Olivier Sandre

List of Publications by Year
in descending order

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103 papers	8,006 citations	57631 44 h-index	48187 88 g-index

111 all docs	111 docs citations	111 times ranked	10121 citing authors

#	Article	IF	Citations
1	Fundamentals and advances in magnetic hyperthermia. Applied Physics Reviews, 2015, 2, 041302.	5.5	615
2	Magnetic responsive polymer composite materials. Chemical Society Reviews, 2013, 42, 7099.	18.7	499
3	Doxorubicin Loaded Magnetic Polymersomes: Theranostic Nanocarriers for MR Imaging and Magneto-Chemotherapy. ACS Nano, 2011, 5, 1122-1140.	7.3	441
4	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.	6.6	356
5	Cascades of Transient Pores in Giant Vesicles: Line Tension and Transport. Biophysical Journal, 2003, 84, 1734-1749.	0.2	349
6	Dynamics of transient pores in stretched vesicles. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 10591-10596.	3.3	336
7	Membrane imaging by second-harmonic generation microscopy. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 1685.	0.9	311
8	Magnetic field triggered drug release from polymersomes for cancer therapeutics. Journal of Controlled Release, 2013, 169, 165-170.	4.8	267
9	Coherent Scattering in Multi-Harmonic Light Microscopy. Biophysical Journal, 2001, 80, 1568-1574.	0.2	232
10	Microfluidics in Inorganic Chemistry. Angewandte Chemie - International Edition, 2010, 49, 6268-6286.	7.2	212
11	Membrane imaging by simultaneous second-harmonic generation and two-photon microscopy. Optics Letters, 2000, 25, 320.	1.7	210
12	Recent trends in the tuning of polymersomesâ€™ membrane properties. European Physical Journal E, 2011, 34, 14.	0.7	195
13	Hybrid polymer/lipid vesicles: state of the art and future perspectives. Materials Today, 2013, 16, 397-402.	8.3	187
14	Transient pores in stretched vesicles: role of leak-out. Physica A: Statistical Mechanics and Its Applications, 2000, 278, 32-51.	1.2	182
15	A Universal Scaling Law to Predict the Efficiency of Magnetic Nanoparticles as MRI T2â€Contrast Agents. Advanced Healthcare Materials, 2012, 1, 502-512.	3.9	174
16	Magnetic Nanocomposite Micelles and Vesicles. Advanced Materials, 2005, 17, 712-718.	11.1	170
17	Synthesis of iron oxide nanoparticles in a microfluidic device: preliminary results in a coaxial flow millichannel. Chemical Communications, 2008, , 1783.	2.2	124
18	Hybrid polymer/lipid vesicles: fine control of the lipid and polymer distribution in the binary membrane. Soft Matter, 2012, 8, 2867.	1.2	115

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19	Multicolor Emission of Small Molecule-Based Amorphous Thin Films and Nanoparticles with a Single Excitation Wavelength. Chemistry of Materials, 2008, 20, 6597-6599.	3.2	104
20	Electrostatic Coâ€Assembly of Iron Oxide Nanoparticles and Polymers: Towards the Generation of Highly Persistent Superparamagnetic Nanorods. Advanced Materials, 2008, 20, 3877-3881.	11.1	97
21	Polymersome Shape Transformation at the Nanoscale. ACS Nano, 2013, 7, 9298-9311.	7.3	96
22	Antibodyâ€Functionalized Magnetic Polymersomes: In vivo Targeting and Imaging of Bone Metastases using High Resolution MRI. Advanced Healthcare Materials, 2013, 2, 1420-1424.	3.9	84
23	Drug releasing nanoplatforms activated by alternating magnetic fields. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1617-1641.	1.1	84
24	Moving droplets on asymmetrically structured surfaces. Physical Review E, 1999, 60, 2964-2972.	0.8	83
25	Tuning Sizes, Morphologies, and Magnetic Properties of Monocore Versus Multicore Iron Oxide Nanoparticles through the Controlled Addition of Water in the Polyol Synthesis. Inorganic Chemistry, 2017, 56, 8232-8243.	1.9	83
26	A wide-frequency range AC magnetometer to measure the specific absorption rate in nanoparticles for magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2014, 368, 432-437.	1.0	81
27	Specific absorption rate dependence on temperature in magnetic field hyperthermia measured by dynamic hysteresis losses (ac magnetometry). Nanotechnology, 2015, 26, 015704.	1.3	80
28	Interactions between sub-10-nm iron and cerium oxide nanoparticles and 3T3 fibroblasts: the role of the coating and aggregation state. Nanotechnology, 2010, 21, 145103.	1.3	75
29	Mixing Block Copolymers with Phospholipids at the Nanoscale: From Hybrid Polymer/Lipid Wormlike Micelles to Vesicles Presenting Lipid Nanodomains. Langmuir, 2017, 33, 1705-1715.	1.6	75
30	Preparation and swelling of hydrophilic magnetic microgels. Polymer, 2004, 45, 2475-2481.	1.8	74
31	Controllable Microfluidic Production of Drug-Loaded PLGA Nanoparticles Using Partially Water-Miscible Mixed Solvent Microdroplets as a Precursor. Scientific Reports, 2017, 7, 4794.	1.6	74
32	Size Distribution of Superparamagnetic Particles Determined by Magnetic Sedimentation. Langmuir, 2007, 23, 2993-2999.	1.6	72
33	Polymersome Popping by Lightâ€Induced Osmotic Shock under Temporal, Spatial, and Spectral Control. Angewandte Chemie - International Edition, 2017, 56, 1566-1570.	7.2	71
34	Phase Separation and Nanodomain Formation in Hybrid Polymer/Lipid Vesicles. ACS Macro Letters, 2015, 4, 182-186.	2.3	69
35	Polymersomes in â€œGellyâ€•Polymersomes: Toward Structural Cell Mimicry. Langmuir, 2012, 28, 2035-2043.	1.6	68
36	Phase Behavior of Nanoparticles in a Thermotropic Liquid Crystal. Journal of Physical Chemistry B, 2005, 109, 14292-14299.	1.2	66

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37	Stable oxide nanoparticle clusters obtained by complexation. Journal of Colloid and Interface Science, 2006, 303, 315-318.	5.0	59
38	Assembly of microscopic highly magnetic droplets:â€ƒMagnetic alignment versus viscous drag. Physical Review E, 1999, 59, 1736-1746.	0.8	57
39	Modulation of phase separation at the micron scale and nanoscale in giant polymer/lipid hybrid unilamellar vesicles (GHUVs). Soft Matter, 2017, 13, 627-637.	1.2	57
40	Hybrid iron oxide-copolymer micelles and vesicles as contrast agents for MRI: impact of the nanostructure on the relaxometric properties. Journal of Materials Chemistry B, 2013, 1, 5317.	2.9	56
41	Monocorevs.multicore magnetic iron oxide nanoparticles: uptake by glioblastoma cells and efficiency for magnetic hyperthermia. Molecular Systems Design and Engineering, 2017, 2, 629-639.	1.7	54
42	Synthesis of Goethite by Separation of the Nucleation and Growth Processes of Ferrihydrite Nanoparticles Using Microfluidics. Angewandte Chemie - International Edition, 2009, 48, 2342-2345.	7.2	53
43	Transient pores in vesicles. Polymer International, 2003, 52, 486-493.	1.6	50
44	Nano-thermometers with thermo-sensitive polymer grafted USPIOs behaving as positive contrast agents in low-field MRI. Nanoscale, 2015, 7, 3754-3767.	2.8	47
45	Effect of Formulation and Processing Parameters on the Size of mPEG-b-p(HPMA-Bz) Polymeric Micelles. Langmuir, 2018, 34, 15495-15506.	1.6	45
46	Smart hybrid magnetic self-assembled micelles and hollow capsules. Progress in Solid State Chemistry, 2006, 34, 171-179.	3.9	44
47	Dynamics of paramagnetic nanostructured rods under rotating field. Journal of Magnetism and Magnetic Materials, 2011, 323, 1309-1313.	1.0	44
48	Designing magnetic composite materials using aqueous magnetic fluids. Journal of Physics Condensed Matter, 2003, 15, S1379-S1402.	0.7	40
49	Thermo-responsive self-immolative nanoassemblies: direct and indirect triggering. Chemical Communications, 2017, 53, 12068-12071.	2.2	40
50	Sensitive High Frequency AC Susceptometry in Magnetic Nanoparticle Applications. AIP Conference Proceedings, 2010, , .	0.3	39
51	Homogeneous Dispersion of Magnetic Nanoparticles Aggregates in a PS Nanocomposite: Highly Reproducible Hierarchical Structure Tuned by the Nanoparticlesâ€™ Size. Macromolecules, 2010, 43, 5785-5796.	2.2	39
52	Shape transitions of giant liposomes induced by an anisotropic spontaneous curvature. Physical Review E, 2000, 62, 3865-3870.	0.8	35
53	Fluorescence Confocal Laser Scanning Microscopy for pH Mapping in a Coaxial Flow Microreactor: Application in the Synthesis of Superparamagnetic Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 18097-18105.	1.5	35
54	Structural Evolution of a Stimulus-Responsive Diblock Polypeptide Micelle by Temperature Tunable Compaction of its Core. Macromolecules, 2015, 48, 6617-6627.	2.2	33

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55	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
56	Challenges and recommendations for magnetic hyperthermia characterization measurements. International Journal of Hyperthermia, 2021, 38, 447-460.	1.1	33
57	Self-assemblies of magnetic nanoparticles and di-block copolymers: Magnetic micelles and vesicles. Journal of Magnetism and Magnetic Materials, 2006, 300, 71-74.	1.0	31
58	Harmonic phases of the nanoparticle magnetization: An intrinsic temperature probe. Applied Physics Letters, 2015, 107, .	1.5	30
59	Universal scattering behavior of coassembled nanoparticle-polymer clusters. Physical Review E, 2008, 78, 040401.	0.8	29
60	Magnetic tubules. Materials Science and Engineering C, 1997, 5, 153-162.	3.8	28
61	Kinetics of Aggregation and Magnetic Separation of Multicore Iron Oxide Nanoparticles: Effect of the Grafted Layer Thickness. Nanomaterials, 2018, 8, 623.	1.9	28
62	Aqueous ROPISA of Î±-amino acid N-carboxyanhydrides: polypeptide block secondary structure controls nanoparticle shape anisotropy. Polymer Chemistry, 2021, 12, 6242-6251.	1.9	27
63	Permeation through Lipid Bilayers by Adhesion of Giant Vesicles on Decorated Surfaces. Langmuir, 2000, 16, 6801-6808.	1.6	26
64	Electrostatic Coâ€assembly of Magnetic Nanoparticles and Fluorescent Nanospheres: A Versatile Approach Towards Bimodal Nanorods. Small, 2009, 5, 2533-2536.	5.2	25
65	Thermosensitive polymer-grafted iron oxide nanoparticles studied byin situdynamic light backscattering under magnetic hyperthermia. Journal Physics D: Applied Physics, 2015, 48, 494001.	1.3	23
66	Depletion induced vesicle-to-micelle transition from self-assembled rodâ€“coil diblock copolymers with spherical magnetic nanoparticles. Soft Matter, 2011, 7, 9744.	1.2	22
67	Droplet Microfluidics to Prepare Magnetic Polymer Vesicles and to Confine the Heat in Magnetic Hyperthermia. IEEE Transactions on Magnetics, 2013, 49, 182-190.	1.2	22
68	Templated Synthesis of Magnetic Nanoparticles through the Self-Assembly of Polymers and Surfactants. Nanomaterials, 2014, 4, 628-685.	1.9	22
69	Local structure of polymeric ferrogels. Journal of Magnetism and Magnetic Materials, 2011, 323, 1211-1215.	1.0	21
70	Biocompatible Polyion Complex Micelles Synthesized from Arborescent Polymers. Langmuir, 2016, 32, 13482-13492.	1.6	21
71	Mn²⁺ Complexes with Pyclen-Based Derivatives as Contrast Agents for Magnetic Resonance Imaging: Synthesis and Relaxometry Characterization. Inorganic Chemistry, 2021, 60, 3604-3619.	1.9	19
72	Design of a fluorinated magneto-responsive material with tuneable ultrasound scattering properties. Journal of Materials Chemistry B, 2014, 2, 1285.	2.9	18

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73	Polymersome Popping by Lightâ€Induced Osmotic Shock under Temporal, Spatial, and Spectral Control. Angewandte Chemie, 2017, 129, 1588-1592.	1.6	18
74	Colloidal Stability of Aqueous Suspensions of Polymer-Coated Iron Oxide Nanorods: Implications for Biomedical Applications. ACS Applied Nano Materials, 2018, 1, 6760-6772.	2.4	18
75	Tuning Mie Scattering Resonances in Soft Materials with Magnetic Fields. Physical Review Letters, 2013, 111, 264301.	2.9	16
76	In Vivo Imaging of Local Gene Expression Induced by Magnetic Hyperthermia. Genes, 2017, 8, 61.	1.0	15
77	Effects of Chain Length of Chitosan Oligosaccharides on Solution Properties and Complexation with siRNA. Polymers, 2019, 11, 1236.	2.0	15
78	Embedding of superparamagnetic iron oxide nanoparticles into membranes of well-defined poly(ethylene oxide)-block-poly(Îµ-caprolactone) nanoscale magnetovesicles as ultrasensitive MRI probes of membrane bio-degradation. Journal of Materials Chemistry B, 2019, 7, 4692-4705.	2.9	15
79	Tuning Size and Morphology of mPEG-b-p(HPMA-Bz) Copolymer Self-Assemblies Using Microfluidics. Polymers, 2020, 12, 2572.	2.0	15
80	Incorporation of magnetic nanoparticles into lamellar polystyrene-b-poly(n-butyl methacrylate) diblock copolymer films: Influence of the chain end-groups on nanostructuration. Polymer, 2010, 51, 4673-4685.	1.8	13
81	Stabilization and controlled association of superparamagnetic nanoparticles using block copolymers. Journal of Magnetism and Magnetic Materials, 2009, 321, 667-670.	1.0	12
82	Static and dynamic structural probing of swollen polyacrylamide ferrogels. Soft Matter, 2009, , .	1.2	12
83	Self-assembled coreâ€“shell micelles from peptide-b-polymer molecular chimeras towards structureâ€“activity relationships. Faraday Discussions, 2013, 166, 83.	1.6	11
84	Magnetic Polyion Complex Micelles for Cell Toxicity Induced by Radiofrequency Magnetic Field Hyperthermia. Nanomaterials, 2018, 8, 1014.	1.9	11
85	In vitro exploration of the synergistic effect of alternating magnetic field mediated thermoâ€“chemotherapy with doxorubicin loaded dual pH- and thermo-responsive magnetic nanocomposite carriers. Journal of Materials Chemistry B, 2020, 8, 10527-10539.	2.9	11
86	Reorientation kinetics of superparamagnetic nanostructured rods. Journal of Physics Condensed Matter, 2008, 20, 494216.	0.7	9
87	Auto-degradable and biocompatible superparamagnetic iron oxide nanoparticles/polypeptides colloidal polyion complexes with high density of magnetic material. Materials Science and Engineering C, 2019, 104, 109920.	3.8	8
88	Adhesion of soft objects on wet substrates. Journal of Physics Condensed Matter, 2000, 12, A239-A244.	0.7	7
89	Polyol-Made Luminescent and Superparamagnetic Î²-NaY0.8Eu0.2F4@Î³-Fe2O3 Core-Satellites Nanoparticles for Dual Magnetic Resonance and Optical Imaging. Nanomaterials, 2020, 10, 393.	1.9	7
90	Membrane imaging by simultaneous second-harmonic generation and two-photon microscopy:â€ƒ*ferrata*. Optics Letters, 2000, 25, 678.	1.7	5

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91	Thermomagnetically Responsive Î³â€Fe₂O₃@Wax@SiO₂ Subâ€Micrometer Capsules. Particle and Particle Systems Characterization, 2017, 34, 1700063.	1.2	4
92	Evaluation of polyolâ€made Gd³⁺â€substituted Co_{0.6}Zn_{0.4}Fe₂O₄ nanoparticles as high magnetization MRI negative contrast agents. Journal of Interdisciplinary Nanomedicine, 2019, 4, 4-23.	3.6	4
93	Magnetic Ordering in Ultrasmall Potassium Ferrite Nanoparticles Grown on Graphene Nanoflakes. ACS Applied Materials & Interfaces, 2022, 14, 3130-3142.	4.0	4
94	Magneto-orientational properties of ionically stabilized aqueous dispersions of Ni(OH)2 nanoplatelets. European Physical Journal E, 2008, 26, 355-360.	0.7	3
95	Tear of lipid membranes by nanoparticles. Soft Matter, 2022, 18, 3318-3322.	1.2	3
96	Adsorption of Magnetic Nanoparticles onto Polyacrylamide Chains in Dilute Polymer Solutions and Ferrogel Networks. AIP Conference Proceedings, 2004, , .	0.3	1
97	Oblate-Prolate Transition of Ellipsoidal Giant Magnetoliposomes: Experiments Showing an Anisotropic Spontaneous Curvature. Perspectives in Supramolecular Chemistry, 2007, , 169-180.	0.1	1
98	Neutron Reflectivity on Polymer Multilayers Doped with Magnetic Nanoparticles. Solid State Phenomena, 2009, 152-153, 194-197.	0.3	1
99	Orientational behavior of an assembly of superparmagnetic rods. Physics Procedia, 2010, 9, 15-19.	1.2	1
100	Giant hybrid polymer/lipid vesicles. , 2019, , 551-568.		1
101	InnenrÃ¼cktitelbild: Polymersome Popping by Lightâ€Induced Osmotic Shock under Temporal, Spatial, and Spectral Control (Angew. Chem. 6/2017). Angewandte Chemie, 2017, 129, 1699-1699.	1.6	0
102	Extensive characterization of magnetic microrods observed using optical microscopy. Soft Matter, 2017, 13, 3841-3846.	1.2	0
103	Thermogravitational Cycles: Theoretical Framework and Example of an Electric Thermogravitational Generator Based on Balloon Inflation/Deflation. Inventions, 2018, 3, 79.	1.3	0