Florence Gazeau

List of Publications by Year
in descending order

182 papers	14,316 citations	20817 60 h-index	20961 115 g-index
190 all docs	190 docs citations	190 times ranked	16553 citing authors

#	Article	IF	Citations
1	Size-Sorted Anionic Iron Oxide Nanomagnets as Colloidal Mediators for Magnetic Hyperthermia. Journal of the American Chemical Society, 2007, 129, 2628-2635.	13.7	938
2	Water-Soluble Iron Oxide Nanocubes with High Values of Specific Absorption Rate for Cancer Cell Hyperthermia Treatment. ACS Nano, 2012, 6, 3080-3091.	14.6	638
3	Intracellular uptake of anionic superparamagnetic nanoparticles as a function of their surface coating. Biomaterials, 2003, 24, 1001-1011.	11.4	621
4	Generation of Superparamagnetic Liposomes Revealed as Highly Efficient MRI Contrast Agents for in Vivo Imaging. Journal of the American Chemical Society, 2005, 127, 10676-10685.	13.7	416
5	Controlled Clustering of Superparamagnetic Nanoparticles Using Block Copolymers: Design of New Contrast Agents for Magnetic Resonance Imaging. Journal of the American Chemical Society, 2006, 128, 1755-1761.	13.7	356
6	In vivo degeneration and the fate of inorganic nanoparticles. Chemical Society Reviews, 2016, 45, 2440-2457.	38.1	355
7	Cooperative Organization in Iron Oxide Multi-Core Nanoparticles Potentiates Their Efficiency as Heating Mediators and MRI Contrast Agents. ACS Nano, 2012, 6, 10935-10949.	14.6	341
8	Magnetic hyperthermia efficiency in the cellular environment forÂdifferent nanoparticle designs. Biomaterials, 2014, 35, 6400-6411.	11.4	341
9	Universal cell labelling with anionic magnetic nanoparticles. Biomaterials, 2008, 29, 3161-3174.	11.4	308
10	Long term in vivo biotransformation of iron oxide nanoparticles. Biomaterials, 2011, 32, 3988-3999.	11.4	303
11	Intracellular heating of living cells through NÃ©el relaxation of magnetic nanoparticles. European Biophysics Journal, 2008, 37, 223-228.	2.2	298
12	Modification of Extracellular Vesicles by Fusion with Liposomes for the Design of Personalized Biogenic Drug Delivery Systems. ACS Nano, 2018, 12, 6830-6842.	14.6	276
13	Interaction of Anionic Superparamagnetic Nanoparticles with Cells:â€‰ Kinetic Analyses of Membrane Adsorption and Subsequent Internalization. Langmuir, 2002, 18, 8148-8155.	3.5	258
14	Magnetic resonance of ferrite nanoparticles:. Journal of Magnetism and Magnetic Materials, 1998, 186, 175-187.	2.3	241
15	Iron Oxide Monocrystalline Nanoflowers for Highly Efficient Magnetic Hyperthermia. Journal of Physical Chemistry C, 2012, 116, 15702-15712.	3.1	240
16	Biodegradation of Iron Oxide Nanocubes: High-Resolution <i>In Situ</i> Monitoring. ACS Nano, 2013, 7, 3939-3952.	14.6	233
17	Optimizing magnetic nanoparticle design for nanothermotherapy. Nanomedicine, 2008, 3, 831-844.	3.3	225
18	Heat-Generating Iron Oxide Nanocubes: Subtle â€œDestructuratorsâ€• of the Tumoral Microenvironment. ACS Nano, 2014, 8, 4268-4283.	14.6	200

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19	Fluorescence-Modified Superparamagnetic Nanoparticles: Intracellular Uptake and Use in Cellular Imaging. Langmuir, 2006, 22, 5385-5391.	3.5	198
20	Magnetophoresis and ferromagnetic resonance of magnetically labeled cells. European Biophysics Journal, 2002, 31, 118-125.	2.2	182
21	The One Year Fate of Iron Oxide Coated Gold Nanoparticles in Mice. ACS Nano, 2015, 9, 7925-7939.	14.6	180
22	Ultra Magnetic Liposomes for MR Imaging, Targeting, and Hyperthermia. Langmuir, 2012, 28, 11834-11842.	3.5	177
23	Degradability of superparamagnetic nanoparticles in a model of intracellular environment: follow-up of magnetic, structural and chemical properties. Nanotechnology, 2010, 21, 395103.	2.6	169
24	Doxorubicin Release Triggered by Alginate Embedded Magnetic Nanoheaters: A Combined Therapy. Advanced Materials, 2011, 23, 787-790.	21.0	169
25	Nanomagnetic Sensing of Blood Plasma Protein Interactions with Iron Oxide Nanoparticles: Impact on Macrophage Uptake. ACS Nano, 2012, 6, 2665-2678.	14.6	154
26	Unexpected intracellular biodegradation and recrystallization of gold nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 103-113.	7.1	147
27	Carbon Nanotube Degradation in Macrophages: Live Nanoscale Monitoring and Understanding of Biological Pathway. ACS Nano, 2015, 9, 10113-10124.	14.6	143
28	Magnetic Targeting of Magnetoliposomes to Solid Tumors with MR Imaging Monitoring in Mice: Feasibility. Radiology, 2006, 239, 415-424.	7.3	135
29	Correlating Magneto-Structural Properties to Hyperthermia Performance of Highly Monodisperse Iron Oxide Nanoparticles Prepared by a Seeded-Growth Route. Chemistry of Materials, 2011, 23, 4170-4180.	6.7	134
30	Unravelling Kinetic and Thermodynamic Effects on the Growth of Gold Nanoplates by Liquid Transmission Electron Microscopy. Nano Letters, 2015, 15, 2574-2581.	9.1	133
31	Magnetically induced hyperthermia: size-dependent heating power of Î³-Fe₂O₃ nanoparticles. Journal of Physics Condensed Matter, 2008, 20, 204133.	1.8	131
32	Cell sorting by endocytotic capacity in a microfluidic magnetophoresis device. Lab on A Chip, 2011, 11, 1902.	6.0	130
33	Tumor stiffening reversion through collagen crosslinking inhibition improves T cell migration and anti-PD-1 treatment. ELife, 2021, 10, .	6.0	127
34	Biotransformations of magnetic nanoparticles in the body. Nano Today, 2016, 11, 280-284.	11.9	124
35	Combining magnetic nanoparticles with cell derived microvesicles for drug loading and targeting. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 645-655.	3.3	118
36	Magnetic and Photoresponsive Theranosomes: Translating Cell-Released Vesicles into Smart Nanovectors for Cancer Therapy. ACS Nano, 2013, 7, 4954-4966.	14.6	105

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37	Mastering the Shape and Composition of Dendronized Iron Oxide Nanoparticles To Tailor Magnetic Resonance Imaging and Hyperthermia. Chemistry of Materials, 2014, 26, 5252-5264.	6.7	105
38	Thermoresponsive Iron Oxide Nanocubes for an Effective Clinical Translation of Magnetic Hyperthermia and Heat-Mediated Chemotherapy. ACS Applied Materials & Interfaces, 2019, 11, 5727-5739.	8.0	104
39	Magnetic resonance of nanoparticles in a ferrofluid: evidence of thermofluctuational effects. Journal of Magnetism and Magnetic Materials, 1999, 202, 535-546.	2.3	98
40	Design of Covalently Functionalized Carbon Nanotubes Filled with Metal Oxide Nanoparticles for Imaging, Therapy, and Magnetic Manipulation. ACS Nano, 2014, 8, 11290-11304.	14.6	96
41	Cell labeling with magnetic nanoparticles: Opportunity for magnetic cell imaging and cell manipulation. Journal of Nanobiotechnology, 2013, 11, S7.	9.1	91
42	Glucose-Receptor MR Imaging of Tumors: Study in Mice with PEGylated Paramagnetic Niosomes. Radiology, 2004, 231, 135-142.	7.3	88
43	In vivo cellular imaging of lymphocyte trafficking by MRI: A tumor model approach to cell-based anticancer therapy. Magnetic Resonance in Medicine, 2006, 56, 498-508.	3.0	88
44	High-Resolution Cellular MRI: Gadolinium and Iron Oxide Nanoparticles for in-Depth Dual-Cell Imaging of Engineered Tissue Constructs. ACS Nano, 2013, 7, 7500-7512.	14.6	88
45	Iron Oxide Nanoparticleâ€“labeled Rat Smooth Muscle Cells: Cardiac MR Imaging for Cell Graft Monitoring and Quantitation. Radiology, 2005, 235, 959-967.	7.3	86
46	Gold-based therapy: From past to present. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22639-22648.	7.1	85
47	Cell-derived vesicles as a bioplatform for the encapsulation of theranostic nanomaterials. Nanoscale, 2013, 5, 11374.	5.6	84
48	Use of Magnetic Forces to Promote Stem Cell Aggregation During Differentiation, and Cartilage Tissue Modeling. Advanced Materials, 2013, 25, 2611-2616.	21.0	84
49	Magnetic control of vascular network formation with magnetically labeled endothelial progenitor cells. Biomaterials, 2007, 28, 3797-3806.	11.4	82
50	Extracellular vesicles for personalized medicine: The input of physically triggered production, loading and theranostic properties. Advanced Drug Delivery Reviews, 2019, 138, 247-258.	13.7	82
51	Whither Magnetic Hyperthermia? A Tentative Roadmap. Materials, 2021, 14, 706.	2.9	76
52	Quasi-elastic neutron scattering on Î³-Fe 2 O 3 nanoparticles. Europhysics Letters, 1997, 40, 575-580.	2.0	74
53	Managing Magnetic Nanoparticle Aggregation and Cellular Uptake: a Precondition for Efficient Stemâ€Cell Differentiation and MRI Tracking. Advanced Healthcare Materials, 2013, 2, 313-325.	7.6	73
54	Maghemite-nanoMIL-100(Fe) Bimodal Nanovector as a Platform for Image-Guided Therapy. CheM, 2017, 3, 303-322.	11.7	72

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55	Energy conversion in ferrofluids:â€ƒMagnetic nanoparticles as motors or generators. Physical Review E, 1997, 56, 614-618.	2.1	71
56	Ferritin Protein Regulates the Degradation of Iron Oxide Nanoparticles. Small, 2017, 13, 1602030.	10.0	69
57	Ferromagnetic resonance in ferrite nanoparticles with uniaxial surface anisotropy. Journal of Applied Physics, 1999, 85, 6642-6647.	2.5	66
58	Tumour Cell Toxicity of Intracellular Hyperthermia Mediated by Magnetic Nanoparticles. Journal of Nanoscience and Nanotechnology, 2007, 7, 2933-2937.	0.9	66
59	Tumor Stiffening, a Key Determinant of Tumor Progression, is Reversed by Nanomaterial-Induced Photothermal Therapy. Theranostics, 2017, 7, 329-343.	10.0	66
60	Synergic mechanisms of photothermal and photodynamic therapies mediated by photosensitizer/carbon nanotube complexes. Carbon, 2016, 97, 110-123.	10.3	65
61	Nanoparticle-based hyperthermia, a local treatment modulating the tumor extracellular matrix. Pharmacological Research, 2017, 126, 123-137.	7.1	63
62	Technological advances towards extracellular vesicles mass production. Advanced Drug Delivery Reviews, 2021, 176, 113843.	13.7	63
63	Antiâ€Estrogenâ€Loaded Superparamagnetic Liposomes for Intracellular Magnetic Targeting and Treatment of Breast Cancer Tumors. Advanced Functional Materials, 2011, 21, 83-92.	14.9	61
64	Thermoresponsive Gel Embedded with Adipose Stem-Cell-Derived Extracellular Vesicles Promotes Esophageal Fistula Healing in a Thermo-Actuated Delivery Strategy. ACS Nano, 2018, 12, 9800-9814.	14.6	60
65	How cellular processing of superparamagnetic nanoparticles affects their magnetic behavior and NMR relaxivity. Contrast Media and Molecular Imaging, 2012, 7, 373-383.	0.8	59
66	Zinc substituted ferrite nanoparticles with Zn0.9Fe2.1O4 formula used as heating agents for in vitro hyperthermia assay on glioma cells. Journal of Magnetism and Magnetic Materials, 2016, 416, 315-320.	2.3	59
67	Nanomagnetism reveals the intracellular clustering of iron oxide nanoparticles in the organism. Nanoscale, 2011, 3, 4402.	5.6	57
68	Endowing carbon nanotubes with superparamagnetic properties: applications for cell labeling, MRI cell tracking and magnetic manipulations. Nanoscale, 2013, 5, 4412.	5.6	57
69	Intracellular Trafficking of Magnetic Nanoparticles to Design Multifunctional Biovesicles. Small, 2008, 4, 577-582.	10.0	56
70	Colloidal Ordered Assemblies in a Polymer Shellâ€"A Novel Type of Magnetic Nanobeads for Theranostic Applications. Chemistry of Materials, 2013, 25, 1055-1062.	6.7	56
71	Formation of a Three-Dimensional Multicellular Assembly Using Magnetic Patterning. Langmuir, 2009, 25, 2348-2354.	3.5	55
72	Photothermal Depletion of Cancer-Associated Fibroblasts Normalizes Tumor Stiffness in Desmoplastic Cholangiocarcinoma. ACS Nano, 2020, 14, 5738-5753.	14.6	54

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73	Deformation of intracellular endosomes under a magnetic field. European Biophysics Journal, 2003, 32, 655-660.	2.2	52
74	In vivo single cell detection of tumorâ€infiltrating lymphocytes with a clinical 1.5 Tesla MRI system. Magnetic Resonance in Medicine, 2008, 60, 1292-1297.	3.0	52
75	The role of cell-released microvesicles in the intercellular transfer of magnetic nanoparticles in the monocyte/macrophage system. Biomaterials, 2010, 31, 7061-7069.	11.4	52
76	mTHPC-loaded extracellular vesicles outperform liposomal and free mTHPC formulations by an increased stability, drug delivery efficiency and cytotoxic effect in tridimensional model of tumors. Drug Delivery, 2018, 25, 1790-1801.	5.7	52
77	Reactivity of the monocyte/macrophage system to superparamagnetic anionic nanoparticles. Journal of Materials Chemistry, 2009, 19, 6373.	6.7	51
78	Magnetic micro-manipulations to probe the local physical properties of porous scaffolds and to confine stem cells. Biomaterials, 2010, 31, 1586-1595.	11.4	51
79	Magnetic Targeting of Nanometric Magnetic Fluidâ€"loaded Liposomes to Specific Brain Intravascular Areas: A Dynamic Imaging Study in Mice. Radiology, 2007, 244, 439-448.	7.3	50
80	Design, Properties, and In Vivo Behavior of SuperÂparamagnetic Persistent Luminescence Nanohybrids. Small, 2015, 11, 2696-2704.	10.0	49
81	Immune Reprogramming Precision Photodynamic Therapy of Peritoneal Metastasis by Scalable Stem-Cell-Derived Extracellular Vesicles. ACS Nano, 2021, 15, 3251-3263.	14.6	47
82	Static and quasi-elastic small angle neutron scattering on biocompatible ionic ferrofluids: magnetic and hydrodynamic interactions. Journal of Physics Condensed Matter, 2003, 15, S1305-S1334.	1.8	44
83	T-Cell Homing to the Pancreas in Autoimmune Mouse Models of Diabetes: In Vivo MR Imaging. Radiology, 2005, 236, 579-587.	7.3	44
84	Single-cell detection by gradient echo 9.4 T MRI: a parametric study. Contrast Media and Molecular Imaging, 2006, 1, 165-174.	0.8	44
85	Biodegradation Mechanisms of Iron Oxide Monocrystalline Nanoflowers and Tunable Shield Effect of Gold Coating. Small, 2014, 10, 3325-3337.	10.0	43
86	Modeling magnetic nanoparticle dipole-dipole interactions inside living cells. Physical Review B, 2011, 84, .	3.2	42
87	Development of extracellular vesicle-based medicinal products: A position paper of the group â€œExtracellular Vesicle translatiOn to clinicaL perspectiVEs â€" EVOLVE Franceâ€. Advanced Drug Delivery Reviews, 2021, 179, 114001.	13.7	42
88	Can Magnetic Targeting of Magnetically Labeled Circulating Cells Optimize Intramyocardial Cell Retention?. Cell Transplantation, 2012, 21, 679-691.	2.5	41
89	Cellular Transfer of Magnetic Nanoparticles Via Cell Microvesicles: Impact on Cell Tracking by Magnetic Resonance Imaging. Pharmaceutical Research, 2012, 29, 1392-1403.	3.5	41
90	In vivo cellular imaging of magnetically labeled hybridomas in the spleen with a 1.5-T clinical MRI system. Magnetic Resonance in Medicine, 2004, 52, 73-79.	3.0	40

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91	Intercellular Carbon Nanotube Translocation Assessed by Flow Cytometry Imaging. Nano Letters, 2012, 12, 4830-4837.	9.1	39
92	High-Resolution 1.5-Tesla Magnetic Resonance Imaging for Tissue-Engineered Constructs: A Noninvasive Tool to Assess Three-Dimensional Scaffold Architecture and Cell Seeding. Tissue Engineering - Part C: Methods, 2010, 16, 185-200.	2.1	38
93	Endothelial Cellâ€“derived Microparticles Loaded with Iron Oxide Nanoparticles: Feasibility of MR Imaging Monitoring in Mice. Radiology, 2012, 263, 169-178.	7.3	38
94	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
95	Physical oncology: New targets for nanomedicine. Biomaterials, 2018, 150, 87-99.	11.4	36
96	Engineering and loading therapeutic extracellular vesicles for clinical translation: A data reporting frame for comparability. Advanced Drug Delivery Reviews, 2021, 178, 113972.	13.7	36
97	Magnetophoresis at the nanoscale: tracking the magnetic targeting efficiency of nanovectors. Nanomedicine, 2012, 7, 1713-1727.	3.3	35
98	Selfâ€Assemblies of Fe₃O₄ Nanocrystals: Toward Nanoscale Precision of Photothermal Effects in the Tumor Microenvironment. Advanced Functional Materials, 2021, 31, 2006824.	14.9	35
99	Considerations for the clinical use of contrast agents for cellular MRI in regenerative medicine. Contrast Media and Molecular Imaging, 2013, 8, 439-455.	0.8	34
100	Successful chondrogenesis within scaffolds, using magnetic stem cell confinement and bioreactor maturation. Acta Biomaterialia, 2016, 37, 101-110.	8.3	34
101	Polyethyleneimine-assisted one-pot synthesis of quasi-fractal plasmonic gold nanocomposites as a photothermal theranostic agent. Nanoscale, 2019, 11, 3344-3359.	5.6	34
102	Plasmodium falciparum sexual parasites develop in human erythroblasts and affect erythropoiesis. Blood, 2020, 136, 1381-1393.	1.4	34
103	Magnetic Targeting of Rhodamine-Labeled Superparamagnetic Liposomes to Solid Tumors: In Vivo Tracking by Fibered Confocal Fluorescence Microscopy. Molecular Imaging, 2007, 6, 7290.2007.00004.	1.4	33
104	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
105	Magnetic labeling, imaging and manipulation of endothelial progenitor cells using iron oxide nanoparticles. Future Medicinal Chemistry, 2010, 2, 397-408.	2.3	31
106	Covalent Functionalization of Multiâ€walled Carbon Nanotubes with a Gadolinium Chelate for Efficient <i>T</i>₁â€Weighted Magnetic Resonance Imaging. Advanced Functional Materials, 2014, 24, 7173-7186.	14.9	31
107	Magnetic nanoparticles: Internal probes and heaters within living cells. Journal of Magnetism and Magnetic Materials, 2009, 321, 671-674.	2.3	28
108	Magnetic targeting of iron-oxide-labeled fluorescent hepatoma cells to the liver. European Radiology, 2009, 19, 1087-1096.	4.5	28

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109	Design of Biomimetic Vascular Grafts with Magnetic Endothelial Patterning. Cell Transplantation, 2013, 22, 2105-2118.	2.5	28
110	Extracellular Vesicle Production Loaded with Nanoparticles and Drugs in a Tradeâ€off between Loading, Yield and Purity: Towards a Personalized Drug Delivery System. Advanced Biology, 2017, 1, e1700044.	3.0	28
111	Monitoring the dynamics of cell-derived extracellular vesicles at the nanoscale by liquid-cell transmission electron microscopy. Nanoscale, 2018, 10, 1234-1244.	5.6	28
112	Tumor-Selective Immune-Active Mild Hyperthermia Associated with Chemotherapy in Colon Peritoneal Metastasis by Photoactivation of Fluorouracilâ€“Gold Nanoparticle Complexes. ACS Nano, 2021, 15, 3330-3348.	14.6	28
113	Magnetic susceptibility in a rotating ferrofluid: Magneto-vortical resonance. Europhysics Letters, 1996, 35, 609-614.	2.0	27
114	Realâ€time highâ€resolution magnetic resonance tracking of macrophage subpopulations in a murine inflammation model: a pilot study with a commercially available cryogenic probe. Contrast Media and Molecular Imaging, 2013, 8, 193-203.	0.8	27
115	Raman reporters derived from aryl diazonium salts for SERS encoded-nanoparticles. Chemical Communications, 2020, 56, 6822-6825.	4.1	27
116	Evaluation of tumoral enhancement by superparamagnetic iron oxide particles: comparative studies with ferumoxtran and anionic iron oxide nanoparticles. European Radiology, 2005, 15, 1369-1377.	4.5	26
117	Adipose Tissue Macrophages: MR Tracking to Monitor Obesity-associated Inflammation. Radiology, 2012, 263, 786-793.	7.3	26
118	Local administration of stem cell-derived extracellular vesicles in a thermoresponsive hydrogel promotes a pro-healing effect in a rat model of colo-cutaneous post-surgical fistula. Nanoscale, 2021, 13, 218-232.	5.6	25
119	Phenotypic Study of Human Gingival Fibroblasts Labeled With Superparamagnetic Anionic Nanoparticles. Journal of Periodontology, 2006, 77, 238-247.	3.4	24
120	Physiological Remediation of Cobalt Ferrite Nanoparticles by Ferritin. Scientific Reports, 2017, 7, 40075.	3.3	24
121	Thermosensitivity profile of malignant glioma U87-MG cells and human endothelial cells following Î³-Fe₂O₃NPs internalization and magnetic field application. RSC Advances, 2016, 6, 15415-15423.	3.6	23
122	Degradation of ZnGa₂O₄:Cr³⁺ luminescent nanoparticles in lysosomal-like medium. Nanoscale, 2020, 12, 1967-1974.	5.6	23
123	Designing 3D Mesenchymal Stem Cell Sheets Merging Magnetic and Fluorescent Features: When Cell Sheet Technology Meets Image-Guided Cell Therapy. Theranostics, 2016, 6, 739-751.	10.0	22
124	Signaling through the phosphatidylinositol 3-kinase regulates mechanotaxis induced by local low magnetic forces in Entamoeba histolytica. Journal of Biomechanics, 2007, 40, 64-77.	2.1	21
125	Aortic Aneurysms in a Rat Model: In Vivo MR Imaging of Endovascular Cell Therapy. Radiology, 2008, 246, 185-192.	7.3	21
126	Revisiting MRI Contrast Properties of Nanoparticles: Beyond the Superparamagnetic Regime. Journal of Physical Chemistry C, 2013, 117, 15369-15374.	3.1	21

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127	Intracellular degradation of functionalized carbon nanotube/iron oxide hybrids is modulated by iron via Nrf2 pathway. Scientific Reports, 2017, 7, 40997.	3.3	20
128	Surface functionalization of nanomaterials by aryl diazonium salts for biomedical sciences. Advances in Colloid and Interface Science, 2021, 294, 102479.	14.7	20
129	The MRI assessment of intraurethrally â€“ delivered muscle precursor cells using anionic magnetic nanoparticles. Biomaterials, 2009, 30, 6920-6928.	11.4	18
130	Magnetic tagging of cell-derived microparticles: new prospects for imaging and manipulation of these mediators of biological information. Nanomedicine, 2010, 5, 727-738.	3.3	18
131	Different localizations of hydrophobic magnetic nanoparticles within vesicles trigger their efficiency as magnetic nano-heaters. Soft Matter, 2011, 7, 6248.	2.7	18
132	Intracellular Fate of Hydrophobic Nanocrystal Selfâ€Assemblies in Tumor Cells. Advanced Functional Materials, 2020, 30, 2004274.	14.9	18
133	Effect of stroma on the behavior of temoporfin-loaded lipid nanovesicles inside the stroma-rich head and neck carcinoma spheroids. Journal of Nanobiotechnology, 2021, 19, 3.	9.1	18
134	Nanomedicine metaphors: From war to care. Emergence of an oecological approach. Nano Today, 2013, 8, 560-565.	11.9	17
135	Magnetically shaped cell aggregates: from granular to contractile materials. Soft Matter, 2014, 10, 5045.	2.7	17
136	Biodegraded magnetosomes with reduced size and heating power maintain a persistent activity against intracranial U87-Luc mouse GBM tumors. Journal of Nanobiotechnology, 2019, 17, 126.	9.1	17
137	mTHPC-Loaded Extracellular Vesicles Significantly Improve mTHPC Diffusion and Photodynamic Activity in Preclinical Models. Pharmaceutics, 2020, 12, 676.	4.5	17
138	Transferrin-bearing maghemite nano-constructs for biomedical applications. Journal of Applied Physics, 2015, 117, 17A336.	2.5	16
139	In vivo imaging of transplanted hepatocytes with a 1.5-T clinical MRI systemâ€"initial experience in mice. European Radiology, 2008, 18, 59-69.	4.5	15
140	Nanoprobe Synthesized by Magnetotactic Bacteria, Detecting Fluorescence Variations under Dissociation of Rhodamine B from Magnetosomes following Temperature, pH Changes, or the Application of Radiation. ACS Applied Materials & Interfaces, 2017, 9, 36561-36572.	8.0	15
141	Tailored ultra-small Prussian blue-based nanoparticles for MRI imaging and combined photothermal/photoacoustic theranostics. Chemical Communications, 2019, 55, 14844-14847.	4.1	15
142	Multifunctional nanovectors based on magnetic nanoparticles coupled with biological vesicles or synthetic liposomes. Journal of Materials Chemistry, 2011, 21, 14387.	6.7	14
143	Hollow Iron Oxide Nanoparticles in Polymer Nanobeads as MRI Contrast Agents. Journal of Physical Chemistry C, 2015, 119, 6246-6253.	3.1	14
144	Surface decoration of catanionic vesicles with superparamagnetic iron oxide nanoparticles: a model system for triggered release under moderate temperature conditions. Physical Chemistry Chemical Physics, 2014, 16, 4077.	2.8	13

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145	Thinking Quantitatively of RNA-Based Information Transfer via Extracellular Vesicles: Lessons to Learn for the Design of RNA-Loaded EVs. Pharmaceutics, 2021, 13, 1931.	4.5	12
146	Nanoscale Brownian heating by interacting magnetic dipolar particles. Scientific Reports, 2017, 7, 1656.	3.3	11
147	Theranostic Iron Oxide Nanoparticle Cargo Defines Extracellular Vesicleâ€Dependent Modulation of Macrophage Activation and Migratory Behavior. Advanced Biology, 2018, 2, 1800079.	3.0	11
148	Two step promotion of a hot tumor immune environment by gold decorated iron oxide nanoflowers and light-triggered mild hyperthermia. Nanoscale, 2021, 13, 18483-18497.	5.6	11
149	Rational Design of Fractal Gold Nanosphere Assemblies with Optimized Photothermal Conversion Using a Quantitative Structure Property Relationship (QSPR) Approach. Journal of Physical Chemistry C, 2020, 124, 8938-8948.	3.1	10
150	Extracellular vesicles from adipose stromal cells combined with a thermoresponsive hydrogel prevent esophageal stricture after extensive endoscopic submucosal dissection in a porcine model. Nanoscale, 2021, 13, 14866-14878.	5.6	10
151	Localization and Relative Quantification of Carbon Nanotubes in Cells with Multispectral Imaging Flow Cytometry. Journal of Visualized Experiments, 2013, , e50566.	0.3	9
152	Extracellular Vesicles in Transplantation. Frontiers in Immunology, 2022, 13, 800018.	4.8	9
153	Magnetic targeting of rhodamine-labeled superparamagnetic liposomes to solid tumors: in vivo tracking by fibered confocal fluorescence microscopy. Molecular Imaging, 2007, 6, 140-6.	1.4	9
154	Imaging and Therapeutic Potential of Extracellular Vesicles. , 2017, , 43-68.		8
155	Disturbance of adhesomes by gold nanoparticles reveals a size- and cell type-bias. Biomaterials Science, 2019, 7, 389-408.	5.4	8
156	Endocytosis-driven gold nanoparticle fractal rearrangement in cells and its influence on photothermal conversion. Nanoscale, 2020, 12, 21832-21849.	5.6	8
157	Overcoming the tumor microenvironment: the role of nanohyperthermia. Nanomedicine, 2017, 12, 1213-1215.	3.3	7
158	Hybrid nanoâ€•and microgels doped with photoacoustic contrast agents for cancer theranostics. View, 2021, 2, 20200176.	5.3	7
159	INFLAM â€" INFLAMmation in Brain and Vessels with Iron Nanoparticles and Cell Trafficking: A Multiscale Approach of Tissue Microenvironment, Iron Nanostructure and Iron Biotransformation. Irbm, 2018, 39, 93-102.	5.6	5
160	Regenerative medicine for digestive fistulae therapy: Benefits, challenges and promises of stem/stromal cells and emergent perspectives via their extracellular vesicles. Advanced Drug Delivery Reviews, 2021, 179, 113841.	13.7	5
161	Potential of onâ€chip analysis and engineering techniques for extracellular vesicle bioproduction for therapeutics. View, 2022, 3, .	5.3	5
162	Recent advances in nonâ€plasmonic surfaceâ€enhanced Raman spectroscopy nanostructures for biomedical applications. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1795.	6.1	5

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163	Basic Principles of In Vivo Distribution, Toxicity, and Degradation of Prospective Inorganic Nanoparticles for Imaging. , 2017, , 9-41.		4
164	SERS tags derived from silver nanoparticles and aryl diazonium salts for cell Raman imaging. Nanoscale, 2022, 14, 1452-1458.	5.6	4
165	Enhancing digestive fistula healing by the off-label use of a thermoresponsive vessel occluder polymer associated with esophageal stent placement: A case report. Clinics and Research in Hepatology and Gastroenterology, 2021, 45, 101474.	1.5	3
166	De la cellule au tissu : le magnÃ©tisme auxiliaire de la biomÃ©decine. , 2011, , 6-10.	0.1	3
167	Magnetic fluid under vorticity: Free precession decay of magnetization and optical anisotropy. Physical Review E, 1996, 54, 3672-3675.	2.1	2
168	Managing Magnetic Nanoparticle Aggregation and Cellular Uptake: a Precondition for Efficient Stem-Cell Differentiation and MRI Tracking (Adv. Healthcare Mater. 2/2013). Advanced Healthcare Materials, 2013, 2, 312-312.	7.6	2
169	3D Magnetic Alignment of Cardiac Cells in Hydrogels. ACS Applied Bio Materials, 2020, 3, 6802-6810.	4.6	2
170	Technological and translational challenges for extracellular vesicle in therapy and diagnosis. Advanced Drug Delivery Reviews, 2021, 179, 114026.	13.7	2
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