StÃ©phane Mornet

List of Publications by Year
in descending order

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123 papers	8,568 citations	66234 42 h-index	43802 91 g-index
127 all docs	127 docs citations	127 times ranked	14236 citing authors

#	Article	IF	Citations
1	Magnetic nanoparticle design for medical diagnosis and therapy. Journal of Materials Chemistry, 2004, 14, 2161.	6.7	1,612
2	Extracellular vesicles from blood plasma: determination of their morphology, size, phenotype and concentration. Journal of Thrombosis and Haemostasis, 2014, 12, 614-627.	1.9	577
3	Magnetic nanoparticle design for medical applications. Progress in Solid State Chemistry, 2006, 34, 237-247.	3.9	465
4	Folate-Conjugated Iron Oxide Nanoparticles for Solid Tumor Targeting as Potential Specific Magnetic Hyperthermia Mediators: Synthesis, Physicochemical Characterization, and in Vitro Experiments. Bioconjugate Chemistry, 2005, 16, 1181-1188.	1.8	439
5	Magnetic nanoparticles and their applications in medicine. Nanomedicine, 2006, 1, 157-168.	1.7	327
6	The Formation of Supported Lipid Bilayers on Silica Nanoparticles Revealed by Cryoelectron Microscopy. Nano Letters, 2005, 5, 281-285.	4.5	322
7	Functionalised micro-/mesoporous silica for the adsorption of carbon dioxide. Microporous and Mesoporous Materials, 2007, 99, 79-85.	2.2	216
8	Gold Nanorods Coated with Mesoporous Silica Shell as Drug Delivery System for Remote Near Infrared Lightâ€Activated Release and Potential Phototherapy. Small, 2015, 11, 2323-2332.	5.2	213
9	Synthesis and Magnetic Characterization of Zinc Ferrite Nanoparticles with Different Environments:â€‰ Powder, Colloidal Solution, and Zinc Ferriteâ^'Silica Coreâ^'Shell Nanoparticles. Langmuir, 2002, 18, 8209-8216.	1.6	196
10	Nanoparticles of iron(ii) spin-crossover. Chemical Communications, 2008, , 4327.	2.2	172
11	Deciphering the mechanisms of cellular uptake of engineered nanoparticles by accurate evaluation of internalization using imaging flow cytometry. Particle and Fibre Toxicology, 2013, 10, 2.	2.8	172
12	A method for synthesis and functionalization of ultrasmall superparamagnetic covalent carriers based on maghemite and dextran. Journal of Magnetism and Magnetic Materials, 2005, 293, 127-134.	1.0	159
13	Lanthanum manganese perovskite nanoparticles as possible in vivo mediators for magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2006, 302, 315-320.	1.0	155
14	Fine Tuning of the Relaxometry of Î³-Fe₂O₃@SiO₂ Nanoparticles by Tweaking the Silica Coating Thickness. ACS Nano, 2010, 4, 5339-5349.	7.3	141
15	Cryo-electron tomography of nanoparticle transmigration into liposome. Journal of Structural Biology, 2009, 168, 419-425.	1.3	133
16	Surface modification of zinc oxide nanoparticles by aminopropyltriethoxysilane. Journal of Alloys and Compounds, 2003, 360, 298-311.	2.8	127
17	Functional silica nanoparticles synthesized by water-in-oil microemulsion processes. Journal of Colloid and Interface Science, 2010, 341, 201-208.	5.0	100
18	Thermoresponsive polymer brush-functionalized magnetic manganite nanoparticles for remotely triggered drug release. Polymer Chemistry, 2012, 3, 1408.	1.9	98

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19	Design of hybrid nanovehicles for remotely triggered drug release: an overview. Journal of Materials Chemistry B, 2015, 3, 6117-6147.	2.9	95
20	Specific absorption rate dependence on temperature in magnetic field hyperthermia measured by dynamic hysteresis losses (ac magnetometry). Nanotechnology, 2015, 26, 015704.	1.3	80
21	Manganite perovskite nanoparticles for self-controlled magnetic fluid hyperthermia: about the suitability of an aqueous combustion synthesis route. Journal of Materials Chemistry, 2011, 21, 4393.	6.7	77
22	Synthesis, magnetic properties, surface modification and cytotoxicity evaluation of Y3Fe5â˜'xAlxO12 (0â©½xâ©½2) garnet submicron particles for biomedical applications. Journal of Magnetism and Magnetic Materials, 2001, 234, 409-418.	1.0	71
23	Heat-triggered drug release systems based on mesoporous silica nanoparticles filled with a maghemite core and phase-change molecules as gatekeepers. Journal of Materials Chemistry B, 2014, 2, 59-70.	2.9	68
24	Topological Darkness in Selfâ€Assembled Plasmonic Metamaterials. Advanced Materials, 2014, 26, 324-330.	11.1	67
25	Use of Lanthanide-Grafted Inorganic Nanoparticles as Effective Contrast Agents for Cellular Uptake Imaging. Bioconjugate Chemistry, 2007, 18, 1053-1063.	1.8	66
26	Probing the in vitro mechanism of action of cationic lipid/DNA lipoplexes at a nanometric scale. Nucleic Acids Research, 2011, 39, 1595-1609.	6.5	66
27	Mesoporous Silica Modified with Titania:Â Structure and Thermal Stability. Chemistry of Materials, 2006, 18, 3184-3191.	3.2	65
28	Silica encapsulated manganese perovskite nanoparticles for magnetically induced hyperthermia without the risk of overheating. Nanotechnology, 2009, 20, 275610.	1.3	65
29	Relaxometric Studies of Î³-Fe₂O₃@SiO₂Core Shell Nanoparticles: When the Coating Matters. Journal of Physical Chemistry C, 2012, 116, 2285-2291.	1.5	65
30	Gold nanorods coated with a thermo-responsive poly(ethylene glycol)-b-poly(N-vinylcaprolactam) corona as drug delivery systems for remotely near infrared-triggered release. Polymer Chemistry, 2014, 5, 799-813.	1.9	63
31	Controlling internal barrier in low loss BaTiO3 supercapacitors. Applied Physics Letters, 2009, 94, 072903.	1.5	61
32	Hierarchical self-assembly of a bulk metamaterial enables isotropic magnetic permeability at optical frequencies. Materials Horizons, 2016, 3, 596-601.	6.4	61
33	Solid Lipid Nanoparticles for Image-Guided Therapy of Atherosclerosis. Bioconjugate Chemistry, 2016, 27, 569-575.	1.8	61
34	DNAâ€“magnetite nanocomposite materials. Materials Letters, 2000, 42, 183-188.	1.3	59
35	Acute exposure to silica nanoparticles enhances mortality and increases lung permeability in a mouse model of Pseudomonas aeruginosa pneumonia. Particle and Fibre Toxicology, 2015, 12, 1.	2.8	57
36	Controlled Growth of Silica Shell on Ba0.6Sr0.4TiO3Nanoparticles Used As Precursors of Ferroelectric Composites. Chemistry of Materials, 2005, 17, 4530-4536.	3.2	56

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37	MRI of inducible Pâ€selectin expression in human activated platelets involved in the early stages of atherosclerosis. NMR in Biomedicine, 2011, 24, 413-424.	1.6	53
38	Glucose-, pH- and thermo-responsive nanogels crosslinked by functional superparamagnetic maghemite nanoparticles as innovative drug delivery systems. Journal of Materials Chemistry B, 2014, 2, 1009.	2.9	53
39	Hydrothermal Sintering for Densification of Silica. Evidence for the Role of Water. Journal of the European Ceramic Society, 2018, 38, 1860-1870.	2.8	53
40	Ferroelectric-Based Nanocomposites:Â Toward Multifunctional Materials. Chemistry of Materials, 2007, 19, 987-992.	3.2	44
41	Interface Investigation in Nanostructured BaTiO₃/Silica Composite Ceramics. Journal of the American Ceramic Society, 2010, 93, 865-874.	1.9	44
42	Reversibly crosslinked thermo- and redox-responsive nanogels for controlled drug release. Polymer Chemistry, 2014, 5, 77-88.	1.9	44
43	Synthesis of colloidal superparamagnetic nanocomposites by grafting poly(Îµ-caprolactone) from the surface of organosilane-modified maghemite nanoparticles. Journal of Polymer Science Part A, 2005, 43, 3221-3231.	2.5	41
44	Towards a versatile platform based on magnetic nanoparticles for in vivo applications. Bulletin of Materials Science, 2006, 29, 581-586.	0.8	40
45	Resonant isotropic optical magnetism of plasmonic nanoclusters in visible light. Physical Review B, 2015, 92, .	1.1	40
46	Nanoparticles functionalised with an anti-platelet human antibody for in vivo detection of atherosclerotic plaque by magnetic resonance imaging. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 927-937.	1.7	38
47	A new polypyrrole/maghemite hybrid as a lithium insertion electrode. Electrochemistry Communications, 2002, 4, 197-200.	2.3	37
48	Robust raspberry-like metallo-dielectric nanoclusters of critical sizes as SERS substrates. Nanoscale, 2017, 9, 5725-5736.	2.8	36
49	Use of Nanopatterned Surfaces To Enhance Immunoreaction Efficiency. Analytical Chemistry, 2008, 80, 1418-1424.	3.2	34
50	Microfluidic-Induced Growth and Shape-Up of Three-Dimensional Extended Arrays of Densely Packed Nanoparticles. ACS Nano, 2013, 7, 6465-6477.	7.3	34
51	Bottom-up Fabrication and Optical Characterization of Dense Films of Meta-Atoms Made of Coreâ€“Shell Plasmonic Nanoparticles. Langmuir, 2013, 29, 1551-1561.	1.6	34
52	Gold Nanorods with Phaseâ€Changing Polymer Corona for Remotely Nearâ€Infraredâ€Triggered Drug Release. Chemistry - an Asian Journal, 2014, 9, 275-288.	1.7	34
53	Biosynthesis of gold nanoparticles by the living freshwater diatom Eolimna minima, a species developed in river biofilms. Environmental Science and Pollution Research, 2016, 23, 4334-4339.	2.7	34
54	Membrane Protein Selectively Oriented on Solid Support and Reconstituted into a Lipid Membrane. Langmuir, 2007, 23, 2647-2654.	1.6	33

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55	Poly(acrylic acid)-block-poly(vinyl alcohol) anchored maghemite nanoparticles designed for multi-stimuli triggered drug release. Nanoscale, 2013, 5, 11464.	2.8	33
56	Metallic oxide nanoparticle translocation across the human bronchial epithelial barrier. Nanoscale, 2015, 7, 4529-4544.	2.8	33
57	Synthesis of multivalent silica nanoparticles combining both enthalpic and entropic patchiness. Faraday Discussions, 2015, 181, 139-146.	1.6	32
58	Impact of surface grafting density of PEG macromolecules on dually fluorescent silica nanoparticles used for the in vivo imaging of subcutaneous tumors. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1587-1596.	1.1	32
59	New Insights into Crystallite Size and Cell Parameters Correlation for ZnO Nanoparticles Obtained from Polyol-Mediated Synthesis. Inorganic Chemistry, 2013, 52, 12811-12817.	1.9	31
60	Internalization and fate of silica nanoparticles in C2C12 skeletal muscle cells: evidence of a beneficial effect on myoblast fusion. International Journal of Nanomedicine, 2015, 10, 1479.	3.3	30
61	Linking hopping conductivity to giant dielectric permittivity in oxides. Applied Physics Letters, 2010, 97, 132901.	1.5	29
62	Evidence of non-stoichiometry effects in nanometric manganite perovskites: influence on the magnetic ordering temperature. Journal of Materials Chemistry, 2011, 21, 14990.	6.7	28
63	Quaternary Ammonium Groups Exposed at the Surface of Silica Nanoparticles Suitable for DNA Complexation in the Presence of Cationic Lipids. Journal of Physical Chemistry B, 2015, 119, 6401-6411.	1.2	28
64	Supported pulmonary surfactant bilayers on silica nanoparticles: formulation, stability and impact on lung epithelial cells. Nanoscale, 2017, 9, 14967-14978.	2.8	28
65	New Insights into the Side-Face Structure, Growth Aspects, and Reactivity of Ag_n Nanoprisms. Langmuir, 2014, 30, 1424-1434.	1.6	26
66	Hexagonal-to-Cubic Phase Transformation in Composite Thin Films Induced by FePt Nanoparticles Located at PS/PEO Interfaces. Langmuir, 2011, 27, 14481-14488.	1.6	25
67	Synthesis of Size-Monodisperse Spherical Ag@SiO2 Nanoparticles and 3-D Assembly Assisted by Microfluidics. Langmuir, 2013, 29, 1790-1795.	1.6	24
68	From coreâ€“shell BaTiO₃@MgO to nanostructured low dielectric loss ceramics by spark plasma sintering. Journal of Materials Chemistry C, 2014, 2, 683-690.	2.7	24
69	Thermo-responsive gold/poly(vinyl alcohol)-b-poly(N-vinylcaprolactam) coreâ€“corona nanoparticles as a drug delivery system. Polymer Chemistry, 2014, 5, 5289-5299.	1.9	24
70	Polyelectrolyte assisted charge titration spectrometry: Applications to latex and oxide nanoparticles. Journal of Colloid and Interface Science, 2016, 475, 36-45.	5.0	24
71	Nano-ferroelectric based coreâ€“shell particles: towards tuning of dielectric properties. Ceramics International, 2004, 30, 1241-1245.	2.3	23
72	Effects of ball milling on the grain morphology and the magnetic properties of Gd3Fe3Al2O12 garnet compound. Journal of Alloys and Compounds, 2003, 359, 330-337.	2.8	22

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73	Organosilane-modified maghemite nanoparticles and their use as co-initiator in the ring-opening polymerization of É›-caprolactone. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 262, 150-157.	2.3	22
74	The Interplay between Surface Plasmon Resonance and Switching Properties in Gold@Spin Crossover Nanocomposites. Advanced Functional Materials, 2020, 30, 2000447.	7.8	22
75	Calcium signalling induced by in vitro exposure to silicium dioxide nanoparticles in rat pulmonary artery smooth muscle cells. Toxicology, 2017, 375, 37-47.	2.0	21
76	Largeâ€Scale Fabrication of Biâ€Functional Nanostructured Polymer Surfaces for Selective Biomolecular Adhesion. Small, 2008, 4, 1919-1924.	5.2	18
77	Sensitivity Enhancement of Surfaceâ€Plasmon Resonance Imaging by Nanoarrayed Organothiols. Advanced Materials, 2008, 20, 2352-2358.	11.1	17
78	Hierarchical assembly of magnetic L10-ordered FePt nanoparticles in block copolymer thin films. Journal of Materials Chemistry C, 2013, 1, 1317-1321.	2.7	17
79	High-temperature soft magnetic properties of antiperovskite nitrides ZnNFe 3 and AlNFe 3. Journal of Magnetism and Magnetic Materials, 2015, 378, 54-58.	1.0	17
80	Grafting of gold onto spin-crossover nanoparticles: SCO@Au. Chemical Communications, 2016, 52, 13213-13216.	2.2	17
81	Design of 0â€“3 type nanocomposites using hydrothermal sintering. Scripta Materialia, 2018, 148, 15-19.	2.6	17
82	Trophic transfer and effects of gold nanoparticles (AuNPs) in Gammarus fossarum from contaminated periphytic biofilm. Environmental Science and Pollution Research, 2018, 25, 11181-11191.	2.7	17
83	Electronegativity and chemical hardness: two helpful concepts for understanding oxide nanochemistry. Materials Letters, 2001, 51, 402-413.	1.3	16
84	Templated growth of gold satellites on dimpled silica cores. Faraday Discussions, 2016, 191, 105-116.	1.6	16
85	Iron oxide core oil-in-water nanoemulsion as tracer for atherosclerosis MPI and MRI imaging. International Journal of Pharmaceutics, 2017, 532, 669-676.	2.6	16
86	Inorganic Nanocrystalline and Hybrid Nanocrystalline Particles (Gamma-Fe[sub 2]O[sub 3]/PPY) and Their Contribution to Electrode Materials for Lithium Batteries. Journal of the Electrochemical Society, 2004, 151, A1445.	1.3	15
87	Direct fabrication of nanoscale bio-adhesive patterns by electron beam surface modification of plasma polymerized poly ethylene oxide-like coatings. Nanotechnology, 2008, 19, 125306.	1.3	15
88	In Vivo Imaging of Local Gene Expression Induced by Magnetic Hyperthermia. Genes, 2017, 8, 61.	1.0	15
89	Multimodal molecular imaging of atherosclerosis: Nanoparticles functionalized with scFv fragments of an anti-Î±IIbÎ²3 antibody. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 22, 102082.	1.7	15
90	A Nano-Emulsion Platform Functionalized with a Fully Human scFv-Fc Antibody for Atheroma Targeting: Towards a Theranostic Approach to Atherosclerosis. International Journal of Molecular Sciences, 2021, 22, 5188.	1.8	15

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91	Photoâ€Thermal Switching of Individual Plasmonically Activated Spin Crossover Nanoparticle Imaged by Ultrafast Transmission Electron Microscopy. Advanced Materials, 2021, 33, e2105586.	11.1	15
92	Atomic force microscopy characterization of the chemical contrast of nanoscale patterns fabricated by electron beam lithography on polyethylene glycol oxide thin films. Ultramicroscopy, 2009, 109, 222-229.	0.8	12
93	Encapsulation of ZnO particles by metal fluorides: Towards an application as transparent insulating coatings for windows. Optical Materials, 2013, 35, 661-667.	1.7	12
94	Gold nanoparticle trophic transfer from natural biofilm to grazer fish. Gold Bulletin, 2018, 51, 163-173.	1.1	12
95	Bioaccumulation dynamics and gene regulation in a freshwater bivalve after aqueous and dietary exposures to gold nanoparticles and ionic gold. Environmental Science and Pollution Research, 2020, 27, 3637-3650.	2.7	12
96	Particles with Magnetic Patches: Synthesis, Morphology Control, and Assembly. Particle and Particle Systems Characterization, 2020, 37, 2000111.	1.2	12
97	Nanoparticle phagocytosis and cellular stress: involvement in cellular imaging and in gene therapy against glioma. NMR in Biomedicine, 2010, 23, 88-96.	1.6	11
98	Surface patterning of micron-sized aluminum flakes by seeded dispersion polymerization: Towards waterborne colored pigments by gold nanoparticles adsorption. Polymer, 2014, 55, 762-771.	1.8	11
99	Optimization of Magnetic Inks Made of L1₀-Ordered FePt Nanoparticles and Polystyrene-block-Poly(ethylene oxide) Copolymers. Langmuir, 2015, 31, 6675-6680.	1.6	10
100	Organization of reconstituted lipoprotein MexA onto supported lipid membrane. European Biophysics Journal, 2007, 36, 1029-1037.	1.2	9
101	Multilamellar liposomes entrapping aminosilane-modified maghemite nanoparticles: â€œmagnetonionsâ€. Physical Chemistry Chemical Physics, 2010, 12, 12794.	1.3	9
102	Revealing the pulmonary surfactant corona on silica nanoparticles by cryo-transmission electron microscopy. Nanoscale Advances, 2020, 2, 642-647.	2.2	9
103	Innovative architectures in ferroelectric multi-materials: Chemistry, interfaces and strain. Journal of Advanced Dielectrics, 2015, 05, 1530001.	1.5	8
104	Nanoparticle-Lipid Interaction: Job Scattering Plots to Differentiate Vesicle Aggregation from Supported Lipid Bilayer Formation. Colloids and Interfaces, 2018, 2, 50.	0.9	8
105	From nano-structured polycrystalline spheres with Zn1-xCoxO composition to core-shell Zn1-xCoxO@SiO2 as green pigments. Journal of Alloys and Compounds, 2019, 777, 1204-1210.	2.8	8
106	Establishment of the correlation law between electron density, infrared absorption and doping concentration in Ga3+-doped ZnO. Materials Research Bulletin, 2013, 48, 1155-1159.	2.7	7
107	Visible-transparent and UV/IR-opaque colloidal dispersions of Ga-doped zinc oxide nanoparticles. New Journal of Chemistry, 2016, 40, 7204-7209.	1.4	6
108	Data on iron oxide core oil-in-water nanoemulsions for atherosclerosis imaging. Data in Brief, 2017, 15, 876-881.	0.5	6

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109	Towards Polymeric Nanoparticles with Multiple Magnetic Patches. Nanomaterials, 2021, 11, 147.	1.9	6
110	Magnetic Nanoparticles for Magnetic Resonance Imaging and Hyperthermia Applications. , 2013, , 99-129.		4
111	Interaction of Freshwater Diatom with Gold Nanoparticles: Adsorption, Assimilation, and Stabilization by Cell Exometabolites. Minerals (Basel, Switzerland), 2018, 8, 99.	0.8	4
112	Discussion on the structural anisotropy of wÃ¼rtzite-type compounds. Solid State Sciences, 2013, 21, 81-84.	1.5	3
113	NiONPs-induced alteration in calcium signaling and mitochondrial function in pulmonary artery endothelial cells involves oxidative stress and TRPV4 channels disruption. Nanotoxicology, 2022, 16, 29-51.	1.6	3
114	Synthesis and characterization of magnetic-fluorescent composite colloidal nanostructures. , 2008, , .		2
115	Regioselective functionalization of dimpled silica particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 510, 239-244.	2.3	2
116	Transfer and Transcriptomic Profiling in Liver and Brain of European Eels (Anguilla anguilla) After Dietâ€borne Exposure to Gold Nanoparticles. Environmental Toxicology and Chemistry, 2020, 39, 2450-2461.	2.2	2
117	Conductive Polymer/Transition Metal Oxide Hybrid Materials for Lithium Batteries. Materials Research Society Symposia Proceedings, 2002, 726, 1.	0.1	1
118	Rational Direct Synthesis of RbMnFe Nanoparticles (RbMnFe = RbxMn[Fe(CN)6](2+x)/3Â·nH2O Prussian) Tj ETQq0 0 0 rgBT /Overlock 1	1.9	1
119	Influence of the Annealing Temperature on the Site Preference of Cations, Structural and Magnetic Properties in RE₃Fe_{4.5}Al_{0.5}O₁₂ (RE = Y, Gd) Synthesized by Citrate Route. Key Engineering Materials, 2001, 214-215, 241-246.	0.4	0
120	Tailor-made nanomaterials for biological and medical applications. , 2006, , .		0
121	Bioadhesive nanoareas in antifouling matrix for highly efficient affinity sensors. Proceedings of SPIE, 2008, , .	0.8	0
122	Optical cavity modes in semicurved Fabryâ€“PÃ©rot resonators. Journal of Applied Physics, 2010, 108, 086109.	1.1	0
123	Synthesis and Characterisation of Iron Oxide Ferrite Nanoparticles and Ferrite-Based Aqueous Fluids. , 2012, , 47-72.		0