

# Francisco Montilla

## 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.

61 papers	1,858 citations	23 h-index	42 g-index
61 ext. papers	2,009 ext. citations	4.9 avg, IF	4.57 L-index

#	Paper	IF	Citations
61	Determination of exciton diffusion coefficient in conjugated polymer films: Novel method based on spectroelectrochemical techniques. <i>Electrochimica Acta</i> , <b>2021</b> , 387, 138419	6.7	2
60	Revisiting the Redox Transitions of Polyaniline. Semiquantitative Interpretation of Electrochemically Induced IR Bands. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 897, 115593	4.1	0
59	Preparation and Characterization of Montmorillonite/PEDOT-PSS and Diatomite/PEDOT-PSS Hybrid Materials. Study of Electrochemical Properties in Acid Medium. <i>Journal of Composites Science</i> , <b>2020</b> , 4, 51	3	3
58	Electrochemical synthesis of fluorinated polyanilines. <i>Electrochimica Acta</i> , <b>2020</b> , 348, 136329	6.7	3
57	Reactive Insertion of PEDOT-PSS in SWCNT@Silica Composites and its Electrochemical Performance. <i>Materials</i> , <b>2020</b> , 13,	3.5	7
56	Improving the power performance of urine-fed microbial fuel cells using PEDOT-PSS modified anodes. <i>Applied Energy</i> , <b>2020</b> , 278, 115528	10.7	9
55	Affinity of Electrochemically Deposited Sol-Gel Silica Films towards Catecholamine Neurotransmitters. <i>Sensors</i> , <b>2019</b> , 19,	3.8	1
54	Exciton-Polaron Interactions in Polyfluorene Films with EPhase. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 9766-9772	3.8	11
53	Optimization of the Electrochemically Generated Luminescence of Polyfluorene Films. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 3608-3616	3.8	1
52	An Electrochemical Study on the Copolymer Formed from Piperazine and Aniline Monomers. <i>Materials</i> , <b>2018</b> , 11,	3.5	6
51	A self-doped polyaniline derivative obtained by electrochemical copolymerization of aminoterephthalic acid and aniline. <i>Synthetic Metals</i> , <b>2018</b> , 245, 61-66	3.6	7
50	Modulation of the electrocatalytic performance of PEDOT-PSS by reactive insertion into a sol-gel silica matrix. <i>European Polymer Journal</i> , <b>2018</b> , 105, 323-330	5.2	9
49	Electrochemically Monitored Photoluminescence of Conjugated Polymers <b>2017</b> , 105-137		6
48	Spectroelectrochemical study on the copolymerization of o-aminophenol and aminoterephthalic acid. <i>European Polymer Journal</i> , <b>2017</b> , 91, 386-395	5.2	9
47	Enhancement of the direct electron transfer to encapsulated cytochrome c by electrochemical functionalization with a conducting polymer. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 793, 34-40	4.1	10
46	Direct Electron Transfer to Cytochrome c Induced by a Conducting Polymer. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 15870-15879	3.8	14
45	Molecularly imprinted silica films prepared by electroassisted deposition for the selective detection of dopamine. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 222, 63-70	8.5	12

44	Enhanced removal of 8-quinolinecarboxylic acid in an activated carbon cloth by electroadsorption in aqueous solution. <i>Chemosphere</i> , <b>2016</b> , 144, 982-8	8.4	17
43	The chemical and electrochemical oxidative polymerization of 2-amino-4-tert-butylphenol. <i>Electrochimica Acta</i> , <b>2016</b> , 212, 958-965	6.7	6
42	Electrocatalytic oxidation of ascorbic acid on mesostructured SiO <sub>2</sub> -conducting polymer composites. <i>European Polymer Journal</i> , <b>2015</b> , 69, 201-207	5.2	5
41	Disposable electrochromic polyaniline sensor based on a redox response using a conventional camera: A first approach to handheld analysis. <i>Journal of Electroanalytical Chemistry</i> , <b>2015</b> , 738, 162-169	4.1	24
40	Electrochemical Behaviour of PSS-Functionalized Silica Films Prepared by Electroassisted Deposition of Sol-Gel Precursors. <i>Electrocatalysis</i> , <b>2015</b> , 6, 33-41	2.7	6
39	Enhancement of the Electrochemical Performance of SWCNT dispersed in a Silica Sol-gel Matrix by Reactive Insertion of a Conducting Polymer. <i>Electrochimica Acta</i> , <b>2014</b> , 135, 114-120	6.7	14
38	Modulation of the silica sol-gel composition for the promotion of direct electron transfer to encapsulated cytochrome c. <i>Langmuir</i> , <b>2014</b> , 30, 10531-8	4	13
37	Electrochemical behaviour of different redox probes on single wall carbon nanotube buckypaper-modified electrodes. <i>Electrochimica Acta</i> , <b>2014</b> , 135, 404-411	6.7	13
36	Electrochemical and In Situ FTIR Study of o-Cresol on Platinum Electrode in Acid Medium. <i>Electrocatalysis</i> , <b>2014</b> , 5, 186-192	2.7	6
35	Electrocatalytic Performance of SiO <sub>2</sub> -SWCNT Nanocomposites Prepared by Electroassisted Deposition. <i>Electrocatalysis</i> , <b>2013</b> , 4, 259-266	2.7	13
34	Absorption cross-sections of hole polarons in glassy and $\beta$ -phase polyfluorene. <i>Chemical Physics Letters</i> , <b>2013</b> , 585, 133-137	2.5	20
33	Relevance of porosity and surface chemistry of superactivated carbons in capacitors. <i>Tanso</i> , <b>2013</b> , 2013, 41-47	0.1	6
32	Electrochemical synthesis and spectroelectrochemical characterization of triazole/thiophene conjugated polymers. <i>Electrochimica Acta</i> , <b>2011</b> , 58, 215-222	6.7	9
31	Hexaazatriphenylene (HAT) versus tri-HAT: the bigger the better?. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 10312-22	4.8	34
30	Study on electroactive and electrocatalytic surfaces of single walled carbon nanotube-modified electrodes. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 2464-2470	6.7	90
29	All electrochemical synthesis of polyaniline/silica sol-gel materials. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 3620-3625	6.7	31
28	Microwave-Assisted Stille Reactions as a Powerful Tool for Building Polyheteroaryl Systems Bearing a (1H)-1,2,4-Triazole Moiety. <i>Synlett</i> , <b>2010</b> , 2010, 55-60	2.2	3
27	Electrochemical oxidation of synthetic tannery wastewater in chloride-free aqueous media. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 180, 429-35	12.8	47

26	Influence of the thickness of electrochemically deposited polyaniline used as hole transporting layer on the behaviour of polymer light-emitting diodes. <i>Thin Solid Films</i> , <b>2009</b> , 517, 2729-2735	2.2	21
25	Electrochemical oxidation of acid black 210 dye on the boron-doped diamond electrode in the presence of phosphate ions: Effect of current density, pH, and chloride ions. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 7048-7055	6.7	86
24	Progress in the Synthesis of Poly(2,7-Fluorene-alt-1,4-Phenylene), PFP, via Suzuki Coupling.. <i>Macromolecules</i> , <b>2009</b> , 42, 5471-5477	5.5	34
23	Hybrid sol-gel-conducting polymer synthesised by electrochemical insertion: tailoring the capacitance of polyaniline. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 305-310		70
22	Shifting the degree of sulfonation in a polyaniline derivative by the applied potential. <i>Synthetic Metals</i> , <b>2008</b> , 158, 815-820	3.6	2
21	Spectroelectrochemical Study of Electron and Energy Transfer in Poly(fluorene-alt-phenylene) with Perylenediimide Pendant Groups. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 16668-16674	3.8	23
20	A Novel Tyrosine Derivative of Poly[(fluorene-2,7-diyl)-alt-co-(benzene-1,4-diyl)]: Strategy of Synthesis and Chiroptical and Electrochemical Characterization. <i>Macromolecules</i> , <b>2007</b> , 40, 3042-3048	5.5	9
19	Fluorescence Emission Anisotropy Coupled to an Electrochemical System: Study of Exciton Dynamics in Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 18405-18410	3.8	23
18	On the Origin of Green Emission Bands in Fluorene-Based Conjugated Polymers. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 71-78	15.6	101
17	P-172: Determination of Hole Mobilities in New Blue Emitting Organic Diodes by Means of Impedance Spectroscopy. <i>Digest of Technical Papers SID International Symposium</i> , <b>2007</b> , 38, 841-844	0.5	1
16	Preparation and characterization of copper-doped cobalt oxide electrodes. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 24021-9	3.4	128
15	In situ electrochemical fluorescence studies of PPV. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 25791-6	3.4	28
14	Charge transport in luminescent polymers studied by in situ fluorescence spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 5914-9	3.4	26
13	On the vibrational behaviour of cyanide adsorbed at Pt(111) and Pt(100) surfaces in alkaline solutions. <i>Surface Science</i> , <b>2006</b> , 600, 1221-1226	1.8	5
12	Characterization and Side Chain Manipulation in Violet-Blue Poly-[(9,9-dialkylfluorene-2,7-diyl)-alt-co-(benzene-1,4-diyl)] Backbones. <i>Macromolecules</i> , <b>2005</b> , 38, 3185-3192	5.5	44
11	Electrochemical Regeneration of Activated Carbon Saturated with Toluene. <i>Journal of Applied Electrochemistry</i> , <b>2005</b> , 35, 319-325	2.6	59
10	Evaluation of the Electrocatalytic Activity of Antimony-Doped Tin Dioxide Anodes toward the Oxidation of Phenol in Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, B421	3.9	59
9	Preparation and Characterization of Antimony-Doped Tin Dioxide Electrodes. Part 1. Electrochemical Characterization. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 5036-5043	3.4	148

8	Preparation and Characterization of Antimony-Doped Tin Dioxide Electrodes. 3. XPS and SIMS Characterization. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 15976-15981	3.4	105
7	Preparation and Characterization of Antimony-Doped Tin Dioxide Electrodes. Part 2. XRD and EXAFS Characterization. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 5044-5050	3.4	62
6	Platinum particles deposited on synthetic boron-doped diamond surfaces. Application to methanol oxidation. <i>Electrochimica Acta</i> , <b>2003</b> , 48, 3891-3897	6.7	99
5	Electrochemical Behaviour of Benzoic Acid on Platinum and Gold Electrodes. <i>Langmuir</i> , <b>2003</b> , 19, 10241-10246	4.14	14
4	Electrochemical oxidation of benzoic acid at boron-doped diamond electrodes. <i>Electrochimica Acta</i> , <b>2002</b> , 47, 3509-3513	6.7	152
3	Electrochemical study of benzene on Pt of various surface structures in alkaline and acidic solutions. <i>Electrochimica Acta</i> , <b>2002</b> , 47, 4399-4406	6.7	31
2	Carbon/ceramic composites from coal tar pitch and clays: application as electrocatalyst support. <i>Carbon</i> , <b>2002</b> , 40, 2193-2200	10.4	17
1	Electrochemical behaviour of benzene on platinum electrodes. <i>Electrochimica Acta</i> , <b>2000</b> , 45, 4271-4277	6.7	44