Francisco Montilla

List of Publications by Year
in descending order

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Version: 2024-02-01

61 papers	2,212 citations	279798 23 h-index	223800 46 g-index
61 all docs	61 docs citations	61 times ranked	2785 citing authors

#	Article	IF	Citations
1	Preparation and Characterization of Antimony-Doped Tin Dioxide Electrodes. Part 1. Electrochemical Characterization. Journal of Physical Chemistry B, 2004, 108, 5036-5043.	2.6	184
2	Electrochemical oxidation of benzoic acid at boron-doped diamond electrodes. Electrochimica Acta, 2002, 47, 3509-3513.	5.2	174
3	Preparation and Characterization of Copper-Doped Cobalt Oxide Electrodes. Journal of Physical Chemistry B, 2006, 110, 24021-24029.	2.6	165
4	Preparation and Characterization of Antimony-Doped Tin Dioxide Electrodes. 3. XPS and SIMS Characterization. Journal of Physical Chemistry B, 2004, 108, 15976-15981.	2.6	123
5	Study on electroactive and electrocatalytic surfaces of single walled carbon nanotube-modified electrodes. Electrochimica Acta, 2011, 56, 2464-2470.	5.2	116
6	Platinum particles deposited on synthetic boron-doped diamond surfaces. Application to methanol oxidation. Electrochimica Acta, 2003, 48, 3891-3897.	5.2	110
7	On the Origin of Green Emission Bands in Fluorene-Based Conjugated Polymers. Advanced Functional Materials, 2007, 17, 71-78.	14.9	110
8	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. Electrochimica Acta, 2009, 54, 7048-7055.	5.2	109
9	Hybrid solâ€“gelâ€“conducting polymer synthesised by electrochemical insertion: tailoring the capacitance of polyaniline. Journal of Materials Chemistry, 2009, 19, 305-310.	6.7	78
10	Preparation and Characterization of Antimony-Doped Tin Dioxide Electrodes. Part 2. XRD and EXAFS Characterization. Journal of Physical Chemistry B, 2004, 108, 5044-5050.	2.6	72
11	Electrochemical Regeneration of Activated Carbon Saturated with Toluene. Journal of Applied Electrochemistry, 2005, 35, 319-325.	2.9	68
12	Evaluation of the Electrocatalytic Activity of Antimony-Doped Tin Dioxide Anodes toward the Oxidation of Phenol in Aqueous Solutions. Journal of the Electrochemical Society, 2005, 152, B421.	2.9	65
13	Electrochemical oxidation of synthetic tannery wastewater in chloride-free aqueous media. Journal of Hazardous Materials, 2010, 180, 429-435.	12.4	55
14	Characterization and Side Chain Manipulation in Violet-Blue Poly-[(9,9-dialkylfluoren-2,7-diyl)-alt-co-(benzen-1,4-diyl)] Backbones. Macromolecules, 2005, 38, 3185-3192.	4.8	51
15	Electrochemical behaviour of benzene on platinum electrodes. Electrochimica Acta, 2000, 45, 4271-4277.	5.2	47
16	Hexaazatriphenylene (HAT) versus triâ€HAT: The Bigger the Better?. Chemistry - A European Journal, 2011, 17, 10312-10322.	3.3	40
17	Electrochemical study of benzene on Pt of various surface structures in alkaline and acidic solutions. Electrochimica Acta, 2002, 47, 4399-4406.	5.2	37
18	Progress in the Synthesis of Poly(2,7-Fluorene-alt-1,4-Phenylene), PFP, via Suzuki Coupling.. Macromolecules, 2009, 42, 5471-5477.	4.8	34

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19	All electrochemical synthesis of polyaniline/silica solâ€“gel materials. Electrochimica Acta, 2011, 56, 3620-3625.	5.2	32
20	In situ Electrochemical Fluorescence Studies of PPV. Journal of Physical Chemistry B, 2006, 110, 25791-25796.	2.6	30
21	Charge Transport in Luminescent Polymers Studied by in Situ Fluorescence Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 5914-5919.	2.6	27
22	Disposable electrochromic polyaniline sensor based on a redox response using a conventional camera: A first approach to handheld analysis. Journal of Electroanalytical Chemistry, 2015, 738, 162-169.	3.8	26
23	Enhanced removal of 8-quinolinecarboxylic acid in an activated carbon cloth by electroadsorption in aqueous solution. Chemosphere, 2016, 144, 982-988.	8.2	24
24	Improving the power performance of urine-fed microbial fuel cells using PEDOT-PSS modified anodes. Applied Energy, 2020, 278, 115528.	10.1	24
25	Fluorescence Emission Anisotropy Coupled to an Electrochemical System:â€‰ Study of Exciton Dynamics in Conjugated Polymers. Journal of Physical Chemistry C, 2007, 111, 18405-18410.	3.1	23
26	Spectroelectrochemical Study of Electron and Energy Transfer in Poly(fluorene-alt-phenylene) with Perylenediimide Pendant Groups. Journal of Physical Chemistry C, 2008, 112, 16668-16674.	3.1	23
27	Influence of the thickness of electrochemically deposited polyaniline used as hole transporting layer on the behaviour of polymer light-emitting diodes. Thin Solid Films, 2009, 517, 2729-2735.	1.8	23
28	Absorption cross-sections of hole polarons in glassy and Î²-phase polyfluorene. Chemical Physics Letters, 2013, 585, 133-137.	2.6	22
29	Carbonâ€“ceramic composites from coal tar pitch and clays: application as electrocatalyst support. Carbon, 2002, 40, 2193-2200.	10.3	19
30	Electrochemical behaviour of different redox probes on single wall carbon nanotube buckypaper-modified electrodes. Electrochimica Acta, 2014, 135, 404-411.	5.2	18
31	Direct Electron Transfer to Cytochrome c Induced by a Conducting Polymer. Journal of Physical Chemistry C, 2017, 121, 15870-15879.	3.1	18
32	Modulation of the Silica Solâ€“Gel Composition for the Promotion of Direct Electron Transfer to Encapsulated Cytochrome c. Langmuir, 2014, 30, 10531-10538.	3.5	16
33	Molecularly imprinted silica films prepared by electroassisted deposition for the selective detection of dopamine. Sensors and Actuators B: Chemical, 2016, 222, 63-70.	7.8	16
34	Electrochemical Behaviour of Benzoic Acid on Platinum and Gold Electrodes. Langmuir, 2003, 19, 10241-10246.	3.5	15
35	Electrocatalytic Performance of SiO2-SWCNT Nanocomposites Prepared by Electroassisted Deposition. Electrocatalysis, 2013, 4, 259-266.	3.0	15
36	Enhancement of the Electrochemical Performance of SWCNT dispersed in a Silica Sol-gel Matrix by Reactive Insertion of a Conducting Polymer. Electrochimica Acta, 2014, 135, 114-120.	5.2	15

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37	Revisiting the Redox Transitions of Polyaniline. Semiquantitative Interpretation of Electrochemically Induced IR Bands. Journal of Electroanalytical Chemistry, 2021, 897, 115593.	3.8	15
38	Enhancement of the direct electron transfer to encapsulated cytochrome c by electrochemical functionalization with a conducting polymer. Journal of Electroanalytical Chemistry, 2017, 793, 34-40.	3.8	14
39	Excitonâ€“Polaron Interactions in Polyfluorene Films with Î²-Phase. Journal of Physical Chemistry C, 2018, 122, 9766-9772.	3.1	13
40	Spectroelectrochemical study on the copolymerization of o-aminophenol and aminoterephthalic acid. European Polymer Journal, 2017, 91, 386-395.	5.4	11
41	A self-doped polyaniline derivative obtained by electrochemical copolymerization of aminoterephthalic acid and aniline. Synthetic Metals, 2018, 245, 61-66.	3.9	11
42	Electrochemical synthesis and spectroelectrochemical characterization of triazole/thiophene conjugated polymers. Electrochimica Acta, 2011, 58, 215-222.	5.2	10
43	An Electrochemical Study on the Copolymer Formed from Piperazine and Aniline Monomers. Materials, 2018, 11, 1012.	2.9	10
44	Modulation of the electrocatalytic performance of PEDOT-PSS by reactive insertion into a sol-gel silica matrix. European Polymer Journal, 2018, 105, 323-330.	5.4	10
45	Reactive Insertion of PEDOT-PSS in SWCNT@Silica Composites and its Electrochemical Performance. Materials, 2020, 13, 1200.	2.9	10
46	A Novell-Tyrosine Derivative of Poly[(fluoren-2,7-diyl)-alt-co-(benzen-1,4-diyl)]:Â Strategy of Synthesis and Chiroptical and Electrochemical Characterization. Macromolecules, 2007, 40, 3042-3048.	4.8	9
47	Electrochemical and In Situ FTIR Study of o-Cresol on Platinum Electrode in Acid Medium. Electrocatalysis, 2014, 5, 186-192.	3.0	9
48	Relevance of porosity and surface chemistry of superactivated carbons in capacitors. Tanso, 2013, 2013, 41-47.	0.1	7
49	The chemical and electrochemical oxidative polymerization of 2-amino-4-tert-butylphenol. Electrochimica Acta, 2016, 212, 958-965.	5.2	7
50	Electrochemically Monitored Photoluminescence of Conjugated Polymers. , 2017, , 105-137.		7
51	Preparation and Characterization of Montmorillonite/PEDOT-PSS and Diatomite/PEDOT-PSS Hybrid Materials. Study of Electrochemical Properties in Acid Medium. Journal of Composites Science, 2020, 4, 51.	3.0	7
52	Electrochemical synthesis of fluorinated polyanilines. Electrochimica Acta, 2020, 348, 136329.	5.2	7
53	On the vibrational behaviour of cyanide adsorbed at Pt(111) and Pt(100) surfaces in alkaline solutions. Surface Science, 2006, 600, 1221-1226.	1.9	6
54	Electrochemical Behaviour of PSS-Functionalized Silica Films Prepared by Electroassisted Deposition of Solâ€“Gel Precursors. Electrocatalysis, 2015, 6, 33-41.	3.0	6

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55	Electrocatalytic oxidation of ascorbic acid on mesostructured SiO2-conducting polymer composites. European Polymer Journal, 2015, 69, 201-207.	5.4	5
56	Microwave-Assisted Stille Reactions as a Powerful Tool for Building Polyheteroaryl Systems Bearing a (1H)-1,2,4-Triazole Moiety. Synlett, 2010, 2010, 55-60.	1.8	4
57	Shifting the degree of sulfonation in a polyaniline derivative by the applied potential. Synthetic Metals, 2008, 158, 815-820.	3.9	3
58	Determination of exciton diffusion coefficient in conjugated polymer films: Novel method based on spectroelectrochemical techniques. Electrochimica Acta, 2021, 387, 138419.	5.2	3
59	Affinity of Electrochemically Deposited Solâ€“Gel Silica Films towards Catecholamine Neurotransmitters. Sensors, 2019, 19, 868.	3.8	2
60	Pâ€172: Determination of Hole Mobilities in New Blue Emitting Organic Diodes by Means of Impedance Spectroscopy. Digest of Technical Papers SID International Symposium, 2007, 38, 841-844.	0.3	1
61	Optimization of the Electrochemically Generated Luminescence of Polyfluorene Films. Journal of Physical Chemistry C, 2018, 122, 3608-3616.	3.1	1