Jose G Martinez

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ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
68	Biomimetic electrochemistry from conducting polymers. A review. <i>Electrochimica Acta</i> , 2012 , 84, 112-1	28 .7	239
67	Fabrication of conductive electrospun silk fibroin scaffolds by coating with polypyrrole for biomedical applications. <i>Bioelectrochemistry</i> , 2012 , 85, 36-43	5.6	129
66	Sensing characteristics of a conducting polymer/hydrogel hybrid microfiber artificial muscle. <i>Sensors and Actuators B: Chemical</i> , 2011 , 160, 1180-1190	8.5	107
65	Physical and chemical awareness from sensing polymeric artificial muscles. Experiments and modeling. <i>Progress in Polymer Science</i> , 2015 , 44, 62-78	29.6	79
64	Effect of the electrolyte concentration and substrate on conducting polymer actuators. <i>Langmuir</i> , 2014 , 30, 3894-904	4	75
63	Conjugated Polymer Actuators and Devices: Progress and Opportunities. <i>Advanced Materials</i> , 2019 , 31, e1808210	24	74
62	Biomimetic Structural Electrochemistry from Conducting Polymers: Processes, Charges, and Energies. Coulovoltammetric Results from Films on Metals Revisited. <i>Advanced Functional Materials</i> , 2013 , 23, 3929-3940	15.6	72
61	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	7.3	69
60	Biomimetic dual sensing-actuators based on conducting polymers. Galvanostatic theoretical model for actuators sensing temperature. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5279-90	3.4	65
59	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	8.3	56
58	Biomimetic dual sensing-actuators: theoretical description. Sensing electrolyte concentration and driving current. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 9223-30	3.4	55
57	Artificial Muscles: A Tool To Quantify Exchanged Solvent during Biomimetic Reactions. <i>Chemistry of Materials</i> , 2012 , 24, 4093-4099	9.6	55
56	Structural and Biomimetic Chemical Kinetics: Kinetic Magnitudes Include Structural Information. <i>Advanced Functional Materials</i> , 2013 , 23, 404-416	15.6	54
55	Structural Electrochemistry: Conductivities and Ionic Content from Rising Reduced Polypyrrole Films. <i>Advanced Functional Materials</i> , 2014 , 24, 1259-1264	15.6	53
54	Fabrication of electrospun silk fibroin scaffolds coated with graphene oxide and reduced graphene for applications in biomedicine. <i>Bioelectrochemistry</i> , 2016 , 108, 36-45	5.6	49
53	Actuating Textiles: Next Generation of Smart Textiles. Advanced Materials Technologies, 2018, 3, 17003	9 7.8	49
52	Exchanged cations and water during reactions in polypyrrole macroions from artificial muscles. <i>ChemPhysChem</i> , 2014 , 15, 293-301	3.2	49

(2017-2015)

Polypyrrole Asymmetric Bilayer Artificial Muscle: Driven Reactions, Cooperative Actuation, and Osmotic Effects. <i>Advanced Functional Materials</i> , 2015 , 25, 1535-1541	15.6	48	
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	8.5	47	
Structural Electrochemistry from Freestanding Polypyrrole Films: Full Hydrogen Inhibition from Aqueous Solutions. <i>Advanced Functional Materials</i> , 2014 , 24, 1265-1274	15.6	41	
Electro-chemo-biomimetics from conducting polymers: fundamentals, materials, properties and devices. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2069-2085	7.3	4º	
Activation energy for polypyrrole oxidation: film thickness influence. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 1169-1178	2.6	39	
Mechanical awareness from sensing artificial muscles: Experiments and modeling. <i>Sensors and Actuators B: Chemical</i> , 2014 , 195, 365-372	8.5	38	
Polymeric actuators: Solvents tune reaction-driven cation to reaction-driven anion actuation. <i>Sensors and Actuators B: Chemical</i> , 2016 , 233, 328-336	8.5	37	
Creeping and structural effects in Faradaic artificial muscles. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 2683-2689	2.6	36	
Electro-conductive double-network hydrogels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 790-796	2.6	31	
Asymmetric Bilayer Muscles. Cooperative and Antagonist Actuation. <i>Electrochimica Acta</i> , 2016 , 195, 9-	1 % .7	29	
Type I Collagen-Derived Injectable Conductive Hydrogel Scaffolds as Glucose Sensors. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 16244-16249	9.5	27	
Fibroin/Polyaniline microfibrous mat. Preparation and electrochemical characterization as reactive sensor. <i>Electrochimica Acta</i> , 2014 , 123, 501-510	6.7	27	
Using reactive artificial muscles to determine water exchange during reactions. <i>Smart Materials and Structures</i> , 2013 , 22, 104019	3.4	26	
Artificial Muscles Powered by Glucose. <i>Advanced Materials</i> , 2019 , 31, e1901677	24	25	
Graphene electrochemical responses sense surroundings. <i>Electrochimica Acta</i> , 2012 , 81, 49-57	6.7	23	
Electrochemistry of carbon nanotubes: reactive processes, dual sensing-actuating properties and devices. <i>ChemPhysChem</i> , 2012 , 13, 2108-14	3.2	23	
Electrochemical characterization of PEDOT P SSBorbitol electrodes. Sorbitol changes cation to anion interchange during reactions. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 657, 23-27	4.1	23	
Interpenetrated triple polymeric layer as electrochemomechanical actuator: Solvent influence and diffusion coefficient of counterions. <i>Electrochimica Acta</i> , 2017 , 230, 461-469	6.7	20	
	Osmotic Effects. Advanced Functional Materials, 2015, 25, 1535-1541 Ionic exchanges, structural movements and driven reactions in conducting polymers from bending artificial muscles. Sensors and Actuators B: Chemical, 2014, 199, 27-30 Structural Electrochemistry from Freestanding Polypyrrole Films: Full Hydrogen Inhibition from Aqueous Solutions. Advanced Functional Materials, 2014, 24, 1265-1274 Electro-chemo-biomimetics from conducting polymers fundamentals, materials, properties and devices. Journal of Materials Chemistry B, 2016, 4, 2069-2085 Activation energy for polypyrrole oxidation: film thickness influence. Journal of Solid State Electrochemistry, 2011, 15, 1169-1178 Mechanical awareness from sensing artificial muscles: Experiments and modeling. Sensors and Actuators B: Chemical, 2014, 195, 365-372 Polymeric actuators: Solvents tune reaction-driven cation to reaction-driven anion actuation. Sensors and Actuators B: Chemical, 2016, 233, 328-336 Creeping and structural effects in Faradaic artificial muscles. Journal of Solid State Electrochemistry, 2015, 19, 2683-2689 Electro-conductive double-network hydrogels. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 790-796 Asymmetric Bilayer Muscles. Cooperative and Antagonist Actuation. Electrochimica Acta, 2016, 195, 9-1916. Sensors and Materials Ramp; Interfaces, 2018, 10, 16244-16249 Fibroin/Polyaniline microfibrous mat. Preparation and electrochemical characterization as reactive sensor. Electrochimica Acta, 2014, 123, 501-510 Using reactive artificial muscles to determine water exchange during reactions. Smart Materials and Structures, 2013, 22, 104019 Artificial Muscles Powered by Glucose. Advanced Materials, 2019, 31, e1901677 Graphene electrochemical responses sense surroundings. Electrochimica Acta, 2012, 81, 49-57 Electrochemistry of carbon nanotubes: reactive processes, dual sensing-actuating properties and devices. ChemPhysChem, 2012, 13, 2108-14 Electrochemical characterization of PEDOTPSSBorbitol electrodes. Sorbito	Ionic exchanges, structural movements and driven reactions in conducting polymers from bending artificial muscles. Sensors and Actuators B: Chemical, 2014, 199, 27-30 Structural Electrochemistry from Freestanding Polymerole Films: Full Hydrogen Inhibition from Aqueous Solutions. Advanced Functional Materials, 2014, 24, 1265-1274 Electrochemo-biomimetics from conducting polymers: fundamentals, materials, properties and devices. Journal of Materials Chemistry B, 2016, 4, 2069-2085 Activation energy for polypyrrole oxidation: film thickness influence. Journal of Solid State Electrochemistry, 2011, 15, 1169-1178 Mechanical awareness from sensing artificial muscles: Experiments and modeling. Sensors and Actuators B: Chemical, 2014, 195, 365-372 Polymeric actuators: Solvents tune reaction-driven cation to reaction-driven anion actuation. Sensors and Actuators B: Chemical, 2016, 233, 328-336 Creeping and structural effects in Faradaic artificial muscles. Journal of Solid State Electrochemistry, 2015, 19, 2683-2689 Electro-conductive double-network hydrogels. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 790-796 Asymmetric Bilayer Muscles. Cooperative and Antagonist Actuation. Electrochimica Acta, 2016, 195, 9-186-7 Type I Collagen-Derived Injectable Conductive Hydrogel Scaffolds as Glucose Sensors. ACS Applied Materials & Bamp, Interfaces, 2018, 10, 16244-16249 Fibroin/Polyaniline microfibrous mat. Preparation and electrochemical characterization as reactive sensor. Electrochimica Acta, 2014, 123, 501-510 Using reactive artificial muscles to determine water exchange during reactions. Smart Materials and Structures, 2013, 22, 104019 Artificial Muscles Powered by Glucose. Advanced Materials, 2019, 31, e1901677 41 Graphene electrochemical responses sense surroundings. Electrochimica Acta, 2012, 81, 49-57 Graphene electrochemical properties and devices. ChemPhysChem, 2012, 13, 2108-14 Electrochemical characterization of PEDOTBSSBorbitol electrodes. Sorbitol changes cation to anion intercha	Osmotic Effects. Advanced Functional Materials, 2015, 25, 1535-1541 Ionic exchanges, structural movements and driven reactions in conducting polymers from bending artificial muscles. Sensors and Actuators B: Chemical, 2014, 199, 27-30 Structural Electrochemistry from Freestanding Polypyrrole Films: Full Hydrogen Inhibition from Aqueous Solutions. Advanced Functional Materials, 2014, 24, 1265-1274 Electro-chemo-biomimetics from conducting polymers fundamentals, materials, properties and devices. Journal of Materials Chemistry B, 2016, 4, 2069-2085 Activation energy for polypyrrole oxidation: film thickness influence. Journal of Solid State Electrochemistry, 2011, 15, 1169-1178 Mechanical awareness from sensing artificial muscles: Experiments and modeling. Sensors and Actuators B: Chemical, 2014, 195, 365-372 Polymeric actuators: Solvents tune reaction-driven cation to reaction-driven anion actuation. Sensors and Actuators B: Chemical, 2016, 233, 328-336 Creeping and structural effects in Faradaic artificial muscles. Journal of Solid State Electrochemistry, 2.66 36 Electro-conductive double-network hydrogels. Journal of Polymer Science, Part B: Polymer Physics, 2.6 31 Electro-conductive double-network hydrogels. Journal of Polymer Science, Part B: Polymer Physics, 2.6 31 Type I Collagen-Derived Injectable Conductive Hydrogel Scaffolds as Glucose Sensors. ACS Applied Materials & Bamp; Interfaces, 2018, 10, 16244-16249 Fibroin/Polyaniline microfibrous mat. Preparation and electrochemical characterization as reactive artificial muscles to determine water exchange during reactions. Smart Materials and Structures, 2013, 22, 104019 Artificial Muscles Powered by Glucose. Advanced Materials, 2019, 31, e1901677 24 25 Electrochemistry of carbon nanotubes: reactive processes, dual sensing-actuating properties and electrochemical rehange during reactions. Journal of Electrochemoschanical actuators Solvent Influence and Interpenentrated triple polymeric layer as electrochemoschanical actuators. Solvent Influence

33	Polyurethane microfibrous mat templated polypyrrole: Preparation and biomimetic reactive sensing capabilities. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 719, 47-53	4.1	20
32	Electrochemo-dynamical characterization of polypyrrole actuators coated on gold electrodes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 827-36	3.6	19
31	Structural electrochemistry. Chronopotentiometric responses from rising compacted polypyrrole electrodes: experiments and model. <i>RSC Advances</i> , 2014 , 4, 29139-29145	3.7	16
30	Graphene adsorbed on silk-fibroin meshes: Biomimetic and reversible conformational movements driven by reactions. <i>Electrochimica Acta</i> , 2016 , 209, 521-528	6.7	16
29	Investigation of electrically conducting yarns for use in textile actuators. <i>Smart Materials and Structures</i> , 2018 , 27, 074004	3.4	14
28	A chemical and electrochemical multivalent memory made from FeNi3-graphene nanocomposites. <i>Electrochemistry Communications</i> , 2014 , 39, 15-18	5.1	14
27	Artificial Muscles from Hybrid Carbon Nanotube-Polypyrrole-Coated Twisted and Coiled Yarns. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 2000421	3.9	11
26	Polypyrrole-amphiphile blend electrodes: new reaction-driven structural processes with possible formation of vesicles. <i>Electrochimica Acta</i> , 2017 , 246, 89-96	6.7	8
25	Faradaic and Capacitive Components of the CNT Electrochemical Responses. <i>Frontiers in Materials</i> , 2016 , 3,	4	8
24	Deep Reduced PEDOT Films Support Electrochemical Applications: Biomimetic Color Front. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 15	5.8	7
23	Electrochemical Synthesis and Characterization of Flavin Mononucleotide-Exfoliated Pristine Graphene/Polypyrrole Composites. <i>ChemElectroChem</i> , 2017 , 4, 1487-1497	4.3	6
22	Biomimetic Sensing 「Actuators Based on Conducting Polymers 2012 ,		6
21	Conducting polymers are simultaneous sensing actuators 2013,		6
20	Soft parallel manipulator fabricated by additive manufacturing. <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127355	8.5	6
19	Three electrochemical tools (motor-sensor-battery) with energy recovery work simultaneously in a trilayer artificial muscle. <i>Electrochimica Acta</i> , 2019 , 294, 126-133	6.7	6
18	A Biomimetic Approach to Increasing Soft Actuator Performance by Friction Reduction. <i>Polymers</i> , 2020 , 12,	4.5	4
17	Polypyrrol/chitosan hydrogel hybrid microfiber as sensing artificial muscle 2011,		4
16	Biohybrid Variable Stiffness Soft Actuators that Self-Create Bone. <i>Advanced Materials</i> , 2021 , e2107345	24	4

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15	Fast and High-Strain Electrochemically Driven Yarn Actuators in Twisted and Coiled Configurations. Advanced Functional Materials, 2021, 31, 2008959	4
14	Asymmetric Bilayer Muscles: Cooperative Actuation, Dynamic Hysteresis, and Creeping in NaPF6 Aqueous Solutions. <i>ChemistryOpen</i> , 2016 , 5, 369-74	3
13	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	3
12	Soft actuator materials for textile muscles and wearable bioelectronics 2020 , 201-218	2
11	Conducting Polymers as EAPs: Fundamentals and Materials 2016 , 237-255	2
10	Electrochemical Kinetics in Dense, Reactive and Wet Gels. Biomimicking Reactions and Devices. Molecular Crystals and Liquid Crystals, 2012 , 555, 295-305	2
9	Solvent effects on carbide-derived-carbon trilayer bending actuators. Synthetic Metals, 2019, 247, 170-1366	2
8	Chemo-ionic-conformational memory from reactive dense gels: a way to explore new multivalent memories and brain memory. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1729, 137-142	1
7	Enhancing the Conductivity of the Poly(3,4-ethylenedioxythiophene)-Poly(styrenesulfonate) Coating and Its Effect on the Performance of Yarn Actuators. <i>Advanced Intelligent Systems</i> , 2020 , 2, 1900184	1
6	Conducting Polymers as EAPs: How to Start Experimenting with Them 2016 , 413-436	1
5	Conducting Polymers as EAPs: Fundamentals and Materials 2016 , 1-19	O
4	Artificial Physical and Chemical Awareness (Proprioception) from Polymeric Motors. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1717, 27	
3	Polymeric Artificial Muscles are Linear Faradaic Motors. <i>Key Engineering Materials</i> , 2015 , 644, 137-144 o.4	
2	Conducting Polymers as EAPs: How to Start Experimenting with Them 2016 , 1-25	
1	Can Human Proprioception Be Described by Physical-Chemical Equations? Proprioceptive Artificial Muscles. <i>Key Engineering Materials</i> , 2015 , 644, 145-152	