Alain Walcarius

List of Publications by Year
in descending order

278 papers	14,382 citations	19657 61 h-index	27406 106 g-index
289 all docs	289 docs citations	289 times ranked	11085 citing authors

#	Article	IF	Citations
1	Carbon Paste Electrodes in Facts, Numbers, and Notes: A Review on the Occasion of the 50â€Years Jubilee of Carbon Paste in Electrochemistry and Electroanalysis. Electroanalysis, 2009, 21, 7-28.	2.9	584
2	Mesoporous materials and electrochemistry. Chemical Society Reviews, 2013, 42, 4098.	38.1	541
3	Mesoporous organosilica adsorbents: nanoengineered materials for removal of organic and inorganic pollutants. Journal of Materials Chemistry, 2010, 20, 4478.	6.7	519
4	Electrochemically assisted self-assembly of mesoporous silica thin films. Nature Materials, 2007, 6, 602-608.	27.5	487
5	Electrochemical Applications of Silica-Based Organicâ^'Inorganic Hybrid Materials. Chemistry of Materials, 2001, 13, 3351-3372.	6.7	355
6	Nanomaterials for bio-functionalized electrodes: recent trends. Journal of Materials Chemistry B, 2013, 1, 4878.	5.8	302
7	Rate of Access to the Binding Sites in Organically Modified Silicates. 2. Ordered Mesoporous Silicas Grafted with Amine or Thiol Groups. Chemistry of Materials, 2003, 15, 2161-2173.	6.7	274
8	Exciting new directions in the intersection of functionalized solâ€“gel materials with electrochemistry. Journal of Materials Chemistry, 2005, 15, 3663.	6.7	267
9	Analytical investigation of the chemical reactivity and stability of aminopropyl-grafted silica in aqueous medium. Talanta, 2003, 59, 1173-1188.	5.5	264
10	Zeolite-modified electrodes in electroanalytical chemistry. Analytica Chimica Acta, 1999, 384, 1-16.	5.4	220
11	Electroanalysis with Pure, Chemically Modified and Sol-Gel-Derived Silica-Based Materials. Electroanalysis, 2001, 13, 701-718.	2.9	208
12	Rate of Access to the Binding Sites in Organically Modified Silicates. 3. Effect of Structure and Density of Functional Groups in Mesoporous Solids Obtained by the Co-Condensation Route. Chemistry of Materials, 2003, 15, 4181-4192.	6.7	203
13	Molecular Transport into Mesostructured Silica Thin Films:Â Electrochemical Monitoring and Comparison betweenp6m, P63/mmc, andPm3nStructures. Chemistry of Materials, 2007, 19, 844-856.	6.7	177
14	Analytical Chemistry with Silica Sol-Gels: Traditional Routes to New Materials for Chemical Analysis. Annual Review of Analytical Chemistry, 2009, 2, 121-143.	5.4	168
15	Oriented Mesoporous Silica Films Obtained by Electro-Assisted Self-Assembly (EASA). Chemistry of Materials, 2009, 21, 731-741.	6.7	168
16	Ordered porous thin films in electrochemical analysis. TrAC - Trends in Analytical Chemistry, 2008, 27, 593-603.	11.4	162
17	Zeolite-modified carbon paste electrode for selective monitoring of dopamine. Journal of Electroanalytical Chemistry, 1996, 407, 183-187.	3.8	152
18	Rate of Access to the Binding Sites in Organically Modified Silicates. 1. Amorphous Silica Gels Grafted with Amine or Thiol Groups. Chemistry of Materials, 2002, 14, 2757-2766.	6.7	151

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19	Mercury(II) binding to thiol-functionalized mesoporous silicas: critical effect of pH and sorbent properties on capacity and selectivity. Analytica Chimica Acta, 2005, 547, 3-13.	5.4	148
20	Electroanalytical Applications of Microporous Zeolites and Mesoporous (Organo)Silicas: Recent Trends. Electroanalysis, 2008, 20, 711-738.	2.9	145
21	Zeolite-modified electrodes: Analytical applications and prospects. Electroanalysis, 1996, 8, 971-986.	2.9	139
22	Electrocatalysis, sensors and biosensors in analytical chemistry based on ordered mesoporous and macroporous carbon-modified electrodes. TrAC - Trends in Analytical Chemistry, 2012, 38, 79-97.	11.4	132
23	Direct electrochemistry of hemoglobin and glucose oxidase in electrodeposited solâ€“gel silica thin films on glassy carbon. Electrochemistry Communications, 2007, 9, 1189-1195.	4.7	131
24	Analytical Applications of Silica-Modified Electrodes -A Comprehensive Review. Electroanalysis, 1998, 10, 1217-1235.	2.9	130
25	Mesoporous Silica Thin Films for Improved Electrochemical Detection of Paraquat. ACS Sensors, 2018, 3, 484-493.	7.8	127
26	Voltammetric detection of copper(II) at a carbon paste electrode containing an organically modified silica. Sensors and Actuators B: Chemical, 2001, 76, 531-538.	7.8	124
27	Bifunctionalized Mesoporous Silicas for Cr(VI) Reduction and Concomitant Cr(III) Immobilization. Environmental Science & Technology, 2008, 42, 6922-6928.	10.0	123
28	Analytical Applications of Silica-Modified Electrodes â€“A Comprehensive Review. Electroanalysis, 1998, 10, 1217-1235.	2.9	116
29	Surfactant Templated Sulfonic Acid Functionalized Silica Microspheres as New Efficient Ion Exchangers and Electrode Modifiers. Langmuir, 2004, 20, 3632-3640.	3.5	113
30	Mesoporous Materialsâ€Based Electrochemical Sensors. Electroanalysis, 2015, 27, 1303-1340.	2.9	111
31	Functionalization of natural smectite-type clays by grafting with organosilanes: physico-chemical characterization and application to mercury(ii) uptake. Physical Chemistry Chemical Physics, 2003, 5, 4951.	2.8	109
32	Carbon paste electrodes in the new millennium. Open Chemistry, 2009, 7, 598-656.	1.9	109
33	Template-directed porous electrodes in electroanalysis. Analytical and Bioanalytical Chemistry, 2010, 396, 261-272.	3.7	103
34	Silica-based electrochemical sensors and biosensors: Recent trends. Current Opinion in Electrochemistry, 2018, 10, 88-97.	4.8	99
35	Preconcentration and voltammetric analysis of mercury(II) at a carbon paste electrode modified with natural smectite-type clays grafted with organic chelating groups. Sensors and Actuators B: Chemical, 2005, 110, 195-203.	7.8	96
36	Electrocatalytic H2O2 amperometric detection using gold nanotube electrode ensembles. Analytica Chimica Acta, 2004, 525, 221-230.	5.4	95

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37	Grafted Silicas in Electroanalysis: Amorphous Versus Ordered Mesoporous Materials. Electroanalysis, 2003, 15, 414-421.	2.9	88
38	Impact of mesoporous silica-based materials on electrochemistry and feedback from electrochemical science to the characterization of these ordered materials. Comptes Rendus Chimie, 2005, 8, 693-712.	0.5	88
39	Electrochemical analysis of methylparathion pesticide by a gemini surfactant-intercalated clay-modified electrode. Talanta, 2010, 81, 972-979.	5.5	86
40	From clay- to organoclay-film modified electrodes: tuning charge selectivity in ion exchange voltammetry. Electrochimica Acta, 2004, 49, 3435-3443.	5.2	85
41	Factors Affecting the Preparation and Properties of Electrodeposited Silica Thin Films Functionalized with Amine or Thiol Groups. Langmuir, 2006, 22, 8366-8373.	3.5	82
42	One-Step Preparation of Thiol-Functionalized Porous Clay Heterostructures: Application to Hg(II) Binding and Characterization of Mass Transport Issues. Chemistry of Materials, 2009, 21, 4111-4121.	6.7	82
43	Oriented Mesoporous Organosilica Films on Electrode: A New Class of Nanomaterials for Sensing. Journal of Nanoscience and Nanotechnology, 2009, 9, 2398-2406.	0.9	81
44	The methyl viologen incorporated zeolite modified carbon paste electrodeâ€"part 1. Electrochemical behaviour in aqueous media. Effects of supporting electrolyte and immersion time. Electrochimica Acta, 1993, 38, 2257-2266.	5.2	80
45	Electrochemical evaluation of polysiloxane-immobilized amine ligands for the accumulation of copper(II) species. Electrochimica Acta, 1999, 44, 4601-4610.	5.2	79
46	Bienzyme HRPâ€"GOx-modified gold nanoelectrodes for the sensitive amperometric detection of glucose at low overpotentials. Biosensors and Bioelectronics, 2005, 20, 1587-1594.	10.1	79
47	Electrochemically Assisted Generation of Highly Ordered Azideâ€Functionalized Mesoporous Silica for Oriented Hybrid Films. Angewandte Chemie - International Edition, 2014, 53, 2945-2950.	13.8	79
48	Electro-assisted generation of functionalized silica films on gold. Electrochemistry Communications, 2003, 5, 341-348.	4.7	78
49	Square wave voltammetric determination of paraquat and diquat in aqueous solution. Journal of Electroanalytical Chemistry, 1996, 406, 59-68.	3.8	73
50	Factors affecting the reactivity of thiol-functionalized mesoporous silica adsorbents toward mercury(II). Talanta, 2009, 79, 877-886.	5.5	72
51	Factors affecting the analytical applications of zeolite-modified electrodes preconcentration of electroactive species. Analytica Chimica Acta, 1997, 340, 61-76.	5.4	71
52	Electrochemical approaches for the fabrication and/or characterization of pure and hybrid templated mesoporous oxide thin films: a review. Analytical and Bioanalytical Chemistry, 2013, 405, 1497-1512.	3.7	71
53	Sorption of methylene blue on an organoclay bearing thiol groups and application to electrochemical sensing of the dye. Talanta, 2008, 74, 489-497.	5.5	70
54	Positronium reemission yield from mesostructured silica films. Applied Physics Letters, 2008, 92, .	3.3	70

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55	Organically-modified mesoporous silica spheres with MCM-41 architecture. New Journal of Chemistry, 2002, 26, 384-386.	2.8	69
56	Preparing Catalytic Surfaces for Sensing Applications by Immobilizing Enzymes via Hydrophobin Layers. Analytical Chemistry, 2005, 77, 1622-1630.	6.5	67
57	Chromium(VI) removal via reductionâ€“sorption on bi-functional silica adsorbents. Journal of Hazardous Materials, 2013, 250-251, 454-461.	12.4	67
58	Uptake of inorganic HgII by organically modified silicates: influence of pH and chloride concentration on the binding pathways and electrochemical monitoring of the processes. Analytica Chimica Acta, 2004, 508, 87-98.	5.4	65
59	Covalent Immobilization of (2,2â€²-Bipyridyl) (Pentamethylcyclopentadienyl)-Rhodium Complex on a Porous Carbon Electrode for Efficient Electrocatalytic NADH Regeneration. ACS Catalysis, 2017, 7, 4386-4394.	11.2	65
60	Screen-printed zeolite-modified carbon electrodes. Analyst, The, 1999, 124, 1185-1190.	3.5	64
61	Electrochemical sensors and biosensors based on heterogeneous carbon materials. Monatshefte FÃ¼r Chemie, 2009, 140, 861-889.	1.8	64
62	Evaporation induced self-assembly of templated silica and organosilica thin films on various electrode surfaces. Electrochemistry Communications, 2005, 7, 1449-1456.	4.7	63
63	Naphthidine di(radical cation)s-stabilized palladium nanoparticles for efficient catalytic Suzukiâ€“Miyaura cross-coupling reactions. Tetrahedron, 2008, 64, 372-381.	1.9	63
64	Square Wave Voltammetric Determination of Lead(II) Ions Using a Carbon Paste Electrode Modified by a Thiolâ€Functionalized Kaolinite. Electroanalysis, 2011, 23, 245-252.	2.9	63
65	Electrogeneration of highly methylated mesoporous silica thin films with vertically-aligned mesochannels and electrochemical monitoring of mass transport issues. Journal of Materials Chemistry, 2010, 20, 6799.	6.7	62
66	Zeolite containing oxidase-based carbon paste biosensors. Journal of Electroanalytical Chemistry, 1996, 404, 237-242.	3.8	61
67	Development of a urea biosensor based on a polymeric membrane including zeolite. Analytica Chimica Acta, 2002, 466, 39-45.	5.4	60
68	Electrochemically-Induced Deposition of Amine-Functionalized Silica Films on Gold Electrodes and Application to Cu(II) Detection in (Hydro)Alcoholic Medium. Electroanalysis, 2005, 17, 1716-1726.	2.9	60
69	Recent Trends on Electrochemical Sensors Based on Ordered Mesoporous Carbon. Sensors, 2017, 17, 1863.	3.8	60
70	Mesoporous Silica-Based Materials for Electronics-Oriented Applications. Molecules, 2019, 24, 2395.	3.8	59
71	Molecular Sieving with Vertically Aligned Mesoporous Silica Films and Electronic Wiring through Isolating Nanochannels. Chemistry of Materials, 2016, 28, 2511-2514.	6.7	58
72	Conductometric enzyme biosensors based on natural zeolite clinoptilolite for urea determination. Materials Science and Engineering C, 2011, 31, 1490-1497.	7.3	56

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73	Selective monitoring of Cu(II) species using a silica modified carbon paste electrode. Analytica Chimica Acta, 1999, 385, 79-89.	5.4	52
74	Electrochemically assisted self-assembly of ordered and functionalized mesoporous silica films: impact of the electrode geometry and size on film formation and properties. Faraday Discussions, 2013, 164, 259.	3.2	52
75	Tuning the Sensitivity of Electrodes Modified with an Organic-Inorganic Hybrid by Tailoring the Structure of the Nanocomposite Material. Electroanalysis, 2002, 14, 1521-1525.	2.9	51
76	Prussian Blue electrodeposition within an oriented mesoporous silica film: preliminary observations. Journal of Materials Science, 2009, 44, 6601-6607.	3.7	50
77	Factors affecting the electrochemical regeneration of NADH by (2,2â€²-bipyridyl) (pentamethylcyclopentadienyl)-rhodium complexes: Impact on their immobilization onto electrode surfaces. Bioelectrochemistry, 2011, 82, 46-54.	4.6	50
78	Voltammetric in situ investigation of an MCM-41-modified carbon paste electrodeâ€”a new sensor. Journal of Electroanalytical Chemistry, 1998, 453, 249-252.	3.8	49
79	Factors affecting the analytical applications of zeolite modified electrodes: indirect detection of nonelectroactive cations. Analytica Chimica Acta, 1999, 388, 79-91.	5.4	49
80	Mesoporous silica thin films for molecular sieving and electrode surface protection against biofouling. Electrochemistry Communications, 2015, 52, 34-36.	4.7	49
81	Voltammetric detection of caffeine in pharmacological and beverages samples based on simple nano-Co (II, III) oxide modified carbon paste electrode in aqueous and micellar media. Sensors and Actuators B: Chemical, 2020, 302, 127172.	7.8	49
82	The methyl viologen incorporated zeolite modified carbon paste electrodeâ€”part 2. Ion exchange and electron transfer mechanism in aqueous medium. Electrochimica Acta, 1993, 38, 2267-2276.	5.2	48
83	Flow Injection Amperometric Detection at Enzyme-Modified Gold Nanoelectrodes. Electroanalysis, 2004, 16, 190-198.	2.9	48
84	Electrochemical Generation of Thin Silica Films with Hierarchical Porosity. Chemistry of Materials, 2010, 22, 3426-3432.	6.7	48
85	Mesoporous Materialsâ€Based Electrochemical Enzymatic Biosensors. Electroanalysis, 2015, 27, 2028-2054.	2.9	48
86	Durable cofactor immobilization in solâ€“gel bio-composite thin films for reagentless biosensors and bioreactors using dehydrogenases. Biosensors and Bioelectronics, 2012, 32, 111-117.	10.1	47
87	Ion-Exchange Properties and Electrochemical Characterization of Quaternary Ammonium-Functionalized Silica Microspheres Obtained by the Surfactant Template Route. Langmuir, 2006, 22, 469-477.	3.5	46
88	Organoclay-enzyme film electrodes. Analytica Chimica Acta, 2006, 578, 145-155.	5.4	46
89	Investigation of alendronate-doped apatitic cements as a potential technology for the prevention of osteoporotic hip fractures: Critical influence of the drug introduction mode on the in vitro cement properties. Acta Biomaterialia, 2011, 7, 759-770.	8.3	46
90	Verticallyâ€aligned Mesoporous Silica Films. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 537-546.	1.2	46

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91	Electrochemical response of vertically-aligned, ferrocene-functionalized mesoporous silica films: effect of the supporting electrolyte. Electrochimica Acta, 2015, 179, 304-314.	5.2	46
92	Electrografting of 3-Aminopropyltriethoxysilane on a Glassy Carbon Electrode for the Improved Adhesion of Vertically Oriented Mesoporous Silica Thin Films. Langmuir, 2016, 32, 4323-4332.	3.5	46
93	Cation determination in aqueous solution using the methyl viologen-doped zeolite-modified carbon paste electrode. Electroanalysis, 1995, 7, 120-128.	2.9	44
94	Electrochemical Detection of Copper(II) at an Electrode Modified by a Carnosine-Silica Hybrid Material. Electroanalysis, 2003, 15, 422-430.	2.9	43
95	Electrochemical probing of mass transfer rates in mesoporous silica-based organicâ€“inorganic hybrids. Electrochimica Acta, 2004, 49, 3775-3783.	5.2	43
96	Voltammetric Detection of Iodide after Accumulationby Friedel's Salt. Electroanalysis, 2001, 13, 313-320.	2.9	41
97	Preconcentration Electroanalysis at Surfactant-Templated Thiol-Functionalized Silica Thin Films. Electroanalysis, 2007, 19, 129-138.	2.9	41
98	Thiol-functionalized porous clay heterostructures (PCHs) deposited as thin films on carbon electrode: Towards mercury(II) sensing. Sensors and Actuators B: Chemical, 2007, 121, 113-123.	7.8	40
99	One-step preparation of thiol-modified mesoporous silica spheres with various functionalization levels and different pore structures. Journal of Sol-Gel Science and Technology, 2009, 49, 112-124.	2.4	40
100	Electrochemical response of ascorbic and uric acids at organoclay film modified glassy carbon electrodes and sensing applications. Talanta, 2011, 85, 754-762.	5.5	40
101	Electrochemistry with Mesoporous Silica:â€‰ Selective Mercury(II) Binding. Chemistry of Materials, 1999, 11, 3009-3011.	6.7	39
102	Ordered mesoporous silica films with pores oriented perpendicular to a titanium nitride substrate. Physical Chemistry Chemical Physics, 2015, 17, 4763-4770.	2.8	39
103	Multiarm Cyclam-Grafted Mesoporous Silica: A Strategy to Improve the Chemical Stability of Silica Materials Functionalized with Amine Ligands. Langmuir, 2009, 25, 3137-3145.	3.5	38
104	Clickable Bifunctional and Vertically Aligned Mesoporous Silica Films. Advanced Materials Interfaces, 2016, 3, 1500440.	3.7	38
105	Electroinduced Surfactant Self-Assembly Driven to Vertical Growth of Oriented Mesoporous Films. Accounts of Chemical Research, 2021, 54, 3563-3575.	15.6	38
106	Electrochemically Assisted Generation of Silica Deposits Using a Surfactant Template at Liquid/Liquid Microinterfaces. Langmuir, 2014, 30, 11453-11463.	3.5	37
107	Amino-attapulgite/mesoporous silica composite films generated by electro-assisted self-assembly for the voltammetric determination of diclofenac. Sensors and Actuators B: Chemical, 2019, 287, 296-305.	7.8	37
108	Silica-modified electrode for the selective detection of mercury. Journal of Solid State Electrochemistry, 2000, 4, 330-336.	2.5	36

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109	An aqueous route to organically functionalized silica diatom skeletons. Applied Surface Science, 2007, 253, 5485-5493.	6.1	36
110	Factors Affecting Copper(II) Binding to Multiarmed Cyclam-Grafted Mesoporous Silica in Aqueous Solution. Langmuir, 2009, 25, 9804-9813.	3.5	36
111	Electrogeneration of ultra-thin silica films for the functionalization of macroporous electrodes. Electrochemistry Communications, 2011, 13, 138-142.	4.7	36
112	Microscale Controlled Electrogeneration of Patterned Mesoporous Silica Thin Films. Chemistry of Materials, 2011, 23, 5313-5322.	6.7	35
113	Cuprite-modified electrode for the detection of iodide species. Sensors and Actuators B: Chemical, 1999, 59, 113-117.	7.8	34
114	Electrochemically assisted deposition of solâ€“gel bio-composite with co-immobilized dehydrogenase and diaphorase. Electrochimica Acta, 2011, 56, 9032-9040.	5.2	34
115	Immobilization of Cysteine-Tagged Proteins on Electrode Surfaces by Thiolâ€“Ene Click Chemistry. ACS Applied Materials & Interfaces, 2016, 8, 17591-17598.	8.0	34
116	Quaternary ammonium functionalized clay film electrodes modified with polyphenol oxidase for the sensitive detection of catechol. Biosensors and Bioelectronics, 2007, 23, 269-275.	10.1	33
117	Voltammetric Detection of Lead(II) Using Amideâ€Cyclamâ€Functionalized Silicaâ€Modified Carbon Paste Electrodes. Electroanalysis, 2009, 21, 1731-1742.	2.9	33
118	Amplified Charge Transfer for Anionic Redox Probes through Oriented Mesoporous Silica Thin Films. ChemElectroChem, 2016, 3, 2130-2137.	3.4	33
119	Electrochemical Recognition of Selective Mercury Adsorption on Minerals. Environmental Science & Technology, 1999, 33, 4278-4284.	10.0	32
120	Dipeptide-functionalized mesoporous silica spheres. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 234, 145-151.	4.7	32
121	Electrochemical evidences of morphological transformation in ordered mesoporous titanium oxide thin films. Chemical Communications, 2005, , 4566.	4.1	32
122	Permselective and Preconcentration Properties of a Surfactant-Intercalated Clay Modified Electrode. Electroanalysis, 2006, 18, 2243-2250.	2.9	32
123	Zeolite-modified solid carbon paste electrodes. Journal of Solid State Electrochemistry, 2003, 7, 671-677.	2.5	31
124	Ion exchange and ion exchange voltammetry with functionalized mesoporous silica materials. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 149, 123-132.	3.5	31
125	Electrochemically assisted deposition by local pH tuning: a versatile tool to generate ordered mesoporous silica thin films and layered double hydroxide materials. Journal of Solid State Electrochemistry, 2015, 19, 1905-1931.	2.5	31
126	Synthesis of new dithiocarbamate-based organosilanes for grafting on silica. Tetrahedron Letters, 2007, 48, 2113-2116.	1.4	30

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127	Iron-enriched natural zeolite modified carbon paste electrode for H2O2 detection. Electrochimica Acta, 2010, 55, 4050-4056.	5.2	30
128	Decorating soft electrified interfaces: From molecular assemblies to nano-objects. Applied Materials Today, 2017, 9, 533-550.	4.3	30
129	Flow injection indirect amperometric detection of ammonium ions using a clinoptilolite-modified electrode. Sensors and Actuators B: Chemical, 1999, 56, 136-143.	7.8	29
130	Analytical Investigation of the Interactions between SC3 Hydrophobin and Lipid Layers:Â Elaborating of Nanostructured Matrixes for Immobilizing Redox Systems. Analytical Chemistry, 2006, 78, 4850-4864.	6.5	29
131	Voltammetric response of ferrocene-grafted mesoporous silica. Electrochimica Acta, 2006, 51, 6373-6383.	5.2	29
132	Zeolite-modified paraffin-impregnated graphite electrode. Journal of Solid State Electrochemistry, 2006, 10, 469-478.	2.5	29
133	Surfactant-templated solâ€“gel silica thin films bearing 5-mercapto-1-methyl-tetrazole on carbon electrode for Hg(II) detection. Electrochimica Acta, 2010, 55, 4201-4207.	5.2	29
134	In-situ formation of mesoporous silica films controlled by ion transfer voltammetry at the polarized liquidâ€“liquid interface. Electrochemistry Communications, 2013, 37, 76-79.	4.7	29
135	Organoclay-modified electrodes: preparation, characterization and recent electroanalytical applications. Journal of Solid State Electrochemistry, 2015, 19, 1949-1973.	2.5	29
136	Electrocatalytic Biosynthesis using a Bucky Paper Functionalized by [Cp*Rh(bpy)Cl]⁺ and a Renewable Enzymatic Layer. ChemCatChem, 2018, 10, 4067-4073.	3.7	29
137	Cu Nanodendrite Foams on Integrated Band Array Electrodes for the Nonenzymatic Detection of Glucose. ACS Applied Nano Materials, 2019, 2, 5878-5889.	5.0	29
138	Cyclamâ€Functionalized Silicaâ€Modified Electrodes for Selective Determination of Cu(II). Electroanalysis, 2009, 21, 280-289.	2.9	28
139	Glassy carbon electrode modified with a film of poly(Toluidine Blue O) and carbon nanotubes for nitrite detection. Journal of Solid State Electrochemistry, 2014, 18, 1519-1528.	2.5	28
140	One-step co-intercalation of cetyltrimethylammonium and thiourea in smectite and application of the organoclay to the sensitive electrochemical detection of Pb(II). Applied Clay Science, 2014, 99, 297-305.	5.2	28
141	Low Temperature Synthesis of Zeolite Films on Glassy Carbon: Towards Designing Molecularly Selective Electrochemical Devices. Electroanalysis, 2004, 16, 1550-1554.	2.9	27
142	Dehydrogenaseâ€Based Reagentless Biosensors: Electrochemically Assisted Deposition of Solâ€Gel Thin Films on Functionalized Carbon Nanotubes. Electroanalysis, 2012, 24, 376-385.	2.9	27
143	Electrochemically assisted bacteria encapsulation in thin hybrid solâ€“gel films. Journal of Materials Chemistry B, 2013, 1, 1052.	5.8	26
144	Electro-Assisted Self-Assembly of Cetyltrimethylammonium-Templated Silica Films in Aqueous Media: Critical Effect of Counteranions on the Morphology and Mesostructure Type. Chemistry of Materials, 2014, 26, 1848-1858.	6.7	26

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145	Electrochemical characterization of liquid-liquid micro-interfaces modified with mesoporous silica. Electrochimica Acta, 2015, 179, 9-15.	5.2	26
146	Use of a zeolite-modified electrode for the study of the methylviologenâ€“sodium ion-exchange in zeolite Y. Journal of Electroanalytical Chemistry, 1999, 463, 100-108.	3.8	25
147	Amperometric Detection of Nonelectroactive Cations in Electrolyte-Free Flow Systems at Zeolite Modified Electrodes. Electroanalysis, 1999, 11, 393-400.	2.9	25
148	Facile Synthesis and Characterization of Naphthidines as a New Class of Highly Nonplanar Electron Donors Giving Robust Radical Cations. Journal of Organic Chemistry, 2006, 71, 1351-1361.	3.2	25
149	Multi-layered, vertically-aligned and functionalized mesoporous silica films generated by sequential electrochemically assisted self-assembly. Electrochimica Acta, 2017, 237, 227-236.	5.2	25
150	Development of an ammonium ISFET sensor with a polymeric membrane including zeolite. Materials Science and Engineering C, 2002, 21, 25-28.	7.3	24
151	Electroanalytical properties of haemoglobin in silica-nanocomposite films electrogenerated on pyrolitic graphite electrode. Journal of Electroanalytical Chemistry, 2009, 625, 33-39.	3.8	24
152	Bimodal mesoporous titanium dioxide anatase films templated by a block polymer and an ionic liquid: influence of the porosity on the permeability. Nanoscale, 2013, 5, 12316.	5.6	24
153	Structure-reactivity requirements with respect to nickel-salen based polymers for enhanced electrochemical stability. Electrochimica Acta, 2019, 315, 75-83.	5.2	24
154	Electrochemical modulation of the ligand properties of organically modified mesoporous silicas. Journal of Electroanalytical Chemistry, 2005, 581, 70-78.	3.8	23
155	Platinum Ultramicroelectrodes Modified with Electrogenerated Surfactantâ€Templated Mesoporous Organosilica Films: Effect of Film Formation Conditions on Its Performance in Preconcentration Electroanalysis. Electroanalysis, 2013, 25, 2595-2603.	2.9	23
156	Voltammetric response of the hexammino-ruthenium complex incorporated in zeolite-modified carbon paste electrode. Journal of Electroanalytical Chemistry, 1997, 422, 77-89.	3.8	22
157	Clay-mesoporous silica composite films generated by electro-assisted self-assembly. Electrochimica Acta, 2013, 112, 333-341.	5.2	22
158	Amperometric Biosensor for Choline Based on Gold Screenâ€Printed Electrode Modified with Electrochemicallyâ€Deposited Silica Biocomposite. Electroanalysis, 2015, 27, 1685-1692.	2.9	22
159	Molecular and Biological Catalysts Coimmobilization on Electrode by Combining Diazonium Electrografting and Sequential Click Chemistry. ChemElectroChem, 2018, 5, 2208-2217.	3.4	22
160	Coordination Polymers as Template for Mesoporous Silica Films: A Novel Composite Material Fe(Htrz)₃@SiO₂with Remarkable Electrochemical Properties. Chemistry of Materials, 2019, 31, 5796-5807.	6.7	22
161	Layer-by-Layer modification of graphite felt with MWCNT for vanadium redox flow battery. Electrochimica Acta, 2019, 313, 131-140.	5.2	22
162	Influence of the Base Size and Strength on the Acidic Properties of Silica Gel and Monodispersed Silica Beads:Â Interest of Impedance Measurements for the in Situ Monitoring of the Ionization Process. Langmuir, 1999, 15, 3186-3196.	3.5	21

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