

Sophie Cassaignon

List of Publications by Year in descending order

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70
papers

3,611
citations

159585

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133252

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Effect of the Particles Morphology on the Electrochemical Performance of Na ₃ V ₂ (PO ₄) ₂ F ₃ O _y . Batteries and Supercaps, 2022, 5, .	4.7	13
2	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. ACS Applied Energy Materials, 2022, 5, 1065-1075.	3.1	13
3	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
4	Analysis of diatoms by holotomography. Surfaces and Interfaces, 2019, 17, 100358.	3.0	2
5	Anatase TiO ₂ Nanorods as Cathode Materials for Aluminum-Ion Batteries. ACS Applied Nano Materials, 2019, 2, 6428-6435.	5.0	40
6	Size and shape effect on the photocatalytic efficiency of TiO ₂ brookite. Journal of Materials Science, 2019, 54, 1213-1225.	3.7	24
7	Structure and electrochromism of two-dimensional octahedral molecular sieve h TM -WO ₃ . Nature Communications, 2019, 10, 327.	12.8	88
8	Optical Properties of Nanostructured Silica Structures From Marine Organisms. Frontiers in Marine Science, 2018, 5, .	2.5	15
9	Synthesis of Li-Rich NMC: A Comprehensive Study. Chemistry of Materials, 2017, 29, 9923-9936.	6.7	111
10	Bipyramidal anatase TiO ₂ nanoparticles, a highly efficient photocatalyst? Towards a better understanding of the reactivity. Applied Catalysis B: Environmental, 2017, 203, 324-334.	20.2	18
11	Optimized Design of Pt ^δ -Doped Bi ₂ WO ₆ Nanoparticle Synthesis for Enhanced Photocatalytic Properties. European Journal of Inorganic Chemistry, 2016, 2016, 2159-2165.	2.0	22
12	Nanoparticles of Low-Valence Vanadium Oxyhydroxides: Reaction Mechanisms and Polymorphism Control by Low-Temperature Aqueous Chemistry. Inorganic Chemistry, 2016, 55, 11502-11512.	4.0	21
13	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
14	Morphological control of TiO ₂ anatase nanoparticles: What is the good surface property to obtain efficient photocatalysts?. Applied Catalysis B: Environmental, 2015, 174-175, 350-360.	20.2	66
15	Facile synthetic route towards nanostructured Fe ⁺ -TiO ₂ (B), used as negative electrode for Li-ion batteries. Journal of Power Sources, 2015, 278, 1-8.	7.8	28
16	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
17	From Living Light to Living Materials. Materials Today: Proceedings, 2014, 1, 209-215.	1.8	7
18	Molecular Engineering of Functional Inorganic and Hybrid Materials. Chemistry of Materials, 2014, 26, 221-238.	6.7	147

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19	Charge Transport and Recombination in TiO ₂ Brookite-Based Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23459-23467.	3.1	38
20	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
21	Water-mediated structuring of bone apatite. <i>Nature Materials</i> , 2013, 12, 1144-1153.	27.5	250
22	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
23	Titanium Dioxide in Photocatalysis. , 2013, , 153-188.		8
24	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
25	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
26	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
27	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
28	Influence of Structure and Organic-Inorganic Phase Interactions on Coating Mechanical Properties in the Ternary Goethite:Poly(HEMA):Silica System. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2675-2683.	2.0	4
29	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). <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, .	2.0	0
30	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
31	A sustainable aqueous route to highly stable suspensions of monodispersed nano ruthenia. <i>Green Chemistry</i> , 2011, 13, 3230.	9.0	35
32	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
33	Brookite TiO ₂ Nanoparticle Films for Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2011, 12, 2461-2467.	2.1	55
34	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
35	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
36	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

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37	Carbothermal Synthesis of Sn-Based Composites as Negative Electrode for Lithium-Ion Batteries. ECS Meeting Abstracts, 2010, , .	0.0	0
38	Evolution of Nanostructured Manganese (Oxyhydr)oxides in Water through MnO_4^- Reduction. Crystal Growth and Design, 2010, 10, 2168-2173.	3.0	25
39	<i>In Vivo</i> Inspired Conditions to Synthesize Biomimetic Hydroxyapatite. Chemistry of Materials, 2010, 22, 3653-3663.	6.7	113
40	Block Copolymer Templated Synthesis of Electroactive RuO_2 -Based Mesoporous Thin Films. Advanced Functional Materials, 2009, 19, 1922-1929.	14.9	76
41	Twinning Driven Growth of Manganese Oxide Hollow Cones through Self-Assembly of Nanorods in Water. Crystal Growth and Design, 2009, 9, 2562-2565.	3.0	25
42	Structural and morphological control of manganese oxide nanoparticles upon soft aqueous precipitation through $\text{MnO}_4^-/\text{Mn}^{2+}$ reaction. Journal of Materials Chemistry, 2009, 19, 2407.	6.7	84
43	Synthesis of a manganese oxide nanocomposite through heteroepitaxy in aqueous medium. Chemical Communications, 2009, , 674-676.	4.1	11
44	Selective heterogeneous oriented attachment of manganese oxide nanorods in water: toward 3D nanoarchitectures. Journal of Materials Chemistry, 2009, 19, 7947.	6.7	33
45	Controlled Synthesis of Nanotextured Manganese Oxides for Lithium Battery Electrodes. ECS Meeting Abstracts, 2009, , .	0.0	0
46	Nano-size Effect on the Insertion Process into Rutile-type Structure Materials. ECS Meeting Abstracts, 2009, , .	0.0	0
47	Influence of the Nature of Nanometric TiO_2 Particles on Photovoltaic Devices. ECS Meeting Abstracts, 2009, , .	0.0	0
48	Design of oxide nanoparticles by aqueous chemistry. Journal of Sol-Gel Science and Technology, 2008, 46, 299-305.	2.4	58
49	A Core-Shell Hierarchical Manganese Oxide and its Formation by an Aqueous Soft Chemistry Mechanism. Angewandte Chemie - International Edition, 2008, 47, 6441-6444.	13.8	85
50	Design of Hierarchical Core-Shell Architectures of Layered Manganese Oxides by Aqueous Precipitation. Chemistry of Materials, 2008, 20, 6140-6147.	6.7	27
51	Structure and Mechanical Properties of Mesostructured Functional Hybrid Coatings Based on Anisotropic Nanoparticles Dispersed in Poly(hydroxyethyl methacrylate). Chemistry of Materials, 2008, 20, 4602-4611.	6.7	20
52	Mechanical Behavior of Functional Hybrid Coating Based on Anisotropic Iron Oxide Nanoparticles. Materials Research Society Symposia Proceedings, 2007, 1007, 1.	0.1	0
53	Morphology Control of Cryptomelane Type MnO_2 Nanowires by Soft Chemistry. Growth Mechanisms in Aqueous Medium. Chemistry of Materials, 2007, 19, 5410-5417.	6.7	174
54	Structural evolution during the reaction of Li with nano-sized rutile type TiO_2 at room temperature. Electrochemistry Communications, 2007, 9, 337-342.	4.7	206

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55	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
56	Mesoporous hydroxyapatites prepared in ethanol/water media: Structure and surface properties. <i>Materials Chemistry and Physics</i> , 2007, 104, 448-453.	4.0	42
57	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
58	Electrochemical Reactivity of Nano-Sized Oxides: from the Synthesis to New Reactivities. ECS Meeting Abstracts, 2007, . .	0.0	0
59	Synthesis of nanometric TiO ₂ in aqueous solution by soft chemistry: obtaining of anatase, brookite and rutile with controlled shapes. <i>Materials Research Society Symposia Proceedings</i> , 2004, 822, S5.3.1.	0.1	7
60	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
61	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
62	Vanadium Oxide: From Gels to Nanotubes. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 593-596.	2.4	52
63	Hydrothermal synthesis of vanadium oxide nanotubes from V ₂ O ₅ gels. <i>Catalysis Today</i> , 2003, 78, 85-89.	4.4	108
64	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
65	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
66	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
67	Ethylxanthate Adsorption on Copper Sulfide Influence of the Copper Sulfide Composition. <i>Journal of the Electrochemical Society</i> , 2000, 147, 4536.	2.9	6
68	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
69	Copper diffusion in copper sulfide: a systematic study. <i>Ionics</i> , 1998, 4, 364-371.	2.4	28
70	Copper diffusion in solid copper sulfide electrode. <i>Electrochimica Acta</i> , 1996, 41, 1331-1339.	5.2	17