

Lucie Sancey

List of Publications by Citations

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88
papers

3,400
citations

35
h-index

56
g-index

103
ext. papers

3,994
ext. citations

6.4
avg, IF

4.93
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 88 | Physico-chemical parameters that govern nanoparticles fate also dictate rules for their molecular evolution. <i>Advanced Drug Delivery Reviews</i> , 2012 , 64, 179-89 | 18.5 | 155 |
| 87 | Ultrasmall rigid particles as multimodal probes for medical applications. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12299-303 | 16.4 | 142 |
| 86 | Clustering and internalization of integrin alphavbeta3 with a tetrameric RGD-synthetic peptide. <i>Molecular Therapy</i> , 2009 , 17, 837-43 | 11.7 | 131 |
| 85 | The use of theranostic gadolinium-based nanoprobe to improve radiotherapy efficacy. <i>British Journal of Radiology</i> , 2014 , 87, 20140134 | 3.4 | 130 |
| 84 | Nanoparticle Mediated Tumor Vascular Disruption: A Novel Strategy in Radiation Therapy. <i>Nano Letters</i> , 2015 , 15, 7488-96 | 11.5 | 125 |
| 83 | The multiple roles of amphiregulin in human cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2011 , 1816, 119-31 | 11.2 | 118 |
| 82 | Long-term in vivo clearance of gadolinium-based AGuIX nanoparticles and their biocompatibility after systemic injection. <i>ACS Nano</i> , 2015 , 9, 2477-88 | 16.7 | 109 |
| 81 | Gadolinium-Based Nanoparticles and Radiation Therapy for Multiple Brain Melanoma Metastases: Proof of Concept before Phase I Trial. <i>Theranostics</i> , 2016 , 6, 418-27 | 12.1 | 107 |
| 80 | A top-down synthesis route to ultrasmall multifunctional Gd-based silica nanoparticles for theranostic applications. <i>Chemistry - A European Journal</i> , 2013 , 19, 6122-36 | 4.8 | 100 |
| 79 | Laser spectrometry for multi-elemental imaging of biological tissues. <i>Scientific Reports</i> , 2014 , 4, 6065 | 4.9 | 92 |
| 78 | Elemental imaging using laser-induced breakdown spectroscopy: A new and promising approach for biological and medical applications. <i>Coordination Chemistry Reviews</i> , 2018 , 358, 70-79 | 23.2 | 79 |
| 77 | Advantages of gadolinium based ultrasmall nanoparticles vs molecular gadolinium chelates for radiotherapy guided by MRI for glioma treatment. <i>Cancer Nanotechnology</i> , 2014 , 5, 4 | 7.9 | 78 |
| 76 | Internalization pathways into cancer cells of gadolinium-based radiosensitizing nanoparticles. <i>Biomaterials</i> , 2013 , 34, 181-95 | 15.6 | 71 |
| 75 | Gadolinium-based nanoparticles for theranostic MRI-radiosensitization. <i>Nanomedicine</i> , 2015 , 10, 1801-15 | 5.6 | 70 |
| 74 | 3D Imaging of Nanoparticle Distribution in Biological Tissue by Laser-Induced Breakdown Spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 29936 | 4.9 | 68 |
| 73 | Conventional versus stealth lipid nanoparticles: formulation and in vivo fate prediction through FRET monitoring. <i>Journal of Controlled Release</i> , 2014 , 188, 1-8 | 11.7 | 65 |
| 72 | Influence of size, surface coating and fine chemical composition on the in vitro reactivity and in vivo biodistribution of lipid nanocapsules versus lipid nanoemulsions in cancer models. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 375-87 | 6 | 64 |

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| 71 | Advanced multimodal nanoparticles delay tumor progression with clinical radiation therapy. <i>Journal of Controlled Release</i> , 2016 , 238, 103-113 | 11.7 | 63 |
| 70 | Treatment of multiple brain metastases using gadolinium nanoparticles and radiotherapy: NANO-RAD, a phase I study protocol. <i>BMJ Open</i> , 2019 , 9, e023591 | 3 | 62 |
| 69 | FRET imaging approaches for in vitro and in vivo characterization of synthetic lipid nanoparticles. <i>Molecular Pharmaceutics</i> , 2014 , 11, 3133-44 | 5.6 | 55 |
| 68 | In vivo imaging of tumour angiogenesis in mice with the alpha(v)beta (3) integrin-targeted tracer 99mTc-RAFT-RGD. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007 , 34, 2037-47 | 8.8 | 55 |
| 67 | Gadolinium nanoparticles and contrast agent as radiation sensitizers. <i>Physics in Medicine and Biology</i> , 2015 , 60, 4449-64 | 3.8 | 51 |
| 66 | The natural cell-penetrating peptide crotamine targets tumor tissue in vivo and triggers a lethal calcium-dependent pathway in cultured cells. <i>Molecular Pharmaceutics</i> , 2012 , 9, 211-21 | 5.6 | 50 |
| 65 | Mapping nanoparticles injected into a biological tissue using laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013 , 87, 168-174 | 3.1 | 46 |
| 64 | Optical small animal imaging in the drug discovery process. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010 , 1798, 2266-73 | 3.8 | 45 |
| 63 | Effect of particle size on the biodistribution of lipid nanocapsules: comparison between nuclear and fluorescence imaging and counting. <i>International Journal of Pharmaceutics</i> , 2013 , 453, 594-600 | 6.5 | 44 |
| 62 | Bax-derived membrane-active peptides act as potent and direct inducers of apoptosis in cancer cells. <i>Journal of Cell Science</i> , 2011 , 124, 556-64 | 5.3 | 44 |
| 61 | Functionalization of small rigid platforms with cyclic RGD peptides for targeting tumors overexpressing $\alpha_5\beta_1$ -integrins. <i>Bioconjugate Chemistry</i> , 2013 , 24, 1584-97 | 6.3 | 42 |
| 60 | Amphiregulin promotes BAX inhibition and resistance to gefitinib in non-small-cell lung cancers. <i>Molecular Therapy</i> , 2010 , 18, 528-35 | 11.7 | 42 |
| 59 | Zwitterion functionalized gold nanoclusters for multimodal near infrared fluorescence and photoacoustic imaging. <i>APL Materials</i> , 2017 , 5, 053404 | 5.7 | 41 |
| 58 | An MRI-based classification scheme to predict passive access of 5 to 50-nm large nanoparticles to tumors. <i>Scientific Reports</i> , 2016 , 6, 21417 | 4.9 | 39 |
| 57 | Ultrasmall Nanoplatfoms as Calcium-Responsive Contrast Agents for Magnetic Resonance Imaging. <i>Small</i> , 2015 , 11, 4900-9 | 11 | 37 |
| 56 | Hydrophobicity of Gold Nanoclusters Influences Their Interactions with Biological Barriers. <i>Chemistry of Materials</i> , 2017 , 29, 7497-7506 | 9.6 | 36 |
| 55 | Multi-elemental imaging of paraffin-embedded human samples by laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017 , 133, 40-44 | 3.1 | 35 |
| 54 | MRI-guided clinical 6-MV radiosensitization of glioma using a unique gadolinium-based nanoparticles injection. <i>Nanomedicine</i> , 2016 , 11, 2405-17 | 5.6 | 35 |

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|----|--|------|----|
| 53 | Targeted delivery of activatable fluorescent pro-apoptotic peptide into live cells. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 221-4 | 3.9 | 35 |
| 52 | Mn(II)-containing coordination nanoparticles as highly efficient T(1) contrast agents for magnetic resonance imaging. <i>Chemical Communications</i> , 2014 , 50, 6740-3 | 5.8 | 34 |
| 51 | Near infrared labeling of PLGA for in vivo imaging of nanoparticles. <i>Polymer Chemistry</i> , 2012 , 3, 694 | 4.9 | 34 |
| 50 | Amphiregulin promotes resistance to gefitinib in nonsmall cell lung cancer cells by regulating Ku70 acetylation. <i>Molecular Therapy</i> , 2010 , 18, 536-43 | 11.7 | 34 |
| 49 | Elemental and optical imaging evaluation of zwitterionic gold nanoclusters in glioblastoma mouse models. <i>Nanoscale</i> , 2018 , 10, 18657-18664 | 7.7 | 34 |
| 48 | Plasma Circulating Tumor DNA Levels for the Monitoring of Melanoma Patients: Landscape of Available Technologies and Clinical Applications. <i>BioMed Research International</i> , 2017 , 2017, 5986129 | 3 | 33 |
| 47 | In vivo molecular imaging of myocardial angiogenesis using the alpha(v)beta3 integrin-targeted tracer 99mTc-RAFT-RGD. <i>Journal of Nuclear Cardiology</i> , 2010 , 17, 435-43 | 2.1 | 32 |
| 46 | Water-Soluble Aza-BODIPYs: Biocompatible Organic Dyes for High Contrast NIR-II Imaging. <i>Bioconjugate Chemistry</i> , 2020 , 31, 1088-1092 | 6.3 | 31 |
| 45 | Ultrasmall particles for Gd-MRI and (68) Ga-PET dual imaging. <i>Contrast Media and Molecular Imaging</i> , 2015 , 10, 309-19 | 3.2 | 30 |
| 44 | Plasmon-mediated cancer phototherapy: the combined effect of thermal and photodynamic processes. <i>Nanoscale</i> , 2017 , 9, 19279-19289 | 7.7 | 29 |
| 43 | Mapping of native inorganic elements and injected nanoparticles in a biological organ with laser-induced plasma. <i>Applied Physics Letters</i> , 2012 , 101, 223702 | 3.4 | 29 |
| 42 | The High Radiosensitizing Efficiency of a Trace of Gadolinium-Based Nanoparticles in Tumors. <i>Scientific Reports</i> , 2016 , 6, 29678 | 4.9 | 29 |
| 41 | Application of click-click chemistry to the synthesis of new multivalent RGD conjugates. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 5133-8 | 3.9 | 27 |
| 40 | Bifunctional polypyridyl-Ru(II) complex grafted onto gadolinium-based nanoparticles for MR-imaging and photodynamic therapy. <i>Dalton Transactions</i> , 2013 , 42, 12410-20 | 4.3 | 26 |
| 39 | Safety Evaluation and Imaging Properties of Gadolinium-Based Nanoparticles in nonhuman primates. <i>Scientific Reports</i> , 2016 , 6, 35053 | 4.9 | 25 |
| 38 | Targeted delivery of a proapoptotic peptide to tumors in vivo. <i>Journal of Drug Targeting</i> , 2011 , 19, 582-85.4 | 5.4 | 24 |
| 37 | Targeting tumors with cyclic RGD-conjugated lipid nanoparticles loaded with an IR780 NIR dye: In vitro and in vivo evaluation. <i>International Journal of Pharmaceutics</i> , 2017 , 532, 677-685 | 6.5 | 23 |
| 36 | Development of gadolinium based nanoparticles having an affinity towards melanin. <i>Nanoscale</i> , 2013 , 5, 1603-15 | 7.7 | 23 |

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| 35 | Gold nanoclusters as a contrast agent for image-guided surgery of head and neck tumors. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 20, 102011 | 6 | 19 |
| 34 | The Multifaceted Roles of Copper in Cancer: A Trace Metal Element with Dysregulated Metabolism, but Also a Target or a Bullet for Therapy. <i>Cancers</i> , 2020 , 12, | 6.6 | 19 |
| 33 | Ultrasmall theranostic gadolinium-based nanoparticles improve high-grade rat glioma survival. <i>Journal of Clinical Neuroscience</i> , 2019 , 67, 215-219 | 2.2 | 17 |
| 32 | Chemical and biological evaluations of an (111)in-labeled RGD-peptide targeting integrin alpha(V) beta(3) in a preclinical tumor model. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2008 , 23, 691-700 | 3.9 | 17 |
| 31 | Theranostic AGuIX nanoparticles as radiosensitizer: A phase I, dose-escalation study in patients with multiple brain metastases (NANO-RAD trial). <i>Radiotherapy and Oncology</i> , 2021 , 160, 159-165 | 5.3 | 17 |
| 30 | Surface functionalization of gold nanoclusters with arginine: a trade-off between microtumor uptake and radiotherapy enhancement. <i>Nanoscale</i> , 2020 , 12, 6959-6963 | 7.7 | 16 |
| 29 | Multifunctional material based on ionic transition metal complexes and gold-silica nanoparticles: synthesis and photophysical characterization for application in imaging and therapy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014 , 140, 396-404 | 6.7 | 16 |
| 28 | Drug development in oncology assisted by noninvasive optical imaging. <i>International Journal of Pharmaceutics</i> , 2009 , 379, 309-16 | 6.5 | 16 |
| 27 | Radiation Dose-Enhancement Is a Potent Radiotherapeutic Effect of Rare-Earth Composite Nanoscintillators in Preclinical Models of Glioblastoma. <i>Advanced Science</i> , 2020 , 7, 2001675 | 13.6 | 16 |
| 26 | Selective Priming of Tumor Blood Vessels by Radiation Therapy Enhances Nanodrug Delivery. <i>Scientific Reports</i> , 2019 , 9, 15844 | 4.9 | 15 |
| 25 | Reduction of renal uptake of 111In-DOTA-labeled and A700-labeled RAFT-RGD during integrin $\alpha\beta$ targeting using single photon emission computed tomography and optical imaging. <i>Cancer Science</i> , 2012 , 103, 1105-10 | 6.9 | 15 |
| 24 | Ultrasmall Rigid Particles as Multimodal Probes for Medical Applications. <i>Angewandte Chemie</i> , 2011 , 123, 12507-12511 | 3.6 | 14 |
| 23 | Characterization of foreign materials in paraffin-embedded pathological specimens using in situ multi-elemental imaging with laser spectroscopy. <i>Modern Pathology</i> , 2018 , 31, 378-384 | 9.8 | 14 |
| 22 | A versatile method for the selective core-crosslinking of hyaluronic acid nanogels via ketone-hydrazide chemistry: from chemical characterization to in vivo biodistribution. <i>Biomaterials Science</i> , 2018 , 6, 1754-1763 | 7.4 | 12 |
| 21 | Aza-BODIPY: A New Vector for Enhanced Theranostic Boron Neutron Capture Therapy Applications. <i>Cells</i> , 2020 , 9, | 7.9 | 12 |
| 20 | Monte Carlo simulations guided by imaging to predict the in vitro ranking of radiosensitizing nanoparticles. <i>International Journal of Nanomedicine</i> , 2016 , 11, 6169-6179 | 7.3 | 10 |
| 19 | Iron Dysregulation in Human Cancer: Altered Metabolism, Biomarkers for Diagnosis, Prognosis, Monitoring and Rationale for Therapy. <i>Cancers</i> , 2020 , 12, | 6.6 | 9 |
| 18 | In vivo evidence of the targeting of cartilaginous tissue by pyridinium functionalized nanoparticles. <i>Chemical Communications</i> , 2013 , 49, 3046-8 | 5.8 | 7 |

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| 17 | Laser-induced breakdown spectroscopy: a new approach for nanoparticle mapping and quantification in organ tissue. <i>Journal of Visualized Experiments</i> , 2014 , | 1.6 | 7 |
| 16 | Theranostics in Boron Neutron Capture Therapy. <i>Life</i> , 2021 , 11, | 3 | 7 |
| 15 | Tailored ultra-small Prussian blue-based nanoparticles for MRI imaging and combined photothermal/photoacoustic theranostics. <i>Chemical Communications</i> , 2019 , 55, 14844-14847 | 5.8 | 7 |
| 14 | X-ray Zernike phase contrast tomography: 3D ROI visualization of mm-sized mice organ tissues down to sub-cellular components. <i>Biomedical Optics Express</i> , 2020 , 11, 5506-5517 | 3.5 | 6 |
| 13 | Dynamic Covalent Chemistry Enables Reconfigurable All-Polysaccharide Nanogels. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000213 | 4.8 | 5 |
| 12 | Anticancer properties of lipid and poly(ϵ -caprolactone) nanocapsules loaded with ferrocenyl-tamoxifen derivatives. <i>Journal of Pharmacy and Pharmacology</i> , 2018 , 70, 1474-1484 | 4.8 | 5 |
| 11 | Orotracheal manganese-enhanced MRI (MEMRI): An effective approach for lung tumor detection. <i>NMR in Biomedicine</i> , 2017 , 30, e3790 | 4.4 | 3 |
| 10 | Augmented interaction of multivalent arginine coated gold nanoclusters with lipid membranes and cells.. <i>RSC Advances</i> , 2020 , 10, 6436-6443 | 3.7 | 2 |
| 9 | Multiparametric investigation of non functionalized-AGuIX nanoparticles in 3D human airway epithelium models demonstrates preferential targeting of tumor cells. <i>Journal of Nanobiotechnology</i> , 2020 , 18, 129 | 9.4 | 2 |
| 8 | 3D map of theranostic nanoparticles distribution in mice brain and liver by means of X-ray Phase Contrast Tomography. <i>Journal of Instrumentation</i> , 2018 , 13, C01049-C01049 | 1 | 1 |
| 7 | Innovative multimodal DOTA/NODA nanoparticles for MRI and PET imaging for tumor detection. <i>EJNMMI Physics</i> , 2014 , 1, A80 | 4.4 | 1 |
| 6 | FRET as a tool for the investigation of the fate of Lipidots contrast agents in vivo 2011 , | | 1 |
| 5 | 3D Spatial Distribution of Nanoparticles in Mice Brain Metastases by X-ray Phase-Contrast Tomography. <i>Frontiers in Oncology</i> , 2021 , 11, 554668 | 5.3 | 1 |
| 4 | Near-infrared emitting fluorescent homobimetallic gold(I) complexes displaying promising in vitro and in vivo therapeutic properties. <i>European Journal of Medicinal Chemistry</i> , 2021 , 220, 113483 | 6.8 | 1 |
| 3 | A Luminescent, Water-Soluble Ir(III) Complex as a Potential Photosensitizer for Two-Photon Photodynamic Therapy. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11596 | 2.6 | 1 |
| 2 | Monitoring of Gold Biodistribution from Nanoparticles Using a HPLC-Visible Method. <i>Separations</i> , 2021 , 8, 215 | 3.1 | 0 |
| 1 | 21: Drug vectorization with an integrin α 5 β 1-targeted carrier for early diagnosis and cancer therapy. <i>Bulletin Du Cancer</i> , 2010 , 97, S20 | 2.4 | |