Sophie Hernot

List of Publications by Year
in descending order

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41 papers	2,667 citations	394421 19 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	3661 citing authors

#	Article	IF	Citations
1	Design and Validation of Site-Specifically Labeled Single-Domain Antibody-Based Tracers for in Vivo Fluorescence Imaging and Image-Guided Surgery. Methods in Molecular Biology, 2022, 2446, 395-407.	0.9	2
2	Custom lifetime phantoms for characterization and benchmarking of a new CAPS fluorescence-lifetime camera. , 2022, , .		1
3	Fluorescent Anti-CEA Nanobody for Rapid Tumor-Targeting and Imaging in Mouse Models of Pancreatic Cancer. Biomolecules, 2022, 12, 711.	4.0	6
4	Emerging applications of nanobodies in cancer therapy. International Review of Cell and Molecular Biology, 2022, , 143-199.	3.2	9
5	The Design and Preclinical Evaluation of a Single-Label Bimodal Nanobody Tracer for Image-Guided Surgery. Biomolecules, 2021, 11, 360.	4.0	8
6	Targeted Repolarization of Tumorâ€Associated Macrophages via Imidazoquinolineâ€Linked Nanobodies. Advanced Science, 2021, 8, 2004574.	11.2	38
7	Decorating sdAbs with Chelators: Effect of Conjugation on Biodistribution and Functionality. Pharmaceuticals, 2021, 14, 407.	3.8	2
8	Probe-based intravital microscopy: filling the gap between in vivo imaging and tissue sample microscopy in basic research and clinical applications. JPhys Photonics, 2021, 3, 032003.	4.6	1
9	Rapid tumorâ€labeling kinetics with a siteâ€specific nearâ€infrared antiâ€CEA nanobody in a patientâ€derived orthotopic xenograft mouse model of colon cancer. Journal of Surgical Oncology, 2021, 124, 1121-1127.	1.7	11
10	Editorial overview: Molecular imaging. Current Opinion in Chemical Biology, 2021, 63, A4-A6.	6.1	0
11	Reducing the renal retention of low- to moderate-molecular-weight radiopharmaceuticals. Current Opinion in Chemical Biology, 2021, 63, 219-228.	6.1	19
12	Size and affinity kinetics of nanobodies influence targeting and penetration of solid tumours. Journal of Controlled Release, 2020, 317, 34-42.	9.9	115
13	Tumor-specific near-infrared nanobody probe rapidly labels tumors in an orthotopic mouse model of pancreatic cancer. Surgery, 2020, 168, 85-91.	1.9	21
14	Improved Detection of Molecular Markers of Atherosclerotic Plaques Using Sub-Millimeter PET Imaging. Molecules, 2020, 25, 1838.	3.8	7
15	Latest developments in molecular tracers for fluorescence image-guided cancer surgery. Lancet Oncology, The, 2019, 20, e354-e367.	10.7	291
16	Targeting mannose receptor expression on macrophages in atherosclerotic plaques of apolipoprotein E-knockout mice using 68Ga-NOTA-anti-MMR nanobody: non-invasive imaging of atherosclerotic plaques. EJNMMI Research, 2019, 9, 5.	2.5	46
17	Targeted Nanobody-Based Molecular Tracers for Nuclear Imaging and Image-Guided Surgery. Antibodies, 2019, 8, 12.	2.5	76
18	Emerging Fluorescent Molecular Tracers to Guide Intra-Operative Surgical Decision-Making. Frontiers in Pharmacology, 2019, 10, 510.	3.5	70

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19	Nanobody-Facilitated Multiparametric PET/MRI Phenotyping of Atherosclerosis. JACC: Cardiovascular Imaging, 2019, 12, 2015-2026.	5.3	66
20	Radiometal-labeled anti-VCAM-1 nanobodies as molecular tracers for atherosclerosis â€“ impact of radiochemistry on pharmacokinetics. Biological Chemistry, 2019, 400, 323-332.	2.5	19
21	Clinical validation of an ultrasound quantification score for aortic valve calcifications. International Journal of Cardiology, 2018, 252, 68-71.	1.7	5
22	Improved Debulking of Peritoneal Tumor Implants by Near-Infrared Fluorescent Nanobody Image Guidance in an Experimental Mouse Model. Molecular Imaging and Biology, 2018, 20, 361-367.	2.6	42
23	Evaluation of [99mTc]Radiolabeled Macrophage Mannose Receptor-Specific Nanobodies for Targeting of Atherosclerotic Lesions in Mice. Molecular Imaging and Biology, 2018, 20, 260-267.	2.6	24
24	Translating Molecular Imaging of the Vulnerable Plaqueâ€"a Vulnerable Project?. Molecular Imaging and Biology, 2018, 20, 337-339.	2.6	4
25	Emerging Intraoperative Imaging Modalities to Improve Surgical Precision. Molecular Imaging and Biology, 2018, 20, 705-715.	2.6	61
26	Effect of Dye and Conjugation Chemistry on the Biodistribution Profile of Near-Infrared-Labeled Nanobodies as Tracers for Image-Guided Surgery. Molecular Pharmaceutics, 2017, 14, 1145-1153.	4.6	76
27	Interaction of renal failure and dyslipidaemia in the development of calcific aortic valve disease in rats. Acta Cardiologica, 2017, 72, 537-546.	0.9	0
28	Quantification of Calcium Amount in a New Experimental Model: A Comparison between Ultrasound and Computed Tomography. PLoS ONE, 2016, 11, e0148904.	2.5	4
29	Sortase Aâ€mediated siteâ€specific labeling of camelid singleâ€domain antibodyâ€fragments: a versatile strategy for multiple molecular imaging modalities. Contrast Media and Molecular Imaging, 2016, 11, 328-339.	0.8	100
30	Targeting of vascular cell adhesion molecule-1 by¹⁸F-labelled nanobodies for PET/CT imaging of inflamed atherosclerotic plaques. European Heart Journal Cardiovascular Imaging, 2016, 17, 1001-1008.	1.2	83
31	Echocardiographic integrated backscatter for the differentiation between aortic valve calcification and valvular myxoid degeneration in rats. European Heart Journal Cardiovascular Imaging, 2014, 15, 1042-1047.	1.2	1
32	Nanobodies Targeting Mouse/Human VCAM1 for the Nuclear Imaging of Atherosclerotic Lesions. Circulation Research, 2012, 110, 927-937.	4.5	167
33	Molecular Imaging Using Nanobodies: A Case Study. Methods in Molecular Biology, 2012, 911, 559-567.	0.9	18
34	Site-Specific Labeling of His-Tagged Nanobodies with 99mTc: A Practical Guide. Methods in Molecular Biology, 2012, 911, 485-490.	0.9	37
35	Nanobody-coupled microbubbles as novel molecular tracer. Journal of Controlled Release, 2012, 158, 346-353.	9.9	78
36	Immuno-imaging using nanobodies. Current Opinion in Biotechnology, 2011, 22, 877-881.	6.6	109

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37	Integrated Backscatter for the In Vivo Quantification of Supraphysiological Vitamin D3-Induced Cardiovascular Calcifications in Rats. Cardiovascular Toxicology, 2011, 11, 244-252.	2.7	11
38	Serial Semiquantitative Imaging of Brain Damage Using Micro-SPECT and Micro-CT After Endothelin-1â€“Induced Transient Focal Cerebral Ischemia in Rats. Journal of Nuclear Medicine, 2011, 52, 1987-1992.	5.0	11
39	Effect of High-Intensity Ultrasoundâ€“Targeted Microbubble Destruction on Perfusion and Function of the Rat Heart Assessed by Pinhole-Gated SPECT. Ultrasound in Medicine and Biology, 2010, 36, 158-165.	1.5	9
40	Microbubbles in ultrasound-triggered drug and gene delivery. Advanced Drug Delivery Reviews, 2008, 60, 1153-1166.	13.7	825
41	Comparison of the Biodistribution and Tumor Targeting of Two ^{99m}Tc-Labeled Anti-EGFR Nanobodies in Mice, Using Pinhole SPECT/Micro-CT. Journal of Nuclear Medicine, 2008, 49, 788-795.	5.0	194