

Christine Mousty

List of Publications by Year in descending order

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87
papers

4,117
citations

94269

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all docs

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docs citations

90
times ranked

4294
citing authors

#	ARTICLE	IF	CITATIONS
1	Subnanomolar Cyanide Detection at Polyphenol Oxidase/Clay Biosensors. <i>Analytical Chemistry</i> , 2004, 76, 178-183.	3.2	316
2	Assessment of the Fe(III)â€“EDDS Complex in Fenton-Like Processes: From the Radical Formation to the Degradation of Bisphenol A. <i>Environmental Science & Technology</i> , 2013, 47, 1952-1959.	4.6	310
3	Tailoring Hybrid Layered Double Hydroxides for the Development of Innovative Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1703868.	7.8	205
4	Layered Double Hydroxides:Â An Attractive Material for Electrochemical Biosensor Design. <i>Analytical Chemistry</i> , 2003, 75, 3872-3879.	3.2	198
5	Biosensing applications of clay-modified electrodes: a review. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 315-325.	1.9	142
6	Highâ€“Performing Monometallic Cobalt Layered Double Hydroxide Supercapacitor with Defined Local Structure. <i>Advanced Functional Materials</i> , 2014, 24, 4831-4842.	7.8	137
7	Urea Biosensors Based on Immobilization of Urease into Two Oppositely Charged Clays (Laponite and) Tj ETQq1 1 0.784314 rrgBT /Over 3.2 182	3.2	182
8	Anion-exchanging clay-modified electrodes: synthetic layered double hydroxides intercalated with electroactive organic anions. <i>Journal of Electroanalytical Chemistry</i> , 1994, 374, 63-69.	1.9	92
9	Glyphosate and glufosinate detection at electrogenerated NiAl-LDH thin films. <i>Analytica Chimica Acta</i> , 2009, 654, 97-102.	2.6	88
10	Laccase immobilization in redox active layered double hydroxides: A reagentless amperometric biosensor. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1733-1738.	5.3	86
11	Specific Determination of As(V) by an Acid Phosphataseâˆ“Polyphenol Oxidase Biosensor. <i>Analytical Chemistry</i> , 2006, 78, 4985-4989.	3.2	85
12	Hybrid and biohybrid layered double hydroxides for electrochemical analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3513-3523.	1.9	84
13	Highly sensitive nitrite biosensor based on the electrical wiring of nitrite reductase by [ZnCr-AQS] LDH. <i>Electrochemistry Communications</i> , 2007, 9, 2240-2245.	2.3	80
14	Nanohybrid Enzymes - Layered Double Hydroxides: Potential Applications. <i>Current Nanoscience</i> , 2006, 2, 283-294.	0.7	80
15	HRP/[Znâ€“Crâ€“ABTS] redox clay-based biosensor: design and optimization for cyanide detection. <i>Biosensors and Bioelectronics</i> , 2004, 20, 390-396.	5.3	78
16	Mercuryâ€“enzyme inhibition assays with an amperometric sucrose biosensor based on a trienzymatic-clay matrix. <i>Analytica Chimica Acta</i> , 2005, 543, 143-149.	2.6	72
17	Design of Laccaseâ€“Metal Organic Framework-Based Bioelectrodes for Biocatalytic Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20012-20022.	4.0	72
18	Trienzymatic biosensor for the determination of inorganic phosphate. <i>Analytica Chimica Acta</i> , 2001, 443, 1-8.	2.6	68

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19	Entrapment of enzyme within organic and inorganic materials for biosensor applications: Comparative study. <i>Materials Science and Engineering C</i> , 2006, 26, 442-447.	3.8	66
20	Alkaline phosphatase biosensors based on layered double hydroxides matrices: Role of LDH composition. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 442-448.	4.0	53
21	A composite poly azure Bâ€“clayâ€“enzyme sensor for the mediated electrochemical determination of phenols. <i>Journal of Electroanalytical Chemistry</i> , 2002, 537, 103-109.	1.9	49
22	A New Polyphenol Oxidase Biosensor Mediated by Azure B in Laponite Clay Matrix. <i>Electroanalysis</i> , 2003, 15, 1506-1512.	1.5	49
23	Biotinylated alginate immobilization matrix in the construction of an amperometric biosensor: application for the determination of glucose. <i>Analytica Chimica Acta</i> , 2002, 453, 71-79.	2.6	48
24	Characterization of Hemoglobin Immobilized in MgAl-Layered Double Hydroxides by the Coprecipitation Method. <i>Langmuir</i> , 2010, 26, 9997-10004.	1.6	48
25	Recent trends in electrochemical detection of phosphate in actual waters. <i>Current Opinion in Electrochemistry</i> , 2018, 11, 55-61.	2.5	47
26	Electrochemical determination of mesotrione at organoclay modified glassy carbon electrodes. <i>Talanta</i> , 2013, 103, 337-343.	2.9	46
27	Interactions between Biological Cells and Layered Double Hydroxides: Towards Functional Materials. <i>Chemical Record</i> , 2018, 18, 1150-1166.	2.9	46
28	Electrodes modified with synthetic anionic clays. <i>Applied Clay Science</i> , 1995, 10, 147-162.	2.6	44
29	Elaboration and Characterization of Spatially Controlled Assemblies of Complementary Polyphenol Oxidaseâ”Alkaline Phosphatase Activities on Electrodes. <i>Analytical Chemistry</i> , 2001, 73, 2890-2897.	3.2	44
30	Electrogeneration of a Hydrophilic Cross-Linked Polypyrrole Film for Enzyme Electrode Fabrication. Application to the Amperometric Detection of Glucose. <i>Electroanalysis</i> , 2001, 13, 186-190.	1.5	44
31	HRP Wiring by Redox Active Layered Double Hydroxides: Application to the Mediated H ₂ O ₂ Detection. <i>Analytical Letters</i> , 2003, 36, 909-922.	1.0	42
32	Spongy gel-like layered double hydroxideâ€“alkaline phosphatase nanohybrid as a biosensing material. <i>Chemical Communications</i> , 2008, , 1554.	2.2	41
33	Laccase electrodes based on the combination of single-walled carbon nanotubes and redox layered double hydroxides: Towards the development of biocathode for biofuel cells. <i>Journal of Power Sources</i> , 2010, 195, 4714-4717.	4.0	41
34	LDHs as Electrode Materials for Electrochemical Detection and Energy Storage: Supercapacitor, Battery and (Bio)-Sensor. <i>Recent Patents on Nanotechnology</i> , 2012, 6, 174-192.	0.7	40
35	Hybrid layered double hydroxides-polypyrrole composites for construction of glucose/O ₂ biofuel cell. <i>Electrochimica Acta</i> , 2011, 56, 10378-10384.	2.6	39
36	Insights into the electrochemistry of (Co _x Ni(1â”x)) ₂ Alâ€“NO ₃ Layered Double Hydroxides. <i>Electrochimica Acta</i> , 2013, 107, 599-610.	2.6	39

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37	Synthesis Route to Supported Gold Nanoparticle Layered Double Hydroxides as Efficient Catalysts in the Electrooxidation of Methanol. <i>Langmuir</i> , 2012, 28, 15065-15074.	1.6	38
38	Comparative study between organic and inorganic entrapment matrices for urease biosensor development. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 671-679.	4.0	37
39	An insight into the electrochemical behavior of Co/Al layered double hydroxide thin films prepared by electrodeposition. <i>Journal of Power Sources</i> , 2012, 201, 360-367.	4.0	35
40	Electrodeposition of Layered Double Hydroxides on platinum: Insights into the reactions sequence. <i>Electrochimica Acta</i> , 2015, 152, 75-83.	2.6	35
41	Possible analytical application of laponite clay modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1994, 379, 103-110.	1.9	34
42	Electrochemical Study of Anionic Ferrocene Derivatives Intercalated in Layered Double Hydroxides: Application to Glucose Amperometric Biosensors. <i>Electroanalysis</i> , 2009, 21, 399-408.	1.5	34
43	Amperometric biosensors based on LDH-ALGINATE hybrid nanocomposite for aqueous and non-aqueous phenolic compounds detection. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 36-42.	4.0	34
44	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.	1.2	31
45	A new approach for nitrite determination based on a HRP/catalase biosensor. <i>Materials Science and Engineering C</i> , 2008, 28, 726-730.	3.8	30
46	Dynamic Characterization of Inter- and Intralamellar Domains of Cobalt-Based Layered Double Hydroxides upon Electrochemical Oxidation. <i>Chemistry of Materials</i> , 2016, 28, 7793-7806.	3.2	28
47	Fabrication of organic phase biosensors based on multilayered polyphenol oxidase protected by an alginate coating. <i>Electrochemistry Communications</i> , 2001, 3, 727-732.	2.3	27
48	A templated electrosynthesis of macroporous NiAl layered double hydroxides thin films. <i>Chemical Communications</i> , 2011, 47, 1761-1763.	2.2	27
49	Bacteria encapsulated in layered double hydroxides: Towards an efficient bionanohybrid for pollutant degradation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 344-350.	2.5	27
50	Rutin Determination at an Amperometric Biosensor. <i>Electroanalysis</i> , 2007, 19, 253-258.	1.5	26
51	Direct Electron Transfer and Enhanced Electrocatalytic Activity of Hemoglobin at Iron-Rich Clay Modified Electrodes. <i>Langmuir</i> , 2009, 25, 10376-10383.	1.6	25
52	Structural and electrochemical characterization of metallo-porphyrins intercalated into ZnCr-layered double hydroxides: some evidence of dimer formation. <i>New Journal of Chemistry</i> , 2011, 35, 1898.	1.4	24
53	Organic phase PPO biosensor based on hydrophilic films of electropolymerized polypyrrole. <i>Electrochimica Acta</i> , 2005, 50, 3713-3718.	2.6	23
54	Electrocatalytic Properties of Metal Phthalocyanine Tetrasulfonate Intercalated in Metal Layered Simple Hydroxides (Metal: Co, Cu, and Zn). <i>Journal of Physical Chemistry C</i> , 2015, 119, 13335-13342.	1.5	23

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55	Concomitant Intercalation and Decomplexation of Ferrocene Sulfonates in Layered Double Hydroxides. <i>Journal of Solid State Chemistry</i> , 1999, 144, 143-151.	1.4	22
56	Optimized immobilization of transketolase from <i>E. coli</i> in MgAl-layered double hydroxides. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 112, 452-459.	2.5	22
57	Insulator semiconductor structures coated with biodegradable latexes as encapsulation matrix for urease†. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2318-2323.	5.3	21
58	H ₂ O ₂ determination at iron-rich clay modified electrodes. <i>Electrochimica Acta</i> , 2009, 54, 4237-4244.	2.6	21
59	Amperometric Biosensor Based on Galactose Oxidase Immobilized in Clay Matrix. <i>Electroanalysis</i> , 2013, 25, 630-635.	1.5	21
60	Interfacing a heteropolytungstate complex and gelatin through a coacervation process: design of bionanocomposite films as novel electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9208-9220.	5.2	20
61	Insight of an easy topochemical oxidative reaction in obtaining high performance electrochemical capacitor based on CollColll monometallic cobalt Layered Double Hydroxide. <i>Journal of Power Sources</i> , 2015, 293, 1-10.	4.0	19
62	Chiral Polyol Synthesis Catalyzed by a Thermostable Transketolase Immobilized on Layered Double Hydroxides in Ionic liquids. <i>ChemCatChem</i> , 2015, 7, 3163-3170.	1.8	18
63	Electrochemical properties of layered double hydroxides containing 3d metal cations. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1975-1983.	1.2	18
64	Amperometric detection of the herbicide mesotrione based on competitive reactions at nitroreductase@layered double hydroxide bioelectrode. <i>Journal of Electroanalytical Chemistry</i> , 2019, 835, 324-328.	1.9	18
65	Electrochemical detection of transketolase activity using a tyrosinase biosensor. <i>Biosensors and Bioelectronics</i> , 2010, 26, 139-143.	5.3	15
66	Insights into the Structure and the Electrochemical Reactivity of Cobalt-Manganese Layered Double Hydroxides: Application to H ₂ O ₂ Sensing. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15585-15599.	1.5	15
67	Thiamine biosensor based on oxidative trapping of enzyme-substrate intermediate. <i>Biosensors and Bioelectronics</i> , 2017, 87, 850-857.	5.3	14
68	Evaluation of hierarchical glucose oxidase/Co ₃ Mn-CO ₃ LDH modified electrodes for glucose detection. <i>Electrochimica Acta</i> , 2021, 376, 138050.	2.6	13
69	Hybrid Co ₂ Al-ABTS/reduced graphene oxide Layered Double Hydroxide: Towards O ₂ biocathode development. <i>Electrochimica Acta</i> , 2015, 158, 113-120.	2.6	12
70	A Fast and Direct Amperometric Determination of Hg ²⁺ by a Bienzyme Electrode Based on the Competitive Activities of Glucose Oxidase and Laccase. <i>Electroanalysis</i> , 2011, 23, 1776-1779.	1.5	11
71	A general route to nanostructured M[V ₃ O ₈] and M _x [V ₆ O ₁₆] (x = 1 and 2) and their first evaluation for building enzymatic biosensors. <i>Journal of Materials Chemistry</i> , 2012, 22, 15291.	6.7	11
72	An efficient amperometric transketolase assay: Towards inhibitor screening. <i>Biosensors and Bioelectronics</i> , 2014, 62, 90-96.	5.3	11

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73	High-Throughput Electrochemical Screening Assay for Free and Immobilized Oxidases: Electrochemiluminescence and Intermittent Pulse Amperometry. <i>ChemElectroChem</i> , 2017, 4, 957-966.	1.7	11
74	Assembly of nitroreductase and layered double hydroxides toward functional biohybrid materials. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 71-81.	5.0	11
75	Role of amphiphilic surfactant in electrochemical and spectroscopic behavior of p-nitrophenoxyl ammonium salts. <i>Journal of Colloid and Interface Science</i> , 1986, 113, 521-529.	5.0	10
76	Thin bacteria/Layered Double Hydroxide films using a layer-by-layer approach. <i>Journal of Colloid and Interface Science</i> , 2016, 474, 151-158.	5.0	10
77	Innovative Electrochemical Screening Allows Transketolase Inhibitors to Be Identified. <i>Analytical Chemistry</i> , 2018, 90, 9241-9248.	3.2	9
78	Electrochromic Thin Films Based on NiAl Layered Double Hydroxide Nanoclusters for Smart Windows and Low-Power Displays. <i>ACS Applied Nano Materials</i> , 2020, 3, 6552-6562.	2.4	9
79	Adsorption of Glycosidic Surfactants at the Mercury Electrode. <i>Journal of Colloid and Interface Science</i> , 1996, 184, 671-679.	5.0	7
80	Galactose Oxidase/Prussian Blue Based Biosensors. <i>Electroanalysis</i> , 2015, 27, 1341-1344.	1.5	7
81	Confined Growth of NiAl-Layered Double Hydroxide Nanoparticles Within Alginate Gel: Influence on Electrochemical Properties. <i>Frontiers in Chemistry</i> , 2020, 8, 561975.	1.8	7
82	Electroreducible amphiphilic compounds. <i>Journal of Colloid and Interface Science</i> , 1989, 128, 427-436.	5.0	6
83	Adsorption at the mercury electrode in relation to micelle and mixed micelle formation. Case of electroreducible phenoxyalkyl sulfates and SDS. <i>Journal of Electroanalytical Chemistry</i> , 1993, 349, 127-139.	1.9	5
84	A simple strategy based on photobiotin irradiation for the photoelectrochemical immobilization of proteins on electrode surfaces. <i>Materials Science and Engineering C</i> , 2006, 26, 436-441.	3.8	5
85	Electrochemical Reduction in an Aprotic Medium of New Functionalized Amphiphilic Molecules Derived from Sugars: Stereoselective Pinacolization and an Example of a Glycosidic Carbon-Oxygen Bond Cleavage. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 813-821.	1.2	4
86	Adsorption of Glycosidic Surfactants at the Mercury Electrode. <i>Journal of Colloid and Interface Science</i> , 1997, 188, 238.	5.0	1
87	Electrochemical behaviour of new electroreducible amphiphilic saccharide derivatives II: Electroreduction in protic media. <i>New Journal of Chemistry</i> , 1999, 23, 1171-1175.	1.4	1