

# Vanessa Prevot

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/598529/publications.pdf>

Version: 2024-02-01

76  
papers

2,636  
citations

147566

31  
h-index

205818

48  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2984  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailoring Hybrid Layered Double Hydroxides for the Development of Innovative Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1703868.	7.8	205
2	Hybrid derivatives of layered double hydroxides. <i>Applied Clay Science</i> , 2001, 18, 3-15.	2.6	100
3	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
4	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
5	Layered Double Hydroxide Nanoclusters: Aqueous, Concentrated, Stable, and Catalytically Active Colloids toward Green Chemistry. <i>ACS Nano</i> , 2016, 10, 5550-5559.	7.3	89
6	Glyphosate and glufosinate detection at electrogenerated NiAl-LDH thin films. <i>Analytica Chimica Acta</i> , 2009, 654, 97-102.	2.6	88
7	Hybrid and biohybrid layered double hydroxides for electrochemical analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3513-3523.	1.9	84
8	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
9	Insight into the photocatalytic activity of ZnCrâ€“CO <sub>3</sub> LDH and derived mixed oxides. <i>Applied Catalysis B: Environmental</i> , 2015, 170-171, 25-33.	10.8	80
10	Macroscopically Ordered Hydrotalcite-Type Materials Using Self-Assembled Colloidal Crystal Template. <i>Chemistry of Materials</i> , 2006, 18, 238-240.	3.2	69
11	Glycine-Assisted Hydrothermal Synthesis of NiAl-Layered Double Hydroxide Nanostructures. <i>Crystal Growth and Design</i> , 2009, 9, 3646-3654.	1.4	66
12	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
13	3D hierarchical and porous layered double hydroxide structures: an overview of synthesis methods and applications. <i>Journal of Materials Science</i> , 2017, 52, 11229-11250.	1.7	57
14	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
15	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
16	Thermodynamical and structural insights of orange II adsorption by MgRAIN <sub>3</sub> layered double hydroxides. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1016-1024.	1.4	49
17	Characterization of Hemoglobin Immobilized in MgAl-Layered Double Hydroxides by the Coprecipitation Method. <i>Langmuir</i> , 2010, 26, 9997-10004.	1.6	48
18	Interactions between Biological Cells and Layered Double Hydroxides: Towards Functional Materials. <i>Chemical Record</i> , 2018, 18, 1150-1166.	2.9	46

#	ARTICLE	IF	CITATIONS
19	Design and Kinetic Study of Sustainable Potential Slow-Release Fertilizer Obtained by Mechanochemical Activation of Clay Minerals and Potassium Monohydrogen Phosphate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 708-716.	1.8	45
20	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
21	Spongy gel-like layered double hydroxide-alkaline phosphatase nanohybrid as a biosensing material. <i>Chemical Communications</i> , 2008, , 1554.	2.2	41
22	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
23	Layered double hydroxides decorated with Au-Pd nanoparticles to photodegrade Orange II from water. <i>Applied Clay Science</i> , 2016, 134, 120-127.	2.6	39
24	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
25	Nanocomposite latexes containing layered double hydroxides via RAFT-assisted encapsulating emulsion polymerization. <i>Polymer Chemistry</i> , 2017, 8, 1233-1243.	1.9	37
26	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
27	Effect of MacroRAFT Copolymer Adsorption on the Colloidal Stability of Layered Double Hydroxide Nanoparticles. <i>Langmuir</i> , 2015, 31, 12609-12617.	1.6	35
28	Electrodeposition of Layered Double Hydroxides on platinum: Insights into the reactions sequence. <i>Electrochimica Acta</i> , 2015, 152, 75-83.	2.6	35
29	Reactivity of oxalate with ZnAl layered double hydroxides through new materials. <i>Journal of Materials Chemistry</i> , 1999, 9, 155-160.	6.7	34
30	Intracrystalline alkylation of benzoate ions into layered double hydroxides. <i>Journal of Materials Chemistry</i> , 2001, 11, 554-560.	6.7	34
31	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
32	Photocatalytic behavior of nanosized TiO <sub>2</sub> immobilized on layered double hydroxides by delamination/restacking process. <i>Environmental Science and Pollution Research</i> , 2012, 19, 3709-3718.	2.7	31
33	Synthesis and characterization of macroporous MgAl LDH using polystyrene spheres as template. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 903-908.	1.9	30
34	Potential Sustainable Slow-Release Fertilizers Obtained by Mechanochemical Activation of MgAl and MgFe Layered Double Hydroxides and K <sub>2</sub> HPO <sub>4</sub> . <i>Nanomaterials</i> , 2019, 9, 183.	1.9	28
35	A templated electrosynthesis of macroporous NiAl layered double hydroxides thin films. <i>Chemical Communications</i> , 2011, 47, 1761-1763.	2.2	27
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Design of latex-layered double hydroxide composites by tuning the aggregation in suspensions. <i>Soft Matter</i> , 2017, 13, 842-851.	1.2	25
40	Evidences of segregated SnO <sub>2</sub> type nanoparticles coating layered double hydroxide at moderate temperature. <i>Journal of Colloid and Interface Science</i> , 2006, 299, 747-753.	5.0	24
41	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
42	Controlling the Morphology of Film-Forming, Nanocomposite Latexes Containing Layered Double Hydroxide by RAFT-Mediated Emulsion Polymerization. <i>Macromolecules</i> , 2018, 51, 3953-3966.	2.2	23
43	Structural Investigation of Zn(II) Insertion in Bayerite, an Aluminum Hydroxide. <i>Inorganic Chemistry</i> , 2016, 55, 9306-9315.	1.9	22
44	Intracrystalline reactivity of layered double hydroxides: carboxylate alkylations in dry media. <i>New Journal of Chemistry</i> , 2000, 24, 119-121.	1.4	21
45	H <sub>2</sub> O <sub>2</sub> determination at iron-rich clay modified electrodes. <i>Electrochimica Acta</i> , 2009, 54, 4237-4244.	2.6	21
46	Layered double hydroxides: Efficient fillers for waterborne nanocomposite films. <i>Applied Clay Science</i> , 2016, 130, 55-61.	2.6	21
47	Microstructural study of different LDH morphologies obtained via different synthesis routes. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 487-490.	1.9	19
48	Preparation of TiO <sub>2</sub> /SiO <sub>2</sub> composite photocatalysts for environmental applications. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1129-1135.	1.6	19
49	Design of Artificial Metabolisms in Layered Nanomaterials for the Enzymatic Synthesis of Phosphorylated Sugars. <i>ChemCatChem</i> , 2015, 7, 3110-3115.	1.8	19
50	Physicochemical, thermal, and mechanical approaches for the characterization of solubilized and solid state chitosans. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	19
51	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
52	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
53	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
54	Instant One-Pot Preparation of Functional Layered Double Hydroxides (LDHs) via a Continuous Hydrothermal Approach. <i>ChemNanoMat</i> , 2017, 3, 614-619.	1.5	15

#	ARTICLE	IF	CITATIONS
55	Synthesis and Structural Characterization of a Pure ZnAl <sub>4</sub> (OH) <sub>12</sub> (SO <sub>4</sub> ) <sub>2</sub> ·2.6H <sub>2</sub> O Layered Double Hydroxide. <i>Inorganic Chemistry</i> , 2019, 58, 6114-6122.	1.9	15
56	Thiamine biosensor based on oxidative trapping of enzyme-substrate intermediate. <i>Biosensors and Bioelectronics</i> , 2017, 87, 850-857.	5.3	14
57	Tailored microstructure and mechanical properties of nanocomposite films made from polyacrylic/LDH hybrid latexes synthesized by RAFT-mediated emulsion polymerization. <i>Polymer Chemistry</i> , 2018, 9, 2590-2600.	1.9	13
58	An in-situ investigation of LDH acetate prepared in polyol, under moderate thermal treatment. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1091-1094.	1.9	12
59	Nanostructured layered double hydroxide aerogels with enhanced adsorption properties. <i>Chemical Communications</i> , 2012, 48, 7197.	2.2	12
60	Sepiolite-Hydrogels: Synthesis by Ultrasound Irradiation and Their Use for the Preparation of Functional Clay-Based Nanoarchitected Materials. <i>Frontiers in Chemistry</i> , 2021, 9, 733105.	1.8	12
61	Dendrimer intercalation in layered double hydroxides. <i>Journal of Porous Materials</i> , 2010, 17, 443-451.	1.3	11
62	Hierarchically structured carbon replica of hybrid layered double hydroxide. <i>New Journal of Chemistry</i> , 2011, 35, 169-177.	1.4	11
63	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
64	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
65	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
66	Aerosol-assisted self-assembly of hybrid Layered Double Hydroxide particles into spherical architectures. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 566-572.	5.0	9
67	Intercalation and structural aspects of macroRAFT agents into MgAl layered double hydroxides. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 2000-2012.	1.5	9
68	Base-metal catalysts based on porous layered double hydroxides for alkaline-free sodium borohydride hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20092-20102.	3.8	9
69	Innovative Electrochemical Screening Allows Transketolase Inhibitors to Be Identified. <i>Analytical Chemistry</i> , 2018, 90, 9241-9248.	3.2	9
70	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
71	Photocatalytic properties of aqueous systems containing TiO <sub>2</sub> nanoparticles. <i>Catalysis Today</i> , 2011, 161, 140-146.	2.2	7
72	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

#	ARTICLE	IF	CITATIONS
73	Porous Layered Double Hydroxide/TiO <sub>2</sub> Photocatalysts for the Photocatalytic Degradation of Orange II. ChemEngineering, 2020, 4, 39.	1.0	6
74	Anionic Iron(III) Porphyrin Immobilized on/into Exfoliated Macroporous Layered Double Hydroxides as Catalyst for Oxidation Reactions. Journal of the Brazilian Chemical Society, 2014, , .	0.6	4
75	Layered Double Hydroxides/Trypsin Based Conductometric Biosensors. Sensor Letters, 2009, 7, 888-895.	0.4	4
76	Structural insight into the photoinduced E <sup>+</sup> Z isomerisation of cinnamate embedded in ZnAl and MgAl layered double hydroxides. Journal of Molecular Structure, 2020, 1219, 128561.	1.8	3