

Sophie Cassaignon

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/765394/publications.pdf>

Version: 2024-02-01

70
papers

3,611
citations

159585

30
h-index

133252

59
g-index

74
all docs

74
docs citations

74
times ranked

5957
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Water-mediated structuring of bone apatite. <i>Nature Materials</i> , 2013, 12, 1144-1153. | 27.5 | 250 |
| 2 | Size tailoring of TiO ₂ anatase nanoparticles in aqueous medium and synthesis of nanocomposites. Characterization by Raman spectroscopy. <i>Journal of Materials Chemistry</i> , 2003, 13, 877-882. | 6.7 | 207 |
| 3 | Structural evolution during the reaction of Li with nano-sized rutile type TiO ₂ at room temperature. <i>Electrochemistry Communications</i> , 2007, 9, 337-342. | 4.7 | 206 |
| 4 | Comparison of optical and electrochemical properties of anatase and brookite TiO ₂ synthesized by the sol-gel method. <i>Thin Solid Films</i> , 2002, 403-404, 312-319. | 1.8 | 186 |
| 5 | Size tailoring of oxide nanoparticles by precipitation in aqueous medium. A semi-quantitative modelling. <i>Journal of Materials Chemistry</i> , 2004, 14, 3281-3288. | 6.7 | 182 |
| 6 | Morphology Control of Cryptomelane Type MnO ₂ Nanowires by Soft Chemistry. Growth Mechanisms in Aqueous Medium. <i>Chemistry of Materials</i> , 2007, 19, 5410-5417. | 6.7 | 174 |
| 7 | Electrochemical comparative study of titania (anatase, brookite and rutile) nanoparticles synthesized in aqueous medium. <i>Thin Solid Films</i> , 2004, 451-452, 86-92. | 1.8 | 149 |
| 8 | Molecular Engineering of Functional Inorganic and Hybrid Materials. <i>Chemistry of Materials</i> , 2014, 26, 221-238. | 6.7 | 147 |
| 9 | <i>In Vivo</i> Inspired Conditions to Synthesize Biomimetic Hydroxyapatite. <i>Chemistry of Materials</i> , 2010, 22, 3653-3663. | 6.7 | 113 |
| 10 | Synthesis of Li-Rich NMC: A Comprehensive Study. <i>Chemistry of Materials</i> , 2017, 29, 9923-9936. | 6.7 | 111 |
| 11 | Hydrothermal synthesis of vanadium oxide nanotubes from V ₂ O ₅ gels. <i>Catalysis Today</i> , 2003, 78, 85-89. | 4.4 | 108 |
| 12 | Selective synthesis of brookite, anatase and rutile nanoparticles: thermolysis of TiCl ₄ in aqueous nitric acid. <i>Journal of Materials Science</i> , 2007, 42, 6689-6695. | 3.7 | 103 |
| 13 | From TiCl ₃ to TiO ₂ nanoparticles (anatase, brookite and rutile): Thermohydrolysis and oxidation in aqueous medium. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 695-700. | 4.0 | 97 |
| 14 | Structure and electrochromism of two-dimensional octahedral molecular sieve h TM -WO ₃ . <i>Nature Communications</i> , 2019, 10, 327. | 12.8 | 88 |
| 15 | Design of metal oxide nanoparticles: Control of size, shape, crystalline structure and functionalization by aqueous chemistry. <i>Comptes Rendus Chimie</i> , 2010, 13, 40-51. | 0.5 | 86 |
| 16 | A Core-Corona Hierarchical Manganese Oxide and its Formation by an Aqueous Soft Chemistry Mechanism. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6441-6444. | 13.8 | 85 |
| 17 | Structural and morphological control of manganese oxide nanoparticles upon soft aqueous precipitation through MnO ₄ ²⁻ /Mn ²⁺ reaction. <i>Journal of Materials Chemistry</i> , 2009, 19, 2407. | 6.7 | 84 |
| 18 | Block-Copolymer-Templated Synthesis of Electroactive RuO ₂ -Based Mesoporous Thin Films. <i>Advanced Functional Materials</i> , 2009, 19, 1922-1929. | 14.9 | 76 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Effects of TiO ₂ nanoparticle polymorphism on dye-sensitized solar cell photovoltaic properties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 232, 22-31. | 3.9 | 71 |
| 20 | Morphological control of TiO ₂ anatase nanoparticles: What is the good surface property to obtain efficient photocatalysts?. <i>Applied Catalysis B: Environmental</i> , 2015, 174-175, 350-360. | 20.2 | 66 |
| 21 | Design of oxide nanoparticles by aqueous chemistry. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 46, 299-305. | 2.4 | 58 |
| 22 | Brookite TiO ₂ Nanoparticle Films for Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2011, 12, 2461-2467. | 2.1 | 55 |
| 23 | Vanadium Oxide: From Gels to Nanotubes. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 593-596. | 2.4 | 52 |
| 24 | Thermal stability of TiO ₂ -anatase: Impact of nanoparticles morphology on kinetic phase transformation. <i>Solid State Sciences</i> , 2010, 12, 989-995. | 3.2 | 51 |
| 25 | Mesoporous hydroxyapatites prepared in ethanol-water media: Structure and surface properties. <i>Materials Chemistry and Physics</i> , 2007, 104, 448-453. | 4.0 | 42 |
| 26 | Basic concepts of the crystallization from aqueous solutions: The example of aluminum oxy(hydroxides) and aluminosilicates. <i>Comptes Rendus - Geoscience</i> , 2011, 343, 113-122. | 1.2 | 40 |
| 27 | Anatase TiO ₂ Nanorods as Cathode Materials for Aluminum-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2019, 2, 6428-6435. | 5.0 | 40 |
| 28 | Charge Transport and Recombination in TiO ₂ Brookite-Based Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23459-23467. | 3.1 | 38 |
| 29 | A sustainable aqueous route to highly stable suspensions of monodispersed nano ruthenia. <i>Green Chemistry</i> , 2011, 13, 3230. | 9.0 | 35 |
| 30 | Selective heterogeneous oriented attachment of manganese oxide nanorods in water: toward 3D nanoarchitectures. <i>Journal of Materials Chemistry</i> , 2009, 19, 7947. | 6.7 | 33 |
| 31 | Do TiO ₂ Nanoparticles Really Taste Better When Cooked in a Microwave Oven?. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2707-2715. | 2.0 | 33 |
| 32 | Copper diffusion in copper sulfide: a systematic study. <i>Ionics</i> , 1998, 4, 364-371. | 2.4 | 28 |
| 33 | Facile synthetic route towards nanostructured Fe-TiO ₂ (B), used as negative electrode for Li-ion batteries. <i>Journal of Power Sources</i> , 2015, 278, 1-8. | 7.8 | 28 |
| 34 | Design of Hierarchical Core-Shell Architectures of Layered Manganese Oxides by Aqueous Precipitation. <i>Chemistry of Materials</i> , 2008, 20, 6140-6147. | 6.7 | 27 |
| 35 | Nanocrystalline Brookite with Enhanced Stability and Photocatalytic Activity: Influence of Lanthanum(III) Doping. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 752-760. | 8.0 | 26 |
| 36 | Twinning Driven Growth of Manganese Oxide Hollow Cones through Self-Assembly of Nanorods in Water. <i>Crystal Growth and Design</i> , 2009, 9, 2562-2565. | 3.0 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Evolution of Nanostructured Manganese (Oxyhydr)oxides in Water through MnO ₄ ⁻ Reduction. <i>Crystal Growth and Design</i> , 2010, 10, 2168-2173. | 3.0 | 25 |
| 38 | Size and shape effect on the photocatalytic efficiency of TiO ₂ brookite. <i>Journal of Materials Science</i> , 2019, 54, 1213-1225. | 3.7 | 24 |
| 39 | Ex Situ X-ray Diffraction, X-ray Absorption Near Edge Structure, Electron Spin Resonance, and Transmission Electron Microscopy Study of the Hydrothermal Crystallization of Vanadium Oxide Nanotubes: An Insight into the Mechanism of Formation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25126-25136. | 3.1 | 22 |
| 40 | Optimized Design of Pt-Doped Bi ₂ WO ₆ Nanoparticle Synthesis for Enhanced Photocatalytic Properties. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2159-2165. | 2.0 | 22 |
| 41 | Nanoparticles of Low-Valence Vanadium Oxyhydroxides: Reaction Mechanisms and Polymorphism Control by Low-Temperature Aqueous Chemistry. <i>Inorganic Chemistry</i> , 2016, 55, 11502-11512. | 4.0 | 21 |
| 42 | Structure and Mechanical Properties of Mesostructured Functional Hybrid Coatings Based on Anisotropic Nanoparticles Dispersed in Poly(hydroxyethyl methacrylate). <i>Chemistry of Materials</i> , 2008, 20, 4602-4611. | 6.7 | 20 |
| 43 | Carbothermal synthesis of Sn-based composites as negative electrode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 6863-6869. | 7.8 | 20 |
| 44 | A combined Mössbauer spectroscopy and x-ray diffraction operando study of Sn-based composite anode materials for Li-ion accumulators. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 3837-3848. | 2.5 | 20 |
| 45 | Room-Temperature Synthesis of High Surface Area Anatase TiO ₂ Exhibiting a Complete Lithium Insertion Solid Solution. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 1093-1104. | 2.3 | 18 |
| 46 | Bipyramidal anatase TiO ₂ nanoparticles, a highly efficient photocatalyst? Towards a better understanding of the reactivity. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 324-334. | 20.2 | 18 |
| 47 | Copper diffusion in solid copper sulfide electrode. <i>Electrochimica Acta</i> , 1996, 41, 1331-1339. | 5.2 | 17 |
| 48 | Optical Properties of Nanostructured Silica Structures From Marine Organisms. <i>Frontiers in Marine Science</i> , 2018, 5, . | 2.5 | 15 |
| 49 | Sustainable one-pot aqueous route to hierarchical carbon-MoO ₂ electrodes for Li-ion batteries. <i>RSC Advances</i> , 2014, 4, 21208. | 3.6 | 14 |
| 50 | Influence of the Composition on the Copper Diffusion in Copper Sulfides Study by Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 1999, 146, 4666-4671. | 2.9 | 13 |
| 51 | Effect of the Particles Morphology on the Electrochemical Performance of Na ₃ V ₂ (PO ₄) ₂ F ₃ O _y . <i>Batteries and Supercaps</i> , 2022, 5, . | 4.7 | 13 |
| 52 | Impact of the F ⁺ for O ²⁺ Substitution in Na ₃ V ₂ (PO ₄) ₂ F ₃ O _y on Their Transport Properties and Electrochemical Performance. <i>ACS Applied Energy Materials</i> , 2022, 5, 1065-1075. | 5.1 | 13 |
| 53 | Synthesis of a manganese oxide nanocomposite through heteroepitaxy in aqueous medium. <i>Chemical Communications</i> , 2009, , 674-676. | 4.1 | 11 |
| 54 | Adsorption Isotherms of Cetylpyridinium Chloride with Iron III Salts at Air/Water and Silica/Water Interfaces. <i>Journal of Colloid and Interface Science</i> , 2000, 230, 298-305. | 9.4 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Titanium Dioxide in Photocatalysis. , 2013, , 153-188. | | 8 |
| 56 | Synthesis of nanometric TiO ₂ in aqueous solution by soft chemistry: obtaining of anatase, brookite and rutile with controlled shapes. Materials Research Society Symposia Proceedings, 2004, 822, S5.3.1. | 0.1 | 7 |
| 57 | From Living Light to Living Materials. Materials Today: Proceedings, 2014, 1, 209-215. | 1.8 | 7 |
| 58 | Particle nanosizing and coating with an ionic liquid: two routes to improve the transport properties of Na ₃ V ₂ (PO ₄) ₂ FO ₂ . Nanoscale, 2022, 14, 8663-8676. | 5.6 | 7 |
| 59 | Ethylxanthate Adsorption on Copper Sulfide Influence of the Copper Sulfide Composition. Journal of the Electrochemical Society, 2000, 147, 4536. | 2.9 | 6 |
| 60 | One-pot synthesis of tin-borophosphate-carbon composites as anode materials for Li-ion batteries. Journal of Solid State Chemistry, 2016, 233, 52-57. | 2.9 | 5 |
| 61 | Influence of Structure and Organic-Inorganic Phase Interactions on Coating Mechanical Properties in the Ternary Goethite:Poly(HEMA):Silica System. European Journal of Inorganic Chemistry, 2012, 2012, 2675-2683. | 2.0 | 4 |
| 62 | Nonclassical Crystallization and Size Control of Ultra-Small MoO ₂ Nanoparticles in Water. Particle and Particle Systems Characterization, 2015, 32, 251-257. | 2.3 | 2 |
| 63 | Analysis of diatoms by holotomography. Surfaces and Interfaces, 2019, 17, 100358. | 3.0 | 2 |
| 64 | Mechanical Behavior of Functional Hybrid Coating Based on Anisotropic Iron Oxide Nanoparticles. Materials Research Society Symposia Proceedings, 2007, 1007, 1. | 0.1 | 0 |
| 65 | Carbothermal Synthesis of Sn-Based Composites as Negative Electrode for Lithium-Ion Batteries. ECS Meeting Abstracts, 2010, , . | 0.0 | 0 |
| 66 | Influence of Structure and Organic-Inorganic Phase Interactions on Coating Mechanical Properties in the Ternary Goethite:Poly(HEMA):Silica System (Eur. J. Inorg. Chem. 16/2012). European Journal of Inorganic Chemistry, 2012, 2012, . | 2.0 | 0 |
| 67 | Electrochemical Reactivity of Nano-Sized Oxides: from the Synthesis to New Reactivities. ECS Meeting Abstracts, 2007, , . | 0.0 | 0 |
| 68 | Controlled Synthesis of Nanotextured Manganese Oxides for Lithium Battery Electrodes. ECS Meeting Abstracts, 2009, , . | 0.0 | 0 |
| 69 | Nano-size Effect on the Insertion Process into Rutile-type Structure Materials. ECS Meeting Abstracts, 2009, , . | 0.0 | 0 |
| 70 | Influence of the Nature of Nanometric TiO ₂ Particles on Photovoltaic Devices. ECS Meeting Abstracts, 2009, , . | 0.0 | 0 |