Jan Grimm

List of Publications by Year
in descending order

84 papers	7,595 citations	87888 38 h-index	58581 82 g-index
94 all docs	94 docs citations	94 times ranked	11737 citing authors

#	Article	IF	Citations
1	Restoration of p53 function leads to tumour regression in vivo. Nature, 2007, 445, 661-665.	27.8	1,662
2	An X-ray computed tomography imaging agent based on long-circulating bismuth sulphide nanoparticles. Nature Materials, 2006, 5, 118-122.	27.5	850
3	Noninvasive cell-tracking methods. Nature Reviews Clinical Oncology, 2011, 8, 677-688.	27.6	439
4	Drug/Dyeâ€Loaded, Multifunctional Iron Oxide Nanoparticles for Combined Targeted Cancer Therapy and Dual Optical/Magnetic Resonance Imaging. Small, 2009, 5, 1862-1868.	10.0	343
5	Cerenkov Luminescence Imaging of Medical Isotopes. Journal of Nuclear Medicine, 2010, 51, 1123-1130.	5.0	279
6	A spatially and temporally restricted mouse model of soft tissue sarcoma. Nature Medicine, 2007, 13, 992-997.	30.7	274
7	FDA-approved ferumoxytol displays anti-leukaemia efficacy against cells with low ferroportin levels. Nature Nanotechnology, 2019, 14, 616-622.	31.5	199
8	Nanoparticles for Imaging: Top or Flop?. Radiology, 2014, 273, 10-28.	7.3	195
9	Novel Nanosensors for Rapid Analysis of Telomerase Activity. Cancer Research, 2004, 64, 639-643.	0.9	162
10	Utilizing the power of Cerenkov light with nanotechnology. Nature Nanotechnology, 2017, 12, 106-117.	31.5	156
11	Clinical Cerenkov Luminescence Imaging of¹⁸F-FDG. Journal of Nuclear Medicine, 2014, 55, 95-98.	5.0	148
12	Non-invasive mapping of deep-tissue lymph nodes in live animals using a multimodal PET/MRI nanoparticle. Nature Communications, 2014, 5, 3097.	12.8	139
13	Quantitative imaging of disease signatures through radioactive decay signal conversion. Nature Medicine, 2013, 19, 1345-1350.	30.7	138
14	Use of gene expression profiling to direct <i>in vivo</i> molecular imaging of lung cancer. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14404-14409.	7.1	133
15	Prostate-specific membrane antigen cleavage of vitamin B9 stimulates oncogenic signaling through metabotropic glutamate receptors. Journal of Experimental Medicine, 2018, 215, 159-175.	8.5	121
16	<i>In vivo</i> imaging of T cell delivery to tumors after adoptive transfer therapy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12457-12461.	7.1	113
17	Gadolinium-Encapsulating Iron Oxide Nanoprobe as Activatable NMR/MRI Contrast Agent. ACS Nano, 2012, 6, 7281-7294.	14.6	108
18	The ancillary effects of nanoparticles and their implications for nanomedicine. Nature Nanotechnology, 2021, 16, 1180-1194.	31.5	108

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19	Tracking the Recruitment of Diabetogenic CD8+ T-Cells to the Pancreas in Real Time. Diabetes, 2004, 53, 1459-1466.	0.6	107
20	Metabolic biotinylation of cell surface receptors for in vivo imaging. Nature Methods, 2006, 3, 391-396.	19.0	105
21	Noninvasive In Vivo Imaging of Monocyte Trafficking to Atherosclerotic Lesions. Circulation, 2008, 117, 388-395.	1.6	103
22	Silica Nanoparticles as Substrates for Chelator-free Labeling of Oxophilic Radioisotopes. Nano Letters, 2015, 15, 864-868.	9.1	102
23	Cerenkov imaging - a new modality for molecular imaging. American Journal of Nuclear Medicine and Molecular Imaging, 2012, 2, 163-73.	1.0	94
24	Environment-responsive nanophores for therapy and treatment monitoring via molecular MRI quenching. Nature Communications, 2014, 5, 3384.	12.8	92
25	High-resolution optoacoustic imaging of tissue responses to vascular-targeted therapies. Nature Biomedical Engineering, 2020, 4, 286-297.	22.5	92
26	Nanoparticles as multimodal photon transducers of ionizing radiation. Nature Nanotechnology, 2018, 13, 418-426.	31.5	61
27	Cerenkov Imaging. Advances in Cancer Research, 2014, 124, 213-234.	5.0	59
28	PSMA-Targeted Theranostic Nanocarrier for Prostate Cancer. Theranostics, 2017, 7, 2477-2494.	10.0	59
29	Intraoperative imaging of positron emission tomographic radiotracers using Cerenkov luminescence emissions. Molecular Imaging, 2011, 10, 177-86, 1-3.	1.4	58
30	Targeting the Internal Epitope of Prostate-Specific Membrane Antigen with ⁸⁹Zr-7E11 Immuno-PET. Journal of Nuclear Medicine, 2011, 52, 1608-1615.	5.0	56
31	Positron Lymphography: Multimodal, High-Resolution, Dynamic Mapping and Resection of Lymph Nodes After Intradermal Injection of ¹⁸F-FDG. Journal of Nuclear Medicine, 2012, 53, 1438-1445.	5.0	55
32	Intraoperative Imaging of Positron Emission Tomographic Radiotracers Using Cerenkov Luminescence Emissions. Molecular Imaging, 2011, 10, 7290.2010.00047.	1.4	53
33	Lymph Node Micrometastases and In-Transit Metastases from Melanoma: In Vivo Detection with Multispectral Optoacoustic Imaging in a Mouse Model. Radiology, 2016, 280, 137-150.	7.3	52
34	Stable Radiolabeling of Sulfur-Functionalized Silica Nanoparticles with Copper-64. Nano Letters, 2016, 16, 5601-5604.	9.1	51
35	Nanoparticles and radiotracers: advances toward radionanomedicine. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 872-890.	6.1	51
36	Intraoperative Imaging of Positron Emission Tomographic Radiotracers Using Cerenkov Luminescence Emissions. Molecular Imaging, 2011, 10, 7290.2010.00047.	1.4	44

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37	Will Nanotechnology Influence Targeted Cancer Therapy?. Seminars in Radiation Oncology, 2011, 21, 80-87.	2.2	41
38	Cerenkov Luminescence Imaging for Radiation Dose Calculation of a ⁹⁰Y-Labeled Gastrin-Releasing Peptide Receptor Antagonist. Journal of Nuclear Medicine, 2015, 56, 805-811.	5.0	39
39	Integrated Nanosensors to Determine Levels and Functional Activity of Human Telomerase. Neoplasia, 2008, 10, 1066-1072.	5.3	35
40	Near-Infrared Quantum Dot and ⁸⁹Zr Dual-Labeled Nanoparticles for <i>in Vivo</i> Cerenkov Imaging. Bioconjugate Chemistry, 2017, 28, 600-608.	3.6	33
41	Innovations in Nuclear Imaging Instrumentation: Cerenkov Imaging. Seminars in Nuclear Medicine, 2018, 48, 359-366.	4.6	32
42	Advances in the clinical translation of nanotechnology. Current Opinion in Biotechnology, 2017, 46, 66-73.	6.6	30
43	Molecular Imaging Using Nanoparticle Quenchers of Cerenkov Luminescence. Small, 2014, 10, 3729-3734.	10.0	28
44	Biomedical Applications of Lanthanide Nanomaterials, for Imaging, Sensing and Therapy. Nanotheranostics, 2022, 6, 184-194.	5.2	27
45	Optical Imaging of Ionizing Radiation from Clinical Sources. Journal of Nuclear Medicine, 2016, 57, 1661-1666.	5.0	26
46	Multifunctional MRI/PET Nanobeacons Derived from the in Situ Self-Assembly of Translational Polymers and Clinical Cargo through Coalescent Intermolecular Forces. Nano Letters, 2015, 15, 8032-8043.	9.1	25
47	Design and Synthesis of New Sulfur-Containing Hyperbranched Polymer and Theranostic Nanomaterials for Bimodal Imaging and Treatment of Cancer. ACS Macro Letters, 2017, 6, 235-240.	4.8	25
48	Sonophore-enhanced nanoemulsions for optoacoustic imaging of cancer. Chemical Science, 2018, 9, 5646-5657.	7.4	25
49	Sonophore labeled RGD: a targeted contrast agent for optoacoustic imaging. Photoacoustics, 2017, 6, 1-8.	7.8	23
50	Dawn of Advanced Molecular Medicine: Nanotechnological Advancements in Cancer Imaging and Therapy. Critical Reviews in Oncogenesis, 2014, 19, 143-176.	0.4	22
51	Prospective testing of clinical Cerenkov luminescence imaging against standard-of-care nuclear imaging for tumour location. Nature Biomedical Engineering, 2022, 6, 559-568.	22.5	21
52	Ultrasmall Downconverting Nanoparticle for Enhanced Cerenkov Imaging. Nano Letters, 2021, 21, 4217-4224.	9.1	18
53	Clinical applications in molecular imaging. Pediatric Radiology, 2011, 41, 199-207.	2.0	17
54	Cerenkov-Activated Sticky Tag for In Vivo Fluorescence Imaging. Journal of Nuclear Medicine, 2018, 59, 58-65.	5.0	17

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55	From Genomics to Clinical Molecular Imaging. Proceedings of the IEEE, 2005, 93, 819-828.	21.3	16
56	Molecular imaging of prostate cancer: translating molecular biology approaches into the clinical realm. European Radiology, 2015, 25, 1294-1302.	4.5	16
57	Acid specific dark quencher QC1 pHLIP for multi-spectral optoacoustic diagnoses of breast cancer. Scientific Reports, 2019, 9, 8550.	3.3	16
58	Targetable Clinical Nanoparticles for Precision Cancer Therapy Based on Disease-Specific Molecular Inflection Points. Nano Letters, 2017, 17, 7160-7168.	9.1	15
59	Identification of alternative protein targets of glutamate-ureido-lysine associated with PSMA tracer uptake in prostate cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	13
60	Characterization of Ultrasmall, Paramagnetic Magnetite Particles as Superparamagnetic Contrast Agents in MRI. Investigative Radiology, 2000, 35, 553-556.	6.2	12
61	Photoactivatable Prodrug of Doxazolidine Targeting Exosomes. Journal of Medicinal Chemistry, 2019, 62, 1959-1970.	6.4	12
62	<i>Quo Vadis,</i> Molecular Imaging?. Journal of Nuclear Medicine, 2020, 61, 1428-1434.	5.0	9
63	Therapy from within. Nature Nanotechnology, 2015, 10, 299-300.	31.5	8
64	Radiation-Responsive Esculin-Derived Molecular Gels as Signal Enhancers for Optical Imaging. ACS Applied Materials & Interfaces, 2017, 9, 43197-43204.	8.0	8
65	Dynamic ¹⁸F-FDG PET Lymphography for In Vivo Identification of Lymph Node Metastases in Murine Melanoma. Journal of Nuclear Medicine, 2018, 59, 210-215.	5.0	8
66	Positron Lymphography via Intracervical ¹⁸F-FDG Injection for Presurgical Lymphatic Mapping in Cervical and Endometrial Malignancies. Journal of Nuclear Medicine, 2020, 61, 1123-1130.	5.0	8
67	Detection of Shortwave-Infrared Cerenkov Luminescence from Medical Isotopes. Journal of Nuclear Medicine, 2023, 64, 177-182.	5.0	8
68	Enzymatically Activatable Diagnostic Probes. Current Pharmaceutical Biotechnology, 2012, 13, 523-536.	1.6	7
69	Optoacoustic Imaging of Glucagon-like Peptide-1 Receptor with a Near-Infrared Exendin-4 Analog. Journal of Nuclear Medicine, 2021, 62, 839-848.	5.0	7
70	Cerenkov Luminescence Imaging. , 2015, , 107-120.		6
71	A Review of Recent and Emerging Approaches for the Clinical Application of Cerenkov Luminescence Imaging. Frontiers in Physics, 2021, 9, .	2.1	6
72	Nearâ€Infrared Intraoperative Chemiluminescence Imaging. ChemMedChem, 2016, 11, 1978-1982.	3.2	5

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73	High-resolution Cherenkov tomography in vivo. Nature Biomedical Engineering, 2018, 2, 205-206.	22.5	5
74	Synthesis of the PET Tracer ¹²⁴I-Trametinib for MAPK/ERK Kinase Distribution and Resistance Monitoring. Journal of Nuclear Medicine, 2020, 61, 1845-1850.	5.0	5
75	Positron Emission Tomography/Computed Tomography with Gallium-68â€“labeled Prostate-specific Membrane Antigen Detects Relapse After Vascular-targeted Photodynamic Therapy in a Prostate Cancer Model. European Urology Focus, 2021, 7, 472-478.	3.1	4
76	Exploiting the MUC5AC Antigen for Noninvasive Identification of Pancreatic Cancer. Journal of Nuclear Medicine, 2021, 62, 1384-1390.	5.0	4
77	The Present and Future of Optical Imaging Technologies in the Clinic: Diagnosis and Therapy. Topics in Medicinal Chemistry, 2019, , 203-223.	0.8	1
78	Fluorescence Triggered by Radioactive Î² Decay in Optimized Hyperbolic Cavities. Physical Review Applied, 2020, 14, .	3.8	1
79	Cerenkov Imaging. , 2021, , 383-395.		1
80	Electric boost of MRI contrast for epileptic foci. Nature Biomedical Engineering, 2021, 5, 199-200.	22.5	1
81	Imaging in urology â€“ looking forward. Current Opinion in Urology, 2008, 18, 61-64.	1.8	0
82	Developing Probes for Molecular Imaging. Medical Radiology, 2012, , 931-940.	0.1	0
83	Reply: Human Cerenkov Imaging Using ¹⁸F-FDG. Journal of Nuclear Medicine, 2014, 55, 523.2-524.	5.0	0
84	Molecular Imaging and Molecular Imaging Technologies. , 2018, , 3-27.		0