Veerle Kersemans

List of Publications by Year
in descending order

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98 papers	1,863 citations	236925 25 h-index	330143 37 g-index
101 all docs	101 docs citations	101 times ranked	2930 citing authors

#	Article	IF	Citations
1	Imaging of translocator protein upregulation is selective for proâ€inflammatory polarized astrocytes and microglia. Glia, 2020, 68, 280-297.	4.9	85
2	Nanographene oxide-based radioimmunoconstructs for inÂvivo targeting and SPECT imaging of HER2-positive tumors. Biomaterials, 2013, 34, 1146-1154.	11.4	84
3	¹⁸F-Trifluoromethylation of Unmodified Peptides with 5-¹⁸F-(Trifluoromethyl)dibenzothiophenium Trifluoromethanesulfonate. Journal of the American Chemical Society, 2018, 140, 1572-1575.	13.7	76
4	PET Imaging of PARP Expression Using ¹⁸F-Olaparib. Journal of Nuclear Medicine, 2019, 60, 504-510.	5.0	69
5	A Comparison of the Behavior of ⁶⁴Cu-Acetate and ⁶⁴Cu-ATSM In Vitro and In Vivo. Journal of Nuclear Medicine, 2014, 55, 128-134.	5.0	66
6	Cell Penetrating Peptides for In Vivo Molecular Imaging Applications. Current Pharmaceutical Design, 2008, 14, 2415-2427.	1.9	62
7	Imaging DNA Damage In Vivo Using Î³H2AX-Targeted Immunoconjugates. Cancer Research, 2011, 71, 4539-4549.	0.9	60
8	Drug-Resistant AML Cells and Primary AML Specimens Are Killed by ¹¹¹In-Anti-CD33 Monoclonal Antibodies Modified with Nuclear Localizing Peptide Sequences. Journal of Nuclear Medicine, 2008, 49, 1546-1554.	5.0	50
9	Cd11b+ myeloid cells support hepatic metastasis through downâ€regulation of angiopoietinâ€like 7 in cancer cells. Hepatology, 2015, 62, 521-533.	7.3	45
10	Micro-CT for Anatomic Referencing in PET and SPECT: Radiation Dose, Biologic Damage, and Image Quality. Journal of Nuclear Medicine, 2011, 52, 1827-1833.	5.0	44
11	Endogenous cystinyl aminopeptidase in Chinese hamster ovary cells: characterization by [125I]Ang IV binding and catalytic activity. Biochemical Pharmacology, 2004, 68, 885-892.	4.4	43
12	Targeting the Tumour: Cell Penetrating Peptides for Molecular Imaging and Radiotherapy. Pharmaceuticals, 2010, 3, 600-620.	3.8	42
13	Subcutaneous tumor volume measurement in the awake, manually restrained mouse using MRI. Journal of Magnetic Resonance Imaging, 2013, 37, 1499-1504.	3.4	40
14	Protease nexin 1 inhibits hedgehog signaling in prostate adenocarcinoma. Journal of Clinical Investigation, 2012, 122, 4025-4036.	8.2	39
15	Glial Activation in the Early Stages of Brain Metastasis: TSPO as a Diagnostic Biomarker. Journal of Nuclear Medicine, 2014, 55, 275-280.	5.0	38
16	A DCE-MRI Driven 3-D Reaction-Diffusion Model of Solid Tumor Growth. IEEE Transactions on Medical Imaging, 2018, 37, 724-732.	8.9	37
17	Ultrasound-mediated cavitation enhances the delivery of an EGFR-targeting liposomal formulation designed for chemo-radionuclide therapy. Theranostics, 2019, 9, 5595-5609.	10.0	37
18	The level of insulin growth factor-1 receptor expression is directly correlated with the tumor uptake of 111In-IGF-1(E3R) in vivo and the clonogenic survival of breast cancer cells exposed in vitro to trastuzumab (Herceptin). Nuclear Medicine and Biology, 2008, 35, 645-653.	0.6	36

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19	Hypoxia Imaging Using PET and SPECT: The Effects of Anesthetic and Carrier Gas on [64Cu]-ATSM, [99mTc]-HL91 and [18F]-FMISO Tumor Hypoxia Accumulation. PLoS ONE, 2011, 6, e25911.	2.5	33
20	Imaging DNA Damage Repair In Vivo After ¹⁷⁷Lu-DOTATATE Therapy. Journal of Nuclear Medicine, 2020, 61, 743-750.	5.0	33
21	Pre-clinical evaluation of a 3-nitro-1,2,4-triazole analogue of [18F]FMISO as hypoxia-selective tracer for PET. Nuclear Medicine and Biology, 2010, 37, 565-575.	0.6	31
22	Peptide and nonpeptide antagonist interaction with constitutively active human AT1 receptors. Biochemical Pharmacology, 2003, 65, 1329-1338.	4.4	30
23	In vitro and in vivo evaluation of [123I]-VEGF165 as a potential tumor marker. Nuclear Medicine and Biology, 2005, 32, 431-436.	0.6	28
24	Amplification of DNA damage by a Î³H2AX-targeted radiopharmaceutical. Nuclear Medicine and Biology, 2012, 39, 1142-1151.	0.6	28
25	Low dose angiostatic treatment counteracts radiotherapy-induced tumor perfusion and enhances the anti-tumor effect. Oncotarget, 2016, 7, 76613-76627.	1.8	27
26	Claudin-4 SPECT Imaging Allows Detection of Aplastic Lesions in a Mouse Model of Breast Cancer. Journal of Nuclear Medicine, 2015, 56, 745-751.	5.0	26
27	123/125I-labelled 2-iodo-L-phenylalanine and 2-iodo-D-phenylalanine: comparative uptake in various tumour types and biodistribution in mice. European Journal of Nuclear Medicine and Molecular Imaging, 2006, 33, 919-927.	6.4	25
28	111In-BnDTPA-F3: an Auger electron-emitting radiotherapeutic agent that targets nucleolin. EJNMMI Research, 2012, 2, 9.	2.5	24
29	PET imaging of DNA damage using 89Zr-labelled anti-Î³H2AX-TAT immunoconjugates. European Journal of Nuclear Medicine and Molecular Imaging, 2015, 42, 1707-1717.	6.4	24
30	Imaging of Claudin-4 in Pancreatic Ductal Adenocarcinoma Using a Radiolabelled Anti-Claudin-4 Monoclonal Antibody. Molecular Imaging and Biology, 2018, 20, 292-299.	2.6	22
31	Enhanced antitumor immunity through sequential targeting of PI3KÎ´ and LAG3. , 2020, 8, e000693.		22
32	Synergistic modulation of cystinyl aminopeptidase by divalent cation chelators. Biochemical Pharmacology, 2004, 68, 893-900.	4.4	21
33	Combining sonodynamic therapy with chemoradiation for the treatment of pancreatic cancer. Journal of Controlled Release, 2021, 337, 371-377.	9.9	21
34	89Zr-anti-Î³H2AX-TAT but not 18F-FDG Allows Early Monitoring of Response to Chemotherapy in a Mouse Model of Pancreatic Ductal Adenocarcinoma. Clinical Cancer Research, 2017, 23, 6498-6504.	7.0	20
35	Dual-isotope imaging allows in vivo immunohistochemistry using radiolabelled antibodies in tumours. Nuclear Medicine and Biology, 2019, 70, 14-22.	0.6	20
36	Properties of [111In]-labeled HIV-1 tat peptide radioimmunoconjugates in tumor-bearing mice following intravenous or intratumoral injection. Nuclear Medicine and Biology, 2008, 35, 101-110.	0.6	18

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37	A resistive heating system for homeothermic maintenance in small animals. Magnetic Resonance Imaging, 2015, 33, 847-851.	1.8	18
38	Metal ion modulation of cystinyl aminopeptidase. Biochemical Journal, 2005, 390, 351-357.	3.7	17
39	Tryptophane-Based Biphenylsulfonamide Matrix Metalloproteinase Inhibitors as Tumor Imaging Agents. Cancer Biotherapy and Radiopharmaceuticals, 2005, 20, 639-647.	1.0	16
40	ErbB-2 Blockade and Prenyltransferase Inhibition Alter Epidermal Growth Factor and Epidermal Growth Factor Receptor Trafficking and Enhance ¹¹¹In-DTPA-hEGF Auger Electron Radiation Therapy. Journal of Nuclear Medicine, 2011, 52, 776-783.	5.0	16
41	Antiâ€CD20 inhibits T cellâ€mediated pathology and microgliosis in the rat brain. Annals of Clinical and Translational Neurology, 2014, 1, 659-669.	3.7	16
42	In vivo characterization of 123/125I-2-iodo-L-phenylalanine in an R1M rhabdomyosarcoma athymic mouse model as a potential tumor tracer for SPECT. Journal of Nuclear Medicine, 2005, 46, 532-9.	5.0	16
43	Synthesis, biodistribution and effects of farnesyltransferase inhibitor therapy on tumour uptake in mice of 99mTc labelled epidermal growth factor. Nuclear Medicine Communications, 2005, 26, 147-153.	1.1	15
44	A dual radiolabelling approach for tracking metal complexes: investigating the speciation of copper bis(thiosemicarbazonates) in vitro and in vivo. Metallomics, 2015, 7, 795-804.	2.4	15
45	Acute vascular response to cediranib treatment in human non-small-cell lung cancer xenografts with different tumour stromal architecture. Lung Cancer, 2015, 90, 191-198.	2.0	14
46	MRI-guided radiotherapy of the SK-N-SH neuroblastoma xenograft model using a small animal radiation research platform. British Journal of Radiology, 2017, 90, 20160427.	2.2	14
47	Functional Parameters Derived from Magnetic Resonance Imaging Reflect Vascular Morphology in Preclinical Tumors and in Human Liver Metastases. Clinical Cancer Research, 2018, 24, 4694-4704.	7.0	14
48	Prospective gating control for highly efficient cardio-respiratory synchronised short and constant TR MRI in the mouse. Magnetic Resonance Imaging, 2018, 53, 20-27.	1.8	14
49	Synthesis, radiosynthesis, and in vitro characterization of [125I]-2- iodo-L-phenylalanine in a R1M rhabdomyosarcoma cell model as a new potential tumor tracer for SPECT. Nuclear Medicine and Biology, 2004, 31, 739-746.	0.6	13
50	Valine-based biphenylsulphonamide matrix metalloproteinase inhibitors as tumor imaging agents. Applied Radiation and Isotopes, 2006, 64, 677-685.	1.5	13
51	¹¹¹In-Labeled Immunoconjugates (ICs) Bispecific for the Epidermal Growth Factor Receptor (EGFR) and Cyclin-Dependent Kinase Inhibitor, p27^{Kip1}. Cancer Biotherapy and Radiopharmaceuticals, 2009, 24, 163-173.	1.0	13
52	Imaging DNA Damage Allows Detection of Preneoplasia in the BALB-neuT Model of Breast Cancer. Journal of Nuclear Medicine, 2014, 55, 2026-2031.	5.0	13
53	Radiolabeled cCPE Peptides for SPECT Imaging of Claudin-4 Overexpression in Pancreatic Cancer. Journal of Nuclear Medicine, 2020, 61, 1756-1763.	5.0	13
54	In vivo apoptosis detection with radioiodinated Annexin V in LoVo tumour-bearing mice following Tipifarnib (Zarnestra, R115777) farnesyltransferase inhibitor therapy. Nuclear Medicine and Biology, 2005, 32, 233-239.	0.6	12

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55	An efficient and robust MRI-guided radiotherapy planning approach for targeting abdominal organs and tumours in the mouse. PLoS ONE, 2017, 12, e0176693.	2.5	12
56	Improved outcome of 131 I-mIBG treatment through combination with external beam radiotherapy in the SK-N-SH mouse model of neuroblastoma. Radiotherapy and Oncology, 2017, 124, 488-495.	0.6	11
57	In vivo evaluation and dosimetry of 123I-2-iodo-D-phenylalanine, a new potential tumor-specific tracer for SPECT, in an R1M rhabdomyosarcoma athymic mouse model. Journal of Nuclear Medicine, 2005, 46, 2104-11.	5.0	11
58	Imaging PARP with [18F]rucaparib in pancreatic cancer models. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 3668-3678.	6.4	11
59	Comparative biodistribution study of the new tumor tracer [123I]-2-iodo-l-phenylalanine with [123I]-2-iodo-l-tyrosine. Nuclear Medicine and Biology, 2006, 33, 111-117.	0.6	10
60	An MRI-Compatible High Frequency AC Resistive Heating System for Homeothermic Maintenance in Small Animals. PLoS ONE, 2016, 11, e0164920.	2.5	10
61	A Carbon-Fiber Sheet Resistor for MR-, CT-, SPECT-, and PET-Compatible Temperature Maintenance in Small Animals. Tomography, 2019, 5, 274-281.	1.8	10
62	Comparison between 1â€…T MRI and non-MRI based volumetry in inoculated tumours in mice. British Journal of Radiology, 2005, 78, 338-342.	2.2	9
63	In vivo monitoring of intranuclear p27kip1 protein expression in breast cancer cells during trastuzumab (Herceptin) therapy. Nuclear Medicine and Biology, 2009, 36, 811-819.	0.6	9
64	Orally administered oxygen nanobubbles enhance tumor response to sonodynamic therapy. Nano Select, 2022, 3, 394-401.	3.7	9
65	The presence of contrast agent increases organ radiation dose in contrast-enhanced CT. European Radiology, 2021, 31, 7540-7549.	4.5	8
66	Iodine Dose of Administered Contrast Media Affects the Level of Radiation-Induced DNA Damage During Cardiac CT Scans. American Journal of Roentgenology, 2019, 213, 404-409.	2.2	7
67	Early Detection in a Mouse Model of Pancreatic Cancer by Imaging DNA Damage Response Signaling. Journal of Nuclear Medicine, 2020, 61, 1006-1013.	5.0	7
68	Influence of farnesyl transferase inhibitor treatment on epidermal growth factor receptor status. Nuclear Medicine and Biology, 2004, 31, 679-689.	0.6	6
69	Tumor Imaging Using Radiolabeled Matrix Metalloproteinaseâ€“Activated Anthrax Proteins. Journal of Nuclear Medicine, 2019, 60, 1474-1482.	5.0	6
70	A Model System to Explore the Detection Limits of Antibody-Based Immuno-SPECT Imaging of Exclusively Intranuclear Epitopes. Journal of Nuclear Medicine, 2021, 62, 1537-1544.	5.0	6
71	Refinement of inÂvivo optical imaging: Development of a real-time respiration monitoring system. Laboratory Animals, 2018, 52, 531-535.	1.0	5
72	Olaparib increases the therapeutic index of hemithoracic irradiation compared with hemithoracic irradiation alone in a mouse lung cancer model. British Journal of Cancer, 2021, 124, 1809-1819.	6.4	5

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73	In vivo evaluation of [123I]-3-(4-iodobenzyl)-1,2,3,4-tetrahydro-8-hydroxychromeno[3,4-c]pyridin-5-one: a presumed dopamine D4 receptor ligand for SPECT studies. Nuclear Medicine and Biology, 2005, 32, 293-299.	0.6	4
74	Reduced respiratory motion artefact in constant TR multi-slice MRI of the mouse. Magnetic Resonance Imaging, 2019, 60, 1-6.	1.8	4
75	Electromagnetically Transparent Graphene Respiratory Sensors for Multimodal Small Animal Imaging. Advanced Healthcare Materials, 2020, 9, 2001222.	7.6	4
76	Improved detection of molecularly targeted iron oxide particles in mouse brain using B0 field stabilised high resolution MRI. Magnetic Resonance Imaging, 2020, 67, 101-108.	1.8	4
77	Improving In Vivo High-Resolution CT Imaging of the Tumour Vasculature in Xenograft Mouse Models through Reduction of Motion and Bone-Streak Artefacts. PLoS ONE, 2015, 10, e0128537.	2.5	4
78	Influence of sedation and data acquisition method on tracer uptake in animal models: [123I]-2-iodo-l-phenylalanine in pentobarbital-sedated tumor-bearing athymic mice. Nuclear Medicine and Biology, 2006, 33, 119-123.	0.6	3
79	Potential increase in radiationâ€induced DNA doubleâ€strand breaks with higher doses of iodine contrast during coronary CT angiography. Medical Physics, 2021, 48, 7526-7533.	3.0	3
80	Optimization by Experimental Design of Precursor Synthesis and Radiolabeling of 2-Iodo-L-Phenylalanine, a Novel Amino Acid for Tumor Imaging. Cancer Biotherapy and Radiopharmaceuticals, 2006, 21, 235-242.	1.0	2
81	USE OF [¹²³I]â€2â€IODOâ€<scp>L</scp>â€PHENYLALANINE AS A TUMOR IMAGING AGENT IN TWO DOGS WITH SYNOVIAL CELL SARCOMA. Veterinary Radiology and Ultrasound, 2007, 48, 471-474.	0.9	2
82	The Use of [¹²³I]-2-Iodo-L-Phenylalanine as an Early Radiotherapy Evaluation Tool: In Vitro R1M Rabdomyosarcoma Cell and In Vivo Mouse Experiments. Cancer Biotherapy and Radiopharmaceuticals, 2008, 23, 192-201.	1.0	2
83	Filling Large Discontinuities in 3D Vascular Networks Using Skeleton- and Intensity-Based Information. Lecture Notes in Computer Science, 2015, , 157-164.	1.3	2
84	A simple, open and extensible gating Control unit for cardiac and respiratory synchronisation control in small animal MRI and demonstration of its robust performance in steady-state maintained CINE-MRI. Magnetic Resonance Imaging, 2021, 81, 1-9.	1.8	2
85	Editorial [Hot topic:Targeted Molecular Radiotherapy (Guest Editor: Veerle Kersemans)]. Current Drug Discovery Technologies, 2010, 7, 232-232.	1.2	1
86	Anti-CD20 therapy down-regulates lesion formation and microglial activation in pattern I and pattern II rat models of multiple sclerosis. Journal of Neuroimmunology, 2014, 275, 1-2.	2.3	1
87	A DCE-MRI imaging-based model for simulation of vascular tumour growth. , 2016, 2016, 5949-5952.		1
88	Manganese-free chow, a refined non-invasive solution to reduce gastrointestinal signal for T1-weighted magnetic resonance imaging of the mouse abdomen. Laboratory Animals, 2020, 54, 353-364.	1.0	1
89	A System-Agnostic, Adaptable and Extensible Animal Support Cradle System for Cardio-Respiratory-Synchronised, and Other, Multi-Modal Imaging of Small Animals. Tomography, 2021, 7, 39-54.	1.8	1
90	Abstract 5771: Molecular radiation therapy: Targeting DNA damage response proteins. Cancer Research, 2010, 70, 5771-5771.	0.9	1

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91	Abstract 4929: Radiolabeled cCPE for molecular imaging of tight junction changes during breast oncogenesis. , 2014, , .		1
92	Tumor Growth Estimation via Registration of DCE-MRI Derived Tumor Specific Descriptors. , 2016, , .		0
93	Imaging of Instracellular Targets. Imaging in Medical Diagnosis and Therapy, 2016, , 487-508.	0.0	0
94	Imaging of Cell Trafficking and Cell Tissue Homing. Imaging in Medical Diagnosis and Therapy, 2016, , 509-525.	0.0	0
95	Abstract 2463: Protease nexin 1 modulates prostate adenocarcinoma by regulating the Hedgehog pathway in humans and mice. , 2012, , .		0
96	Abstract 1062: Imaging DNA damage response (DDR) during oncogenesis.. , 2013, , .		0
97	Abstract 1087: Accumulation of CD11b+ Gr1 myeloid cells in liver metastases stimulates tumor growth and angiogenesis. , 2014, , .		0
98	Imaging of Intracellular Targets. , 2018, , 487-508.		0