Corinne Chaneac

List of Publications by Year
in descending order

96 papers	7,134 citations	71102 41 h-index	54911 84 g-index
97 all docs	97 docs citations	97 times ranked	10796 citing authors

#	Article	IF	Citations
1	Nanoprobes with near-infrared persistent luminescence for in vivo imaging. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9266-9271.	7.1	747
2	Relation between the Redox State of Iron-Based Nanoparticles and Their Cytotoxicity toward Escherichia coli. Environmental Science & Technology, 2008, 42, 6730-6735.	10.0	487
3	Size Tailoring of Magnetite Particles Formed by Aqueous Precipitation: An Example of Thermodynamic Stability of Nanometric Oxide Particles. Journal of Colloid and Interface Science, 1998, 205, 205-212.	9.4	353
4	Bi₂O₃, BiVO₄, and Bi₂WO₆: Impact of Surface Properties on Photocatalytic Activity under Visible Light. Journal of Physical Chemistry C, 2011, 115, 5657-5666.	3.1	293
5	Iron oxide chemistry. From molecular clusters to extended solid networks. Chemical Communications, 2004, , 477-483.	4.1	282
6	Structural and Magnetic Characterization ofÎ¼-Fe2O3. Journal of Solid State Chemistry, 1998, 139, 93-104.	2.9	272
7	Surface-related properties of Î³-Fe2O3 nanoparticles. Journal of Magnetism and Magnetic Materials, 2000, 221, 63-79.	2.3	272
8	Size tailoring of TiO2 anatase nanoparticles in aqueous medium and synthesis of nanocomposites. Characterization by Raman spectroscopy. Journal of Materials Chemistry, 2003, 13, 877-882.	6.7	207
9	In Vitro Interactions between DMSA-Coated Maghemite Nanoparticles and Human Fibroblasts:Â A Physicochemical and Cyto-Genotoxical Studyâ€. Environmental Science & Technology, 2006, 40, 4367-4373.	10.0	195
10	Structural Degradation at the Surface of a TiO₂-Based Nanomaterial Used in Cosmetics. Environmental Science & Technology, 2010, 44, 2689-2694.	10.0	193
11	Enhanced Adsorption of Arsenic onto Maghemites Nanoparticles:â€‰ As(III) as a Probe of the Surface Structure and Heterogeneity. Langmuir, 2008, 24, 3215-3222.	3.5	185
12	Size tailoring of oxide nanoparticles by precipitation in aqueous medium. A semi-quantitative modelling. Journal of Materials Chemistry, 2004, 14, 3281-3288.	6.7	182
13	Magnetic order in - nanoparticles: a XMCD study. Journal of Magnetism and Magnetic Materials, 2005, 288, 354-365.	2.3	161
14	New Insights into Bi₂WO₆ Properties as a Visible-Light Photocatalyst. Journal of Physical Chemistry C, 2013, 117, 22656-22666.	3.1	157
15	Molecular Engineering of Functional Inorganic and Hybrid Materials. Chemistry of Materials, 2014, 26, 221-238.	6.7	147
16	New insight into the structure of nanocrystalline ferrihydrite: EXAFS evidence for tetrahedrally coordinated iron(III). Geochimica Et Cosmochimica Acta, 2011, 75, 2708-2720.	3.9	139
17	New Insights Into BiVO₄ Properties as Visible Light Photocatalyst. Journal of Physical Chemistry C, 2015, 119, 12967-12977.	3.1	134
18	Mesoporous maghemiteâ€“organosilica microspheres: a promising route towards multifunctional platforms for smart diagnosis and therapy. Journal of Materials Chemistry, 2007, 17, 1563-1569.	6.7	133

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19	Supramolecular Soft Adhesive Materials. Advanced Functional Materials, 2010, 20, 1803-1811.	14.9	129
20	Surface effects in noninteracting and interacting Î³-Fe2O3 nanoparticles. Journal of Magnetism and Magnetic Materials, 2003, 262, 6-14.	2.3	126
21	Iron oxides: From molecular clusters to solid. A nice example of chemical versatility. Comptes Rendus - Geoscience, 2006, 338, 488-497.	1.2	121
22	Magnetic iron oxideâ€“silica nanocomposites. Synthesis and characterization. Journal of Materials Chemistry, 1996, 6, 1905-1911.	6.7	116
23	Attempt toward 1D Cross-Linked Thermoplastic Elastomers:Â Structure and Mechanical Properties of a New System. Macromolecules, 2005, 38, 1752-1759.	4.8	110
24	Accurate Determination of Oxide Nanoparticle Size and Shape Based on X-Ray Powder Pattern Simulation: Application to Boehmite AlOOH. Journal of Physical Chemistry C, 2008, 112, 8524-8533.	3.1	96
25	Design of metal oxide nanoparticles: Control of size, shape, crystalline structure and functionalization by aqueous chemistry. Comptes Rendus Chimie, 2010, 13, 40-51.	0.5	86
26	Design of Liquid-Crystalline Aqueous Suspensions of Rutile Nanorods:Â Evidence of Anisotropic Photocatalytic Properties. Journal of the American Chemical Society, 2007, 129, 5904-5909.	13.7	83
27	Charge Transfer at Hybrid Interfaces: Plasmonics of Aromatic Thiol-Capped Gold Nanoparticles. ACS Nano, 2015, 9, 7572-7582.	14.6	67
28	Thermal behavior of spinel iron oxide-silica composites. Scripta Materialia, 1995, 6, 715-718.	0.5	65
29	The Challenge of Studying TiO₂ Nanoparticle Bioaccumulation at Environmental Concentrations: Crucial Use of a Stable Isotope Tracer. Environmental Science & Technology, 2015, 49, 2451-2459.	10.0	65
30	Rhombohedral Shape of Hematite Nanocrystals Synthesized via Thermolysis of an Additive-free Ferric Chloride Solution. Journal of Physical Chemistry C, 2007, 111, 16866-16870.	3.1	58
31	Design of oxide nanoparticles by aqueous chemistry. Journal of Sol-Gel Science and Technology, 2008, 46, 299-305.	2.4	58
32	Interaction between Escherichia coli and TiO2 nanoparticles in natural and artificial waters. Colloids and Surfaces B: Biointerfaces, 2013, 102, 158-164.	5.0	57
33	Mechanism and kinetics of magnetite oxidation under hydrothermal conditions. RSC Advances, 2019, 9, 33633-33642.	3.6	54
34	Synthesis of iron oxide-based magnetic nanomaterials and composites. Comptes Rendus Chimie, 2002, 5, 659-664.	0.5	53
35	Growth of boehmite particles in the presence of xylitol: morphology oriented by the nest effect of hydrogen bonding. Physical Chemistry Chemical Physics, 2009, 11, 11310.	2.8	53
36	Surface- and tip-enhanced Raman spectroscopy reveals spin-waves in iron oxide nanoparticles. Nanoscale, 2015, 7, 9545-9551.	5.6	46

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37	LaAlO3:Cr3+, Sm3+: Nano-perovskite with persistent luminescence for in vivo optical imaging. Journal of Luminescence, 2018, 202, 83-88.	3.1	45
38	Potentialities of silica/alginate nanoparticles as Hybrid Magnetic Carriers. International Journal of Pharmaceutics, 2007, 344, 128-134.	5.2	43
39	Manufactured metal and metal-oxide nanoparticles: Properties and perturbing mechanisms of their biological activity in ecosystems. Comptes Rendus - Geoscience, 2011, 343, 168-176.	1.2	43
40	N-Heterocyclic carbene-stabilized gold nanoparticles with tunable sizes. Dalton Transactions, 2018, 47, 6850-6859.	3.3	43
41	Chronic dosing of a simulated pond ecosystem in indoor aquatic mesocosms: fate and transport of CeO₂ nanoparticles. Environmental Science: Nano, 2015, 2, 653-663.	4.3	42
42	Luminescence properties of ZnGa₂O₄:Cr³⁺,Bi³⁺ nanophosphors for thermometry applications. RSC Advances, 2018, 8, 41767-41774.	3.6	42
43	Basic concepts of the crystallization from aqueous solutions: The example of aluminum oxy(hydroxi)des and aluminosilicates. Comptes Rendus - Geoscience, 2011, 343, 113-122.	1.2	40
44	Aged TiO₂-Based Nanocomposite Used in Sunscreens Produces Singlet Oxygen under Long-Wave UV and Sensitizes Escherichia coli to Cadmium. Environmental Science & Technology, 2014, 48, 5245-5253.	10.0	40
45	Persistent luminescence of Eu, Mn, Dy doped calcium phosphates for in-vivo optical imaging. Journal of Luminescence, 2016, 170, 460-466.	3.1	38
46	Nanophase Segregation of Self-Assembled Monolayers on Gold Nanoparticles. ACS Nano, 2017, 11, 7371-7381.	14.6	35
47	Magnetic Nanorods Confined in a Lamellar Lyotropic Phase. Langmuir, 2008, 24, 8205-8209.	3.5	34
48	Ligand and Solvation Effects on the Structural and Electronic Properties of Small Gold Clusters. Journal of Physical Chemistry C, 2014, 118, 4362-4376.	3.1	34
49	The First Structure of a Cerium(IV) Phosphate: Ab Initio Rietveld Analysis of CeIV(PO4)(HPO4)0.5(H2O)0.5. Angewandte Chemie - International Edition, 2005, 44, 5691-5694.	13.8	33
50	Do TiO₂ Nanoparticles Really Taste Better When Cooked in a Microwave Oven?. European Journal of Inorganic Chemistry, 2012, 2012, 2707-2715.	2.0	33
51	Quantitative Comparison of the Light-to-Heat Conversion Efficiency in Nanomaterials Suitable for Photothermal Therapy. ACS Applied Materials & Interfaces, 2022, 14, 33555-33566.	8.0	32
52	Design Defines the Effects of Nanoceria at a Low Dose on Soil Microbiota and the Potentiation of Impacts by the Canola Plant. Environmental Science & Technology, 2016, 50, 6892-6901.	10.0	30
53	Adsorption phenomena and magnetic properties of Î³-Fe2O3 nanoparticles. Journal of Magnetism and Magnetic Materials, 1999, 203, 63-65.	2.3	29
54	A high pressure pathway toward boron-based nanostructured solids. Dalton Transactions, 2018, 47, 7634-7639.	3.3	27

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55	Use of polyols as particle size and shape controllers: application to boehmite synthesis from solâ€“gel routes. Physical Chemistry Chemical Physics, 2011, 13, 6241.	2.8	25
56	Influence of Morphology and Crystallinity on Surface Reactivity of Nanosized Anatase TiO₂ Studied by Adsorption Techniques. 2. Solidâ€“Liquid Interface. Journal of Physical Chemistry C, 2013, 117, 4459-4469.	3.1	25
57	Following in Situ the Degradation of Mesoporous Silica in Biorelevant Conditions: At Last, a Good Comprehension of the Structure Influence. ACS Applied Materials & Interfaces, 2020, 12, 13598-13612.	8.0	25
58	Synthesis and characterization of CeIV(PO4)(HPO4)0.5(H2O)0.5. Journal of Physics and Chemistry of Solids, 2006, 67, 1075-1078.	4.0	24
59	Red long-lasting luminescence in clinoenstatite. Journal of Luminescence, 2009, 129, 1527-1530.	3.1	24
60	Lyotropic Lamellar Phase Doped with a Nematic Phase of Magnetic Nanorods. Langmuir, 2010, 26, 4586-4589.	3.5	23
61	Efficient photo-thermal activation of gold nanoparticle-doped polymer plasmonic switches. Optics Express, 2012, 20, 27636.	3.4	21
62	Insight into CaMgSi₂O₆:Eu²⁺,Mn²⁺,Dy³⁺ Nanoprobes: Influence of Chemical Composition and Crystallinity on Persistent Red Luminescence. European Journal of Inorganic Chemistry, 2015, 2015, 3681-3687.	2.0	21
63	Quantified Binding Scale of Competing Ligands at the Surface of Gold Nanoparticles: The Role of Entropy and Intermolecular Forces. Small, 2017, 13, 1604028.	10.0	21
64	A new story in the structural chemistry of cerium(IV) phosphate. Journal of Physics and Chemistry of Solids, 2007, 68, 795-798.	4.0	20
65	Direct Synthesis of Nâ€Heterocyclic Carbeneâ€Stabilized Copper Nanoparticles from an Nâ€Heterocyclic Carbeneâ€“Borane. Chemistry - A European Journal, 2019, 25, 11481-11485.	3.3	20
66	Bipyramidal anatase TiO2 nanoparticles, a highly efficient photocatalyst? Towards a better understanding of the reactivity. Applied Catalysis B: Environmental, 2017, 203, 324-334.	20.2	18
67	Co₃O₄/rGO Catalysts for Oxygen Electrocatalysis: On the Role of the Oxide/Carbon Interaction. Journal of the Electrochemical Society, 2019, 166, H94-H102.	2.9	18
68	Band Gap Engineering from Cation Balance: The Case of Lanthanide Oxysulfide Nanoparticles. Chemistry of Materials, 2019, 31, 5014-5023.	6.7	17
69	Is There a Trojan-Horse Effect during Magnetic Nanoparticles and Metalloid Cocontamination of Human Dermal Fibroblasts?. Environmental Science & Technology, 2012, 46, 10789-10796.	10.0	13
70	Gadolinium oxysulfide nanoprobes with both persistent luminescent and magnetic properties for multimodal imaging. RSC Advances, 2016, 6, 55472-55478.	3.6	13
71	Rationalizing the formation of binary mixed thiol self-assembled monolayers. Materials Today Chemistry, 2017, 5, 34-42.	3.5	13
72	Design of Magnetic Gelatine/Silica Nanocomposites by Nanoemulsification: Encapsulation versus in Situ Growth of Iron Oxide Colloids. Nanomaterials, 2014, 4, 612-627.	4.1	12

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73	Flyscan opportunities in medicine: the case of quantum rattle based on gold quantum dots. Journal of Synchrotron Radiation, 2017, 24, 991-999.	2.4	12
74	Evidence for Photoconductivity Anisotropy in Aligned TiO₂ Nanorod Films. Journal of Physical Chemistry C, 2010, 114, 19799-19802.	3.1	11
75	Interaction of TiO2 nanoparticles with proteins from aquatic organisms: the case of gill mucus from blue mussel. Environmental Science and Pollution Research, 2017, 24, 13474-13483.	5.3	10
76	NIR-Persistent Luminescence Nanoparticles for Bioimaging, Principle and Perspectives. , 2020, , 163-197.		10
77	Accelerated microwave assisted synthesis of alumino-germanate imogolite nanotubes. RSC Advances, 2016, 6, 108146-108150.	3.6	9
78	The shape and speciation of Ag nanoparticles drive their impacts on organisms in a lotic ecosystem. Environmental Science: Nano, 2020, 7, 3167-3177.	4.3	9
79	Silica-clay nanocomposites for the removal of antibiotics in the water usage cycle. Environmental Science and Pollution Research, 2021, 28, 7564-7573.	5.3	9
80	Scattering of ultrasonic shock waves in suspensions of silica nanoparticles. Journal of the Acoustical Society of America, 2011, 129, 1209-1220.	1.1	8
81	Hybrid Nanocomposites with Tunable Alignment of the Magnetic Nanorod Filler. ACS Applied Materials & Interfaces, 2014, 6, 1583-1588.	8.0	8
82	Versatile nano-platforms for hybrid systems: expressing spin-transition behavior on nanoparticles. Journal of Materials Chemistry C, 2015, 3, 3350-3355.	5.5	8
83	Experimental measurement of local high temperature at the surface of gold nanorods using doped ZnGa₂O₄as a nanothermometer. Nanoscale Advances, 2021, 3, 2862-2869.	4.6	8
84	Evidences for the relationship between surface structure andÂreactivity of goethite nanoparticles based on advanced molecular-probe methods. Adsorption, 2010, 16, 185-195.	3.0	5
85	Multifunctional coreâ€“shell hybrid nano-composites made using Pickering emulsions: a new design for therapeutic vectors. New Journal of Chemistry, 2016, 40, 4436-4446.	2.8	5
86	Nanoconfined water vapour as a probe to evaluate plasmonic heating. Nanoscale, 2020, 12, 13368-13376.	5.6	5
87	Influence of Structure and Organicâ€“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
88	Interplay of Solidâ€“Liquid Interactions and Anisotropic Aggregation in Solution: The Case Study of Î³-AlOOH Crystallites. Journal of Physical Chemistry C, 2021, 125, 26049-26060.	3.1	4
89	Facile synthesis and magnetic characterizations of single-crystalline hexagonal cobalt nanoplates. Materials Letters, 2013, 94, 121-123.	2.6	3
90	Infrared dichroism of gold nanorods controlled using a magnetically addressable mesophase. Journal of Materials Chemistry C, 2014, 2, 5087.	5.5	2

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91	Comment on â€˜Magnetic relaxation phenomena and inter-particle interactions in nanosized Î³-Fe2O3systemsâ€™. Journal of Physics Condensed Matter, 2005, 17, 2243-2249.	1.8	1
92	Magnetization analysis of oriented chains of hexagonal cobalt nanoplates. Journal of Applied Physics, 2014, 115, 17B521.	2.5	1
93	Study on the persistent luminescence of diopside nanotracers CaMgSi2O6: Eu2+, Mn2+, Pr3+. , 2016, , .		1
94	Radiation effects, photoluminescence and radioluminescence of Eu-doped (Y0.7Gd0.3)2O3 nanoparticles with various sizes. Optical Materials, 2018, 86, 582-589.	3.6	1
95	Mechanism and kinetics of hematite reduction under typical PWR secondary circuit condition. Journal of Nuclear Materials, 2020, 533, 152132.	2.7	1
96	Design of iron oxide/silica/alginate hybrid magnetic carriers (HYMAC). Journal of Nanoscience and Nanotechnology, 2007, 7, 4649-54.	0.9	1