## Jose G Martinez

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

2,107 27 45 g-index

71 2,382 7.5 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
68	Biohybrid Variable Stiffness Soft Actuators that Self-Create Bone. <i>Advanced Materials</i> , <b>2021</b> , e2107345	24	4
67	Fast and High-Strain Electrochemically Driven Yarn Actuators in Twisted and Coiled Configurations. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008959	15.6	4
66	A Biomimetic Approach to Increasing Soft Actuator Performance by Friction Reduction. <i>Polymers</i> , <b>2020</b> , 12,	4.5	4
65	Soft actuator materials for textile muscles and wearable bioelectronics <b>2020</b> , 201-218		2
64	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> , <b>2020</b> , 2, 190	0184	1
63	Soft parallel manipulator fabricated by additive manufacturing. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 305, 127355	8.5	6
62	Artificial Muscles from Hybrid Carbon Nanotube-Polypyrrole-Coated Twisted and Coiled Yarns. <i>Macromolecular Materials and Engineering</i> , <b>2020</b> , 305, 2000421	3.9	11
61	Artificial Muscles Powered by Glucose. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901677	24	25
60	Conjugated Polymer Actuators and Devices: Progress and Opportunities. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808210	24	74
59	Solvent effects on carbide-derived-carbon trilayer bending actuators. Synthetic Metals, <b>2019</b> , 247, 170-7	1366	2
58	Three electrochemical tools (motor-sensor-battery) with energy recovery work simultaneously in a trilayer artificial muscle. <i>Electrochimica Acta</i> , <b>2019</b> , 294, 126-133	6.7	6
57	Type I Collagen-Derived Injectable Conductive Hydrogel Scaffolds as Glucose Sensors. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 16244-16249	9.5	27
56	Investigation of electrically conducting yarns for use in textile actuators. <i>Smart Materials and Structures</i> , <b>2018</b> , 27, 074004	3.4	14
55	Actuating Textiles: Next Generation of Smart Textiles. Advanced Materials Technologies, 2018, 3, 17003	<b>9</b> %.8	49
54	Interpenetrated triple polymeric layer as electrochemomechanical actuator: Solvent influence and diffusion coefficient of counterions. <i>Electrochimica Acta</i> , <b>2017</b> , 230, 461-469	6.7	20
53	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> , <b>2017</b> , 79, 315-325	8.3	56
52	Polypyrrole-amphiphile blend electrodes: new reaction-driven structural processes with possible formation of vesicles. <i>Electrochimica Acta</i> , <b>2017</b> , 246, 89-96	6.7	8

51	Electrochemical Synthesis and Characterization of Flavin Mononucleotide-Exfoliated Pristine Graphene/Polypyrrole Composites. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1487-1497	4.3	6
50	Conducting Polymers as EAPs: Fundamentals and Materials <b>2016</b> , 237-255		2
49	Conducting Polymers as EAPs: How to Start Experimenting with Them <b>2016</b> , 413-436		1
48	Conducting Polymers as EAPs: How to Start Experimenting with Them <b>2016</b> , 1-25		
47	Asymmetric Bilayer Muscles: Cooperative Actuation, Dynamic Hysteresis, and Creeping in NaPF6 Aqueous Solutions. <i>ChemistryOpen</i> , <b>2016</b> , 5, 369-74	2.3	3
46	Electrochemo-dynamical characterization of polypyrrole actuators coated on gold electrodes. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 827-36	3.6	19
45	Fabrication of electrospun silk fibroin scaffolds coated with graphene oxide and reduced graphene for applications in biomedicine. <i>Bioelectrochemistry</i> , <b>2016</b> , 108, 36-45	5.6	49
44	Electro-chemo-biomimetics from conducting polymers: fundamentals, materials, properties and devices. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 2069-2085	7.3	40
43	Faradaic and Capacitive Components of the CNT Electrochemical Responses. <i>Frontiers in Materials</i> , <b>2016</b> , 3,	4	8
42	Conducting Polymers as EAPs: Fundamentals and Materials <b>2016</b> , 1-19		O
41	Asymmetric Piloves Muscles, Cooperative and Antagonist Astuation, Floatsechimica Asta 2016, 105, 0, 1		29
	Asymmetric Bilayer Muscles. Cooperative and Antagonist Actuation. <i>Electrochimica Acta</i> , <b>2016</b> , 195, 9-18	<b>8</b> 6.7	<u> </u>
40	Polymeric actuators: Solvents tune reaction-driven cation to reaction-driven anion actuation.  Sensors and Actuators B: Chemical, 2016, 233, 328-336	86.7	37
40	Polymeric actuators: Solvents tune reaction-driven cation to reaction-driven anion actuation.	,	
	Polymeric actuators: Solvents tune reaction-driven cation to reaction-driven anion actuation.  Sensors and Actuators B: Chemical, 2016, 233, 328-336  Graphene adsorbed on silk-fibroin meshes: Biomimetic and reversible conformational movements	8.5	37
39	Polymeric actuators: Solvents tune reaction-driven cation to reaction-driven anion actuation.  Sensors and Actuators B: Chemical, 2016, 233, 328-336  Graphene adsorbed on silk-fibroin meshes: Biomimetic and reversible conformational movements driven by reactions. Electrochimica Acta, 2016, 209, 521-528  Artificial Physical and Chemical Awareness (Proprioception) from Polymeric Motors. Materials	8.5	37
39 38	Polymeric actuators: Solvents tune reaction-driven cation to reaction-driven anion actuation. Sensors and Actuators B: Chemical, 2016, 233, 328-336  Graphene adsorbed on silk-fibroin meshes: Biomimetic and reversible conformational movements driven by reactions. Electrochimica Acta, 2016, 209, 521-528  Artificial Physical and Chemical Awareness (Proprioception) from Polymeric Motors. Materials Research Society Symposia Proceedings, 2015, 1717, 27  Creeping and structural effects in Faradaic artificial muscles. Journal of Solid State Electrochemistry,	8.5	37 16
39 38 37	Polymeric actuators: Solvents tune reaction-driven cation to reaction-driven anion actuation. Sensors and Actuators B: Chemical, 2016, 233, 328-336  Graphene adsorbed on silk-fibroin meshes: Biomimetic and reversible conformational movements driven by reactions. Electrochimica Acta, 2016, 209, 521-528  Artificial Physical and Chemical Awareness (Proprioception) from Polymeric Motors. Materials Research Society Symposia Proceedings, 2015, 1717, 27  Creeping and structural effects in Faradaic artificial muscles. Journal of Solid State Electrochemistry, 2015, 19, 2683-2689	8.5	37 16

33	Can Human Proprioception Be Described by Physical-Chemical Equations? Proprioceptive Artificial Muscles. <i>Key Engineering Materials</i> , <b>2015</b> , 644, 145-152	0.4	
32	Polypyrrole Asymmetric Bilayer Artificial Muscle: Driven Reactions, Cooperative Actuation, and Osmotic Effects. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1535-1541	15.6	48
31	Deep Reduced PEDOT Films Support Electrochemical Applications: Biomimetic Color Front. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2015</b> , 3, 15	5.8	7
30	Fibroin/Polyaniline microfibrous mat. Preparation and electrochemical characterization as reactive sensor. <i>Electrochimica Acta</i> , <b>2014</b> , 123, 501-510	6.7	27
29	Ionic exchanges, structural movements and driven reactions in conducting polymers from bending artificial muscles. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 199, 27-30	8.5	47
28	Structural electrochemistry. Chronopotentiometric responses from rising compacted polypyrrole electrodes: experiments and model. <i>RSC Advances</i> , <b>2014</b> , 4, 29139-29145	3.7	16
27	Exchanged cations and water during reactions in polypyrrole macroions from artificial muscles. <i>ChemPhysChem</i> , <b>2014</b> , 15, 293-301	3.2	49
26	Effect of the electrolyte concentration and substrate on conducting polymer actuators. <i>Langmuir</i> , <b>2014</b> , 30, 3894-904	4	75
25	Polyurethane microfibrous mat templated polypyrrole: Preparation and biomimetic reactive sensing capabilities. <i>Journal of Electroanalytical Chemistry</i> , <b>2014</b> , 719, 47-53	4.1	20
24	A chemical and electrochemical multivalent memory made from FeNi3-graphene nanocomposites. <i>Electrochemistry Communications</i> , <b>2014</b> , 39, 15-18	5.1	14
23	Structural Electrochemistry: Conductivities and Ionic Content from Rising Reduced Polypyrrole Films. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1259-1264	15.6	53
22	Structural Electrochemistry from Freestanding Polypyrrole Films: Full Hydrogen Inhibition from Aqueous Solutions. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1265-1274	15.6	41
21	Mechanical awareness from sensing artificial muscles: Experiments and modeling. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 195, 365-372	8.5	38
20	Biomimetic Structural Electrochemistry from Conducting Polymers: Processes, Charges, and Energies. Coulovoltammetric Results from Films on Metals Revisited. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3929-3940	15.6	72
19	Biomimetic intracellular matrix (ICM) materials, properties and functions. Full integration of actuators and sensors. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 26-38	7.3	69
18	Structural and Biomimetic Chemical Kinetics: Kinetic Magnitudes Include Structural Information. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 404-416	15.6	54
17	Conducting polymers are simultaneous sensing actuators 2013,		6
16	Using reactive artificial muscles to determine water exchange during reactions. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 104019	3.4	26

## LIST OF PUBLICATIONS

15	Fabrication of conductive electrospun silk fibroin scaffolds by coating with polypyrrole for biomedical applications. <i>Bioelectrochemistry</i> , <b>2012</b> , 85, 36-43	5.6	129
14	Biomimetic electrochemistry from conducting polymers. A review. <i>Electrochimica Acta</i> , <b>2012</b> , 84, 112-1	<b>28</b> .7	239
13	Biomimetic dual sensing-actuators based on conducting polymers. Galvanostatic theoretical model for actuators sensing temperature. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 5279-90	3.4	65
12	Biomimetic dual sensing-actuators: theoretical description. Sensing electrolyte concentration and driving current. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 9223-30	3.4	55
11	Artificial Muscles: A Tool To Quantify Exchanged Solvent during Biomimetic Reactions. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 4093-4099	9.6	55
10	Graphene electrochemical responses sense surroundings. <i>Electrochimica Acta</i> , <b>2012</b> , 81, 49-57	6.7	23
9	Biomimetic Sensing [Actuators Based on Conducting Polymers <b>2012</b> ,		6
8	Electro-conductive double-network hydrogels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2012</b> , 50, 790-796	2.6	31
7	Electrochemistry of carbon nanotubes: reactive processes, dual sensing-actuating properties and devices. <i>ChemPhysChem</i> , <b>2012</b> , 13, 2108-14	3.2	23
6	One Actuator and Several Sensors in One Device with only Two Connecting Wires: Mimicking Muscle/Brain Feedback. <i>Advances in Science and Technology</i> , <b>2012</b> , 79, 16-25	0.1	3
5	Electrochemical Kinetics in Dense, Reactive and Wet Gels. Biomimicking Reactions and Devices. <i>Molecular Crystals and Liquid Crystals</i> , <b>2012</b> , 555, 295-305	0.5	2
4	Sensing characteristics of a conducting polymer/hydrogel hybrid microfiber artificial muscle. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 160, 1180-1190	8.5	107
3	Activation energy for polypyrrole oxidation: film thickness influence. <i>Journal of Solid State Electrochemistry</i> , <b>2011</b> , 15, 1169-1178	2.6	39
2	Electrochemical characterization of PEDOT <b>P</b> SSBorbitol electrodes. Sorbitol changes cation to anion interchange during reactions. <i>Journal of Electroanalytical Chemistry</i> , <b>2011</b> , 657, 23-27	4.1	23
1	Polypyrrol/chitosan hydrogel hybrid microfiber as sensing artificial muscle <b>2011</b> ,		4