

Francisco Montilla

List of Publications by Year in descending order

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61
papers

2,212
citations

279701

23
h-index

223716

46
g-index

61
all docs

61
docs citations

61
times ranked

2785
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of exciton diffusion coefficient in conjugated polymer films: Novel method based on spectroelectrochemical techniques. <i>Electrochimica Acta</i> , 2021, 387, 138419.	2.6	3
2	Revisiting the Redox Transitions of Polyaniline. Semiquantitative Interpretation of Electrochemically Induced IR Bands. <i>Journal of Electroanalytical Chemistry</i> , 2021, 897, 115593.	1.9	15
3	Improving the power performance of urine-fed microbial fuel cells using PEDOT-PSS modified anodes. <i>Applied Energy</i> , 2020, 278, 115528.	5.1	24
4	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> , 2020, 4, 51.	1.4	7
5	Electrochemical synthesis of fluorinated polyanilines. <i>Electrochimica Acta</i> , 2020, 348, 136329.	2.6	7
6	Reactive Insertion of PEDOT-PSS in SWCNT@Silica Composites and its Electrochemical Performance. <i>Materials</i> , 2020, 13, 1200.	1.3	10
7	Affinity of Electrochemically Deposited Sol-Gel Silica Films towards Catecholamine Neurotransmitters. <i>Sensors</i> , 2019, 19, 868.	2.1	2
8	Exciton-Polaron Interactions in Polyfluorene Films with β -Phase. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9766-9772.	1.5	13
9	Optimization of the Electrochemically Generated Luminescence of Polyfluorene Films. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3608-3616.	1.5	1
10	An Electrochemical Study on the Copolymer Formed from Piperazine and Aniline Monomers. <i>Materials</i> , 2018, 11, 1012.	1.3	10
11	A self-doped polyaniline derivative obtained by electrochemical copolymerization of aminoterephthalic acid and aniline. <i>Synthetic Metals</i> , 2018, 245, 61-66.	2.1	11
12	Modulation of the electrocatalytic performance of PEDOT-PSS by reactive insertion into a sol-gel silica matrix. <i>European Polymer Journal</i> , 2018, 105, 323-330.	2.6	10
13	Electrochemically Monitored Photoluminescence of Conjugated Polymers. , 2017, , 105-137.		7
14	Spectroelectrochemical study on the copolymerization of o-aminophenol and aminoterephthalic acid. <i>European Polymer Journal</i> , 2017, 91, 386-395.	2.6	11
15	Enhancement of the direct electron transfer to encapsulated cytochrome c by electrochemical functionalization with a conducting polymer. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 34-40.	1.9	14
16	Direct Electron Transfer to Cytochrome c Induced by a Conducting Polymer. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15870-15879.	1.5	18
17	The chemical and electrochemical oxidative polymerization of 2-amino-4-tert-butylphenol. <i>Electrochimica Acta</i> , 2016, 212, 958-965.	2.6	7
18	Enhanced removal of 8-quinolinecarboxylic acid in an activated carbon cloth by electroadsorption in aqueous solution. <i>Chemosphere</i> , 2016, 144, 982-988.	4.2	24

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19	Molecularly imprinted silica films prepared by electroassisted deposition for the selective detection of dopamine. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 63-70.	4.0	16
20	Electrocatalytic oxidation of ascorbic acid on mesostructured SiO ₂ -conducting polymer composites. <i>European Polymer Journal</i> , 2015, 69, 201-207.	2.6	5
21	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> , 2015, 738, 162-169.	1.9	26
22	Electrochemical Behaviour of PSS-Functionalized Silica Films Prepared by Electroassisted Deposition of Sol-gel Precursors. <i>Electrocatalysis</i> , 2015, 6, 33-41.	1.5	6
23	Electrochemical behaviour of different redox probes on single wall carbon nanotube buckypaper-modified electrodes. <i>Electrochimica Acta</i> , 2014, 135, 404-411.	2.6	18
24	Electrochemical and In Situ FTIR Study of o-Cresol on Platinum Electrode in Acid Medium. <i>Electrocatalysis</i> , 2014, 5, 186-192.	1.5	9
25	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> , 2014, 135, 114-120.	2.6	15
26	Modulation of the Silica Sol-gel Composition for the Promotion of Direct Electron Transfer to Encapsulated Cytochrome <i>c</i> . <i>Langmuir</i> , 2014, 30, 10531-10538.	1.6	16
27	Electrocatalytic Performance of SiO ₂ -SWCNT Nanocomposites Prepared by Electroassisted Deposition. <i>Electrocatalysis</i> , 2013, 4, 259-266.	1.5	15
28	Absorption cross-sections of hole polarons in glassy and β -phase polyfluorene. <i>Chemical Physics Letters</i> , 2013, 585, 133-137.	1.2	22
29	Relevance of porosity and surface chemistry of superactivated carbons in capacitors. <i>Tanso</i> , 2013, 2013, 41-47.	0.1	7
30	Electrochemical synthesis and spectroelectrochemical characterization of triazole/thiophene conjugated polymers. <i>Electrochimica Acta</i> , 2011, 58, 215-222.	2.6	10
31	Hexaazatriphenylene (HAT) versus tri-HAT: The Bigger the Better?. <i>Chemistry - A European Journal</i> , 2011, 17, 10312-10322.	1.7	40
32	Study on electroactive and electrocatalytic surfaces of single walled carbon nanotube-modified electrodes. <i>Electrochimica Acta</i> , 2011, 56, 2464-2470.	2.6	116
33	All electrochemical synthesis of polyaniline/silica sol-gel materials. <i>Electrochimica Acta</i> , 2011, 56, 3620-3625.	2.6	32
34	Electrochemical oxidation of synthetic tannery wastewater in chloride-free aqueous media. <i>Journal of Hazardous Materials</i> , 2010, 180, 429-435.	6.5	55
35	Microwave-Assisted Stille Reactions as a Powerful Tool for Building Polyheteroaryl Systems Bearing a (1H)-1,2,4-Triazole Moiety. <i>Synlett</i> , 2010, 2010, 55-60.	1.0	4
36	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> , 2009, 517, 2729-2735.	0.8	23

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37	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> , 2009, 54, 7048-7055.	2.6	109
38	Progress in the Synthesis of Poly(2,7-Fluorene- <i>alt</i> -1,4-Phenylene), PFP, via Suzuki Coupling. <i>Macromolecules</i> , 2009, 42, 5471-5477.	2.2	34
39	Hybrid sol-gel conducting polymer synthesised by electrochemical insertion: tailoring the capacitance of polyaniline. <i>Journal of Materials Chemistry</i> , 2009, 19, 305-310.	6.7	78
40	Shifting the degree of sulfonation in a polyaniline derivative by the applied potential. <i>Synthetic Metals</i> , 2008, 158, 815-820.	2.1	3
41	Spectroelectrochemical Study of Electron and Energy Transfer in Poly(fluorene- <i>alt</i> -phenylene) with Perylenediimide Pendant Groups. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16668-16674.	1.5	23
42	P–72: Determination of Hole Mobilities in New Blue Emitting Organic Diodes by Means of Impedance Spectroscopy. <i>Digest of Technical Papers SID International Symposium</i> , 2007, 38, 841-844.	0.1	1
43	A Novell-Tyrosine Derivative of Poly[(fluoren-2,7-diyl)- <i>alt</i> -co-(benzen-1,4-diyl)]: A Strategy of Synthesis and Chiroptical and Electrochemical Characterization. <i>Macromolecules</i> , 2007, 40, 3042-3048.	2.2	9
44	Fluorescence Emission Anisotropy Coupled to an Electrochemical System: Study of Exciton Dynamics in Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18405-18410.	1.5	23
45	On the Origin of Green Emission Bands in Fluorene-Based Conjugated Polymers. <i>Advanced Functional Materials</i> , 2007, 17, 71-78.	7.8	110
46	Preparation and Characterization of Copper-Doped Cobalt Oxide Electrodes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24021-24029.	1.2	165
47	In situ Electrochemical Fluorescence Studies of PPV. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25791-25796.	1.2	30
48	Charge Transport in Luminescent Polymers Studied by in Situ Fluorescence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5914-5919.	1.2	27
49	On the vibrational behaviour of cyanide adsorbed at Pt(111) and Pt(100) surfaces in alkaline solutions. <i>Surface Science</i> , 2006, 600, 1221-1226.	0.8	6
50	Electrochemical Regeneration of Activated Carbon Saturated with Toluene. <i>Journal of Applied Electrochemistry</i> , 2005, 35, 319-325.	1.5	68
51	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> , 2005, 152, B421.	1.3	65
52	Characterization and Side Chain Manipulation in Violet-Blue Poly-[(9,9-dialkylfluoren-2,7-diyl)- <i>alt</i> -co-(benzen-1,4-diyl)] Backbones. <i>Macromolecules</i> , 2005, 38, 3185-3192.	2.2	51
53	Preparation and Characterization of Antimony-Doped Tin Dioxide Electrodes. Part 1. Electrochemical Characterization. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5036-5043.	1.2	184
54	Preparation and Characterization of Antimony-Doped Tin Dioxide Electrodes. 3. XPS and SIMS Characterization. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15976-15981.	1.2	123

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55	Preparation and Characterization of Antimony-Doped Tin Dioxide Electrodes. Part 2. XRD and EXAFS Characterization. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5044-5050.	1.2	72
56	Platinum particles deposited on synthetic boron-doped diamond surfaces. Application to methanol oxidation. <i>Electrochimica Acta</i> , 2003, 48, 3891-3897.	2.6	110
57	Electrochemical Behaviour of Benzoic Acid on Platinum and Gold Electrodes. <i>Langmuir</i> , 2003, 19, 10241-10246.	1.6	15
58	Electrochemical oxidation of benzoic acid at boron-doped diamond electrodes. <i>Electrochimica Acta</i> , 2002, 47, 3509-3513.	2.6	174
59	Electrochemical study of benzene on Pt of various surface structures in alkaline and acidic solutions. <i>Electrochimica Acta</i> , 2002, 47, 4399-4406.	2.6	37
60	Carbon-ceramic composites from coal tar pitch and clays: application as electrocatalyst support. <i>Carbon</i> , 2002, 40, 2193-2200.	5.4	19
61	Electrochemical behaviour of benzene on platinum electrodes. <i>Electrochimica Acta</i> , 2000, 45, 4271-4277.	2.6	47