

Liliane Coche-Guerente

List of Publications by Year in descending order

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66
papers

2,008
citations

159585

30
h-index

265206

42
g-index

67
all docs

67
docs citations

67
times ranked

2145
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrocatalytic hydrogenation of organic compounds on carbon electrodes modified by precious metal microparticles in redox active polymer films. <i>Journal of the American Chemical Society</i> , 1987, 109, 6887-6889.	13.7	86
2	Development of amperometric biosensors based on the immobilization of enzymes in polymer films electrogenerated from a series of amphiphilic pyrrole derivatives. <i>Analytica Chimica Acta</i> , 1995, 311, 23-30.	5.4	81
3	Electrochemical immobilization of glucose oxidase in poly(amphiphilic pyrrole) films and its application to the preparation of an amperometric glucose sensor. <i>Analytica Chimica Acta</i> , 1994, 289, 143-153.	5.4	70
4	Amplification of Amperometric Biosensor Responses by Electrochemical Substrate Recycling. 3. Theoretical and Experimental Study of the Phenol/Polyphenol Oxidase System Immobilized in Laponite Hydrogels and Layer-by-Layer Self-Assembled Structures. <i>Analytical Chemistry</i> , 2001, 73, 3206-3218.	6.5	68
5	Sol-Gel Derived Composite Materials for the Construction of Oxidase/Peroxidase Mediatorless Biosensors. <i>Chemistry of Materials</i> , 1997, 9, 1348-1352.	6.7	66
6	Construction of layer-by-layer self-assemblies of glucose oxidase and cationic polyelectrolyte onto glassy carbon electrodes and electrochemical study of the redox-mediated enzymatic activity. <i>Electrochimica Acta</i> , 2004, 49, 477-484.	5.2	64
7	Multilayer assemblies of polyelectrolyte-gold nanoparticles for the electrocatalytic oxidation and detection of arsenic(III). <i>Journal of Colloid and Interface Science</i> , 2012, 383, 130-139.	9.4	61
8	An attempt at the preparative alkyl dibromide reduction using electrodes coated by a polypyrrole film containing the viologen (4,4'-bipyridinium) system. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1986, 198, 187-193.	0.1	58
9	Well-defined biomimetic surfaces to characterize glycosaminoglycan-mediated interactions on the molecular, supramolecular and cellular levels. <i>Biomaterials</i> , 2014, 35, 8903-8915.	11.4	57
10	Incorporation of anionic metalloporphyrins into poly(pyrrole-alkylammonium) films—Part 2. Characterization of the reactivity of the iron(III) porphyrininc-based polymer. <i>Electrochimica Acta</i> , 1993, 38, 2485-2491.	5.2	56
11	Cytokines and growth factors cross-link heparan sulfate. <i>Open Biology</i> , 2015, 5, 150046.	3.6	55
12	Structural Characterization of (3-Mercaptopropyl)sulfonate Monolayer on Gold Surfaces. <i>Langmuir</i> , 2005, 21, 4400-4409.	3.5	53
13	Electrocatalytic hydrogenation using precious metal microparticles in redox-active polymer films. <i>Journal of Organic Chemistry</i> , 1990, 55, 5905-5910.	3.2	52
14	A quartz crystal microbalance method to study the terminal functionalization of glycosaminoglycans. <i>Chemical Communications</i> , 2014, 50, 15148-15151.	4.1	52
15	Characterization of organosilanesquioxane-intercalated-laponite-clay modified electrodes and (bio)electrochemical applications. <i>Journal of Electroanalytical Chemistry</i> , 1998, 458, 73-86.	3.8	49
16	Catalysis of 1,2-dibromo-1,2-diphenylethane reduction on platinum and carbon felt electrodes coated by polypyrrole films containing 4,4'-bipyridinium groups. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987, 224, 111-122.	0.1	47
17	Promotion of sugar-lectin recognition through the multiple sugar presentation offered by regioselectively addressable functionalized templates (RAFT): a QCM-D and SPR study. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 1114.	2.8	47
18	Sensor Based on Aptamer Folding to Detect Low-Molecular Weight Analytes. <i>Analytical Chemistry</i> , 2015, 87, 7566-7574.	6.5	47

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19	Synthesis and characterization of copper containing mesoporous silicas. <i>Journal of Materials Chemistry</i> , 2000, 10, 403-408.	6.7	44
20	Electrochemical Behavior of Nitrate Reductase Immobilized in Self-Assembled Structures with Redox Polyviologen. <i>Langmuir</i> , 2003, 19, 3864-3874.	3.5	42
21	Physicochemical characterization of the layer-by-layer self-assembly of polyphenol oxidase and chitosan on glassy carbon electrode. <i>Electrochimica Acta</i> , 2005, 50, 2865-2877.	5.2	40
22	Electrochemically Controlled Adsorption of Fc-Functionalized Polymers on β -CD-Modified Self-Assembled Monolayers. <i>Langmuir</i> , 2010, 26, 13976-13986.	3.5	40
23	Layer-by-layer self-assembled multilayers of redox polyelectrolytes and gold nanoparticles. <i>Chemical Communications</i> , 2003, , 2056-2057.	4.1	39
24	On the Mucoadhesive Properties of Chitosan-Coated Polycaprolactone Nanoparticles Loaded with Curcumin Using Quartz Crystal Microbalance with Dissipation Monitoring. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 787-794.	1.1	39
25	Electropolymerization of Cationic Amphiphilic Pyrrole Derivatives on Electrodes. Evidence for Environmental Effects on Redox Potentials of Trapped Anions. <i>Langmuir</i> , 1994, 10, 602-610.	3.5	37
26	Amplification of amperometric biosensor responses by electrochemical substrate recycling. <i>Journal of Electroanalytical Chemistry</i> , 1999, 470, 53-60.	3.8	37
27	Amplification of amperometric biosensor responses by electrochemical substrate recycling. <i>Journal of Electroanalytical Chemistry</i> , 1999, 470, 61-69.	3.8	37
28	Controlled electrochemical preparation of enzymatic layers for the design of amperometric biosensors. <i>Electroanalysis</i> , 1993, 5, 647-652.	2.9	36
29	Immobilization of redox anions in poly(amphiphilic pyrrolylalkylammonium) using a simple and monomer-saving one-step procedure in pure water electrolyte. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 386.	2.0	33
30	Multianalytical Study of the Binding between a Small Chiral Molecule and a DNA Aptamer: Evidence for Asymmetric Steric Effect upon 3'- versus 5'-End Sequence Modification. <i>Analytical Chemistry</i> , 2016, 88, 11963-11971.	6.5	31
31	Characterization of a modified gold platform for the development of a label-free anti-thrombin aptasensor. <i>Biosensors and Bioelectronics</i> , 2013, 41, 424-429.	10.1	30
32	Tailor-made Janus lectin with dual avidity assembles glycoconjugate multilayers and crosslinks protocells. <i>Chemical Science</i> , 2018, 9, 7634-7641.	7.4	30
33	Nickel (II) tetraphenylporphyrin modified surfaces via electrografting of an aryldiazonium salt. <i>Electrochemistry Communications</i> , 2011, 13, 1236-1239.	4.7	29
34	Influence of Aptamer Surface Coverage on Small Target Recognition: A SPR and QCM-D Comparative Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13561-13568.	3.1	25
35	Unlimited growth of host-guest multilayer films based on functionalized neutral polymers. <i>Soft Matter</i> , 2010, 6, 3747.	2.7	24
36	Controlled surface density of RGD ligands for cell adhesion: evidence for ligand specificity by using QCM-D. <i>Journal of Materials Chemistry B</i> , 2015, 3, 5577-5587.	5.8	23

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37	Poly (Amphiphilic Pyrrole)-PPO Electrodes for Organic-Phase Enzymatic Assay. <i>Analytical Letters</i> , 1995, 28, 1005-1016.	1.8	20
38	Organosilasesquioxane-laponite clay sols: a versatile approach for electrode surface modification. <i>Journal of Electroanalytical Chemistry</i> , 1996, 401, 253-256.	3.8	19
39	Direct Detection of Low-Molecular-Weight Compounds in 2D and 3D Aptasensors by Biolayer Interferometry. <i>ACS Sensors</i> , 2020, 5, 2326-2330.	7.8	19
40	Redox strategy for reversible attachment of biomolecules using bifunctional linkers. <i>Chemical Communications</i> , 2011, 47, 3565.	4.1	18
41	Amperometric Glucose Biosensors Based on Composite Polymeric Structures to Prevent Interferences. <i>Analytical Letters</i> , 2000, 33, 1733-1753.	1.8	17
42	Layer-by-Layer Deposition of Chitosan Derivatives and DNA on Gold Surfaces for the Development of Biorecognition Layers. <i>Analytical Letters</i> , 2004, 37, 2235-2250.	1.8	16
43	Negative SPR Signals during Low Molecular Weight Analyte Recognition. <i>Analytical Chemistry</i> , 2021, 93, 4134-4140.	6.5	16
44	Selective electrocatalytic reduction of hexachloroacetone on a viologen polymer modified electrode in aqueous media. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 245, 313-319.	0.1	15
45	Cell adhesion through clustered ligand on fluid supported lipid bilayers. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 1531.	2.8	15
46	Binding of the chemokine CXCL12 to its natural extracellular matrix ligand heparan sulfate enables myoblast adhesion and facilitates cell motility. <i>Biomaterials</i> , 2017, 123, 24-38.	11.4	15
47	An integrated assay to probe endothelial glycocalyx-blood cell interactions under flow in mechanically and biochemically well-defined environments. <i>Matrix Biology</i> , 2019, 78-79, 47-59.	3.6	15
48	Oligosaccharide biosensor for direct monitoring of enzymatic activities using QCM-D. <i>Biosensors and Bioelectronics</i> , 2013, 49, 290-296.	10.1	14
49	Influence of the Interaction Strength between Supramolecular Complexes on the Topography of Neutral Polymer Multilayer Films. <i>Langmuir</i> , 2014, 30, 6479-6488.	3.5	13
50	One-Step Vs Stepwise Immobilization of 1-D Coordination-Based Rhodium Molecular Wires on Gold Surfaces. <i>Langmuir</i> , 2012, 28, 11779-11789.	3.5	12
51	Impact of Conformational Transitions on SPR Signals—Theoretical Treatment and Application in Small Analytes/Aptamer Recognition. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21521-21530.	3.1	12
52	Functional characterization of starch-degrading enzymes using quartz crystal microbalance with dissipation monitoring (QCM-D). <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1038-1043.	7.8	11
53	Redox-Driven Host-Guest Interactions Allow the Controlled Release of Captured Cells on RGD-Functionalized Surfaces. <i>ChemBioChem</i> , 2014, 15, 377-381.	2.6	11
54	Small angle neutron scattering studies and kinetic analysis of laponite-enzyme hydrogels in view of biosensors construction. <i>Materials Science and Engineering C</i> , 2002, 21, 81-89.	7.3	9

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55	Impact of Antigen Density on Recognition by Monoclonal Antibodies. <i>Analytical Chemistry</i> , 2020, 92, 5396-5403.	6.5	9
56	Development of a selective cell capture and release assay: impact of clustered RGD ligands. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4745-4753.	5.8	8
57	Multivalency: influence of the residence time and the retraction rate on rupture forces measured by AFM. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1801-1812.	5.8	7
58	Recent progress in the design of G-quadruplexâ€‘based electrochemical aptasensors. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100812.	4.8	7
59	Deposition of Cellulose Nanocrystals onto Supported Lipid Membranes. <i>Langmuir</i> , 2020, 36, 1474-1483.	3.5	6
60	Determination of the Rituximab Binding Site to the CD20 Epitope Using SPOT Synthesis and Surface Plasmon Resonance Analyses. <i>Analytical Chemistry</i> , 2021, 93, 6865-6872.	6.5	4
61	Unraveling the Spatial Distribution of Immunoglobulins, Enzymes, and Polyelectrolytes within Layer-by-Layer Self-Assembled Multilayers. <i>Ellipsometric Studies. Langmuir</i> , 2006, 22, 8931-8938.	3.5	3
62	Photoactive Molecular Dyads [Ru(bpy) ₃ â€‘M(tpy) ₂] ⁿ⁺ on Gold (M = Co(III), Zn(II)): Characterization, Intrawire Electron Transfer, and Photoelectric Conversion. <i>Langmuir</i> , 2018, 34, 5193-5203.	3.5	3
63	Interfacial and micellar behaviour of pyrrole-containing surfactants. , 0, , 31-35.		2
64	Impact of Multimeric Ferroceneâ€‘containing Cyclodecapeptide Scaffold on Hostâ€‘Guest Interactions at a Î²â€‘Cyclodextrin Covered Surface. <i>ChemPhysChem</i> , 2021, 22, 2231-2239.	2.1	2
65	Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 307-310.	2.4	1
66	Thermoresponsive Fluorescence Switches Based on Au@pNIPAM Nanoparticles. <i>Langmuir</i> , 2021, 37, 10971-10978.	3.5	1