

Alain Walcarius

List of Publications by Year in descending order

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278
papers

14,382
citations

19657

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27406

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289
all docs

289
docs citations

289
times ranked

11085
citing authors

#	ARTICLE	IF	CITATIONS
1	A hybrid electrochemical flow reactor to couple H ₂ oxidation to NADH regeneration for biochemical reactions. <i>Electrochemical Science Advances</i> , 2022, 2, e202100012.	2.8	3
2	Preparation of Functionalized <i>Ayous</i> Sawdust-Carbon Nanotubes Composite for the Electrochemical Determination of Carbendazim Pesticide. <i>Electroanalysis</i> , 2022, 34, 667-676.	2.9	9
3	Multiphase chemical engineering as a tool in modelling electromediated reactions- example of Rh complex-mediated regeneration of NADH. <i>Chemical Engineering Science</i> , 2022, 247, 117055.	3.8	2
4	Fabrication of Polyaniline (PANI) through Parallel Nanopores: Charge Transport Properties of PANI@SiO ₂ Nanopore Molecular Junctions. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 065009.	1.8	2
5	Electrochemically Assisted Deposition of Nanoporous Silica Membranes on Gold Electrodes: Effect of 3-Mercaptopropyl(trimethoxysilane) on Molecular Glue-Film Formation, Permeability and Metal Underpotential Deposition. <i>ChemElectroChem</i> , 2021, 8, 142-150.	3.4	8
6	A Sensitive Electrochemical Sensor for Moxifloxacin Hydrochloride Based on Nafion/Graphene Oxide/Zelite Modified Carbon Paste Electrode. <i>Electroanalysis</i> , 2021, 33, 964-974.	2.9	20
7	Electrografting and electropolymerization of nanoarrays of PANI filaments through silica mesochannels. <i>Electrochemistry Communications</i> , 2021, 122, 106896.	4.7	15
8	Electron transfers in graphitized HZSM-5 zeolites. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1914-1922.	2.8	1
9	Electroactive organically modified mesoporous silicates on graphene oxide-graphite 3D architectures operating with electron-hopping for high rate energy storage. <i>Electrochimica Acta</i> , 2021, 366, 137407.	5.2	8
10	Electrochemically assisted polyamide deposition at three-phase junction. <i>Electrochemistry Communications</i> , 2021, 123, 106910.	4.7	5
11	Electrogeneration of a Free-Standing Cytochrome c-Silica Matrix at a Soft Electrified Interface. <i>Langmuir</i> , 2021, 37, 4033-4041.	3.5	9
12	Synthesis of Vertically Aligned Porous Silica Thin Films Functionalized by Silver Ions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7505.	4.1	4
13	Electroinduced Surfactant Self-Assembly Driven to Vertical Growth of Oriented Mesoporous Films. <i>Accounts of Chemical Research</i> , 2021, 54, 3563-3575.	15.6	38
14	Electrochemical stripping analysis from micro-counter electrode. <i>Electrochimica Acta</i> , 2021, 393, 139095.	5.2	3
15	Polyaniline nanowire arrays generated through oriented mesoporous silica films: effect of pore size and spectroelectrochemical response. <i>Faraday Discussions</i> , 2021, 233, 77-99.	3.2	7
16	Switchable voltammetric response of electrodes modified with a mesoporous silica thin film and a polyelectrolyte multilayer. <i>Electrochemistry Communications</i> , 2021, 132, 107142.	4.7	1
17	Multi-Stimuli Photo and Redox-Active Nanostructured Mesoporous Silica Films on Transparent Electrodes. <i>ChemPhysChem</i> , 2021, 22, 2464-2477.	2.1	4
18	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. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127172.	7.8	49

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19	Non-covalent Immobilization of Iron-triazole ($\text{Fe}(\text{Htrz})_3$) Molecular Mediator in Mesoporous Silica Films for the Electrochemical Detection of Hydrogen Peroxide. <i>Electroanalysis</i> , 2020, 32, 690-697.	2.9	14
20	Bis(terpyridine) Iron(II) Functionalized Vertically-Oriented Nanostructured Silica Films: Toward Electrochromic Materials. <i>Frontiers in Chemistry</i> , 2020, 8, 830.	3.6	14
21	An imidazolium ionic liquid as effective structure-directing agent for the fabrication of silica thin films with vertically aligned nanochannels. <i>Microporous and Mesoporous Materials</i> , 2020, , 110407.	4.4	8
22	Local removal of oxygen for NAD(P) ⁺ detection in aerated solutions. <i>Electrochimica Acta</i> , 2020, 353, 136546.	5.2	5
23	Signal amplification by electro-oligomerisation for improved isoproturon detection. <i>Talanta</i> , 2020, 220, 121347.	5.5	11
24	Redox-Active Vertically Aligned Mesoporous Silica Thin Films as Transparent Surfaces for Energy Storage Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24262-24270.	8.0	20
25	Moxifloxacin Hydrochloride Electrochemical Detection at Gold Nanoparticles Modified Screen-Printed Electrode. <i>Sensors</i> , 2020, 20, 2797.	3.8	19
26	Promises of the "Nano-World" for electrochemical sensing and energy devices. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2189-2191.	2.5	1
27	Permeability of Dawson-type polyoxometalates through vertically oriented nanoporous silica membranes on electrode: Effect of pore size and probe charge. <i>Electrochimica Acta</i> , 2020, 353, 136577.	5.2	3
28	Scanning Gel Electrochemical Microscopy (SGECM): Lateral Physical Resolution by Current and Shear Force Feedback. <i>Analytical Chemistry</i> , 2020, 92, 6415-6422.	6.5	11
29	Voltammetric behaviour of cationic redox probes at mesoporous silica film electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2020, 872, 113993.	3.8	17
30	Selective Detection of Cysteine at a Mesoporous Silica Film Electrode Functionalized with Ferrocene in the Presence of Glutathione. <i>ChemElectroChem</i> , 2020, 7, 2095-2101.	3.4	17
31	Amino-grafting of montmorillonite improved by acid activation and application to the electroanalysis of catechol. <i>Applied Clay Science</i> , 2020, 191, 105602.	5.2	11
32	Cu Nanodendrite Foams on Integrated Band Array Electrodes for the Nonenzymatic Detection of Glucose. <i>ACS Applied Nano Materials</i> , 2019, 2, 5878-5889.	5.0	29
33	Sensitive Determination of Acetaminophen in the Presence of Dopamine and Pyridoxine Facilitated by their Extent of Interaction with Single-walled Carbon Nanotubes. <i>Electroanalysis</i> , 2019, 31, 2472-2479.	2.9	8
34	Coordination Polymers as Template for Mesoporous Silica Films: A Novel Composite Material $\text{Fe}(\text{Htrz})_3 @ \text{SiO}_2$ with Remarkable Electrochemical Properties. <i>Chemistry of Materials</i> , 2019, 31, 5796-5807.	6.7	22
35	Mesoporous Silica-Based Materials for Electronics-Oriented Applications. <i>Molecules</i> , 2019, 24, 2395.	3.8	59
36	Thickness control in electrogenerated mesoporous silica films by wet etching and electrochemical monitoring of the process. <i>Electrochemistry Communications</i> , 2019, 100, 11-15.	4.7	4

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37	Structure-reactivity requirements with respect to nickel-salen based polymers for enhanced electrochemical stability. <i>Electrochimica Acta</i> , 2019, 315, 75-83.	5.2	24
38	Evaluation of the electrocatalytic properties of Tungsten electrode towards hydrogen evolution reaction in acidic solutions. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16487-16496.	7.1	18
39	Layer-by-Layer modification of graphite felt with MWCNT for vanadium redox flow battery. <i>Electrochimica Acta</i> , 2019, 313, 131-140.	5.2	22
40	Synthesis, Crystal Structure, Electrochemistry and Electro-Catalytic Properties of the Manganese-Containing Polyoxotungstate, $[(\text{Mn}(\text{H}_2\text{O})_3)_2(\text{H}_2\text{W}_{12}\text{O}_{42})]^{6-}$. <i>Inorganics</i> , 2019, 7, 15.	2.7	12
41	Voltammetric and microscopic characteristics of MnO_2 and silica- MnO_2 hybrid films electrodeposited on the surface of planar electrodes. <i>Electrochimica Acta</i> , 2019, 306, 680-687.	5.2	12
42	pH-modulated ion transport and amplified redox response of Keggin-type polyoxometalates through vertically-oriented mesoporous silica nanochannels. <i>Electrochimica Acta</i> , 2019, 309, 209-218.	5.2	17
43	Amino-attapulgite/mesoporous silica composite films generated by electro-assisted self-assembly for the voltammetric determination of diclofenac. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 296-305.	7.8	37
44	Multi-step functionalization procedure for fabrication of vertically aligned mesoporous silica thin films with metal-containing molecules localized at the pores bottom. <i>Microporous and Mesoporous Materials</i> , 2019, 274, 356-362.	4.4	17
45	Critical Effect of Film Thickness on Preconcentration Electroanalysis with Oriented Mesoporous Silica Modified Electrodes. <i>Electroanalysis</i> , 2019, 31, 202-207.	2.9	12
46	Porous and Transparent Metal Oxide Electrodes: Preparation Methods and Electroanalytical Application Prospects. <i>Electroanalysis</i> , 2018, 30, 1241-1258.	2.9	15
47	Mesoporous Silica Thin Films for Improved Electrochemical Detection of Paraquat. <i>ACS Sensors</i> , 2018, 3, 484-493.	7.8	127
48	Molecular and Biological Catalysts Coimmobilization on Electrode by Combining Diazonium Electrografting and Sequential Click Chemistry. <i>ChemElectroChem</i> , 2018, 5, 2208-2217.	3.4	22
49	Silica-based electrochemical sensors and biosensors: Recent trends. <i>Current Opinion in Electrochemistry</i> , 2018, 10, 88-97.	4.8	99
50	MS2 and Q β bacteriophages reveal the contribution of surface hydrophobicity on the mobility of non-enveloped icosahedral viruses in SDS-based capillary zone electrophoresis. <i>Electrophoresis</i> , 2018, 39, 377-385.	2.4	9
51	Electrodeposition of silver amalgam particles on ITO – Towards novel electrode material. <i>Journal of Electroanalytical Chemistry</i> , 2018, 821, 53-59.	3.8	14
52	Design and properties of a novel radiopaque injectable apatitic calcium phosphate cement, suitable for image-guided implantation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 2786-2795.	3.4	11
53	Scanning gel electrochemical microscopy (SGECM): The potentiometric measurements. <i>Electrochemistry Communications</i> , 2018, 97, 64-67.	4.7	14
54	Electrocatalytic Biosynthesis using a Bucky Paper Functionalized by $[\text{Cp}^*\text{Rh}(\text{bpy})\text{Cl}]^+$ and a Renewable Enzymatic Layer. <i>ChemCatChem</i> , 2018, 10, 4067-4073.	3.7	29

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55	Palladium-Prussian blue nanoparticles; as homogeneous and heterogeneous electrocatalysts. Journal of Electroanalytical Chemistry, 2018, 823, 747-754.	3.8	7
56	Scanning Gel Electrochemical Microscopy for Topography and Electrochemical Imaging. Analytical Chemistry, 2018, 90, 8889-8895.	6.5	14
57	Indirect amperometric detection of non-redox ions using a ferrocene-functionalized and oriented mesoporous silica thin film electrode. Electrochimica Acta, 2017, 228, 659-666.	5.2	10
58	Vertically Aligned and Ordered One-Dimensional Mesoscale Polyaniline. Langmuir, 2017, 33, 4224-4234.	3.5	21
59	3-Aminopropyltrimethoxysilane mediated solvent induced synthesis of gold nanoparticles for biomedical applications. Materials Science and Engineering C, 2017, 79, 45-54.	7.3	9
60	Kinetics of the electrochemically-assisted deposition of sol-gel films. Physical Chemistry Chemical Physics, 2017, 19, 14972-14983.	2.8	9
61	Covalent Immobilization of (2,2'-Bipyridyl) (Pentamethylcyclopentadienyl)-Rhodium Complex on a Porous Carbon Electrode for Efficient Electrocatalytic NADH Regeneration. ACS Catalysis, 2017, 7, 4386-4394.	11.2	65
62	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
63	Decorating soft electrified interfaces: From molecular assemblies to nano-objects. Applied Materials Today, 2017, 9, 533-550.	4.3	30
64	A straightforward approach to enhance the textural, mechanical and biological properties of injectable calcium phosphate apatitic cements (CPCs): CPC/blood composites, a comprehensive study. Acta Biomaterialia, 2017, 62, 328-339.	8.3	15
65	Physical Chemistry in France. ChemPhysChem, 2017, 18, 2558-2559.	2.1	0
66	Functional Electrodes for Enzymatic Electrosynthesis. , 2017, , 215-271.		1
67	Copper Nanowires through Oriented Mesoporous Silica: A Step towards Protected and Parallel Atomic Switches. Scientific Reports, 2017, 7, 17752.	3.3	7
68	Recent Trends on Electrochemical Sensors Based on Ordered Mesoporous Carbon. Sensors, 2017, 17, 1863.	3.8	60
69	Clickable Bifunctional and Vertically Aligned Mesoporous Silica Films. Advanced Materials Interfaces, 2016, 3, 1500440.	3.7	38
70	Molecular Sieving with Vertically Aligned Mesoporous Silica Films and Electronic Wiring through Isolating Nanochannels. Chemistry of Materials, 2016, 28, 2511-2514.	6.7	58
71	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
72	Macroporous carbon nanotube-carbon composite electrodes. Carbon, 2016, 109, 106-116.	10.3	18

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73	Amplified Charge Transfer for Anionic Redox Probes through Oriented Mesoporous Silica Thin Films. <i>ChemElectroChem</i> , 2016, 3, 2130-2137.	3.4	33
74	Surface modification and porosimetry of vertically aligned hexagonal mesoporous silica films. <i>RSC Advances</i> , 2016, 6, 113432-113441.	3.6	11
75	Enzymatic bioreactor for simultaneous electrosynthesis and energy production. <i>Electrochimica Acta</i> , 2016, 199, 342-348.	5.2	20
76	Visualization of Diffusion within Nanoarrays. <i>Analytical Chemistry</i> , 2016, 88, 6689-6695.	6.5	20
77	Immobilization of Cysteine-Tagged Proteins on Electrode Surfaces by Thiolâ€Ene Click Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17591-17598.	8.0	34
78	An inorganic-organic hybrid material from the co-intercalation of a cationic surfactant and thiourea within montmorillonite layers: application to the sensitive stripping voltammetric detection of Pb ²⁺ and Cd ²⁺ ions. <i>Comptes Rendus Chimie</i> , 2016, 19, 789-797.	0.5	11
79	Local pH changes triggered by photoelectrochemistry for silica condensation at the liquid-liquid interface. <i>Electrochimica Acta</i> , 2016, 188, 71-77.	5.2	10
80	Highly Organized Ferroceneâ€Functionalized Nanoporous Silica Films with an Extremely Fast Electronâ€Transfer Rate for an Intrinsically Nonconducting Oxideâ€Modified Electrode. <i>ChemElectroChem</i> , 2015, 2, 1695-1698.	3.4	17
81	Amperometric Biosensor for Choline Based on Gold Screenâ€Printed Electrode Modified with Electrochemicallyâ€Deposited Silica Biocomposite. <i>Electroanalysis</i> , 2015, 27, 1685-1692.	2.9	22
82	Mesoporous Materialsâ€Based Electrochemical Enzymatic Biosensors. <i>Electroanalysis</i> , 2015, 27, 2028-2054.	2.9	48
83	Organoclay-modified electrodes: preparation, characterization and recent electroanalytical applications. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1949-1973.	2.5	29
84	Ordered mesoporous silica films with pores oriented perpendicular to a titanium nitride substrate. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4763-4770.	2.8	39
85	Mesoporous silica thin films for molecular sieving and electrode surface protection against biofouling. <i>Electrochemistry Communications</i> , 2015, 52, 34-36.	4.7	49
86	Preparation of ordered and oriented mesoporous silica thin films bearing octyl or hexadecyl groups by electrochemically assisted self-assembly and evaluation of their transport properties. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2075-2085.	2.5	10
87	Electrochemistry supported by zeolites, clays, layered double hydroxides, ordered mesoporous (organo)silicas, and related materials. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1885-1886.	2.5	1
88	Tetrazine-functionalized and vertically-aligned mesoporous silica films with electrochemical activity and fluorescence properties. <i>Electrochemistry Communications</i> , 2015, 59, 9-12.	4.7	19
89	Immobilization of membrane-bounded (S)-mandelate dehydrogenase in solâ€gel matrix for electroenzymatic synthesis. <i>Bioelectrochemistry</i> , 2015, 104, 65-70.	4.6	10
90	Electrochemical response of vertically-aligned, ferrocene-functionalized mesoporous silica films: effect of the supporting electrolyte. <i>Electrochimica Acta</i> , 2015, 179, 304-314.	5.2	46

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91	Electrochemical characterization of liquid-liquid micro-interfaces modified with mesoporous silica. <i>Electrochimica Acta</i> , 2015, 179, 9-15.	5.2	26
92	Mesoporous Materialsâ€Based Electrochemical Sensors. <i>Electroanalysis</i> , 2015, 27, 1303-1340.	2.9	111
93	Electrochemically assisted deposition by local pH tuning: a versatile tool to generate ordered mesoporous silica thin films and layered double hydroxide materials. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1905-1931.	2.5	31
94	Electrode Materials (Bulk Materials and Modification). <i>Nanostructure Science and Technology</i> , 2014, , 403-495.	0.1	6
95	Glassy carbon electrode modified with a film of poly(Toluidine Blue O) and carbon nanotubes for nitrite detection. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1519-1528.	2.5	28
96	Tetrabutylammonium-modified clay film electrodes: Characterization and application to the detection of metal ions. <i>Talanta</i> , 2014, 125, 36-44.	5.5	21
97	Solâ€gel based â€artificialâ€™ biofilm from <i>Pseudomonas fluorescens</i> using bovine heart cytochrome c as electron mediator. <i>Electrochemistry Communications</i> , 2014, 38, 71-74.	4.7	19
98	Verticallyâ€aligned Mesoporous Silica Films. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 537-546.	1.2	46
99	High-frequency impedance measurement as a relevant tool for monitoring the apatitic cement setting reaction. <i>Acta Biomaterialia</i> , 2014, 10, 940-950.	8.3	15
100	Interfacial processes studied by coupling electrochemistry at the polarised liquidâ€liquid interface with in situ confocal Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26955-26962.	2.8	21
101	One-step co-intercalation of cetyltrimethylammonium and thiourea in smectite and application of the organoclay to the sensitive electrochemical detection of Pb(II). <i>Applied Clay Science</i> , 2014, 99, 297-305.	5.2	28
102	Electrochemically Assisted Generation of Silica Deposits Using a Surfactant Template at Liquid/Liquid Microinterfaces. <i>Langmuir</i> , 2014, 30, 11453-11463.	3.5	37
103	Electro-Assisted Self-Assembly of Cetyltrimethylammonium-Templated Silica Films in Aqueous Media: Critical Effect of Counteranions on the Morphology and Mesostructure Type. <i>Chemistry of Materials</i> , 2014, 26, 1848-1858.	6.7	26
104	An l-glucitol oxidizing dehydrogenase from <i>Bradyrhizobium japonicum</i> USDA 110 for production of d-sorbose with enzymatic or electrochemical cofactor regeneration. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 3023-3032.	3.6	9
105	Electrochemically Assisted Generation of Highly Ordered Azideâ€Functionalized Mesoporous Silica for Oriented Hybrid Films. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2945-2950.	13.8	79
106	Reagentless d-sorbitol biosensor based on d-sorbitol dehydrogenase immobilized in a solâ€gel carbon nanotubesâ€poly(methylene green) composite. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3899-3906.	3.7	20
107	Electrochemically assisted self-assembly of ordered and functionalized mesoporous silica films: impact of the electrode geometry and size on film formation and properties. <i>Faraday Discussions</i> , 2013, 164, 259.	3.2	52
108	Nanomaterials for bio-functionalized electrodes: recent trends. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4878.	5.8	302

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109	Electrochemically assisted bacteria encapsulation in thin hybrid solâ€gel films. Journal of Materials Chemistry B, 2013, 1, 1052.	5.8	26
110	Interest of the Solâ€Gel Approach for Multiscale Tailoring of Porous Bioelectrode Surfaces. Electroanalysis, 2013, 25, 621-629.	2.9	16
111	Clay-mesoporous silica composite films generated by electro-assisted self-assembly. Electrochimica Acta, 2013, 112, 333-341.	5.2	22
112	Characterization of MCM-41 with Immobilized Bi-functional SH/SO ₃ H Layer. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 1409-1416.	3.7	1
113	Platinum Ultramicroelectrodes Modified with Electrogenated Surfactantâ€Templated Mesoporous Organosilica Films: Effect of Film Formation Conditions on Its Performance in Preconcentration Electroanalysis. Electroanalysis, 2013, 25, 2595-2603.	2.9	23
114	Functionalized carbon nanotubes for bioelectrochemical applications: Critical influence of the linker. Journal of Electroanalytical Chemistry, 2013, 707, 129-133.	3.8	9
115	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
116	Electrophoretic deposition of macroporous carbon nanotube assemblies for electrochemical applications. Carbon, 2013, 53, 302-312.	10.3	14
117	One Step Deposition of Solâ€Gel Carbon Nanotubes Biocomposite for Reagentless Electrochemical Devices. Electroanalysis, 2013, 25, 85-93.	2.9	17
118	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
119	Mesoporous materials and electrochemistry. Chemical Society Reviews, 2013, 42, 4098.	38.1	541
120	Chromium(VI) removal via reductionâ€sorption on bi-functional silica adsorbents. Journal of Hazardous Materials, 2013, 250-251, 454-461.	12.4	67
121	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
122	Metal ion removal by ultrafiltration of colloidal suspensions of organically modified silica. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 417, 65-72.	4.7	13
123	Sol-gel Approaches for Elaboration of Polyol Dehydrogenase-Based Bioelectrodes. Zeitschrift Fur Physikalische Chemie, 2013, 227, 667-689.	2.8	6
124	Electrocatalytic effect towards NADH induced by HiPco single-walled carbon nanotubes covalently functionalized by ferrocene derivatives. Materials Research Society Symposia Proceedings, 2013, 1531, 1.	0.1	1
125	New approaches for the local prevention of osteoporotic fractures. Materials Research Society Symposia Proceedings, 2012, 1376, 26.	0.1	1
126	Few-wall carbon nanotubes covalently functionalized by ferrocene groups for bioelectrochemical devices.. Materials Research Society Symposia Proceedings, 2012, 1451, 111-116.	0.1	0

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127	Covalent functionalization of few-wall carbon nanotubes by ferrocene derivatives for bioelectrochemical devices. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2349-2352.	1.5	12
128	Site Selective Generation of Sol-Gel Deposits in Layered Bimetallic Macroporous Electrode Architectures. <i>Langmuir</i> , 2012, 28, 2323-2326.	3.5	11
129	Electrocatalysis, sensors and biosensors in analytical chemistry based on ordered mesoporous and macroporous carbon-modified electrodes. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 38, 79-97.	11.4	132
130	Electrophoretically deposited carbon nanotubes as a novel support for electrogenerated silica-dehydrogenase bioelectrodes. <i>Electrochimica Acta</i> , 2012, 83, 359-366.	5.2	20
131	A Novel Highly Sensitive Zeolite-Based Conductometric Microsensor for Ammonium Determination. <i>Analytical Letters</i> , 2012, 45, 1467-1484.	1.8	17
132	One pot synthesis of ordered mesoporous organosilica particles bearing propyl-, octyl- and hexadecyl-chains. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 63, 587-594.	2.4	5
133	Durable cofactor immobilization in sol-gel bio-composite thin films for reagentless biosensors and bioreactors using dehydrogenases. <i>Biosensors and Bioelectronics</i> , 2012, 32, 111-117.	10.1	47
134	Dehydrogenase-Based Reagentless Biosensors: Electrochemically Assisted Deposition of Sol-Gel Thin Films on Functionalized Carbon Nanotubes. <i>Electroanalysis</i> , 2012, 24, 376-385.	2.9	27
135	Microscale Controlled Electrogenation of Patterned Mesoporous Silica Thin Films. <i>Chemistry of Materials</i> , 2011, 23, 5313-5322.	6.7	35
136	Controlled Electrochemically-Assisted Deposition of Sol-Gel Biocomposite on Electrospun Platinum Nanofibers. <i>Langmuir</i> , 2011, 27, 7140-7147.	3.5	19
137	Multiscale-Tailored Bioelectrode Surfaces for Optimized Catalytic Conversion Efficiency. <i>Langmuir</i> , 2011, 27, 12737-12744.	3.5	14
138	Electrochemical response of ascorbic and uric acids at organoclay film modified glassy carbon electrodes and sensing applications. <i>Talanta</i> , 2011, 85, 754-762.	5.5	40
139	Conductometric enzyme biosensors based on natural zeolite clinoptilolite for urea determination. <i>Materials Science and Engineering C</i> , 2011, 31, 1490-1497.	7.3	56
140	Electrochemically assisted deposition of sol-gel bio-composite with co-immobilized dehydrogenase and diaphorase. <i>Electrochimica Acta</i> , 2011, 56, 9032-9040.	5.2	34
141	Factors affecting the electrochemical regeneration of NADH by (2,2'-bipyridyl) (pentamethylcyclopentadienyl)-rhodium complexes: Impact on their immobilization onto electrode surfaces. <i>Bioelectrochemistry</i> , 2011, 82, 46-54.	4.6	50
142	Square Wave Voltammetric Determination of Lead(II) Ions Using a Carbon Paste Electrode Modified by a Thiol-Functionalized Kaolinite. <i>Electroanalysis</i> , 2011, 23, 245-252.	2.9	63
143	Kinetics of the complexation of Ni ²⁺ ions by 5-phenyl-azo-8-hydroxyquinoline grafted on colloidal silica particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 380, 261-269.	4.7	14
144	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. <i>Acta Biomaterialia</i> , 2011, 7, 759-770.	8.3	46

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