Yoann Lalatonne

List of Publications by Year
in descending order

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74 papers	2,899 citations	159585 30 h-index	175258 52 g-index
79 all docs	79 docs citations	79 times ranked	4471 citing authors

#	Article	IF	Citations
1	Van der Waals versus dipolar forces controlling mesoscopic organizations of magnetic nanocrystals. Nature Materials, 2004, 3, 121-125.	27.5	389
2	Precipitationâ˜'Redispersion of Cerium Oxide Nanoparticles with Poly(acrylic acid):Â Toward Stable Dispersions. Langmuir, 2005, 21, 9359-9364.	3.5	176
3	Massive Intracellular Biodegradation of Iron Oxide Nanoparticles Evidenced Magnetically at Single-Endosome and Tissue Levels. ACS Nano, 2016, 10, 7627-7638.	14.6	167
4	Bis-phosphonatesâ€"ultra small superparamagnetic iron oxide nanoparticles: a platform towards diagnosis and therapy. Chemical Communications, 2008, , 2553.	4.1	136
5	Targeted thermal therapy with genetically engineered magnetite magnetosomes@RGD: Photothermia is far more efficient than magnetic hyperthermia. Journal of Controlled Release, 2018, 279, 271-281.	9.9	110
6	Iron oxide nanoparticles with sizes, shapes and compositions resulting in different magnetization signatures as potential labels for multiparametric detection. Acta Biomaterialia, 2013, 9, 6150-6157.	8.3	101
7	Biosynthesis of magnetic nanoparticles from nano-degradation products revealed in human stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4044-4053.	7.1	98
8	Covalent Organic Framework Embedded with Magnetic Nanoparticles for MRI and Chemo-Thermotherapy. Journal of the American Chemical Society, 2020, 142, 18782-18794.	13.7	89
9	Nonâ€Aqueous Solâ€"Gel Synthesis of Ultra Small Persistent Luminescence Nanoparticles for Nearâ€Infrared In Vivo Imaging. Chemistry - A European Journal, 2015, 21, 7350-7354.	3.3	66
10	A multimodal magnetic resonance imaging nanoplatform for cancer theranostics. Physical Chemistry Chemical Physics, 2011, 13, 10020.	2.8	62
11	Carbodiimide versus Click Chemistry for Nanoparticle Surface Functionalization: A Comparative Study for the Elaboration of Multimodal Superparamagnetic Nanoparticles Targeting Î±_vÎ²₃ Integrins. Langmuir, 2013, 29, 14639-14647.	3.5	61
12	Mesoscopic Structures of Nanocrystals:Â Collective Magnetic Properties Due to the Alignment of Nanocrystals. Journal of Physical Chemistry B, 2004, 108, 1848-1854.	2.6	60
13	Magnetosomes, Biogenic Magnetic Nanomaterials for Brain Molecular Imaging with 17.2 T MRI Scanner. Advanced Healthcare Materials, 2015, 4, 1076-1083.	7.6	55
14	Superparamagnetic nanovector with anti-cancer properties: Î³Fe2O3@Zoledronate. International Journal of Pharmaceutics, 2009, 379, 324-327.	5.2	54
15	Magnetoâ€Thermal Metrics Can Mirror the Longâ€Term Intracellular Fate of Magnetoâ€Plasmonic Nanohybrids and Reveal the Remarkable Shielding Effect of Gold. Advanced Functional Materials, 2017, 27, 1605997.	14.9	51
16	Iron oxide nanochains coated with silica: Synthesis, surface effects and magnetic properties. Applied Surface Science, 2019, 476, 641-646.	6.1	50
17	Self assemblies of nanocrystals: preparation, collective properties and uses. Faraday Discussions, 2004, 125, 251.	3.2	49
18	Design, Properties, and In Vivo Behavior of SuperÂparamagnetic Persistent Luminescence Nanohybrids. Small, 2015, 11, 2696-2704.	10.0	49

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19	Effect of Cobalt Doping Concentration on the Crystalline Structure and Magnetic Properties of Monodisperse Co_xFe_{3â€“x}O₄ Nanoparticles within Nonpolar and Aqueous Solvents. Journal of Physical Chemistry C, 2012, 116, 4349-4355.	3.1	45
20	Multimodal superparamagnetic nanoplatform for clinical applications: immunoassays, imaging & therapy. Faraday Discussions, 2011, 149, 211-225.	3.2	44
21	Impact of magnetic nanoparticle surface coating on their long-term intracellular biodegradation in stem cells. Nanoscale, 2019, 11, 16488-16498.	5.6	43
22	Sizeâ€Đependent Nonlinear Weakâ€Field Magnetic Behavior of Maghemite Nanoparticles. Small, 2012, 8, 1945-1956.	10.0	42
23	Iron oxide nanoparticle surface decorated with cRGD peptides for magnetic resonance imaging of brain tumors. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1515-1520.	2.4	41
24	Antioxidative Theranostic Iron Oxide Nanoparticles toward Brain Tumors Imaging and ROS Production. ACS Chemical Biology, 2016, 11, 2812-2819.	3.4	40
25	Ever-Evolving Identity of Magnetic Nanoparticles within Human Cells: The Interplay of Endosomal Confinement, Degradation, Storage, and Neocrystallization. Accounts of Chemical Research, 2020, 53, 2212-2224.	15.6	39
26	Nanohybrids with Magnetic and Persistent Luminescence Properties for Cell Labeling, Tracking, In Vivo Realâ€Time Imaging, and Magnetic Vectorization. Small, 2018, 14, e1800020.	10.0	38
27	Microwave assisted nanoparticle surface functionalization. Nanotechnology, 2011, 22, 055102.	2.6	36
28	Toward theranostic nanoparticles: CB[7]-functionalized iron oxide for drug delivery and MRI. Journal of Materials Chemistry B, 2013, 1, 5076.	5.8	35
29	Optimized multimodal nanoplatforms for targeting Î±vÎ²3 integrins. Nanoscale, 2013, 5, 11478.	5.6	32
30	Immobilized Pd on magnetic nanoparticles bearing proline as a highly efficient and retrievable Suzukiâ€“Miyaura catalyst in aqueous media. Dalton Transactions, 2015, 44, 501-505.	3.3	30
31	Influence of short-range interactions on the mesoscopic organization of magnetic nanocrystals. Physical Review E, 2005, 71, 011404.	2.1	28
32	Electrostatic assembly of a DNA superparamagnetic nano-tool for simultaneous intracellular delivery and in situ monitoring. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1106-1115.	3.3	28
33	Magneto-mechanical destruction of cancer-associated fibroblasts using ultra-small iron oxide nanoparticles and low frequency rotating magnetic fields. Nanoscale Advances, 2022, 4, 421-436.	4.6	27
34	Different signatures between chemically and biologically synthesized nanoparticles in a magnetic sensor: A new technology for multiparametric detection. Sensors and Actuators B: Chemical, 2010, 147, 786-790.	7.8	26
35	Viologenâ€Templated Arrays of Cucurbit[7]urilâ€Modified Ironâ€Oxide Nanoparticles. Chemistry - A European Journal, 2015, 21, 4607-4613.	3.3	24
36	Vectorization of Nucleic Acids for Therapeutic Approach: Tutorial Review. ACS Chemical Biology, 2016, 11, 1180-1191.	3.4	23

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37	Bivalent alkyne-bisphosphonate as clickable and solid anchor to elaborate multifunctional iron oxide nanoparticles with microwave enhancement. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	22
38	Characterization of magnetic labels for bioassays. Journal of Magnetism and Magnetic Materials, 2009, 321, 1653-1657.	2.3	21
39	Elaboration and characterization of magnetic nanocomposite fibers by electrospinning. Journal of Nanoparticle Research, 2010, 12, 2735-2740.	1.9	21
40	Tolerogenic Iron Oxide Nanoparticles in Type 1 Diabetes: Biodistribution and Pharmacokinetics Studies in Nonobese Diabetic Mice. Small, 2018, 14, e1802053.	10.0	21
41	Raspberry-like small multicore gold nanostructures for efficient photothermal conversion in the first and second near-infrared windows. Chemical Communications, 2019, 55, 4055-4058.	4.1	20
42	Bone mineral density assessed by dual-energy X-ray absorptiometry in patients with viral or alcoholic compensated cirrhosis. A prospective study. Clinics and Research in Hepatology and Gastroenterology, 2011, 35, 731-737.	1.5	19
43	Size and polydispersity effect on the magnetization of densely packed magnetic nanoparticles. Journal of Applied Physics, 2012, 112, 073926.	2.5	19
44	Catechol versus bisphosphonate ligand exchange at the surface of iron oxide nanoparticles: towards multi-functionalization. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	19
45	Magnetic metrology for iron oxide nanoparticle scaled-up synthesis. RSC Advances, 2014, 4, 49086-49089.	3.6	18
46	USPIO size control through microwave nonaqueous sol-gel method for neoangiogenesis T₂MRI contrast agent. Nanomedicine, 2016, 11, 2769-2779.	3.3	18
47	Bimodal Fucoidan-Coated Zinc Oxide/Iron Oxide-Based Nanoparticles for the Imaging of Atherothrombosis. Molecules, 2019, 24, 962.	3.8	18
48	New dextrin nanomagnetogels as contrast agents for magnetic resonance imaging. Journal of Materials Chemistry B, 2013, 1, 5853.	5.8	17
49	Magnetization of densely packed interacting magnetic nanoparticles with cubic and uniaxial anisotropies: A Monte Carlo study. Journal of Applied Physics, 2013, 114, 143904.	2.5	16
50	Endosomal Confinement of Gold Nanospheres, Nanorods, and Nanoraspberries Governs Their Photothermal Identity and Is Beneficial for Cancer Cell Therapy. Advanced Biology, 2020, 4, e1900284.	3.0	16
51	Easily Controlled Grafting of Oligonucleotides on Î³Fe2O3 Nanoparticles: Physicochemical Characterization of DNA Organization and Biological Activity Studies. Journal of Physical Chemistry B, 2014, 118, 1535-1544.	2.6	14
52	Optimization of pegylated iron oxide nanoplatforms for antibody coupling and bio-targeting. Journal of Materials Chemistry B, 2017, 5, 2896-2907.	5.8	14
53	Real-Time Observation and Analysis of Magnetomechanical Actuation of Magnetic Nanoparticles in Cells. Nano Letters, 2022, 22, 1986-1991.	9.1	14
54	One pot microwave assisted synthesis of bisphosphonate alkene capped gold nanoparticles. RSC Advances, 2014, 4, 59315-59322.	3.6	13

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55	Endothelin B receptors targeted by iron oxide nanoparticles functionalized with a specific antibody: toward immunoimaging of brain tumors. Journal of Materials Chemistry B, 2015, 3, 2939-2942.	5.8	13
56	Real-time in situ magnetic measurement of the intracellular biodegradation of iron oxide nanoparticles in a stem cell-spheroid tissue model. Nano Research, 2020, 13, 467-476.	10.4	13
57	Tetrazine Click Chemistry for the Modification of 1â€Hydroxyâ€1,1â€methylenebisphosphonic Acids: Towards Bioâ€orthogonal Functionalization of Gold Nanoparticles. Chemistry - A European Journal, 2016, 22, 16022-16027.	3.3	12
58	Hybrid Au@alendronate nanoparticles as dual chemo-photothermal agent for combined cancer treatment. Beilstein Journal of Nanotechnology, 2018, 9, 2947-2952.	2.8	11
59	USPIOâ€“PEG nanoparticles functionalized with a highly specific collagen-binding peptide: a step towards MRI diagnosis of fibrosis. Journal of Materials Chemistry B, 2020, 8, 5515-5528.	5.8	11
60	Non-linear magnetic behavior around zero field of an assembly of superparamagnetic nanoparticles. Analyst, The, 2012, 137, 2304.	3.5	10
61	Gold, Silver, and Iron Oxide Nanoparticle Incorporation into Silk Hydrogels for Biomedical Applications: Elaboration, Structure, and Properties. ACS Biomaterials Science and Engineering, 2021, 7, 2358-2371.	5.2	10
62	Reversible multi polyelectrolyte layers on gold nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	9
63	Dextrin-Based Nanomagnetogel: In Vivo Biodistribution and Stability. Bioconjugate Chemistry, 2015, 26, 699-706.	3.6	9
64	SiO2 versus chelating agent@ iron oxide nanoparticles: interactions effect in nanoparticles assemblies at low magnetic field. Journal of Sol-Gel Science and Technology, 2015, 73, 572-579.	2.4	7
65	Versatile â€œclickâ€•synthesis of 1-hydroxy-1,1-methylenebisphosphonic acids with thioalkoxy substituents for the preparation of stable gold nanoparticles. New Journal of Chemistry, 2017, 41, 12153-12158.	2.8	7
66	Assessment of the Morphological, Optical, and Photoluminescence Properties of HfO₂ Nanoparticles Synthesized by a Solâ€“Gel Method Assisted by Microwave Irradiation. Inorganic Chemistry, 2022, 61, 6508-6518.	4.0	7
67	In silico studies, synthesis and binding evaluation of substituted 2-pyrrolidinones as peptidomimetics of RGD tripeptide sequence. European Journal of Medicinal Chemistry, 2015, 93, 360-372.	5.5	5
68	Synthesis and activation of an iron oxide immobilized drug-mimicking reporter under conventional and pulsed X-ray irradiation conditions. RSC Advances, 2020, 10, 3366-3370.	3.6	3
69	An innovative nanoprobe for magnetic immunoassay: Individual Î³-Fe2O3 nanoparticles; towards high sensitive and multiparametric detection. Irbm, 2011, 32, 302-305.	5.6	2
70	Photothermal Therapy: Endosomal Confinement of Gold Nanospheres, Nanorods, and Nanoraspberries Governs Their Photothermal Identity and Is Beneficial for Cancer Cell Therapy (Adv. Biosys. 4/2020). Advanced Biology, 2020, 4, 2070042.	3.0	2
71	Ferromagnetism evidence and size dependence in ferroelectric PZN-4.5PT nanoparticles. Europhysics Letters, 2019, 125, 47004.	2.0	1
72	Magnetic Nanocrystals Aligned on Mesoscopic Scale: Collective Properties and Their Use. Israel Journal of Chemistry, 2004, 44, 243-252.	2.3	0

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73	Viologen-Templated Arrays of Cucurbit[7]uril-Modified Iron Oxide Nanoparticles. Chemistry - A European Journal, 2015, 21, 4473-4473.	3.3	0
74	Massive biotransformation of iron oxide nanoparticles within tissular spheroids: a multi-scale quantitative study. Frontiers in Bioengineering and Biotechnology, 0, 4, .	4.1	0