

Carmen M Casado

List of Publications by Year in descending order

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3,565
citations

109264

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133188

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docs citations

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times ranked

2134
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox-active ferrocenyl dendrimers and polymers in solution and immobilised on electrode surfaces. <i>Coordination Chemistry Reviews</i> , 1999, 185-186, 53-80.	9.5	202
2	Redox-Active Ferrocenyl Dendrimers: Thermodynamics and Kinetics of Adsorption, In-Situ Electrochemical Quartz Crystal Microbalance Study of the Redox Process and Tapping Mode AFM Imaging. <i>Journal of the American Chemical Society</i> , 1997, 119, 10763-10773.	6.6	201
3	Dendrimers Containing Organometallic Moieties Electronically Communicated. <i>Journal of the American Chemical Society</i> , 1997, 119, 7613-7614.	6.6	177
4	Multisite Inclusion Complexation of Redox Active Dendrimer Guests. <i>Journal of the American Chemical Society</i> , 1997, 119, 5760-5761.	6.6	176
5	Ferrocenyl-Functionalized Poly(propylenimine) Dendrimers. <i>Organometallics</i> , 1996, 15, 5278-5280.	1.1	174
6	Organometallic dendrimers with transition metals. <i>Coordination Chemistry Reviews</i> , 1999, 193-195, 395-445.	9.5	159
7	Electrodes modified with electroactive films of organometallic dendrimers. <i>Chemistry of Materials</i> , 1995, 7, 1440-1442.	3.2	145
8	Ferrocenyl substituted octakis(dimethylsiloxy)octasilsesquioxanes: a new class of supramolecular organometallic compounds. Synthesis, characterization, and electrochemistry. <i>Organometallics</i> , 1993, 12, 4327-4333.	1.1	118
9	Mixed Ferrocene-Cobaltocenium Dendrimers: The Most Stable Organometallic Redox Systems Combined in a Dendritic Molecule. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 2135-2138.	7.2	115
10	Cyclic siloxanes and silsesquioxanes as cores and frameworks for the construction of ferrocenyl dendrimers and polymers. <i>Applied Organometallic Chemistry</i> , 1999, 13, 245-259.	1.7	86
11	Siloxane and Organosilicon Dimers, Monomers, and Polymers with Amide-Linked Ferrocenyl Moieties. Synthesis, Characterization, and Redox Properties. <i>Inorganic Chemistry</i> , 1995, 34, 1668-1680.	1.9	82
12	Ferrocenyl silicon-based dendrimers as mediators in amperometric biosensors. <i>Analytica Chimica Acta</i> , 1997, 338, 191-198.	2.6	79
13	Synthesis, electrochemistry and cyclodextrin binding of novel cobaltocenium-functionalized dendrimers. <i>Chemical Communications</i> , 1998, , 2569-2570.	2.2	79
14	Amperometric enzyme electrodes for aerobic and anaerobic glucose monitoring prepared by glucose oxidase immobilized in mixed ferrocene-cobaltocenium dendrimers. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1617-1625.	5.3	77
15	Effective recognition of H ₂ PO ₄ ³⁻ by a new series of dendrimers functionalized with ferrocenyl-urea termini. <i>Chemical Communications</i> , 2002, , 1778-1779.	2.2	74
16	Synthesis of the First Redox-Active Organometallic Polymers Containing Cyclosiloxanes as Frameworks. <i>Organometallics</i> , 1995, 14, 2618-2620.	1.1	66
17	Silicon-based ferrocenyl dendrimers as anion receptors in solution and immobilized onto electrode surfaces. <i>Journal of Electroanalytical Chemistry</i> , 1999, 463, 87-92.	1.9	66
18	Amperometric biosensors for NADH based on hyperbranched dendritic ferrocene polymers and Pt nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 111-119.	4.0	66

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19	Electrocatalytic properties of polymethylferrocenyl dendrimers and their applications in biosensing. <i>Bioelectrochemistry</i> , 2006, 69, 65-73.	2.4	64
20	Silicon-based organometallic dendritic macromolecules containing $\{\eta^6\text{-}(\text{organosily})\text{ arene}\}$ chromium tricarbonyl moieties. <i>Journal of Organometallic Chemistry</i> , 1996, 509, 109-113.	0.8	59
21	Thermodynamics of C-H Activation in Multiple Oxidation States: A Comparison of Benzylic C-H Acidities and C-H Bond Dissociation Energies in the Isostructural $16\text{-}20\text{-Electron}$ Complexes $[\text{Fe}_x(\eta^5\text{-C}_5\text{R}_5)(\eta^6\text{-arene})]_{n,x=0\text{--}4}$, R = H or Me, $n=1\text{ to }+3$. <i>Journal of the American Chemical Society</i> , 1999, 121, 5674-5686.	6.6	59
22	Organometallic dendritic macromolecules. <i>Advances in Dendritic Macromolecules</i> , 1996, , 151-195.	0.6	54
23	Preparation of biosensors based in a siloxane homopolymer with interacting ferrocenes for the amperometric detection of peroxides. <i>Sensors and Actuators B: Chemical</i> , 2004, 101, 143-149.	4.0	50
24	Thiolated DAB dendrimers and CdSe quantum dots nanocomposites for Cd(II) or Pb(II) sensing. <i>Talanta</i> , 2012, 88, 403-407.	2.9	48
25	Mercury(II) sensing based on the quenching of fluorescence of CdS dendrimer nanocomposites. <i>Analyst</i> , 2009, 134, 2447.	1.7	47
26	Characterization of an engineered cellulose based membrane by thiol dendrimer for heavy metals removal. <i>Chemical Engineering Journal</i> , 2014, 253, 472-477.	6.6	47
27	1,1-Bis(dimethylvinylsilyl)ferrocene as a Two-Directional Core for the Construction of Homo- and Heterometallic Systems. <i>Organometallics</i> , 1999, 18, 2349-2356.	1.1	46
28	Functionalization via hydrosilylation of linear and cyclic siloxanes with appendent first generation dendrons containing electronically communicated ferrocenyl units. <i>Journal of Organometallic Chemistry</i> , 2001, 637-639, 642-652.	0.8	44
29	Cobaltocenium-Functionalized Poly(propylene imine) Dendrimers: Redox and Electromicrogravimetric Studies and AFM Imaging. <i>Chemistry - A European Journal</i> , 2001, 7, 1109-1117.	1.7	43
30	Fluorescent sensor for Cr(VI) based in functionalized silicon quantum dots with dendrimers. <i>Talanta</i> , 2015, 144, 862-867.	2.9	43
31	Bienzyme sensors based on novel polymethylferrocenyl dendrimers. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1209-1217.	1.9	39
32	Electrochemical preparation of gold nanoparticles on ferrocenyl-dendrimer film modified electrodes and their application for the electrocatalytic oxidation and amperometric detection of nitrite. <i>Journal of Electroanalytical Chemistry</i> , 2017, 788, 14-22.	1.9	39
33	Ferrocenyl Dendrimers Incorporated into Mesoporous Silica: A New Hybrid Redox-Active Materials. <i>Chemistry of Materials</i> , 2003, 15, 1073-1079.	3.2	38
34	Ferrocenyl and permethylferrocenyl cyclic and polyhedral siloxane polymers as mediators in amperometric biosensors. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 2799-2807.	0.8	38
35	Electrocatalytic reduction of carbon dioxide mediated by transition metal complexes with terdentate ligands derived from diacetylpyridine. <i>Inorganica Chimica Acta</i> , 2000, 300-302, 32-42.	1.2	37
36	Organometallic silicon-based dendrimers with peripheral Si-cyclopentadienyl, Si-Co and Si-Fe σ -bonds. <i>Inorganica Chimica Acta</i> , 1996, 251, 5-7.	1.2	35

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37	Electrodes modified with a siloxane copolymer containing interacting ferrocenes for determination of hydrogen peroxide and glucose. <i>Sensors and Actuators B: Chemical</i> , 2003, 88, 190-197.	4.0	34
38	{eta-6-(Organosilyl)arene}chromium tricarbonyl complexes: synthesis, characterization, and electrochemistry. <i>Organometallics</i> , 1992, 11, 1210-1220.	1.1	33
39	Mixed Cobaltocenium ⁺ /Ferrocene Heterobimetallic Complexes and Their Binding Interactions with β -Cyclodextrin. A Three-State, Host ⁺ /Guest System under Redox Control. <i>Organometallics</i> , 2002, 21, 3544-3551.	1.1	32
40	Synthesis and Redox Properties of an Electropolymerizable Amido Ferrocenyl Pyrrole-functionalized Dendrimer. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2008, 18, 51-58.	1.9	32
41	Preparation and Redox Properties of Novel Polymerizable Pyrrole- and Allyl-Functionalized Cobaltocenium Monomers and Siloxane-Based Cobaltocenium Polymers. <i>Organometallics</i> , 1999, 18, 4960-4969.	1.1	30
42	Anion Receptor Electrochemical Sensing Properties of Poly(propyleneimine) Dendrimers with Ferrocenylamidoalkyl Terminal Groups. <i>Organometallics</i> , 2009, 28, 727-733.	1.1	28
43	Electrochemical and bioelectrocatalytic properties of novel block-copolymers containing interacting ferrocenyl units. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 2803-2811.	0.8	27
44	Synthesis and Electrochemical Anion-Sensing Properties of a Biferrocenyl-Functionalized Dendrimer. <i>Organometallics</i> , 2012, 31, 3284-3291.	1.1	27
45	Reaction of (Chlorocarbonyl)metallocenes of Iron and Cobalt with 1,4-Diaminobutane: A Synthesis of a Heterobimetallic Ferrocene ⁺ /Cobaltocenium Complex. <i>Organometallics</i> , 2000, 19, 5518-5521.	1.1	24
46	Deprotonation of the complexes [Ru(arene)Cp] ⁺ PF ₆ ⁻ (arene = C ₆ Me ₆ and fluorene): X-ray crystal structure of [Ru(η -5-C ₆ Me ₅ CH ₂)Cp] and determination of the pK _a values using the iron analogues. <i>Journal of Organometallic Chemistry</i> , 1995, 502, 143-145.	0.8	23
47	Aza-Crown Ethers Attached to Dendrimers through Amidoferrocenyl Units. <i>Organometallics</i> , 2006, 25, 3558-3561.	1.1	22
48	Functionalization of linear and cyclic siloxanes and a dendritic carbosilane with (η -5-C ₅ H ₅)Fe(CO)2Si(CH ₃) ₂ CH ₂ via hydrosilylation reaction. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 1131-1137.	0.8	21
49	Synthesis and Electrochemistry of Octamethylferrocenyl-Functionalized Dendrimers. <i>Organometallics</i> , 2007, 26, 2688-2693.	1.1	21
50	A polymerizable pyrrole ⁺ cobaltocenium receptor for the electrochemical recognition of anions in solution and immobilised onto electrode surfaces. <i>Inorganic Chemistry Communication</i> , 2002, 5, 288-291.	1.8	20
51	Ferrocenyl Dendrimers Based on Octasilsesquioxane Cores. <i>Organometallics</i> , 2012, 31, 6344-6350.	1.1	20
52	Carbosilane based dendritic cores functionalized with interacting ferrocenyl units: synthesis and electrocatalytic properties. <i>New Journal of Chemistry</i> , 2011, 35, 2187.	1.4	17
53	Redox-Active Heterometallic Ferrocenylalkynyl Carbosilane Dendrimers Incorporating Os ₃ (CO) ₁₀ Clusters. <i>Organometallics</i> , 2010, 29, 4291-4297.	1.1	15
54	Thiolated DAB dendrimer/ZnSe nanoparticles for C-reactive protein recognition in human serum. <i>Talanta</i> , 2012, 99, 574-579.	2.9	15

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55	Electrocatalytic Properties of Carbosilane-Based Hyperbranched Polymers Functionalized with Interacting Ferrocenyl Units. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 44-53.	1.0	15
56	Multiperational Oxidase Biosensors Based on Carbosilane Dendrimers with Interacting Ferrocenes. <i>Electroanalysis</i> , 2011, 23, 2888-2897.	1.5	13
57	New acetaminophen amperometric sensor based on ferrocenyl dendrimers deposited onto Pt nanoparticles. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1551-1563.	1.2	13
58	Polyferrocenyl Polycyclosiloxane/Gold Nanoparticles: An Efficient Electrocatalytic Platform for Immobilization and Direct Electrochemistry of HRP. <i>Journal of the Electrochemical Society</i> , 2016, 163, H826-H833.	1.3	10
59	Inclusion of thiol DAB dendrimer/CdSe quantum dots based in a membrane structure: Surface and bulk membrane modification. <i>Electrochimica Acta</i> , 2013, 89, 652-659.	2.6	9
60	ZnS:Mn nanoparticles functionalized by PAMAM-OH dendrimer based fluorescence ratiometric probe for cadmium. <i>Talanta</i> , 2015, 134, 317-324.	2.9	9
61	Size-controlled gold nanoparticles obtained from electrodeposited amidoferrocenylpoly(propyleneimine) dendrimer-templates for the electrochemical sensing of dopamine. <i>Applied Surface Science</i> , 2017, 420, 651-660.	3.1	9
62	{gh6-Phenylmethylsila-14-crown-5}chromium tricarbonyl. Synthesis, characterization and electrochemical studies on the first example of an electroactive ionophore containing a silacrown. <i>Inorganica Chimica Acta</i> , 1991, 185, 33-37.	1.2	8
63	Hydrosilylation of Ferrocenylalkyne-Dicobalthexacarbonyl Complexes. Model Reactions for the Synthesis of Organometallic Dendrimers. <i>Organometallics</i> , 2011, 30, 1920-1929.	1.1	8
64	New Carbosilane Polymers with Interacting Ferrocenes as Support and Bioelectrocatalysts of Oxidases to Develop Versatile and Specific Amperometric Biodevices. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 1778-1791.	1.4	8
65	Three-dimensional electrocatalytic surface based on an octasilsesquioxane dendrimer for sensing applications. <i>Journal of Electroanalytical Chemistry</i> , 2019, 839, 16-24.	1.9	8
66	Synthesis and Electrochemistry of ((Diferrocenylsilyl)propyl)- and ((Triferrocenylsilyl)propyl)triethoxysilanes. <i>Organometallics</i> , 2013, 32, 5826-5833.	1.1	6
67	Easy Preparation of Electrode Surfaces with Dispersed Size-Controlled Au Nanoparticles by Electrodeposited PPI-Dendrimers as Templates. <i>Journal of the Electrochemical Society</i> , 2017, 164, H396-H406.	1.3	6
68	Efficient Oxidase Biosensors Based on Bioelectrocatalytic Surfaces of Electrodeposited Ferrocenyl Polycyclosiloxanes-Pt Nanoparticles. <i>Chemosensors</i> , 2021, 9, 81.	1.8	6
69	Monodispersed Size-Controlled Gold Nanoparticles from Electrodeposited Aminoferrocenyl Dendrimer-Templates and Their Application as Efficient Hydrogen Peroxide Electrocatalyst. <i>Journal of the Electrochemical Society</i> , 2018, 165, B310-B322.	1.3	5
70	Thiolated DAB Dendrimers-Gold Nanoparticles as Self-Assembled Layers for the Direct Electrochemistry of HRP. <i>Journal of the Electrochemical Society</i> , 2019, 166, B1434-B1440.	1.3	5
71	Component analysis of fluorescence spectra of thiol DAB dendrimer/ZnSe-PEA nanoparticles. <i>Talanta</i> , 2013, 105, 267-271.	2.9	4
72	Optical and Physicochemical Characterizations of a Cellulosic/CdSe-QDs@S-DAB5 Film. <i>Nanomaterials</i> , 2022, 12, 484.	1.9	4

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73	Covalently Cross-Linked Ferrocenyl PAMAMOS Dendrimer Networks. Australian Journal of Chemistry, 2011, 64, 147.	0.5	3
74	Ferrocenes and Other Sandwich Complexes of Iron. , 2021, , .		2
75	Synthesis, characterization and electrochemical behaviour of dimethyleneamine-bridged methylated and non-methylated biferrocenyl derivatives. Journal of Organometallic Chemistry, 2019, 896, 183-187.	0.8	1
76	Effective Recognition of H ₂ PO ⁴⁻ by a New Series of Dendrimers Functionalized with Ferrocenyl Urea Termini.. ChemInform, 2002, 33, 63-63.	0.1	0