

Claude Forano

List of Publications by Year in descending order

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68
papers

3,839
citations

117453

34
h-index

128067

60
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71
all docs

71
docs citations

71
times ranked

3670
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Al-rich hydrotalcite-like compounds by using the urea hydrolysis reaction—control of size and morphology. <i>Journal of Materials Chemistry</i> , 2003, 13, 1988-1993.	6.7	371
2	Delamination of layered double hydroxides by use of surfactants. <i>Chemical Communications</i> , 2000, , 91-92.	2.2	357
3	Delamination and restacking of layered double hydroxides. <i>Journal of Materials Chemistry</i> , 2001, 11, 105-112.	6.7	271
4	Tailoring Hybrid Layered Double Hydroxides for the Development of Innovative Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1703868.	7.8	205
5	Study on adsorption of glyphosate (N-phosphonomethyl glycine) pesticide on MgAl-layered double hydroxides in aqueous solution. <i>Journal of Hazardous Materials</i> , 2005, 125, 89-95.	6.5	134
6	Anionic Clays: Trends in Pillaring Chemistry. , 1992, , 108-169.		119
7	Hybrid derivatives of layered double hydroxides. <i>Applied Clay Science</i> , 2001, 18, 3-15.	2.6	100
8	Synthesis, characterization, and catalytic activity of anionic iron(III) porphyrins intercalated into layered double hydroxides. <i>Journal of Catalysis</i> , 2008, 257, 233-243.	3.1	99
9	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
10	Polymerization of Silicates in Layered Double Hydroxides. <i>Chemistry of Materials</i> , 1996, 8, 952-960.	3.2	92
11	Three Dimensionally Ordered Macroporous Layered Double Hydroxides: Preparation by Templated Impregnation/Coprecipitation and Pattern Stability upon Calcination. <i>Chemistry of Materials</i> , 2008, 20, 1116-1125.	3.2	91
12	Glyphosate and glufosinate detection at electrogenerated NiAl-LDH thin films. <i>Analytica Chimica Acta</i> , 2009, 654, 97-102.	2.6	88
13	How the Method of Synthesis Governs the Local and Global Structure of Zinc Aluminum Layered Double Hydroxides. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27695-27707.	1.5	81
14	Insight into the photocatalytic activity of ZnCr—CO ₃ LDH and derived mixed oxides. <i>Applied Catalysis B: Environmental</i> , 2015, 170-171, 25-33.	10.8	80
15	Nanohybrid Enzymes - Layered Double Hydroxides: Potential Applications. <i>Current Nanoscience</i> , 2006, 2, 283-294.	0.7	80
16	Structure and thermal evolution of Mg—Al layered double hydroxide containing interlayer organic glyphosate anions. <i>Thermochimica Acta</i> , 2004, 424, 15-23.	1.2	75
17	Glycine-Assisted Hydrothermal Synthesis of NiAl-Layered Double Hydroxide Nanostructures. <i>Crystal Growth and Design</i> , 2009, 9, 3646-3654.	1.4	66
18	Use of organic media to modify the surface and porosity properties of hydrotalcite-like compounds. <i>Microporous Materials</i> , 1997, 10, 67-84.	1.6	64

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19	Immobilization of anionic iron(III) porphyrins into ordered macroporous layered double hydroxides and investigation of catalytic activity in oxidation reactions. <i>Journal of Molecular Catalysis A</i> , 2009, 310, 42-50.	4.8	60
20	Texture effect of layered double hydroxides on chemisorption of Orange II. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 818-823.	1.9	53
21	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
22	Thermodynamical and structural insights of orange II adsorption by MgAl(OH) ₆ layered double hydroxides. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1016-1024.	1.4	49
23	Characterization of Hemoglobin Immobilized in MgAl-Layered Double Hydroxides by the Coprecipitation Method. <i>Langmuir</i> , 2010, 26, 9997-10004.	1.6	48
24	Use of the Ion-Exchange Properties of Layered Double Hydroxides for Water Purification. <i>Collection of Czechoslovak Chemical Communications</i> , 1998, 63, 732-740.	1.0	47
25	Atrazine biodegradation modulated by clays and clay/humic acid complexes. <i>Environmental Pollution</i> , 2009, 157, 2837-2844.	3.7	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	Design and Kinetic Study of Sustainable Potential Slow-Release Fertilizer Obtained by Mechanochemical Activation of Clay Minerals and Potassium Monohydrogen Phosphate. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 708-716.	1.8	45
29	Competitive reactions during synthesis of zinc aluminum layered double hydroxides by thermal hydrolysis of urea. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21795-21806.	5.2	43
30	Spongy gel-like layered double hydroxide-alkaline phosphatase nanohybrid as a biosensing material. <i>Chemical Communications</i> , 2008, , 1554.	2.2	41
31	Enhancing atrazine biodegradation by <i>Pseudomonas</i> sp. strain ADP adsorption to Layered Double Hydroxide bionanocomposites. <i>Journal of Hazardous Materials</i> , 2011, 191, 126-135.	6.5	41
32	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
33	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
34	Reactivity of oxalate with ZnAl layered double hydroxides through new materials. <i>Journal of Materials Chemistry</i> , 1999, 9, 155-160.	6.7	34
35	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
36	Structural aspects and thermal properties of takovite-like layered double hydroxides pillared with chromium oxo-anions. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 3831-3839.	1.1	32

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37	Efficient Immobilization of Yeast Transketolase on Layered Double Hydroxides and Application for Ketose Synthesis. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 1497-1509.	2.1	32
38	Environmental Remediation Involving Layered Double Hydroxides. <i>Interface Science and Technology</i> , 2004, 1, 425-458.	1.6	28
39	Photocatalytic degradation of metsulfuron methyl in aqueous solution by decatungstate anions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 199, 297-302.	2.0	28
40	Potential Sustainable Slow-Release Fertilizers Obtained by Mechanochemical Activation of MgAl and MgFe Layered Double Hydroxides and K ₂ HPO ₄ . <i>Nanomaterials</i> , 2019, 9, 183.	1.9	28
41	A templated electrosynthesis of macroporous NiAl layered double hydroxides thin films. <i>Chemical Communications</i> , 2011, 47, 1761-1763.	2.2	27
42	Efficient immobilization of fructose-6-phosphate aldolase in layered double hydroxide: improved stereoselective synthesis of sugar analogues. <i>New Journal of Chemistry</i> , 2011, 35, 776.	1.4	27
43	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
44	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
45	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
46	Atomic Level Understanding of Orthophosphate Adsorption by Magnesium Aluminum-Layered Double Hydroxides—A Multitechnique Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24039-24050.	1.5	24
47	Differentiation of mobile and immobile pesticides on anionic clays by ¹ H HR MAS NMR spectroscopy. <i>Chemical Communications</i> , 2001, , 2214-2215.	2.2	23
48	Heterogeneous photocatalytic degradation of pesticides using decatungstate intercalated macroporous layered double hydroxides. <i>Environmental Science and Pollution Research</i> , 2014, 21, 11218-11227.	2.7	23
49	Sequestration of orthophosphate by Ca ₂ Al-NO ₃ layered double hydroxide — Insight into reactivity and mechanism. <i>Applied Clay Science</i> , 2019, 176, 49-57.	2.6	23
50	Optimized immobilization of transketolase from E. coli in MgAl-layered double hydroxides. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 112, 452-459.	2.5	22
51	Structural Investigation of Zn(II) Insertion in Bayerite, an Aluminum Hydroxide. <i>Inorganic Chemistry</i> , 2016, 55, 9306-9315.	1.9	22
52	Precipitation of Zn ₂ Al LDH by urease enzyme. <i>Chemical Communications</i> , 2006, , 290-292.	2.2	21
53	Design of Artificial Metabolisms in Layered Nanomaterials for the Enzymatic Synthesis of Phosphorylated Sugars. <i>ChemCatChem</i> , 2015, 7, 3110-3115.	1.8	19
54	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

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55	High-Density Protein Loading on Hierarchically Porous Layered Double Hydroxide Composites with a Rational Mesostructure. <i>Langmuir</i> , 2016, 32, 8826-8833.	1.6	18
56	Cu ²⁺ /Ce ⁴⁺ /O mixed oxides from Ce-containing layered double hydroxide precursors: Controllable preparation and catalytic performance. <i>Journal of Solid State Chemistry</i> , 2011, 184, 3232-3239.	1.4	16
57	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
58	ZnCr-LDHs with dual adsorption and photocatalysis capability for the removal of acid orange 7 dye in aqueous solution. <i>Journal of Science: Advanced Materials and Devices</i> , 2021, 6, 118-126.	1.5	15
59	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
60	Nanostructured layered double hydroxide aerogels with enhanced adsorption properties. <i>Chemical Communications</i> , 2012, 48, 7197.	2.2	12
61	Polysaccharide-layered double hydroxide-aldolase biohybrid beads for biocatalysed CC bond formation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 122, 204-211.	1.8	11
62	The distribution of reactive Ni ²⁺ in 2D Mg _{2-x} Ni _x Al-LDH nanohybrid materials determined by solid state ²⁷ Al MAS NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25335-25342.	1.3	11
63	Intercalation of Tetracyanoquinodimethane in [Zn-Al] Layered Double Hydroxide. <i>Materials Research Bulletin</i> , 1998, 33, 783-788.	2.7	9
64	Photocatalytic properties of aqueous systems containing TiO ₂ nanoparticles. <i>Catalysis Today</i> , 2011, 161, 140-146.	2.2	7
65	Anionic Iron(III) Porphyrin Immobilized on/into Exfoliated Macroporous Layered Double Hydroxides as Catalyst for Oxidation Reactions. <i>Journal of the Brazilian Chemical Society</i> , 2014, , .	0.6	4
66	Layered Double Hydroxides/Trypsin Based Conductometric Biosensors. <i>Sensor Letters</i> , 2009, 7, 888-895.	0.4	4
67	Structural insight into the photoinduced E ⁺ Z isomerisation of cinnamate embedded in ZnAl and MgAl layered double hydroxides. <i>Journal of Molecular Structure</i> , 2020, 1219, 128561.	1.8	3
68	Current Trends in Iron Complexes Intercalated Layered Double Hydroxides. <i>Current Inorganic Chemistry</i> , 2015, 5, 194-207.	0.2	2