Alain Walcarius

List of Publications by Citations

274 papers	12,198 citations	58 h-index	99 g-index
289 ext. papers	13,154 ext. citations	5.7 avg, IF	7.02 L-index

#	Paper	IF	Citations
274	Carbon Paste Electrodes in Facts, Numbers, and Notes: A Review on the Occasion of the 50-Years Jubilee of Carbon Paste in Electrochemistry and Electroanalysis. *Electroanalysis*, **2009**, 21, 7-28	3	486
273	Mesoporous organosilica adsorbents: nanoengineered materials for removal of organic and inorganic pollutants. *Journal of Materials Chemistry*, **2010**, 20, 4478		471
272	Mesoporous materials and electrochemistry. *Chemical Society Reviews*, **2013**, 42, 4098-140	58.5	450
271	Electrochemically assisted self-assembly of mesoporous silica thin films. *Nature Materials*, **2007**, 6, 602-827		408
270	Electrochemical Applications of Silica-Based Organic□Inorganic Hybrid Materials. *Chemistry of Materials*, **2001**, 13, 3351-3372	9.6	322
269	Nanomaterials for bio-functionalized electrodes: recent trends. *Journal of Materials Chemistry B*, **2013**, 1, 4878-4908	7.3	260
268	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	9.6	254
267	Exciting new directions in the intersection of functionalized sol□gel materials with electrochemistry. *Journal of Materials Chemistry*, **2005**, 15, 3663		250
266	Analytical investigation of the chemical reactivity and stability of aminopropyl-grafted silica in aqueous medium. *Talanta*, **2003**, 59, 1173-88	6.2	236
265	Zeolite-modified electrodes in electroanalytical chemistry. *Analytica Chimica Acta*, **1999**, 384, 1-16	6.6	194
264	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	9.6	191
263	Electroanalysis with Pure, Chemically Modified and Sol-Gel-Derived Silica-Based Materials. *Electroanalysis*, **2001**, 13, 701-718	3	185
262	Molecular Transport into Mesostructured Silica Thin Films: Electrochemical Monitoring and Comparison between p6m, P63/mmc, and Pm3n Structures. *Chemistry of Materials*, **2007**, 19, 844-856	9.6	162
261	Ordered porous thin films in electrochemical analysis. *TrAC - Trends in Analytical Chemistry*, **2008**, 27, 593-603	14.6	152
260	Analytical chemistry with silica sol-gels: traditional routes to new materials for chemical analysis. *Annual Review of Analytical Chemistry*, **2009**, 2, 121-43	12.5	146
259	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	9.6	143
258	Oriented Mesoporous Silica Films Obtained by Electro-Assisted Self-Assembly (EASA). *Chemistry of Materials*, **2009**, 21, 731-741	9.6	136

257	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	6.6	136
256	Electroanalytical Applications of Microporous Zeolites and Mesoporous (Organo)Silicas: Recent Trends. *Electroanalysis*, **2008**, 20, 711-738	3	130
255	Zeolite-modified carbon paste electrode for selective monitoring of dopamine. *Journal of Electroanalytical Chemistry*, **1996**, 407, 183-187	4.1	125
254	Direct electrochemistry of hemoglobin and glucose oxidase in electrodeposited sol□gel silica thin films on glassy carbon. *Electrochemistry Communications*, **2007**, 9, 1189-1195	5.1	124
253	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	14.6	123
252	Zeolite-modified electrodes: Analytical applications and prospects. *Electroanalysis*, **1996**, 8, 971-986	3	121
251	Analytical Applications of Silica-Modified Electrodes □ Comprehensive Review **1998**, 10, 1217		116
250	Bifunctionalized mesoporous silicas for Cr(VI) reduction and concomitant Cr(III) immobilization. *Environmental Science & Technology*, **2008**, 42, 6922-8	10.3	112
249	Voltammetric detection of copper(II) at a carbon paste electrode containing an organically modified silica. *Sensors and Actuators B: Chemical*, **2001**, 76, 531-538	8.5	108
248	Surfactant templated sulfonic acid functionalized silica microspheres as new efficient ion exchangers and electrode modifiers. *Langmuir*, **2004**, 20, 3632-40	4	104
247	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	3.6	100
246	Template-directed porous electrodes in electroanalysis. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 261-72	4.4	97
245	Carbon paste electrodes in the new millennium. *Open Chemistry*, **2009**, 7, 598-656	1.6	94
244	Analytical Applications of Silica-Modified Electrodes □ Comprehensive Review. *Electroanalysis*, **1999**, 10, 1217-1235	3	94
243	Electrocatalytic H2O2 amperometric detection using gold nanotube electrode ensembles. *Analytica Chimica Acta*, **2004**, 525, 221-230	6.6	91
242	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	8.5	84
241	Mesoporous Silica Thin Films for Improved Electrochemical Detection of Paraquat. *ACS Sensors*, **2018**, 3, 484-493	9.2	82
240	Grafted Silicas in Electroanalysis: Amorphous Versus Ordered Mesoporous Materials. *Electroanalysis*, **2003**, 15, 414-421	3	82

239	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	2.7	81
238	Mesoporous Materials-Based Electrochemical Sensors. *Electroanalysis*, **2015**, 27, 1303-1340	3	80
237	Electroanalysis with Carbon Paste Electrodes		77
236	From clay- to organoclay-film modified electrodes: tuning charge selectivity in ion exchange voltammetry. *Electrochimica Acta*, **2004**, 49, 3435-3443	6.7	76
235	Factors affecting the preparation and properties of electrodeposited silica thin films functionalized with amine or thiol groups. *Langmuir*, **2006**, 22, 8366-73	4	75
234	Bienzyme HRP-GOx-modified gold nanoelectrodes for the sensitive amperometric detection of glucose at low overpotentials. *Biosensors and Bioelectronics*, **2005**, 20, 1587-94	11.8	75
233	Oriented mesoporous organosilica films on electrode: a new class of nanomaterials for sensing. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 2398-406	1.3	73
232	Electrochemically assisted generation of highly ordered azide-functionalized mesoporous silica for oriented hybrid films. *Angewandte Chemie - International Edition*, **2014**, 53, 2945-50	16.4	72
231	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	9.6	72
230	Electrochemical analysis of methylparathion pesticide by a gemini surfactant-intercalated clay-modified electrode. *Talanta*, **2010**, 81, 972-9	6.2	71
229	Electro-assisted generation of functionalized silica films on gold. *Electrochemistry Communications*, **2003**, 5, 341-348	5.1	71
228	Electrochemical evaluation of polysiloxane-immobilized amine ligands for the accumulation of copper(II) species. *Electrochimica Acta*, **1999**, 44, 4601-4610	6.7	71
227	The methyl viologen incorporated zeolite modified carbon paste electrode. Part 1. Electrochemical behaviour in aqueous media. Effects of supporting electrolyte and immersion time. *Electrochimica Acta*, **1993**, 38, 2257-2266	6.7	71
226	Factors affecting the reactivity of thiol-functionalized mesoporous silica adsorbents toward mercury(II). *Talanta*, **2009**, 79, 877-86	6.2	66
225	Organically-modified mesoporous silica spheres with MCM-41 architecture. *New Journal of Chemistry*, **2002**, 26, 384-386	3.6	65
224	Silica-based electrochemical sensors and biosensors: Recent trends. *Current Opinion in Electrochemistry*, **2018**, 10, 88-97	7.2	64
223	Factors affecting the analytical applications of zeolite-modified electrodes preconcentration of electroactive species. *Analytica Chimica Acta*, **1997**, 340, 61-76	6.6	63
222	Positronium reemission yield from mesostructured silica films. *Applied Physics Letters*, **2008**, 92, 063114	3.4	62

221	Preparing catalytic surfaces for sensing applications by immobilizing enzymes via hydrophobin layers. *Analytical Chemistry*, **2005**, 77, 1622-30	7.8	62
220	Square wave voltammetric determination of paraquat and diquat in aqueous solution. *Journal of Electroanalytical Chemistry*, **1996**, 406, 59-68	4.1	62
219	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, 1497-512	4.4	59
218	Sorption of methylene blue on an organoclay bearing thiol groups and application to electrochemical sensing of the dye. *Talanta*, **2008**, 74, 489-97	6.2	58
217	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	6.6	58
216	Naphthidine di(radical cation)s-stabilized palladium nanoparticles for efficient catalytic Suzuki–Miyaura cross-coupling reactions. *Tetrahedron*, **2008**, 64, 372-381	2.4	57
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213	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		56
212	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	3	55
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210	Zeolite containing oxidase-based carbon paste biosensors. *Journal of Electroanalytical Chemistry*, **1996**, 404, 237-242	4.1	54
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208	Square Wave Voltammetric Determination of Lead(II) Ions Using a Carbon Paste Electrode Modified by a Thiol-Functionalized Kaolinite. *Electroanalysis*, **2011**, 23, 245-252	3	50
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206	Recent Trends on Electrochemical Sensors Based on Ordered Mesoporous Carbon. *Sensors*, **2017**, 17,	3.8	48
205	Electrochemical sensors and biosensors based on heterogeneous carbon materials. *Monatshefte F□ Chemie*, **2009**, 140, 861-889	1.4	48
204	Molecular Sieving with Vertically Aligned Mesoporous Silica Films and Electronic Wiring through Isolating Nanochannels. *Chemistry of Materials*, **2016**, 28, 2511-2514	9.6	47

203	Selective monitoring of Cu(II) species using a silica modified carbon paste electrode. *Analytica Chimica Acta*, **1999**, 385, 79-89	6.6	46
202	Conductometric enzyme biosensors based on natural zeolite clinoptilolite for urea determination. *Materials Science and Engineering C*, **2011**, 31, 1490-1497	8.3	45
201	Electrochemical Generation of Thin Silica Films with Hierarchical Porosity. *Chemistry of Materials*, **2010**, 22, 3426-3432	9.6	45
200	Voltammetric in situ investigation of an MCM-41-modified carbon paste electrode□ new sensor. *Journal of Electroanalytical Chemistry*, **1998**, 453, 249-252	4.1	45
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197	Ion-exchange properties and electrochemical characterization of quaternary ammonium-functionalized silica microspheres obtained by the surfactant template route. *Langmuir*, **2006**, 22, 469-77	4	43
196	Organoclay-enzyme film electrodes. *Analytica Chimica Acta*, **2006**, 578, 145-55	6.6	43
195	The methyl viologen incorporated zeolite modified carbon paste electrode□art 2. Ion exchange and electron transfer mechanism in aqueous medium. *Electrochimica Acta*, **1993**, 38, 2267-2276	6.7	43
194	Vertically-aligned Mesoporous Silica Films. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2014**, 640, 537-546	1.3	42
193	Prussian Blue electrodeposition within an oriented mesoporous silica film: preliminary observations. *Journal of Materials Science*, **2009**, 44, 6601-6607	4.3	42
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188	Mesoporous Materials-Based Electrochemical Enzymatic Biosensors. *Electroanalysis*, **2015**, 27, 2028-2054	3	40
187	Factors affecting the analytical applications of zeolite modified electrodes: indirect detection of nonelectroactive cations. *Analytica Chimica Acta*, **1999**, 388, 79-91	6.6	40
186	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	2.3	39

185	Flow Injection Amperometric Detection at Enzyme-Modified Gold Nanoelectrodes. *Electroanalysis*, **2004**, 16, 190-198	3	39
184	Cation determination in aqueous solution using the methyl viologen-doped zeolite-modified carbon paste electrode. *Electroanalysis*, **1995**, 7, 120-128	3	39
183	Electrochemical response of vertically-aligned, ferrocene-functionalized mesoporous silica films: effect of the supporting electrolyte. *Electrochimica Acta*, **2015**, 179, 304-314	6.7	38
182	Electrochemical probing of mass transfer rates in mesoporous silica-based organic–inorganic hybrids. *Electrochimica Acta*, **2004**, 49, 3775-3783	6.7	38
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178	Electrochemistry with Mesoporous Silica: Selective Mercury(II) Binding. *Chemistry of Materials*, **1999**, 11, 3009-3011	9.6	36
177	Electrochemical response of ascorbic and uric acids at organoclay film modified glassy carbon electrodes and sensing applications. *Talanta*, **2011**, 85, 754-62	6.2	35
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172	Electrografting of 3-Aminopropyltriethoxysilane on a Glassy Carbon Electrode for the Improved Adhesion of Vertically Oriented Mesoporous Silica Thin Films. *Langmuir*, **2016**, 32, 4323-32	4	33
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170	Electrochemically assisted generation of silica deposits using a surfactant template at liquid/liquid microinterfaces. *Langmuir*, **2014**, 30, 11453-63	4	32
169	An aqueous route to organically functionalized silica diatom skeletons. *Applied Surface Science*, **2007**, 253, 5485-5493	6.7	32
168	Electrogeneration of ultra-thin silica films for the functionalization of macroporous electrodes. *Electrochemistry Communications*, **2011**, 13, 138-142	5.1	31

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166	Electrochemically assisted deposition of sol–gel bio-composite with co-immobilized dehydrogenase and diaphorase. *Electrochimica Acta*, **2011**, 56, 9032-9040	6.7	30
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164	Voltammetric Detection of Lead(II) Using Amide-Cyclam- Functionalized Silica-Modified Carbon Paste Electrodes. *Electroanalysis*, **2009**, 21, 1731-1742	3	30
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159	Permselective and Preconcentration Properties of a Surfactant-Intercalated Clay Modified Electrode. *Electroanalysis*, **2006**, 18, 2243-2250	3	28
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155	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	3.1	27
154	Flow injection indirect amperometric detection of ammonium ions using a clinoptilolite-modified electrode. *Sensors and Actuators B: Chemical*, **1999**, 56, 136-143	8.5	27
153	Electrochemical Recognition of Selective Mercury Adsorption on Minerals. *Environmental Science & Technology*, **1999**, 33, 4278-4284	10.3	27
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150	Zeolite-modified paraffin-impregnated graphite electrode. *Journal of Solid State Electrochemistry*, **2006**, 10, 469-478	2.6	26

149	Dehydrogenase-Based Reagentless Biosensors: Electrochemically Assisted Deposition of Sol-Gel Thin Films on Functionalized Carbon Nanotubes. *Electroanalysis*, **2012**, 24, 376-385	3	25
148	In-situ formation of mesoporous silica films controlled by ion transfer voltammetry at the polarized liquid□liquid interface. *Electrochemistry Communications*, **2013**, 37, 76-79	5.1	25
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143	Immobilization of Cysteine-Tagged Proteins on Electrode Surfaces by Thiol-Ene Click Chemistry. *ACS Applied Materials & Interfaces*, **2016**, 8, 17591-8	9.5	24
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139	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, 12316-29	7.7	23
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129	Amplified Charge Transfer for Anionic Redox Probes through Oriented Mesoporous Silica Thin Films. *ChemElectroChem*, **2016**, 3, 2130-2137	4.3	21
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127	Synthesis and characterization of mesoporous silicas functionalized by thiol groups, and application as sorbents for mercury (II). *Studies in Surface Science and Catalysis*, **2005**, 156, 925-932	1.8	20
126	Influence of the Base Size and Strength on the Acidic Properties of Silica Gel and Monodispersed Silica Beads: Interest of Impedance Measurements for the in Situ Monitoring of the Ionization Process. *Langmuir*, **1999**, 15, 3186-3196	4	20
125	Tetrabutylammonium-modified clay film electrodes: characterization and application to the detection of metal ions. *Talanta*, **2014**, 125, 36-44	6.2	19
124	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	19
123	Amperometric Biosensor for Choline Based on Gold Screen-Printed Electrode Modified with Electrochemically-Deposited Silica Biocomposite. *Electroanalysis*, **2015**, 27, 1685-1692	3	19
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120	Electrochemical modulation of the ligand properties of organically modified mesoporous silicas. *Journal of Electroanalytical Chemistry*, **2005**, 581, 70-78	4.1	19
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