Christine Taviot-Gueho

List of Publications by Citations

85 papers	3,442 citations	36 h-index	57 g-index
88 ext. papers	3,747 ext. citations	5.7 avg, IF	4.99 L-index

#	Paper	IF	Citations
85	Fine tuning between organic and inorganic host structure: new trends in layered double hydroxide hybrid assemblies. *Journal of Materials Chemistry*, **2005**, 15, 3628		307
84	Self-assembly and characterization of layered double hydroxide/DNA hybrids. *Nano Letters*, **2006**, 6, 199-204	12.3	244
83	Adsorption of MCPA pesticide by MgAl-layered double hydroxides. *Applied Clay Science*, **2001**, 18, 255-264	5.2	172
82	Tailoring Hybrid Layered Double Hydroxides for the Development of Innovative Applications. *Advanced Functional Materials*, **2018**, 28, 1703868	15.6	124
81	High-Performing Monometallic Cobalt Layered Double Hydroxide Supercapacitor with Defined Local Structure. *Advanced Functional Materials*, **2014**, 24, 4831-4842	15.6	123
80	Chapter 13.1 Layered Double Hydroxides. *Developments in Clay Science*, **2006**, 1, 1021-1095		114
79	Insights on the Structural Chemistry of Hydrocalumite and Hydrotalcite-like Materials: Investigation of the Series Ca2M3+(OH)6Cl□2H2O (M3+: Al3+, Ga3+, Fe3+, and Sc3+) by X-Ray Powder Diffraction. *Journal of Solid State Chemistry*, **2002**, 167, 137-144	3.3	113
78	Synthesis, characterization, and catalytic activity of anionic iron(III) porphyrins intercalated into layered double hydroxides. *Journal of Catalysis*, **2008**, 257, 233-243	7.3	91
77	Hydrocalumite and Its Polymer Derivatives. 1. Reversible Thermal Behavior of Friedel□s Salt: A Direct Observation by Means of High-Temperature in Situ Powder X-ray Diffraction. *Chemistry of Materials*, **2003**, 15, 4361-4368	9.6	86
76	Optimization of PVA clay nanocomposite for ultra-barrier multilayer encapsulation of organic solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 99, 240-249	6.4	80
75	Thermodynamics of anion exchange on a chloride-intercalated zinc□luminum layered double hydroxide: a microcalorimetric study. *Dalton Transactions RSC*, **2000**, 791-796		72
74	Zn2Al layered double hydroxides intercalated and adsorbed with anionic blue dyes: a physico-chemical characterization. *Journal of Colloid and Interface Science*, **2009**, 333, 120-7	9.3	67
73	Synthesis and characterization of the LDH hydrotalcite□yroaurite solid-solution series. *Cement and Concrete Research*, **2010**, 40, 1248-1254	10.3	66
72	A Raman Study of the Sulfated Cement Hydrates: Ettringite and Monosulfoaluminate. *Journal of Advanced Concrete Technology*, **2007**, 5, 299-312	2.3	66
71	Structural, Spectroscopic (NMR, IR, and Raman), and DFT Investigation of the Self-Assembled Nanostructure of Pravastatin-LDH (Layered Double Hydroxides) Systems. *Chemistry of Materials*, **2012**, 24, 1415-1425	9.6	61
70	Unusual Polystyrene Nanocomposite Structure Using Emulsifier-Modified Layered Double Hydroxide as Nanofiller. *Chemistry of Materials*, **2008**, 20, 4854-4860	9.6	60
69	Staging of Organic and Inorganic Anions in Layered Double Hydroxides. *Journal of Physical Chemistry B*, **2003**, 107, 9243-9248	3.4	60

68	Porphyrins Intercalated in Zn/Al and Mg/Al Layered Double Hydroxides: Properties and Structural Arrangement. *Chemistry of Materials*, **2010**, 22, 2481-2490	9.6	57
67	Glycine-Assisted Hydrothermal Synthesis of NiAl-Layered Double Hydroxide Nanostructures. *Crystal Growth and Design*, **2009**, 9, 3646-3654	3.5	57
66	Intercalation of dicarboxylate anions into a ZnAlCl layered double hydroxide: microcalorimetric determination of the enthalpies of anion exchange. *Journal of Materials Chemistry*, **2003**, 13, 2582-2585		57
65	Organic inorganic dye filler for polymer: blue-coloured layered double hydroxides into polystyrene. *Journal of Colloid and Interface Science*, **2008**, 326, 366-73	9.3	56
64	Adsorption of PolyCarboxylate Poly(ethylene glycol) (PCP) esters on Montmorillonite (Mmt): effect of exchangeable cations (Na+, Mg2+ and Ca2+) and PCP molecular structure. *Journal of Colloid and Interface Science*, **2015**, 437, 227-234	9.3	53
63	In situ polymerization of interleaved monomers: a comparative study between hydrotalcite and hydrocalumite host structures??Keynote Lecture.. *Journal of Physics and Chemistry of Solids*, **2004**, 65, 385-393	3.9	53
62	Hydrocalumite and Its Polymer Derivatives. 2. Polymer Incorporation versus in Situ Polymerization of Styrene-4-sulfonate. *Chemistry of Materials*, **2003**, 15, 4369-4376	9.6	53
61	Correlation among Structure, Microstructure, and Electrochemical Properties of NiAlCO3 Layered Double Hydroxide Thin Films. *Journal of Physical Chemistry C*, **2012**, 116, 15646-15659	3.8	52
60	Selective Anion-Exchange Properties of Second-Stage Layered Double Hydroxide Heterostructures. *Chemistry of Materials*, **2006**, 18, 4312-4318	9.6	50
59	Layered particle-based polymer composites for coatings: Part I. Evaluation of layered double hydroxides. *Progress in Organic Coatings*, **2009**, 64, 182-192	4.8	45
58	Effect of layer charge modification for Co?Al layered double hydroxides: study by X-ray absorption spectroscopy. *Solid State Sciences*, **2001**, 3, 81-92	3.4	44
57	Structural insight into iodide uptake by AFm phases. *Environmental Science & Technology*, **2012**, 46, 3874-81	10.3	43
56	In Situ Polymerization and Intercalation of Polymers in Layered Double Hydroxides121-159		42
55	Layered double hydroxide and sulindac coiled and scrolled nanoassemblies for storage and drug release. *RSC Advances*, **2016**, 6, 16419-16436	3.7	41
54	Photostability and photobactericidal properties of porphyrin-layered double hydroxide-polyurethane composite films. *Journal of Materials Chemistry B*, **2013**, 1, 2139-2146	7.3	41
53	Porphyrin-layered double hydroxide/polymer composites as novel ecological photoactive surfaces. *Journal of Materials Chemistry*, **2010**, 20, 9423		41
52	Cationic ordering and second-staging structures in copper-chromium and zinc-chromium layered double hydroxides. *Applied Clay Science*, **2005**, 28, 111-120	5.2	40
51	Intercalation chemistry in a LDH system: anion exchange process and staging phenomenon investigated by means of time-resolved, in situ X-ray diffraction. *Dalton Transactions*, **2010**, 39, 5994-6005	4.3	37

50	The effect of polymer solubilizing side-chains on solar cell stability. *Physical Chemistry Chemical Physics*, **2015**, 17, 11884-97	3.6	36
49	Insights into the electrochemistry of (CoxNi(1-x))2Al-NO3 Layered Double Hydroxides. *Electrochimica Acta*, **2013**, 107, 599-610	6.7	36
48	Hydrocalumite-type materials: 1. Interest in hazardous waste immobilization. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 1037-1042	3.9	35
47	Anion and Cation Order in Iodide-Bearing Mg/Zn-Al Layered Double Hydroxides. *Journal of Physical Chemistry C*, **2012**, 116, 5460-5475	3.8	33
46	Staging during anion-exchange intercalation into [LiAl2(OH)6]Cl.yH2O: structural and mechanistic insights. *Dalton Transactions*, **2007**, 3499-506	4.3	32
45	The Porous Network and its Interface inside Geopolymers as a Function of Alkali Cation and Aging. *Journal of Physical Chemistry C*, **2015**, 119, 17619-17632	3.8	31
44	Is there a photostable conjugated polymer for efficient solar cells?. *Polymer Degradation and Stability*, **2015**, 112, 175-184	4.7	31
43	Synthesis and characterization of mixed Ga/Al-containing layered double hydroxides: study of their basic properties through the Knoevenagel condensation of benzaldehyde and ethyl cyanoacetate, and comparison to other LDHs. *Solid State Sciences*, **1999**, 1, 165-174		30
42	Insight into the Structure of Layered Zinc Hydroxide Salts Intercalated with Dodecyl Sulfate Anions. *Journal of Physical Chemistry C*, **2014**, 118, 27131-27141	3.8	26
41	LDH-dye hybrid material as coloured filler into polystyrene: Structural characterization and rheological properties. *Journal of Physics and Chemistry of Solids*, **2007**, 68, 1140-1146	3.9	26
40	Multiphase Structure of Tantalum Oxynitride TaOxNy Thin Films Deposited by Reactive Magnetron Sputtering. *Journal of Physical Chemistry C*, **2015**, 119, 23559-23571	3.8	23
39	Exfoliation and liquid crystal phase formation of layered double hydroxide into waterborne polyurethane coatings. *Soft Matter*, **2011**, 7, 4242	3.6	23
38	Structural and electrochemical characterization of metallo-porphyrins intercalated into ZnCr-layered double hydroxides: some evidence of dimer formation. *New Journal of Chemistry*, **2011**, 35, 1898	3.6	21
37	Reactive and functionalized LDH fillers for polymer. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 1362-1366	3.9	21
36	Synthesis and characterization of a new ruthenium containing LDH: [Zn-Al-RuCl5H2O2]. *Journal of Materials Chemistry*, **2001**, 11, 640-643		21
35	Concomitant Intercalation and Decomplexation of Ferrocene Sulfonates in Layered Double Hydroxides. *Journal of Solid State Chemistry*, **1999**, 144, 143-151	3.3	21
34	Iron-Based Layered Double Hydroxide Implants: Potential Drug Delivery Carriers with Tissue Biointegration Promotion and Blood Microcirculation Preservation. *ACS Omega*, **2018**, 3, 18263-18274	3.9	21
33	Dynamic Characterization of Inter- and Intralamellar Domains of Cobalt-Based Layered Double Hydroxides upon Electrochemical Oxidation. *Chemistry of Materials*, **2016**, 28, 7793-7806	9.6	19

32	Tracking the Structural Dynamics of Hybrid Layered Double Hydroxides. *Chemistry of Materials*, **2011**, 23, 1482-1490	9.6	16
31	Unusual Incorporation of Neutral and Low Water-Soluble Guest Molecules into Layered Double Hydroxides: The Case of Cucurbit[6 and 7]uril Inclusion Hosts. *Chemistry of Materials*, **2011**, 23, 1350-1352	9.6	16
30	Molecular modeling of the structure and dynamics of the interlayer species of ZnAlCl layered double hydroxide. *Journal of Physical Chemistry B*, **2008**, 112, 7856-64	3.4	16
29	Synthesis and Structural Characterization of Two New Rare-Earth Manganese Germanates: CeMn2Ge4O12and GdMnGe2O7. *Journal of Solid State Chemistry*, **1999**, 143, 145-150	3.3	16
28	Microstructural study of different LDH morphologies obtained via different synthesis routes. *Journal of Physics and Chemistry of Solids*, **2010**, 71, 487-490	3.9	15
27	Structural and ellipsometric study on tailored optical properties of tantalum oxynitride films deposited by reactive sputtering. *Journal Physics D: Applied Physics*, **2014**, 47, 475201	3	14
26	Hybrid organic□inorganic materials: Layered hydroxy double salts intercalated with substituted thiophene monomers. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 978-982	3.9	14
25	Hydrocalumite-type materials: 2. Local order into Ca2Fe(OH)6(CrO42□0.5□nH2O in temperature studied by X-ray absorption and M□ssbauer spectroscopies. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 1043-1047	3.9	9
24	Thermooxidative degradation of crosslinked EVA/EPDM copolymers: Impact of Aluminium TriHydrate (ATH) filler incorporation. *Polymer Degradation and Stability*, **2018**, 153, 130-144	4.7	8
23	New layered double hydroxides intercalated with substituted pyrroles. 2. 3-(Pyrrol-1-yl)-propanoate and 7-(pyrrol-1-yl)-heptanoate LDHs. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 973-977	3.9	7
22	Intercalation and structural aspects of macroRAFT agents into MgAl layered double hydroxides. *Beilstein Journal of Nanotechnology*, **2016**, 7, 2000-2012	3	7
21	Clavulanic acid separation on fixed bed columns of layered double hydroxides: Optimization of operating parameters using breakthrough curves. *Process Biochemistry*, **2016**, 51, 509-516	4.8	6
20	New insights into two ciprofloxacin-intercalated arrangements for layered double hydroxide carrier materials. *New Journal of Chemistry*, **2020**, 44, 10076-10086	3.6	5
19	Outstanding chain-extension effect and high UV resistance of polybutylene succinate containing amino-acid-modified layered double hydroxides. *Beilstein Journal of Nanotechnology*, **2019**, 10, 684-695	3	4
18	Phytochemical species intercalated into layered double hydroxides: structural investigation and biocompatibility assays. *New Journal of Chemistry*, **2020**, 44, 10011-10021	3.6	4
17	Development and characterization of a new adsorbent for biomolecule separation: intercalation and adsorption of clavulanic acid in layered double hydroxides. *Journal of Chemical Technology and Biotechnology*, **2016**, 91, 1709-1719	3.5	4
16	Analgesic molecules interleaved between layered double hydroxide: Exchange versus in situ reaction and release properties. *Journal of Solid State Chemistry*, **2018**, 268, 159-167	3.3	4
15	Insights into the Structure and the Electrochemical Reactivity of Cobalt-Manganese Layered Double Hydroxides: Application to H2O2 Sensing. *Journal of Physical Chemistry C*, **2020**, 124, 15585-15599	3.8	3

14	Unravelling lithiation mechanisms of iron trifluoride by operando X-ray absorption spectroscopy and MCR-ALS chemometric tools. *New Journal of Chemistry*, **2020**, 44, 10153-10164	3.6	3
13	Investigation about iron(III) incorporation into layered double hydroxides: Compositional and structural properties of Mg2FeyAl(1−y)(OH)6-Cl and Zn2FeyAl(1−y)(OH)6-Cl. *Journal of Alloys and Compounds*, **2021**, 886, 161184	5.7	3
12	Side chain structure and dispersity impact the photostability of low band gap polymers. *Polymer Degradation and Stability*, **2017**, 146, 155-160	4.7	2
11	Hydrocalumite and Its Polymer Derivatives. Part 1. Reversible Thermal Behavior of Friedel?s Salt: A Direct Observation by Means of High-Temperature in situ Powder X-Ray Diffraction.. *ChemInform*, **2004**, 35, no		2
10	Synthesis and Structural Characterization of La4Mn3Ge5.2Si0.8O22, a New Compound with the Perrierite Structure. *Journal of Solid State Chemistry*, **1999**, 147, 247-250	3.3	2
9	Current Trends in Iron Complexes Intercalated Layered Double Hydroxides. *Current Inorganic Chemistry*, **2015**, 5, 194-207		2
8	Superplasticizer to layered calcium aluminate hydrate interface characterized using model organic molecules. *Cement and Concrete Research*, **2018**, 110, 52-69	10.3	2
7	Single Step Preparation of Regular Zincite Nanospheres Using Cucurbit[7]uril. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2013**, 43, 1078-1082		1
6	Effect of low doses of 14 MeV neutrons on polymers. *Radiation Research*, **2010**, 174, 658-67	3.1	1
5	Iodine K-Edge Exafs Spectroscopy of Iodine-Bearing AFm-(Cl2, CO3, SO4) **2012**, 1-7		1
4	Tuning the organization of the interlayer organic moiety in a hybrid layered perovskite. *Journal of Solid State Chemistry*, **2019**, 269, 532-539	3.3	1
3	Pesticide Mobility Studied by Nuclear Magnetic Resonance **2005**, 463-472		
2	Photo- and Biodegradation of Atrazine in the Presence of Soil Constituents **2005**, 473-482		
1	Fast and efficient shear-force assisted production of covalently functionalized oxide nanosheets. *Journal of Colloid and Interface Science*, **2022**, 607, 621-632	9.3	