# Olivier Sandre

List of Publications by Year
in descending order

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|---|---|---|---|
| 103 papers | 8,006 citations | 57758 44 h-index | 48315 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. | 11.3 | 615 |
| 2 | Magnetic responsive polymer composite materials. Chemical Society Reviews, 2013, 42, 7099. | 38.1 | 499 |
| 3 | Doxorubicin Loaded Magnetic Polymersomes: Theranostic Nanocarriers for MR Imaging and Magneto-Chemotherapy. ACS Nano, 2011, 5, 1122-1140. | 14.6 | 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. | 13.7 | 356 |
| 5 | Cascades of Transient Pores in Giant Vesicles: Line Tension and Transport. Biophysical Journal, 2003, 84, 1734-1749. | 0.5 | 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. | 7.1 | 336 |
| 7 | Membrane imaging by second-harmonic generation microscopy. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 1685. | 2.1 | 311 |
| 8 | Magnetic field triggered drug release from polymersomes for cancer therapeutics. Journal of Controlled Release, 2013, 169, 165-170. | 9.9 | 267 |
| 9 | Coherent Scattering in Multi-Harmonic Light Microscopy. Biophysical Journal, 2001, 80, 1568-1574. | 0.5 | 232 |
| 10 | Microfluidics in Inorganic Chemistry. Angewandte Chemie - International Edition, 2010, 49, 6268-6286. | 13.8 | 212 |
| 11 | Membrane imaging by simultaneous second-harmonic generation and two-photon microscopy. Optics Letters, 2000, 25, 320. | 3.3 | 210 |
| 12 | Recent trends in the tuning of polymersomesâ€™ membrane properties. European Physical Journal E, 2011, 34, 14. | 1.6 | 195 |
| 13 | Hybrid polymer/lipid vesicles: state of the art and future perspectives. Materials Today, 2013, 16, 397-402. | 14.2 | 187 |
| 14 | Transient pores in stretched vesicles: role of leak-out. Physica A: Statistical Mechanics and Its Applications, 2000, 278, 32-51. | 2.6 | 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. | 7.6 | 174 |
| 16 | Magnetic Nanocomposite Micelles and Vesicles. Advanced Materials, 2005, 17, 712-718. | 21.0 | 170 |
| 17 | Synthesis of iron oxide nanoparticles in a microfluidic device: preliminary results in a coaxial flow millichannel. Chemical Communications, 2008, , 1783. | 4.1 | 124 |
| 18 | Hybrid polymer/lipid vesicles: fine control of the lipid and polymer distribution in the binary membrane. Soft Matter, 2012, 8, 2867. | 2.7 | 115 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Multicolor Emission of Small Molecule-Based Amorphous Thin Films and Nanoparticles with a Single Excitation Wavelength. Chemistry of Materials, 2008, 20, 6597-6599. | 6.7 | 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. | 21.0 | 97 |
| 21 | Polymersome Shape Transformation at the Nanoscale. ACS Nano, 2013, 7, 9298-9311. | 14.6 | 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. | 7.6 | 84 |
| 23 | Drug releasing nanoplatforms activated by alternating magnetic fields. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1617-1641. | 2.4 | 84 |
| 24 | Moving droplets on asymmetrically structured surfaces. Physical Review E, 1999, 60, 2964-2972. | 2.1 | 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. | 4.0 | 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. | 2.3 | 81 |
| 27 | Specific absorption rate dependence on temperature in magnetic field hyperthermia measured by dynamic hysteresis losses (ac magnetometry). Nanotechnology, 2015, 26, 015704. | 2.6 | 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. | 2.6 | 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. | 3.5 | 75 |
| 30 | Preparation and swelling of hydrophilic magnetic microgels. Polymer, 2004, 45, 2475-2481. | 3.8 | 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. | 3.3 | 74 |
| 32 | Size Distribution of Superparamagnetic Particles Determined by Magnetic Sedimentation. Langmuir, 2007, 23, 2993-2999. | 3.5 | 72 |
| 33 | Polymersome Popping by Lightâ€Induced Osmotic Shock under Temporal, Spatial, and Spectral Control. Angewandte Chemie - International Edition, 2017, 56, 1566-1570. | 13.8 | 71 |
| 34 | Phase Separation and Nanodomain Formation in Hybrid Polymer/Lipid Vesicles. ACS Macro Letters, 2015, 4, 182-186. | 4.8 | 69 |
| 35 | Polymersomes in â€œGellyâ€•Polymersomes: Toward Structural Cell Mimicry. Langmuir, 2012, 28, 2035-2043. | 3.5 | 68 |
| 36 | Phase Behavior of Nanoparticles in a Thermotropic Liquid Crystal. Journal of Physical Chemistry B, 2005, 109, 14292-14299. | 2.6 | 66 |

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|---|---|---|---|
| 37 | Stable oxide nanoparticle clusters obtained by complexation. Journal of Colloid and Interface Science, 2006, 303, 315-318. | 9.4 | 59 |
| 38 | Assembly of microscopic highly magnetic droplets:â€ƒMagnetic alignment versus viscous drag. Physical Review E, 1999, 59, 1736-1746. | 2.1 | 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. | 2.7 | 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. | 5.8 | 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. | 3.4 | 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. | 13.8 | 53 |
| 43 | Transient pores in vesicles. Polymer International, 2003, 52, 486-493. | 3.1 | 50 |
| 44 | Nano-thermometers with thermo-sensitive polymer grafted USPIOs behaving as positive contrast agents in low-field MRI. Nanoscale, 2015, 7, 3754-3767. | 5.6 | 47 |
| 45 | Effect of Formulation and Processing Parameters on the Size of mPEG-b-p(HPMA-Bz) Polymeric Micelles. Langmuir, 2018, 34, 15495-15506. | 3.5 | 45 |
| 46 | Smart hybrid magnetic self-assembled micelles and hollow capsules. Progress in Solid State Chemistry, 2006, 34, 171-179. | 7.2 | 44 |
| 47 | Dynamics of paramagnetic nanostructured rods under rotating field. Journal of Magnetism and Magnetic Materials, 2011, 323, 1309-1313. | 2.3 | 44 |
| 48 | Designing magnetic composite materials using aqueous magnetic fluids. Journal of Physics Condensed Matter, 2003, 15, S1379-S1402. | 1.8 | 40 |
| 49 | Thermo-responsive self-immolative nanoassemblies: direct and indirect triggering. Chemical Communications, 2017, 53, 12068-12071. | 4.1 | 40 |
| 50 | Sensitive High Frequency AC Susceptometry in Magnetic Nanoparticle Applications. AIP Conference Proceedings, 2010, , . | 0.4 | 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. | 4.8 | 39 |
| 52 | Shape transitions of giant liposomes induced by an anisotropic spontaneous curvature. Physical Review E, 2000, 62, 3865-3870. | 2.1 | 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. | 3.1 | 35 |
| 54 | Structural Evolution of a Stimulus-Responsive Diblock Polypeptide Micelle by Temperature Tunable Compaction of its Core. Macromolecules, 2015, 48, 6617-6627. | 4.8 | 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. | 2.1 | 33 |
| 56 | Challenges and recommendations for magnetic hyperthermia characterization measurements. International Journal of Hyperthermia, 2021, 38, 447-460. | 2.5 | 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. | 2.3 | 31 |
| 58 | Harmonic phases of the nanoparticle magnetization: An intrinsic temperature probe. Applied Physics Letters, 2015, 107, . | 3.3 | 30 |
| 59 | Universal scattering behavior of coassembled nanoparticle-polymer clusters. Physical Review E, 2008, 78, 040401. | 2.1 | 29 |
| 60 | Magnetic tubules. Materials Science and Engineering C, 1997, 5, 153-162. | 7.3 | 28 |
| 61 | Kinetics of Aggregation and Magnetic Separation of Multicore Iron Oxide Nanoparticles: Effect of the Grafted Layer Thickness. Nanomaterials, 2018, 8, 623. | 4.1 | 28 |
| 62 | Aqueous ROPISA of Î±-amino acid N-carboxyanhydrides: polypeptide block secondary structure controls nanoparticle shape anisotropy. Polymer Chemistry, 2021, 12, 6242-6251. | 3.9 | 27 |
| 63 | Permeation through Lipid Bilayers by Adhesion of Giant Vesicles on Decorated Surfaces. Langmuir, 2000, 16, 6801-6808. | 3.5 | 26 |
| 64 | Electrostatic Coâ€assembly of Magnetic Nanoparticles and Fluorescent Nanospheres: A Versatile Approach Towards Bimodal Nanorods. Small, 2009, 5, 2533-2536. | 10.0 | 25 |
| 65 | Thermosensitive polymer-grafted iron oxide nanoparticles studied byin situdynamic light backscattering under magnetic hyperthermia. Journal Physics D: Applied Physics, 2015, 48, 494001. | 2.8 | 23 |
| 66 | Depletion induced vesicle-to-micelle transition from self-assembled rodâ€“coil diblock copolymers with spherical magnetic nanoparticles. Soft Matter, 2011, 7, 9744. | 2.7 | 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. | 2.1 | 22 |
| 68 | Templated Synthesis of Magnetic Nanoparticles through the Self-Assembly of Polymers and Surfactants. Nanomaterials, 2014, 4, 628-685. | 4.1 | 22 |
| 69 | Local structure of polymeric ferrogels. Journal of Magnetism and Magnetic Materials, 2011, 323, 1211-1215. | 2.3 | 21 |
| 70 | Biocompatible Polyion Complex Micelles Synthesized from Arborescent Polymers. Langmuir, 2016, 32, 13482-13492. | 3.5 | 21 |
| 71 | Mn<sup>2+</sup> Complexes with Pyclen-Based Derivatives as Contrast Agents for Magnetic Resonance Imaging: Synthesis and Relaxometry Characterization. Inorganic Chemistry, 2021, 60, 3604-3619. | 4.0 | 19 |
| 72 | Design of a fluorinated magneto-responsive material with tuneable ultrasound scattering properties. Journal of Materials Chemistry B, 2014, 2, 1285. | 5.8 | 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. | 2.0 | 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. | 5.0 | 18 |
| 75 | Tuning Mie Scattering Resonances in Soft Materials with Magnetic Fields. Physical Review Letters, 2013, 111, 264301. | 7.8 | 16 |
| 76 | In Vivo Imaging of Local Gene Expression Induced by Magnetic Hyperthermia. Genes, 2017, 8, 61. | 2.4 | 15 |
| 77 | Effects of Chain Length of Chitosan Oligosaccharides on Solution Properties and Complexation with siRNA. Polymers, 2019, 11, 1236. | 4.5 | 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. | 5.8 | 15 |
| 79 | Tuning Size and Morphology of mPEG-b-p(HPMA-Bz) Copolymer Self-Assemblies Using Microfluidics. Polymers, 2020, 12, 2572. | 4.5 | 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. | 3.8 | 13 |
| 81 | Stabilization and controlled association of superparamagnetic nanoparticles using block copolymers. Journal of Magnetism and Magnetic Materials, 2009, 321, 667-670. | 2.3 | 12 |
| 82 | Static and dynamic structural probing of swollen polyacrylamide ferrogels. Soft Matter, 2009, , . | 2.7 | 12 |
| 83 | Self-assembled coreâ€“shell micelles from peptide-b-polymer molecular chimeras towards structureâ€“activity relationships. Faraday Discussions, 2013, 166, 83. | 3.2 | 11 |
| 84 | Magnetic Polyion Complex Micelles for Cell Toxicity Induced by Radiofrequency Magnetic Field Hyperthermia. Nanomaterials, 2018, 8, 1014. | 4.1 | 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. | 5.8 | 11 |
| 86 | Reorientation kinetics of superparamagnetic nanostructured rods. Journal of Physics Condensed Matter, 2008, 20, 494216. | 1.8 | 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. | 7.3 | 8 |
| 88 | Adhesion of soft objects on wet substrates. Journal of Physics Condensed Matter, 2000, 12, A239-A244. | 1.8 | 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. | 4.1 | 7 |
| 90 | Membrane imaging by simultaneous second-harmonic generation and two-photon microscopy:â€ƒ*ferrata*. Optics Letters, 2000, 25, 678. | 3.3 | 5 |

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|---|---|---|---|
| 91 | Thermomagnetically Responsive Î³â€Fe<sub>2</sub>O<sub>3</sub>@Wax@SiO<sub>2</sub> Subâ€Micrometer Capsules. Particle and Particle Systems Characterization, 2017, 34, 1700063. | 2.3 | 4 |
| 92 | Evaluation of polyolâ€made Gd<sup>3+</sup>â€substituted Co<sub>0.6</sub>Zn<sub>0.4</sub>Fe<sub>2</sub>O<sub>4</sub> 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. | 8.0 | 4 |
| 94 | Magneto-orientational properties of ionically stabilized aqueous dispersions of Ni(OH)2 nanoplatelets. European Physical Journal E, 2008, 26, 355-360. | 1.6 | 3 |
| 95 | Tear of lipid membranes by nanoparticles. Soft Matter, 2022, 18, 3318-3322. | 2.7 | 3 |
| 96 | Adsorption of Magnetic Nanoparticles onto Polyacrylamide Chains in Dilute Polymer Solutions and Ferrogel Networks. AIP Conference Proceedings, 2004, , . | 0.4 | 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. | 2.0 | 0 |
| 102 | Extensive characterization of magnetic microrods observed using optical microscopy. Soft Matter, 2017, 13, 3841-3846. | 2.7 | 0 |
| 103 | Thermogravitational Cycles: Theoretical Framework and Example of an Electric Thermogravitational Generator Based on Balloon Inflation/Deflation. Inventions, 2018, 3, 79. | 2.5 | 0 |