Christian Detellier

List of Publications by Year
in descending order

67 papers	3,282 citations	101535 36 h-index	149686 56 g-index
68 all docs	68 docs citations	68 times ranked	2429 citing authors

#	Article	IF	Citations
1	Interlamellar covalent grafting of organic units on kaolinite. Chemistry of Materials, 1993, 5, 747-748.	6.7	168
2	Aluminosilicate Nanocomposite Materials. Poly(ethylene glycol)â˜'Kaolinite Intercalates. Chemistry of Materials, 1996, 8, 927-935.	6.7	160
3	Chemically modified kaolinite. Grafting of methoxy groups on the interlamellar aluminol surface of kaolinite. Journal of Materials Chemistry, 1996, 6, 1679.	6.7	137
4	Structural study of Maya Blue: textural, thermal and solidstate multinuclear magnetic resonance characterization of the palygorskite-indigo and sepiolite-indigo adducts. Clays and Clay Minerals, 2003, 51, 318-326.	1.3	131
5	Nanohybrid Kaolinite-Based Materials Obtained from the Interlayer Grafting of 3-Aminopropyltriethoxysilane and Their Potential Use as Electrochemical Sensors. Chemistry of Materials, 2007, 19, 6629-6636.	6.7	109
6	Preparation and Characterization of Two Distinct Ethylene Glycol Derivatives of Kaolinite. Clays and Clay Minerals, 1994, 42, 552-560.	1.3	102
7	Synthesis, stability and electrochemical properties of NiAl and NiV layered double hydroxides. Journal of Materials Chemistry, 2001, 11, 912-921.	6.7	100
8	Reactivity of ionic liquids with kaolinite: Melt intersalation of ethyl pyridinium chloride in an urea-kaolinite pre-intercalate. Journal of Colloid and Interface Science, 2006, 302, 254-258.	9.4	93
9	Dehydration and rehydration of palygorskite and the influence of water on the nanopores. Clays and Clay Minerals, 2004, 52, 635-642.	1.3	89
10	Aluminosilicate nanohybrid materials. Intercalation of polystyrene in kaolinite. Journal of Physics and Chemistry of Solids, 2006, 67, 950-955.	4.0	81
11	Functionalized nanohybrid materials obtained from the interlayer grafting of aminoalcohols on kaolinite. Chemical Communications, 2007, , 2613.	4.1	81
12	Nanostructured Hybrid Materials Formed by Sequestration of Pyridine Molecules in the Tunnels of Sepiolite. Chemistry of Materials, 2003, 15, 4956-4967.	6.7	80
13	Nanohybrid materials from interlayer functionalization of kaolinite. Application to the electrochemical preconcentration of cyanide. Applied Clay Science, 2008, 42, 95-101.	5.2	78
14	Nanohybrid materials from the intercalation of imidazolium ionic liquids in kaolinite. Journal of Materials Chemistry, 2007, 17, 1476.	6.7	77
15	Clayâ˜'Polymer Nanocomposite Material from the Delamination of Kaolinite in the Presence of Sodium Polyacrylate. Langmuir, 2009, 25, 10975-10979.	3.5	73
16	Nanohybrid materials from the grafting of imidazolium cations on the interlayer surfaces of kaolinite. Application as electrode modifier. Journal of Materials Chemistry, 2009, 19, 5996.	6.7	68
17	Reactivity of kaolinite in ionic liquids: preparation and characterization of a 1-ethyl pyridinium chlorideâ€"kaolinite intercalate. Journal of Materials Chemistry, 2005, 15, 4734.	6.7	66
18	Preparation, characterization and application in controlled release of Ibuprofen-loaded Guar Gum/Montmorillonite Bionanocomposites. Applied Clay Science, 2017, 135, 52-63.	5.2	66

#	Article	IF	Citations
19	Kaoliniteâ€“ionic liquid nanohybrid materials as electrochemical sensors for size-selective detection of anions. Journal of Materials Chemistry, 2012, 22, 20593.	6.7	65
20	Intercalation of cyclic imides in kaolinite. Journal of Colloid and Interface Science, 2008, 323, 338-348.	9.4	64
21	Functional nanohybrid materials derived from kaolinite. Applied Clay Science, 2016, 130, 33-39.	5.2	64
22	Square Wave Voltammetric Determination of Lead(II) Ions Using a Carbon Paste Electrode Modified by a Thiolâ€Functionalized Kaolinite. Electroanalysis, 2011, 23, 245-252.	2.9	63
23	Clay Mineralsâ€”Ionic Liquids, Nanoarchitectures, and Applications. Advanced Functional Materials, 2018, 28, 1703845.	14.9	63
24	Preparation and Characterization of an 8.4 â„« Hydrate of Kaolinite. Clays and Clay Minerals, 1994, 42, 473-476.	1.3	60
25	Intercalation and interlamellar grafting of polyols in layered aluminosilicates. d-Sorbitol and adonitol derivatives of kaolinite. Journal of Materials Chemistry, 2003, 13, 2566.	6.7	59
26	PdNP Decoration of Halloysite Lumen via Selective Grafting of Ionic Liquid onto the Aluminol Surfaces and Catalytic Application. ACS Applied Materials & Interfaces, 2016, 8, 4862-4869.	8.0	58
27	Solid-state Nuclear Magnetic Resonance Study of Sepiolite and Partially Dehydrated Sepiolite. Clays and Clay Minerals, 2002, 50, 240-247.	1.3	55
28	Single Kaolinite Nanometer Layers Prepared by an In Situ Polymerizationâ€“Exfoliation Process in the Presence of Ionic Liquids. Langmuir, 2011, 27, 15248-15254.	3.5	53
29	Functional Kaolinite. Chemical Record, 2018, 18, 868-877.	5.8	53
30	Clay mineral-supported gold nanoparticles. Applied Clay Science, 2009, 43, 439-446.	5.2	52
31	Ionic Conductivity of Nanostructured Hybrid Materials Designed from Imidazolium Ionic Liquids and Kaolinite. Chemistry of Materials, 2008, 20, 7136-7142.	6.7	50
32	Synthesis and catalytic application of palladium nanoparticles supported on kaolinite-based nanohybrid materials. Dalton Transactions, 2016, 45, 9065-9072.	3.3	45
33	Poly(3,4-ethylenedioxythiophene)â€“clay nanocomposites. Journal of Materials Chemistry, 2008, 18, 2227.	6.7	44
34	Application of thermal analysis for the characterisation of intercalated and grafted organo-kaolinite nanohybrid materials. Journal of Thermal Analysis and Calorimetry, 2011, 104, 831-839.	3.6	44
35	Ionic liquidâ€“kaolinite nanohybrid materials for the amperometric detection of trace levels of iodide. Analyst, The, 2013, 138, 767-770.	3.5	42
36	Functionalization of the Interlayer Surfaces of Kaolinite by Alkylammonium Groups From Ionic Liquids. Clays and Clay Minerals, 2009, 57, 638-648.	1.3	40

#	Article	IF	Citations
37	Complexation of the Sodium Cation by a Calix[4]arene Tetraester in Solution. Formation of a 2:1 Calixarene:Sodium Complex. Journal of Physical Chemistry B, 1997, 101, 1897-1901.	2.6	33
38	Kaoliniteâ€“poly(methacrylamide) intercalated nanocomposite via in situ polymerization. Canadian Journal of Chemistry, 2009, 87, 272-279.	1.1	31
39	Intercalation of two phenolic acids in an ionic liquidâ€“kaolinite nanohybrid material and desorption studies. Applied Clay Science, 2014, 97-98, 153-159.	5.2	31
40	Intercalation of Tetraalkylammonium Cations into Smectites and its Application to Internal Surface Area Measurements. Clays and Clay Minerals, 1994, 42, 71-76.	1.3	30
41	Ionic Liquids-Kaolinite Nanostructured Materials. Intercalation of Pyrrolidinium Salts. Clays and Clay Minerals, 2008, 56, 82-89.	1.3	30
42	Preparation and Characterization of Guar-Montmorillonite Nanocomposites. Materials, 2013, 6, 5199-5216.	2.9	30
43	Preparation and characterization of novel clay/PLA nanocomposites. Applied Clay Science, 2015, 115, 87-96.	5.2	30
44	Organo-mineral nanohybrids. Incorporation, coordination and structuration role of acetone molecules in the tunnels of sepiolite. Journal of Materials Chemistry, 2006, 16, 179-185.	6.7	27
45	Kinetics and Mechanisms of Complexation of the Cesium Cation by 5,11,17,23-Tetra-p-tert-butyl-25,26,27,28-tetramethoxycalix[4]arene in Solution. Journal of Physical Chemistry A, 1998, 102, 1888-1893.	2.5	24
46	Structure of a Discrete 8:6 La(Iii): P-Sulfonatocalix[4]Arene Complex. Supramolecular Chemistry, 2001, 12, 457-464.	1.2	24
47	Moleculeâ€“Surface Recognition between Heterocyclic Aromatic Compounds and Kaolinite in Toluene Investigated by Molecular Theory of Solvation and Thermodynamic and Kinetic Experiments. Journal of Physical Chemistry C, 2014, 118, 23821-23834.	3.1	23
48	Hydrogen evolution reaction at PdNPs decorated 1:1 clay minerals and application to the electrocatalytic determination of p-nitrophenol. Journal of Electroanalytical Chemistry, 2017, 801, 49-56.	3.8	23
49	Mechanisms of Formation and Dissociation of a Cesiumâ^'Calix[4]arene Acetamide Complex in Solution:â€‰ A Cs-133 Dynamic NMR Study. Journal of Physical Chemistry A, 1999, 103, 3825-3829.	2.5	18
50	Kaolinite aggregation in book-like structures from non-aqueous media. Clays and Clay Minerals, 2017, 65, 193-205.	1.3	18
51	Concurrent insertion of cationic guest and solvent molecules in molecular receptors. Co-complexation of the sodium cation and acetonitrile by a calix[4]arene tetra-acetamide. Dalton Transactions RSC, 2002, , 428.	2.3	17
52	Zirconium oxide nanoparticles coated on sepiolite by solâ€“gel processÂâ€" Their application as a solvent-free catalyst for condensation reactions. Canadian Journal of Chemistry, 2011, 89, 280-288.	1.1	16
53	Sensitive Amperometric Determination of Thiocyanates at Ionic Liquid Nanohybrid Kaolinite Modified Glassy Carbon Electrode. Electroanalysis, 2018, 30, 543-550.	2.9	15
54	Ring inversion kinetics of p-sulfonatocalix[4]arene and of its Ca(ii) and La(iii) complexes in water and water-acetone solutions. Physical Chemistry Chemical Physics, 2004, 6, 1253-1257.	2.8	14

#	Article	IF	Citations
55	Effect of groundwater chemistry and temperature on swelling and microstructural properties of sandâ€“bentonite for barriers of radioactive waste repositories. Bulletin of Engineering Geology and the Environment, 2021, 80, 1857-1873.	3.5	13
56	Intercalation of a block co-polymer in kaolinite. Journal of Colloid and Interface Science, 2015, 450, 361-365.	9.4	12
57	Solid-State ¹H and ²⁷Al NMR Studies of DMSO-Kaolinite Intercalates. Clays and Clay Minerals, 2017, 65, 206-219.	1.3	12
58	Gas Chromatographic Separation of Linear Hydrocarbons on Microporous Organo-Smectites. Clays and Clay Minerals, 1994, 42, 477-481.	1.3	11
59	Conformational Dynamics of 5,11,17,23-Tetra-p-tert-butyl-25,27-di(N,N-) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 592 Td (diethyla Cesium Cation Complexation in Solution Studied by1H,13C, and133Cs NMR Spectroscopy. Journal of Physical Chemistry A, 1999, 103, 9204-9210.	2.5	11
60	Deposition of gold nanoparticles on organo-kaolinite â€" Application in electrocatalysis for carbon monoxide oxidation. Canadian Journal of Chemistry, 2011, 89, 845-853.	1.1	11
61	Characterization and Applications of Kaolinite Robustly Grafted by an Ionic Liquid with Naphthyl Functionality. Materials, 2017, 10, 1006.	2.9	11
62	Sedimentation of fine particles of kaolinite and polymer-coated kaolinite in cyclohexane: Implications for fines removal from extracted bitumen in non-aqueous processes. Fuel, 2018, 234, 218-224.	6.4	9
63	Complexation of the Sodium Cation by a Calix[8]arene Derivative: Formation of 2:1 and 3:1 Na+-Calixarene Complexes in Solution. Supramolecular Chemistry, 1998, 9, 289-295.	1.2	5
64	Observation by Scanning Electron Microscopy of Globular Particles of Calcium-Montmorillonite and of Montmorillonite Exchanged with Methyl Viologen or Tris (Bipyridyl) Ruthenium (II). Clays and Clay Minerals, 1992, 40, 362-364.	1.3	5
65	Computational and Experimental Investigations of the Role of Water and Alcohols in the Desorption of Heterocyclic Aromatic Compounds from Kaolinite in Toluene. Journal of Physical Chemistry C, 2018, 122, 10377-10391.	3.1	4
66	Contamination of Magadiite by Fluorine in Commonly Used Synthetic Procedures. Clays and Clay Minerals, 1998, 46, 478-480.	1.3	3
67	Complexation of the caesium cation by the host p-tert-butylcalix[6]arene hexaacetamide. Dalton Transactions, 2003, , 4574.	3.3	3