Sean C Smart

List of Publications by Year
in descending order

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52	1,194	394421	414414
papers	citations	19 h-index	32 g-index

52	52	52	2549
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Orally administered oxygen nanobubbles enhance tumor response to sonodynamic therapy. Nano Select, 2022, 3, 394-401.	3.7	9
2	Determination of oxygen relaxivity in oxygen nanobubbles at 3 and 7ÂTesla. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, , 1.	2.0	1
3	Microbubbles Containing Lysolipid Enhance Ultrasoundâ€Mediated Bloodâ€“Brain Barrier Breakdown In Vivo. Advanced Healthcare Materials, 2021, 10, e2001343.	7.6	8
4	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
5	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
6	Ultrasound-Mediated Gemcitabine Delivery Reduces the Normal-Tissue Toxicity of Chemoradiation Therapy in a Muscle-Invasive Bladder Cancer Model. International Journal of Radiation Oncology Biology Physics, 2021, 109, 1472-1482.	0.8	8
7	Endothelial IGFâ€1 receptor mediates crosstalk with the gut wall to regulate microbiota in obesity. EMBO Reports, 2021, 22, e50767.	4.5	7
8	Tumour irradiation combined with vascular-targeted photodynamic therapy enhances antitumour effects in pre-clinical prostate cancer. British Journal of Cancer, 2021, 125, 534-546.	6.4	8
9	Irradiation at Ultra-High (FLASH) Dose Rates Reduces Acute Normal Tissue Toxicity in the Mouse Gastrointestinal System. International Journal of Radiation Oncology Biology Physics, 2021, 111, 1250-1261.	0.8	53
10	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
11	Combining sonodynamic therapy with chemoradiation for the treatment of pancreatic cancer. Journal of Controlled Release, 2021, 337, 371-377.	9.9	21
12	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
13	Imaging of translocator protein upregulation is selective for proâ€inflammatory polarized astrocytes and microglia. Glia, 2020, 68, 280-297.	4.9	85
14	Imaging DNA Damage Repair In Vivo After ¹⁷⁷Lu-DOTATATE Therapy. Journal of Nuclear Medicine, 2020, 61, 743-750.	5.0	33
15	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
16	Enhanced antitumor immunity through sequential targeting of PI3KÎ´ and LAG3. , 2020, 8, e000693.		22
17	Electromagnetically Transparent Graphene Respiratory Sensors for Multimodal Small Animal Imaging. Advanced Healthcare Materials, 2020, 9, 2001222.	7.6	4
18	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

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19	The Histone Deacetylase Inhibitor Romidepsin Spares Normal Tissues While Acting as an Effective Radiosensitizer in Bladder TumorsÂinÂVivo. International Journal of Radiation Oncology Biology Physics, 2020, 107, 212-221.	0.8	22
20	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
21	Tumor pH and Protein Concentration Contribute to the Signal of Amide Proton Transfer Magnetic Resonance Imaging. Cancer Research, 2019, 79, 1343-1352.	0.9	52
22	Cardio-Respiratory synchronized bSSFP MRI for high throughput in vivo lung tumour quantification. PLoS ONE, 2019, 14, e0212172.	2.5	7
23	Tumor Imaging Using Radiolabeled Matrix Metalloproteinaseâ€“Activated Anthrax Proteins. Journal of Nuclear Medicine, 2019, 60, 1474-1482.	5.0	6
24	Reduced respiratory motion artefact in constant TR multi-slice MRI of the mouse. Magnetic Resonance Imaging, 2019, 60, 1-6.	1.8	4
25	Dual-isotope imaging allows in vivo immunohistochemistry using radiolabelled antibodies in tumours. Nuclear Medicine and Biology, 2019, 70, 14-22.	0.6	20
26	Magnetic resonance imaging of oxygen microbubbles. Healthcare Technology Letters, 2019, 6, 138-142.	3.3	1
27	PET Imaging of PARP Expression Using ¹⁸F-Olaparib. Journal of Nuclear Medicine, 2019, 60, 504-510.	5.0	69
28	Aspirin blocks formation of metastatic intravascular niches by inhibiting platelet-derived COX-1/thromboxane A2. Journal of Clinical Investigation, 2019, 129, 1845-1862.	8.2	136
29	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
30	Refinement of inÂvivo optical imaging: Development of a real-time respiration monitoring system. Laboratory Animals, 2018, 52, 531-535.	1.0	5
31	¹⁸F-Trifluoromethylation of Unmodified Peptides with 5-¹⁸F-(Trifluoromethyl)dibenzothiophenium Trifluoromethanesulfonate. Journal of the American Chemical Society, 2018, 140, 1572-1575.	13.7	76
32	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
33	Choice of reference measurements affects quantification of long diffusion time behaviour using stimulated echoes. Magnetic Resonance in Medicine, 2018, 79, 952-959.	3.0	3
34	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
35	Magnetic Resonance Imaging of the Regenerating Neonatal Mouse Heart. Circulation, 2018, 138, 2439-2441.	1.6	8
36	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

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37	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
38	Gemcitabine-Induced TIMP1 Attenuates Therapy Response and Promotes Tumor Growth and Liver Metastasis in Pancreatic Cancer. Cancer Research, 2017, 77, 5952-5962.	0.9	50
39	Automated MicroSPECT/MicroCT Image Analysis of the Mouse Thyroid Gland. Thyroid, 2017, 27, 1433-1440.	4.5	1
40	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
41	Electrically tunable fluidic lens imaging system for laparoscopic fluorescence-guided surgery. Biomedical Optics Express, 2017, 8, 3232.	2.9	21
42	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
43	An MRI-Compatible High Frequency AC Resistive Heating System for Homeothermic Maintenance in Small Animals. PLoS ONE, 2016, 11, e0164920.	2.5	10
44	Tumor Growth Estimation via Registration of DCE-MRI Derived Tumor Specific Descriptors. , 2016, , .		0
45	Robust and high resolution hyperpolarized metabolic imaging of the rat heart at 7 t with 3d spectralâ€spatial EPI. Magnetic Resonance in Medicine, 2016, 75, 1515-1524.	3.0	48
46	Low dose angiostatic treatment counteracts radiotherapy-induced tumor perfusion and enhances the anti-tumor effect. Oncotarget, 2016, 7, 76613-76627.	1.8	27
47	Cd11b+ myeloid cells support hepatic metastasis through downâ€regulation of angiopoietinâ€like 7 in cancer cells. Hepatology, 2015, 62, 521-533.	7.3	45
48	Molecular Magnetic Resonance Imaging of Angiogenesis In Vivo using Polyvalent Cyclic RGD-Iron Oxide Microparticle Conjugates. Theranostics, 2015, 5, 515-529.	10.0	54
49	The pH low insertion peptide pHLIP Variant 3 as a novel marker of acidic malignant lesions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9710-9715.	7.1	54
50	A resistive heating system for homeothermic maintenance in small animals. Magnetic Resonance Imaging, 2015, 33, 847-851.	1.8	18
51	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
52	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