

Christian Detellier

List of Publications by Year in descending order

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67
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times ranked

2429
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Interlamellar covalent grafting of organic units on kaolinite. <i>Chemistry of Materials</i> , 1993, 5, 747-748. | 3.2 | 168 |
| 2 | Aluminosilicate Nanocomposite Materials. Poly(ethylene glycol)âˆ“Kaolinite Intercalates. <i>Chemistry of Materials</i> , 1996, 8, 927-935. | 3.2 | 160 |
| 3 | Chemically modified kaolinite. Grafting of methoxy groups on the interlamellar aluminol surface of kaolinite. <i>Journal of Materials Chemistry</i> , 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. <i>Clays and Clay Minerals</i> , 2003, 51, 318-326. | 0.6 | 131 |
| 5 | Nanohybrid Kaolinite-Based Materials Obtained from the Interlayer Grafting of 3-Aminopropyltriethoxysilane and Their Potential Use as Electrochemical Sensors. <i>Chemistry of Materials</i> , 2007, 19, 6629-6636. | 3.2 | 109 |
| 6 | Preparation and Characterization of Two Distinct Ethylene Glycol Derivatives of Kaolinite. <i>Clays and Clay Minerals</i> , 1994, 42, 552-560. | 0.6 | 102 |
| 7 | Synthesis, stability and electrochemical properties of NiAl and NiV layered double hydroxides. <i>Journal of Materials Chemistry</i> , 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. <i>Journal of Colloid and Interface Science</i> , 2006, 302, 254-258. | 5.0 | 93 |
| 9 | Dehydration and rehydration of palygorskite and the influence of water on the nanopores. <i>Clays and Clay Minerals</i> , 2004, 52, 635-642. | 0.6 | 89 |
| 10 | Aluminosilicate nanohybrid materials. Intercalation of polystyrene in kaolinite. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 950-955. | 1.9 | 81 |
| 11 | Functionalized nanohybrid materials obtained from the interlayer grafting of aminoalcohols on kaolinite. <i>Chemical Communications</i> , 2007, , 2613. | 2.2 | 81 |
| 12 | Nanostructured Hybrid Materials Formed by Sequestration of Pyridine Molecules in the Tunnels of Sepiolite. <i>Chemistry of Materials</i> , 2003, 15, 4956-4967. | 3.2 | 80 |
| 13 | Nanohybrid materials from interlayer functionalization of kaolinite. Application to the electrochemical preconcentration of cyanide. <i>Applied Clay Science</i> , 2008, 42, 95-101. | 2.6 | 78 |
| 14 | Nanohybrid materials from the intercalation of imidazolium ionic liquids in kaolinite. <i>Journal of Materials Chemistry</i> , 2007, 17, 1476. | 6.7 | 77 |
| 15 | Clayâˆ“Polymer Nanocomposite Material from the Delamination of Kaolinite in the Presence of Sodium Polyacrylate. <i>Langmuir</i> , 2009, 25, 10975-10979. | 1.6 | 73 |
| 16 | Nanohybrid materials from the grafting of imidazolium cations on the interlayer surfaces of kaolinite. Application as electrode modifier. <i>Journal of Materials Chemistry</i> , 2009, 19, 5996. | 6.7 | 68 |
| 17 | Reactivity of kaolinite in ionic liquids: preparation and characterization of a 1-ethyl pyridinium chlorideâˆ“kaolinite intercalate. <i>Journal of Materials Chemistry</i> , 2005, 15, 4734. | 6.7 | 66 |
| 18 | Preparation, characterization and application in controlled release of Ibuprofen-loaded Guar Gum/Montmorillonite Bionanocomposites. <i>Applied Clay Science</i> , 2017, 135, 52-63. | 2.6 | 66 |

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|----|--|-----|-----------|
| 19 | Kaoliniteâ€“ionic liquid nanohybrid materials as electrochemical sensors for size-selective detection of anions. <i>Journal of Materials Chemistry</i> , 2012, 22, 20593. | 6.7 | 65 |
| 20 | Intercalation of cyclic imides in kaolinite. <i>Journal of Colloid and Interface Science</i> , 2008, 323, 338-348. | 5.0 | 64 |
| 21 | Functional nanohybrid materials derived from kaolinite. <i>Applied Clay Science</i> , 2016, 130, 33-39. | 2.6 | 64 |
| 22 | Square Wave Voltammetric Determination of Lead(II) Ions Using a Carbon Paste Electrode Modified by a Thiolâ€“Functionalized Kaolinite. <i>Electroanalysis</i> , 2011, 23, 245-252. | 1.5 | 63 |
| 23 | Clay Mineralsâ€“Ionic Liquids, Nanoarchitectures, and Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1703845. | 7.8 | 63 |
| 24 | Preparation and Characterization of an 8.4 â„« Hydrate of Kaolinite. <i>Clays and Clay Minerals</i> , 1994, 42, 473-476. | 0.6 | 60 |
| 25 | Intercalation and interlamellar grafting of polyols in layered aluminosilicates. d-Sorbitol and adonitol derivatives of kaolinite. <i>Journal of Materials Chemistry</i> , 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. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4862-4869. | 4.0 | 58 |
| 27 | Solid-state Nuclear Magnetic Resonance Study of Sepiolite and Partially Dehydrated Sepiolite. <i>Clays and Clay Minerals</i> , 2002, 50, 240-247. | 0.6 | 55 |
| 28 | Single Kaolinite Nanometer Layers Prepared by an In Situ Polymerizationâ€“Exfoliation Process in the Presence of Ionic Liquids. <i>Langmuir</i> , 2011, 27, 15248-15254. | 1.6 | 53 |
| 29 | Functional Kaolinite. <i>Chemical Record</i> , 2018, 18, 868-877. | 2.9 | 53 |
| 30 | Clay mineral-supported gold nanoparticles. <i>Applied Clay Science</i> , 2009, 43, 439-446. | 2.6 | 52 |
| 31 | Ionic Conductivity of Nanostructured Hybrid Materials Designed from Imidazolium Ionic Liquids and Kaolinite. <i>Chemistry of Materials</i> , 2008, 20, 7136-7142. | 3.2 | 50 |
| 32 | Synthesis and catalytic application of palladium nanoparticles supported on kaolinite-based nanohybrid materials. <i>Dalton Transactions</i> , 2016, 45, 9065-9072. | 1.6 | 45 |
| 33 | Poly(3,4-ethylenedioxythiophene)â€“clay nanocomposites. <i>Journal of Materials Chemistry</i> , 2008, 18, 2227. | 6.7 | 44 |
| 34 | Application of thermal analysis for the characterisation of intercalated and grafted organo-kaolinite nanohybrid materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 104, 831-839. | 2.0 | 44 |
| 35 | Ionic liquidâ€“kaolinite nanohybrid materials for the amperometric detection of trace levels of iodide. <i>Analyst</i> , 2013, 138, 767-770. | 1.7 | 42 |
| 36 | Functionalization of the Interlayer Surfaces of Kaolinite by Alkylammonium Groups From Ionic Liquids. <i>Clays and Clay Minerals</i> , 2009, 57, 638-648. | 0.6 | 40 |

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|----|--|-----|-----------|
| 37 | Complexation of the Sodium Cation by a Calix[4]arene Tetraester in Solution. Formation of a 2:1 Calixarene:Sodium Complex. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1897-1901. | 1.2 | 33 |
| 38 | Kaolinite- ϵ -poly(methacrylamide) intercalated nanocomposite via in situ polymerization. <i>Canadian Journal of Chemistry</i> , 2009, 87, 272-279. | 0.6 | 31 |
| 39 | Intercalation of two phenolic acids in an ionic liquid- ϵ -kaolinite nanohybrid material and desorption studies. <i>Applied Clay Science</i> , 2014, 97-98, 153-159. | 2.6 | 31 |
| 40 | Intercalation of Tetraalkylammonium Cations into Smectites and its Application to Internal Surface Area Measurements. <i>Clays and Clay Minerals</i> , 1994, 42, 71-76. | 0.6 | 30 |
| 41 | Ionic Liquids-Kaolinite Nanostructured Materials. Intercalation of Pyrrolidinium Salts. <i>Clays and Clay Minerals</i> , 2008, 56, 82-89. | 0.6 | 30 |
| 42 | Preparation and Characterization of Guar-Montmorillonite Nanocomposites. <i>Materials</i> , 2013, 6, 5199-5216. | 1.3 | 30 |
| 43 | Preparation and characterization of novel clay/PLA nanocomposites. <i>Applied Clay Science</i> , 2015, 115, 87-96. | 2.6 | 30 |
| 44 | Organo-mineral nanohybrids. Incorporation, coordination and structuration role of acetone molecules in the tunnels of sepiolite. <i>Journal of Materials Chemistry</i> , 2006, 16, 179-185. | 6.7 | 27 |
| 45 | Kinetics and Mechanisms of Complexation of the Cesium Cation by 5,11,17,23-Tetra- <i>p</i> -tert-butyl-25,26,27,28-tetramethoxycalix[4]arene in Solution. <i>Journal of Physical Chemistry A</i> , 1998, 102, 1888-1893. | 1.1 | 24 |
| 46 | Structure of a Discrete 8:6 La(III): P-Sulfonatocalix[4]Arene Complex. <i>Supramolecular Chemistry</i> , 2001, 12, 457-464. | 1.5 | 24 |
| 47 | Molecule- ϵ -Surface Recognition between Heterocyclic Aromatic Compounds and Kaolinite in Toluene Investigated by Molecular Theory of Solvation and Thermodynamic and Kinetic Experiments. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23821-23834. | 1.5 | 23 |
| 48 | Hydrogen evolution reaction at PdNPs decorated 1:1 clay minerals and application to the electrocatalytic determination of <i>p</i> -nitrophenol. <i>Journal of Electroanalytical Chemistry</i> , 2017, 801, 49-56. | 1.9 | 23 |
| 49 | Mechanisms of Formation and Dissociation of a Cesium- ϵ -Calix[4]arene Acetamide Complex in Solution: A Cs-133 Dynamic NMR Study. <i>Journal of Physical Chemistry A</i> , 1999, 103, 3825-3829. | 1.1 | 18 |
| 50 | Kaolinite aggregation in book-like structures from non-aqueous media. <i>Clays and Clay Minerals</i> , 2017, 65, 193-205. | 0.6 | 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. <i>Dalton Transactions RSC</i> , 2002, , 428. | 2.3 | 17 |
| 52 | Zirconium oxide nanoparticles coated on sepiolite by sol-gel process. Their application as a solvent-free catalyst for condensation reactions. <i>Canadian Journal of Chemistry</i> , 2011, 89, 280-288. | 0.6 | 16 |
| 53 | Sensitive Amperometric Determination of Thiocyanates at Ionic Liquid Nanohybrid Kaolinite Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2018, 30, 543-550. | 1.5 | 15 |
| 54 | Ring inversion kinetics of <i>p</i> -sulfonatocalix[4]arene and of its Ca(II) and La(III) complexes in water and water-acetone solutions. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1253-1257. | 1.3 | 14 |

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|----|---|-----|-----------|
| 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. | 1.6 | 13 |
| 56 | Intercalation of a block co-polymer in kaolinite. Journal of Colloid and Interface Science, 2015, 450, 361-365. | 5.0 | 12 |
| 57 | Solid-State ¹ H and ²⁷ Al NMR Studies of DMSO-Kaolinite Intercalates. Clays and Clay Minerals, 2017, 65, 206-219. | 0.6 | 12 |
| 58 | Gas Chromatographic Separation of Linear Hydrocarbons on Microporous Organo-Smectites. Clays and Clay Minerals, 1994, 42, 477-481. | 0.6 | 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 (diethylammonium) Cesium Cation Complexation in Solution Studied by ¹ H, ¹³ C, and ¹³³ Cs NMR Spectroscopy. Journal of Physical Chemistry A, 1999, 103, 9204-9210. | 1.1 | 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. | 0.6 | 11 |
| 61 | Characterization and Applications of Kaolinite Robustly Grafted by an Ionic Liquid with Naphthyl Functionality. Materials, 2017, 10, 1006. | 1.3 | 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. | 3.4 | 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. | 1.5 | 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. | 0.6 | 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. | 1.5 | 4 |
| 66 | Contamination of Magadiite by Fluorine in Commonly Used Synthetic Procedures. Clays and Clay Minerals, 1998, 46, 478-480. | 0.6 | 3 |
| 67 | Complexation of the caesium cation by the host p-tert-butylcalix[6]arene hexaacetamide. Dalton Transactions, 2003, , 4574. | 1.6 | 3 |