acta</i> , 1999, 44, 1893-1900.	5.2	75
32	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
33	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
34	Revisiting the Electrochemical and Polymeric Behavior of a Polypyrrole Free-Standing Electrode in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13954-13961.	2.6	72
35	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
36	Formation and modification of polypyrrole films on platinum electrodes by cyclic voltammetry and anodic polarization. <i>Polymer</i> , 1987, 28, 651-658.	3.8	68

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37	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
38	Characterization of the movement of polypyrrole- <i>l</i> -dodecylbenzenesulfonate- <i>l</i> -perchlorate/tape artificial muscles. Faradaic control of reactive artificial molecular motors and muscles. <i>Electrochimica Acta</i> , 2011, 56, 3721-3726.	5.2	68
39	An interpretation of the vibrational spectra of insulating and electrically conducting poly(3-methylthiophene) aided by a theoretical dynamical model. <i>Journal of Chemical Physics</i> , 1994, 100, 114-129.	3.0	66
40	Artificial Muscles: A Tool To Quantify Exchanged Solvent during Biomimetic Reactions. <i>Chemistry of Materials</i> , 2012, 24, 4093-4099.	6.7	66
41	Polypyrrole artificial muscles: a new rhombic element. Construction and electrochemomechanical characterization. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 205-214.	2.9	64
42	Structural and Biomimetic Chemical Kinetics: Kinetic Magnitudes Include Structural Information. <i>Advanced Functional Materials</i> , 2013, 23, 404-416.	14.9	63
43	Structural Electrochemistry: Conductivities and Ionic Content from Rising Reduced Polypyrrole Films. <i>Advanced Functional Materials</i> , 2014, 24, 1259-1264.	14.9	62
44	Diffusion Coefficients in Swelling Polypyrrole: ESCR and Cottrell Models. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1723-1729.	2.6	60
45	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
46	Exchanged Cations and Water during Reactions in Polypyrrole Macroions from Artificial Muscles. <i>ChemPhysChem</i> , 2014, 15, 293-301.	2.1	59
47	Intrinsic Asymmetry, Hysteresis, and Conformational Relaxation during Redox Switching in Polypyrrole: A Coulovoamperometric Study. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7535-7540.	2.6	58
48	Solvent effects on the charge storage ability in polypyrrole. <i>Electrochimica Acta</i> , 1999, 44, 2053-2059.	5.2	57
49	Nucleation, non-stoichiometry and sensing muscles from conducting polymers. <i>Electrochimica Acta</i> , 2004, 49, 3719-3726.	5.2	57
50	Kinetics of the polypyrrole electrogeneration from aqueous solution. An ex situ microgravimetric study. <i>Electrochimica Acta</i> , 1992, 37, 297-307.	5.2	56
51	Chronoamperometric Study of Conformational Relaxation in PPy(DBS). <i>Journal of Physical Chemistry B</i> , 2009, 113, 1277-1293.	2.6	56
52	Fabrication of electrospun silk fibroin scaffolds coated with graphene oxide and reduced graphene for applications in biomedicine. <i>Bioelectrochemistry</i> , 2016, 108, 36-45.	4.6	56
53	Ionic exchanges, structural movements and driven reactions in conducting polymers from bending artificial muscles. <i>Sensors and Actuators B: Chemical</i> , 2014, 199, 27-30.	7.8	55
54	Polypyrrole Asymmetric Bilayer Artificial Muscle: Driven Reactions, Cooperative Actuation, and Osmotic Effects. <i>Advanced Functional Materials</i> , 2015, 25, 1535-1541.	14.9	55

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55	Electrogeneration of polythiophene films: temperature influence and electrical properties. <i>Polymer</i> , 1990, 31, 220-222.	3.8	54
56	Comparative kinetic studies of polypyrrole electrogeneration from acetonitrile solutions. <i>Journal of Applied Electrochemistry</i> , 1992, 22, 369-375.	2.9	54
57	Molecular dynamic simulation of the hydration and diffusion of chloride ions from bulk water to polypyrrole matrix. <i>Journal of Chemical Physics</i> , 2004, 120, 1951-1957.	3.0	53
58	Magnetic Nanocomposites Formed by FeNi <sub>3</sub> Nanoparticles Embedded in Graphene. Application as Supercapacitors. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 853-863.	2.3	53
59	Oxidation-reduction of polypyrrole films. Kinetics, structural model and applications. <i>Solid State Ionics</i> , 1993, 63-65, 803-809.	2.7	51
60	UV-Visible Spectroelectrochemistry of Conducting Polymers. Energy Linked to Conformational Changes. <i>Langmuir</i> , 1999, 15, 1323-1327.	3.5	51
61	Potentiostatic Oxidation of Polyaniline under Conformational Relaxation Control: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4269-4276.	2.6	51
62	Model of an Asymmetric DPPC/DPPS Membrane: An 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
63	Activation energy for polypyrrole oxidation: film thickness influence. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 1169-1178.	2.5	51
64	Electro-chemo-biomimetics from conducting polymers: fundamentals, materials, properties and devices. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2069-2085.	5.8	51
65	Reversible electrochemical reactions in conducting polymers: A molecular approach to artificial muscles. <i>Journal of Physical Organic Chemistry</i> , 1996, 9, 381-386.	1.9	50
66	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
67	Structural Electrochemistry from Freestanding Polypyrrole Films: Full Hydrogen Inhibition from Aqueous Solutions. <i>Advanced Functional Materials</i> , 2014, 24, 1265-1274.	14.9	49
68	Coulombic 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
69	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
70	Optimization, preparation, and electrical short evaluation for 30cm <sup>2</sup> active area dual conjugated polymer electrochromic windows. <i>Organic Electronics</i> , 2007, 8, 367-381.	2.6	48
71	Hybrid Material Polypyrrole/[SiCr(H <sub>2</sub> O)W <sub>11</sub> O <sub>39</sub> ] <sub>5</sub> : An Electrogeneration, Properties, and Stability under Cycling. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7585-7591.	2.6	47
72	Nucleation and Nonstoichiometry in Electrochromic Conducting Polymers. <i>ChemPhysChem</i> , 2003, 4, 868-872.	2.1	46

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73	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
74	Linear movements from two bending triple-layers. <i>Electrochimica Acta</i> , 2007, 53, 1252-1258.	5.2	45
75	High-speed Carbon Nanotube Actuators Based on an Oxidation/Reduction Reaction. <i>Chemistry - A European Journal</i> , 2011, 17, 10965-10971.	3.3	45
76	Nitrate and chloride transport through a smart membrane. <i>Journal of Membrane Science</i> , 2007, 290, 241-249.	8.2	44
77	Contrast limitations of dual electrochromic systems. <i>Electrochemistry Communications</i> , 2008, 10, 1-6.	4.7	44
78	Maximum contrast from an electrochromic material. <i>Electrochemistry Communications</i> , 2007, 9, 1931-1935.	4.7	43
79	Mechanical awareness from sensing artificial muscles: Experiments and modeling. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 365-372.	7.8	43
80	Mechanical characterization of free-standing polypyrrole film. <i>Materials Science and Engineering C</i> , 2007, 27, 18-22.	7.3	42
81	Capacitive and faradic charge components in high-speed carbon nanotube actuator. <i>Electrochimica Acta</i> , 2012, 60, 177-183.	5.2	42
82	Creeping and structural effects in Faradaic artificial muscles. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2683-2689.	2.5	41
83	Polypyrrole oxidation: Kinetic coefficients, activation energy and conformational energy. <i>Synthetic Metals</i> , 2009, 159, 681-688.	3.9	40
84	Polythiophene electrogeneration on a rotating disk electrode. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 310, 219-237.	0.1	39
85	Characterization of the Reduced and Oxidized Polypyrrole/Water Interface: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9339-9343.	2.6	39
86	High contrast solid-state electrochromic devices from substituted 3,4-propylenedioxythiophenes using the dual conjugated polymer approach. <i>Synthetic Metals</i> , 2007, 157, 261-268.	3.9	38
87	Polythiophene oxidation: Rate coefficients, activation energy and conformational energies. <i>Electrochimica Acta</i> , 2008, 53, 3166-3174.	5.2	38
88	Role of protons on the electrochemical polymerization of pyrrole from acetonitrile solutions. <i>Journal of Electroanalytical Chemistry</i> , 1994, 379, 513-516.	3.8	37
89	Electrochemical oxidation of polypyrrole under conformational relaxation control. Electrochemical relaxation model. <i>Synthetic Metals</i> , 1996, 76, 285-288.	3.9	37
90	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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91	Fibroin/Polyaniline microfibrinous mat. Preparation and electrochemical characterization as reactive sensor. <i>Electrochimica Acta</i> , 2014, 123, 501-510.	5.2	36
92	Influence of the counterion size on the rate of electrochemical relaxation in polypyrrole. <i>Synthetic Metals</i> , 1996, 83, 205-208.	3.9	35
93	Electroconductive double network hydrogels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 790-796.	2.1	35
94	Reactions drive conformations. Biomimetic properties and devices, theoretical description. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3754.	5.8	35
95	Determination of the solubility parameter of poly(ethylene oxide) at 25°C by gas-liquid chromatography. <i>Polymer</i> , 1982, 23, 1361-1366.	3.8	34
96	Poly(3-methylthiophene) oxidation under chemical control. Rate coefficients change with prepolarization potentials of reduction. <i>Journal of Electroanalytical Chemistry</i> , 2007, 610, 96-101.	3.8	33
97	Synthesis, electropolymerization and oxidation kinetics of an anthraquinone-functionalized poly(3,4-ethylenedioxythiophene). <i>Electrochimica Acta</i> , 2010, 55, 1535-1542.	5.2	33
98	Kinetics of polypyrrole and polythiophene electrogeneration followed by microgravimetry. <i>Synthetic Metals</i> , 1991, 43, 2831-2836.	3.9	32
99	Electrogeneration of polypyrrole in presence of polyvinylsulphonate. Kinetic study. <i>Electrochimica Acta</i> , 1996, 41, 213-220.	5.2	32
100	Electropolymerization kinetics of pyrrole in aqueous solution on graphite felt electrodes. <i>Synthetic Metals</i> , 2001, 123, 487-492.	3.9	32
101	The Behavior of Polypyrrole-Coated Electrodes in Propylene Carbonate Solutions. <i>Journal of the Electrochemical Society</i> , 2002, 149, E204.	2.9	32
102	Conformational relaxation in conducting polymers: effect of polymer-solvent interactions. <i>Journal of Non-Crystalline Solids</i> , 1998, 235-237, 619-622.	3.1	31
103	Hybrid Materials Polypyrrole/PW12O403-. 2. Physical, Spectroscopic and Electrochemical Characterization. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10528-10533.	2.6	31
104	An electromechanical model for the electrochemical oxidation of conducting polymers. <i>Synthetic Metals</i> , 1996, 76, 293-295.	3.9	30
105	Influence of synthesis conditions on polypyrrole-poly(styrenesulphonate) composite electroactivity. <i>Journal of Electroanalytical Chemistry</i> , 1996, 412, 109-116.	3.8	30
106	Hybrid Materials Polypyrrole/PW12O403-. 1. Electrochemical Synthesis, Kinetics and Specific Charges. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10522-10527.	2.6	30
107	Electrochemical study of dual conjugated polymer electrochromic devices. <i>Journal of Electroanalytical Chemistry</i> , 2007, 609, 75-84.	3.8	30
108	Polypyrrole-para-phenolsulfonic acid/tape artificial muscle as a tool to clarify biomimetic driven reactions and ionic exchanges. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1954-1965.	5.8	30

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109	Asymmetric Bilayer Muscles. Cooperative and Antagonist Actuation. <i>Electrochimica Acta</i> , 2016, 195, 9-18.	5.2	30
110	Improving the onset potential and Tafel slope determination of earth-abundant water oxidation electrocatalysts. <i>Electrochimica Acta</i> , 2021, 388, 138613.	5.2	30
111	Hybrid molecular materials based on organic molecules and the inorganic magnetic cluster [M <sub>4</sub> (H <sub>2</sub> O) <sub>2</sub> (PW <sub>9</sub> O <sub>34</sub> ) <sub>2</sub> ] <sup>10-</sup> (M <sub>2</sub> + = Co, Mn). <i>Journal of Materials Chemistry</i> , 1998, 8, 309-312.	6.7	29
112	Polyurethane microfibrinous mat templated polypyrrole: Preparation and biomimetic reactive sensing capabilities. <i>Journal of Electroanalytical Chemistry</i> , 2014, 719, 47-53.	3.8	29
113	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
114	Reduction and Oxidation Doping Kinetics of an Electropolymerized Donor <sup>+</sup> Acceptor Low-Bandgap Conjugated Copolymer. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12777-12784.	2.6	28
115	Using reactive artificial muscles to determine water exchange during reactions. <i>Smart Materials and Structures</i> , 2013, 22, 104019.	3.5	28
116	Potentiostatic oxidation of poly(3-methylthiophene): Influence of the prepolarization time at cathodic potentials on the kinetics. <i>Journal of Electroanalytical Chemistry</i> , 2008, 618, 39-44.	3.8	27
117	Electrochemistry of Carbon Nanotubes: Reactive Processes, Dual Sensing <sup>+</sup> Actuating Properties and Devices. <i>ChemPhysChem</i> , 2012, 13, 2108-2114.	2.1	27
118	Electrochemical characterization of PEDOT <sup>+</sup> PSS <sup>-</sup> Sorbitol electrodes. Sorbitol changes cation to anion interchange during reactions. <i>Journal of Electroanalytical Chemistry</i> , 2011, 657, 23-27.	3.8	26
119	Functional Hybrid Materials Containing Polypyrrole and Polyoxometalate Clusters: Searching for High Conductivities and Specific Charges. <i>ChemPhysChem</i> , 2002, 3, 808-811.	2.1	25
120	Characterization of polypyrrole degradation by the conformational relaxation model. <i>Electrochimica Acta</i> , 2006, 51, 6238-6242.	5.2	25
121	Graphene electrochemical responses sense surroundings. <i>Electrochimica Acta</i> , 2012, 81, 49-57.	5.2	25
122	Polypyrrole electrogeneration at different potentials. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 312, 285-291.	0.1	24
123	Oxidized and reduced poly(2,5-di-(2-thienyl)-pyrrole): solubilities, electrodisolution and molar mass. <i>Journal of Electroanalytical Chemistry</i> , 1995, 392, 55-61.	3.8	24
124	Electrogeneration of polypyrrole-carboxymethylcellulose composites: electrochemical, microgravimetric and morphological studies. <i>Electrochimica Acta</i> , 1998, 43, 1089-1100.	5.2	24
125	Electro-assisted solvent extraction of Cu <sup>2+</sup> , Ni <sup>2+</sup> and Cd <sup>2+</sup> . <i>Electrochimica Acta</i> , 1998, 44, 29-38.	5.2	24
126	Photopatterned electrochromic conjugated polymer films via precursor approach. <i>Polymer</i> , 2008, 49, 3686-3692.	3.8	24



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127	Conformational energy from the oxidation kinetics of poly(3,4-ethylenedioxythiophene) films. <i>Polymer International</i> , 2010, 59, 329-336.	3.1	24
128	Mechanism of enhancement of the corrosion of steel by alternating currents and electrocatalytic properties of cycled steel surfaces. <i>Journal of Applied Electrochemistry</i> , 1990, 20, 26-31.	2.9	23
129	Polypyrrole electrogeneration at different potentials in acetonitrile and acetonitrile/water solutions. <i>Synthetic Metals</i> , 1993, 55, 1418-1423.	3.9	22
130	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
131	Conductivity and capacity of polythiophene films: Impedance study. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 244, 311-318.	0.1	21
132	Optimization of the electrical conductivity of polypyrrole films electrogenerated on aluminium electrodes. <i>Synthetic Metals</i> , 1996, 76, 301-303.	3.9	21
133	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
134	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
135	Reactive conducting polymers as actuating sensors and tactile muscles. <i>Bioinspiration and Biomimetics</i> , 2008, 3, 035004.	2.9	21
136	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
137	Anodic electrosynthesis and cathodic electrodisolution of poly(2,5-di-(2-thienyl)pyrrole). A new way of processibility. <i>Synthetic Metals</i> , 1993, 61, 253-258.	3.9	20
138	Synthesis, electropolymerization and characterization of a cross-linked PEDOT derivative. <i>Journal of Materials Chemistry</i> , 2012, 22, 4944.	6.7	20
139	Electrochemo-dynamical characterization of polypyrrole actuators coated on gold electrodes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 827-836.	2.8	20
140	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
141	Solid state transitions during oxidation/reduction processes in conducting polymers. Electrochemical detection and study. <i>Synthetic Metals</i> , 1991, 43, 2947-2952.	3.9	19
142	Polypyrrole free-standing electrodes sense temperature or current during reaction. <i>Polymer International</i> , 2010, 59, 337-342.	3.1	19
143	Concept of an artificial muscle design on polypyrrole nanofiber scaffolds. <i>PLoS ONE</i> , 2020, 15, e0232851.	2.5	19
144	Electrochemical oxidation of 2,5-di-(2-thienyl)-pyrrole in acetonitrile: cathodic stripping of the electrogenerated conducting polymer. <i>Journal of Electroanalytical Chemistry</i> , 1994, 370, 231-239.	3.8	18

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145	“In situ” spectroelectrochemical study of a series of $\beta$ , $\beta'$ -dimethyl end-capped oligothiophene films. <i>Synthetic Metals</i> , 1998, 95, 93-100.	3.9	18
146	Statistical Design to Optimize Specific Charges in Polypyrrole by Electrosynthesis. <i>Journal of the Electrochemical Society</i> , 1999, 146, 4118-4123.	2.9	18
147	Electrogeneration and electrochemical properties of hybrid materials: polypyrrole doped with polyoxometalates PW12 $\text{MoxO}_{403}$ ( $x=0,3,6,12$ ). <i>Synthetic Metals</i> , 2002, 129, 53-59.	3.9	18
148	Reactive polymer films. <i>Synthetic Metals</i> , 2010, 160, 425-431.	3.9	18
149	Conducting Polymers, Electrochemistry, and Biomimicking Processes. , 2002, , 307-434.		17
150	Structural electrochemistry. Chronopotentiometric responses from rising compacted polypyrrole electrodes: experiments and model. <i>RSC Advances</i> , 2014, 4, 29139-29145.	3.6	17
151	Faradaic and Capacitive Components of the CNT Electrochemical Responses. <i>Frontiers in Materials</i> , 2016, 3, .	2.4	17
152	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
153	Construction and coulodynamic characterization of PPy-DBS-MWCNT/tape bilayer artificial muscles. <i>RSC Advances</i> , 2016, 6, 68538-68544.	3.6	16
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