

Jerome Fresnais

List of Publications by Year in descending order

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55
papers

2,334
citations

201385

27
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all docs

57
docs citations

57
times ranked

3841
citing authors

#	ARTICLE	IF	CITATIONS
1	A Universal Scaling Law to Predict the Efficiency of Magnetic Nanoparticles as MRI T2 Contrast Agents. <i>Advanced Healthcare Materials</i> , 2012, 1, 502-512.	3.9	174
2	Synthesis of transparent superhydrophobic polyethylene surfaces. <i>Surface and Coatings Technology</i> , 2006, 200, 5296-5305.	2.2	140
3	Functional Iron Oxide Magnetic Nanoparticles with Hyperthermia-Induced Drug Release Ability by Using a Combination of Orthogonal Click Reactions. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14152-14156.	7.2	133
4	Recent insights in magnetic hyperthermia: From the "hot-spot" effect for local delivery to combined magneto-photo-thermia using magneto-plasmonic hybrids. <i>Advanced Drug Delivery Reviews</i> , 2019, 138, 233-246.	6.6	122
5	Hyperthermia of Magnetic Nanoparticles: Experimental Study of the Role of Aggregation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28148-28154.	1.5	118
6	Electrosteric Enhanced Stability of Functional Sub-10 nm Cerium and Iron Oxide Particles in Cell Culture Medium. <i>Langmuir</i> , 2009, 25, 9064-9070.	1.6	110
7	Redispersible Hybrid Nanopowders: Cerium Oxide Nanoparticle Complexes with Phosphonated-PEG Oligomers. <i>ACS Nano</i> , 2008, 2, 879-888.	7.3	98
8	Electrostatic Co-Assembly of Iron Oxide Nanoparticles and Polymers: Towards the Generation of Highly Persistent Superparamagnetic Nanorods. <i>Advanced Materials</i> , 2008, 20, 3877-3881.	11.1	97
9	Evidence of a two-step process and pathway dependency in the thermodynamics of poly(diallyldimethylammonium chloride)/poly(sodium acrylate) complexation. <i>Soft Matter</i> , 2014, 10, 9496-9505.	1.2	87
10	Poly(acrylic acid)-coated iron oxide nanoparticles: Quantitative evaluation of the coating properties and applications for the removal of a pollutant dye. <i>Journal of Colloid and Interface Science</i> , 2013, 395, 24-30.	5.0	85
11	Design of magnetic molecularly imprinted polymer nanoparticles for controlled release of doxorubicin under an alternative magnetic field in athermal conditions. <i>Nanoscale</i> , 2015, 7, 18891-18896.	2.8	77
12	Growth mechanism of nanostructured superparamagnetic rods obtained by electrostatic co-assembly. <i>Soft Matter</i> , 2010, 6, 1997.	1.2	62
13	Nanoparticle Aggregation Controlled by Desalting Kinetics. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16371-16379.	1.5	61
14	Superparamagnetic iron oxide polyacrylic acid coated Fe_3O_4 nanoparticles do not affect kidney function but cause acute effect on the cardiovascular function in healthy mice. <i>Toxicology and Applied Pharmacology</i> , 2013, 266, 276-288.	1.3	60
15	Magnetic micropillars as a tool to govern substrate deformations. <i>Lab on A Chip</i> , 2011, 11, 2630.	3.1	59
16	Oriented Gold Nanorods and Gold Nanorod Chains within Smectic Liquid Crystal Topological Defects. <i>ACS Nano</i> , 2017, 11, 6728-6738.	7.3	50
17	Dynamics of paramagnetic nanostructured rods under rotating field. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1309-1313.	1.0	44
18	Interfacial Activity of Phosphonated-PEG Functionalized Cerium Oxide Nanoparticles. <i>Langmuir</i> , 2012, 28, 11448-11456.	1.6	41

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19	Sensitive High Frequency AC Susceptometry in Magnetic Nanoparticle Applications. AIP Conference Proceedings, 2010, , .	0.3	39
20	Enhancing the magnetic anisotropy of maghemite nanoparticles via the surface coordination of molecular complexes. Nature Communications, 2015, 6, 10139.	5.8	39
21	Magnetic Nanowires Generated via the Waterborne Desalting Transition Pathway. ACS Applied Materials & Interfaces, 2011, 3, 1049-1054.	4.0	34
22	Influence of a dispersion of magnetic and nonmagnetic nanoparticles on the magnetic Fredericksz transition of the liquid crystal 5CB. Physical Review E, 2017, 96, 012706.	0.8	33
23	Magnetic Nanoparticles Create Hot Spots in Polymer Matrix for Controlled Drug Release. Nanomaterials, 2018, 8, 850.	1.9	33
24	Magnetic Field-Driven Deformation, Attraction, and Coalescence of Nonmagnetic Aqueous Droplets in an Oil-Based Ferrofluid. Langmuir, 2020, 36, 5048-5057.	1.6	32
25	Stability and Adsorption Properties of Electrostatic Complexes: Design of Hybrid Nanostructures for Coating Applications. Langmuir, 2007, 23, 11996-11998.	1.6	31
26	Solvatochromic dissociation of non-covalent fluorescent organic nanoparticles upon cell internalization. Physical Chemistry Chemical Physics, 2011, 13, 13268.	1.3	31
27	Influence of the Formulation Process in Electrostatic Assembly of Nanoparticles and Macromolecules in Aqueous Solution: The Interaction Pathway. Journal of Physical Chemistry C, 2010, 114, 16373-16381.	1.5	28
28	Influence of the Formulation Process in Electrostatic Assembly of Nanoparticles and Macromolecules in Aqueous Solution: The Mixing Pathway. Journal of Physical Chemistry C, 2010, 114, 12870-12877.	1.5	28
29	Organic versus hybrid coacervate complexes: co-assembly and adsorption properties. Soft Matter, 2008, 4, 577.	1.2	27
30	Electrostatic Co-assembly of Magnetic Nanoparticles and Fluorescent Nanospheres: A Versatile Approach Towards Bimodal Nanorods. Small, 2009, 5, 2533-2536.	5.2	25
31	Controlled grafted brushes of polystyrene on magnetic γ -Fe ₂ O ₃ nanoparticles via nitroxide-mediated polymerization. Soft Matter, 2012, 8, 3407.	1.2	24
32	Magnetic fluid hyperthermia probed by both calorimetric and dynamic hysteresis measurements. Journal of Magnetism and Magnetic Materials, 2017, 421, 384-392.	1.0	24
33	Controlling nanoparticles dispersion in ionic liquids by tuning the pH. Journal of Colloid and Interface Science, 2015, 454, 105-111.	5.0	22
34	Plasma-Treated Superhydrophobic Polyethylene Surfaces: Fabrication, Wetting and Dewetting Properties. Journal of Adhesion Science and Technology, 2009, 23, 447-467.	1.4	21
35	Polydimethylsiloxane (PDMS) Coating onto Magnetic Nanoparticles Induced by Attractive Electrostatic Interaction. Applied Sciences (Switzerland), 2012, 2, 485-495.	1.3	21
36	Viscoelastic and dielectric properties of 5CB nematic liquid crystal doped by magnetic and nonmagnetic nanoparticles. Physical Review E, 2020, 102, 052703.	0.8	21

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37	Thermal Polymerization on the Surface of Iron Oxide Nanoparticles Mediated by Magnetic Hyperthermia: Implications for Multishell Grafting and Environmental Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 547-555.	2.4	19
38	Novel Tools towards Magnetic Guidance of Neurite Growth: (I) Guidance of Magnetic Nanoparticles into Neurite Extensions of Induced Human Neurons and In Vitro Functionalization with RAS Regulating Proteins. <i>Journal of Functional Biomaterials</i> , 2019, 10, 32.	1.8	19
39	Tuning the architectural integrity of high-performance magneto-fluorescent core-shell nanoassemblies in cancer cells. <i>Journal of Colloid and Interface Science</i> , 2016, 479, 139-149.	5.0	17
40	Magnetic hyperthermia-induced drug release from ureasil-PEO- Fe_2O_3 nanocomposites. <i>RSC Advances</i> , 2016, 6, 63291-63295.	1.7	17
41	Photoactive chelating organic nanospheres as central platforms of bimodal hybrid nanoparticles. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3879.	2.7	13
42	Highly cohesive dual nanoassemblies for complementary multiscale bioimaging. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7747-7755.	2.9	13
43	Parallelized Manipulation of Adherent Living Cells by Magnetic Nanoparticles-Mediated Forces. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6560.	1.8	13
44	Stabilization and controlled association of superparamagnetic nanoparticles using block copolymers. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 667-670.	1.0	12
45	Hyperthermia Efficiency of Magnetic Nanoparticles in Dense Aggregates of Cerium Oxide/Iron Oxide Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1241.	1.3	12
46	Reorientation kinetics of superparamagnetic nanostructured rods. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 494216.	0.7	9
47	Thermoresponsive hybrid double-crosslinked networks using magnetic iron oxide nanoparticles as crossing points. <i>Polymer Chemistry</i> , 2018, 9, 4642-4650.	1.9	9
48	Coating Effect on the ^1H NMR Relaxation Properties of Iron Oxide Magnetic Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 1660.	1.9	8
49	Dispersion mechanism of polyacrylic acid-coated nanoparticle in protic ionic liquid, N,N-diethylethanolammonium trifluoromethanesulfonate. <i>Journal of Colloid and Interface Science</i> , 2018, 516, 248-253.	5.0	6
50	Magnetic spatiotemporal control of SOS1 coupled nanoparticles for guided neurite growth in dopaminergic single cells. <i>Scientific Reports</i> , 2020, 10, 22452.	1.6	6
51	NMR relaxivity of coated and non-coated size-sorted maghemite nanoparticles. <i>Molecular Physics</i> , 2019, 117, 990-999.	0.8	4
52	Influence of polycation/cation competition on the aggregation threshold of magnetic nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 612, 125876.	2.3	3
53	New Platform for Gravitational Microfluidic Using Ferrofluids. <i>Langmuir</i> , 2019, 35, 9133-9138.	1.6	2
54	Enthalpy profile of pH-induced flocculation and redispersion of polyacrylic acid-coated nanoparticles in protic ionic liquid, N,N-diethylethanolammonium trifluoromethanesulfonate. <i>Journal of Molecular Liquids</i> , 2022, 349, 118146.	2.3	1

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55	Organic nanoparticles as a central platform of magnetofluorescent nano-assemblies toward two-photon bioimaging applications. Proceedings of SPIE, 2012, , .	0.8	0