Frank Nijsen

List of Publications by Year in descending order

81 papers	3,749 citations	126708 33 h-index	128067 60 g-index
82 all docs	82 docs citations	82 times ranked	4025 citing authors

#	Article	IF	Citations
1	Study Protocol: Adjuvant Holmium-166 Radioembolization After Radiofrequency Ablation in Early-Stage Hepatocellular Carcinoma Patientsâ€"A Dose-Finding Study (HORA EST HCC Trial). CardioVascular and Interventional Radiology, 2022, 45, 1057-1063.	0.9	4
2	Intraprocedural MRI-based dosimetry during transarterial radioembolization of liver tumours with holmium-166 microspheres (EMERITUS-1): a phase I trial towards adaptive, image-controlled treatment delivery. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 4705-4715.	3.3	2
3	Quantitative dual-energy CT material decomposition of holmium microspheres: local concentration determination evaluated in phantoms and a rabbit tumor model. European Radiology, 2021, 31, 139-148.	2.3	4
4	To 1000ÂGy and back again: a systematic review on dose-response evaluation in selective internal radiation therapy for primary and secondary liver cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 3776-3790.	3.3	25
5	Dedicated holmium microsphere administration device for MRI-guided interstitial brain microbrachytherapy. Medical Engineering and Physics, 2021, 96, 13-21.	0.8	1
6	Development of an MRI-Guided Approach to Selective Internal Radiation Therapy Using Holmium-166 Microspheres. Cancers, 2021, 13, 5462.	1.7	4
7	Case Report: Radioactive Holmium-166 Microspheres for the Intratumoral Treatment of a Canine Pituitary Tumor. Frontiers in Veterinary Science, 2021, 8, 748247.	0.9	2
8	Preparation and characterization of inorganic radioactive holmium-166 microspheres for internal radionuclide therapy. Materials Science and Engineering C, 2020, 106, 110244.	3.8	9
9	Characterization of holmium(<scp>iii</scp>)-acetylacetonate complexes derived from therapeutic microspheres by infrared ion spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 15716-15722.	1.3	5
10	The various therapeutic applications of the medical isotope holmium-166: a narrative review. EJNMMI Radiopharmacy and Chemistry, 2019, 4, 19.	1.8	60
11	Intratumoral injection of radioactive holmium-166 microspheres in recurrent head and neck squamous cell carcinoma. Nuclear Medicine Communications, 2018, 39, 213-221.	0.5	23
12	Production of novel diagnostic radionuclides in small medical cyclotrons. EJNMMI Radiopharmacy and Chemistry, 2018, 3, 3.	1.8	70
13	Intratumoral injection of radioactive holmium (<scp>¹⁶⁶Ho</scp>) microspheres for treatment of oral squamous cell carcinoma in cats. Veterinary and Comparative Oncology, 2018, 16, 114-124.	0.8	22
14	Efficacy of Radioembolization with ¹⁶⁶Ho-Microspheres in Salvage Patients with Liver Metastases: A Phase 2 Study. Journal of Nuclear Medicine, 2018, 59, 582-588.	2.8	77
15	Radioactive holmium phosphate microspheres for cancer treatment. International Journal of Pharmaceutics, 2018, 548, 73-81.	2.6	18
16	Intratumoral treatment with radioactive beta-emitting microparticles: a systematic review. Journal of Radiation Oncology, 2017, 6, 323-341.	0.7	23
17	Simultaneous R₂*, R₂, and R₂â€² quantification by combining S₀ estimation of the free induction decay with a single spin echo: A single acquisition method for R₂ insensitive quantification of holmiumâ€166â€"loaded microspheres. Magnetic Resonance in Medicine, 2015, 73, 273-283.	1.9	6
18	Alginate Microspheres Containing Temperature Sensitive Liposomes (TSL) for MR-Guided Embolization and Triggered Release of Doxorubicin. PLoS ONE, 2015, 10, e0141626.	1.1	25

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19	Radioembolization Dosimetry: The Road Ahead. CardioVascular and Interventional Radiology, 2015, 38, 261-269.	0.9	36
20	Alginate microgels loaded with temperature sensitive liposomes for magnetic resonance imageable drug release and microgel visualization. European Polymer Journal, 2015, 72, 620-631.	2.6	20
21	Holmiumâ€“lipiodolâ€“alginate microspheres for fluoroscopy-guided embolotherapy and multimodality imaging. International Journal of Pharmaceutics, 2015, 482, 47-53.	2.6	13
22	Radiation Emission from Patients Treated with Holmium-166 Radioembolization. Journal of Vascular and Interventional Radiology, 2014, 25, 1956-1963.e1.	0.2	18
23	99mTc-MAA overestimates the absorbed dose to the lungs in radioembolization: a quantitative evaluation in patients treated with 166Ho-microspheres. European Journal of Nuclear Medicine and Molecular Imaging, 2014, 41, 1965-1975.	3.3	106
24	New Insights into the HIFU-Triggered Release from Polymeric Micelles. Langmuir, 2013, 29, 9483-9490.	1.6	17
25	MRI-based biodistribution assessment of holmium-166 poly(L-lactic acid) microspheres after radioembolisation. European Radiology, 2013, 23, 827-835.	2.3	64
26	Intra-arterial radioembolization of breast cancer liver metastases: A structured review. European Journal of Pharmacology, 2013, 709, 37-42.	1.7	20
27	The necessity of nuclear reactors for targeted radionuclide therapies. Trends in Biotechnology, 2013, 31, 390-396.	4.9	17
28	Alginateâ€“lanthanide microspheres for MRI-guided embolotherapy. Acta Biomaterialia, 2013, 9, 4681-4687.	4.1	28
29	Microbrachytherapy using holmium-166 acetylacetonate microspheres: A pilot study in a spontaneous cancer animal model. Brachytherapy, 2013, 12, 171-177.	0.2	12
30	Evidence for a new mechanism behind HIFU-triggered release from liposomes. Journal of Controlled Release, 2013, 168, 327-333.	4.8	56
31	^{99m}Tc-Macroaggregated Albumin Poorly Predicts the Intrahepatic Distribution of ⁹⁰Y Resin Microspheres in Hepatic Radioembolization. Journal of Nuclear Medicine, 2013, 54, 1294-1301.	2.8	192
32	In Vivo Dosimetry Based on SPECT and MR Imaging of¹⁶⁶Ho-Microspheres for Treatment of Liver Malignancies. Journal of Nuclear Medicine, 2013, 54, 2093-2100.	2.8	65
33	Quantitative Monte Carloâ€based holmiumâ€166 SPECT reconstruction. Medical Physics, 2013, 40, 112502.	1.6	38
34	Intratumoral Administration of Holmium-166 Acetylacetonate Microspheres: Antitumor Efficacy and Feasibility of Multimodality Imaging in Renal Cancer. PLoS ONE, 2013, 8, e52178.	1.1	29
35	Clinical and Laboratory Toxicity after Intra-Arterial Radioembolization with 90Y-Microspheres for Unresectable Liver Metastases. PLoS ONE, 2013, 8, e69448.	1.1	16
36	The evolution of radioembolisation. Lancet Oncology, The, 2012, 13, e519.	5.1	3

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37	Magnetic Resonance Imaging-Based Radiation-Absorbed Dose Estimation of 166Ho Microspheres in Liver Radioembolization. International Journal of Radiation Oncology Biology Physics, 2012, 83, e437-e444.	0.4	26
38	Transendocardial cell injection is not superior to intracoronary infusion in a porcine model of ischaemic cardiomyopathy: a study on delivery efficiency. Journal of Cellular and Molecular Medicine, 2012, 16, 2768-2776.	1.6	50
39	Holmium-166 radioembolisation in patients with unresectable, chemorefractory liver metastases (HEPAR trial): a phase 1, dose-escalation study. Lancet Oncology, The, 2012, 13, 1025-1034.	5.1	150
40	Radioactive Holmium Acetylacetonate Microspheres for Interstitial Microbrachytherapy: An In Vitro and In Vivo Stability Study. Pharmaceutical Research, 2012, 29, 827-836.	1.7	19
41	A novel approach to identify non-palpable breast lesions combining fluorescent liposomes and magnetic resonance-guided high intensity focused ultrasound-triggered release. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 77, 458-464.	2.0	7
42	Technical Solutions to Ensure Safe Yttrium-90 Radioembolization in Patients With Initial Extrahepatic Deposition of 99mTechnetiumâ€“Albumin Macroaggregates. CardioVascular and Interventional Radiology, 2011, 34, 1074-1079.	0.9	22
43	Quantitative Evaluation of Scintillation Camera Imaging Characteristics of Isotopes Used in Liver Radioembolization. PLoS ONE, 2011, 6, e26174.	1.1	65
44	Holmium-166 poly(L-lactic acid) microsphere radioembolisation of the liver: technical aspects studied in a large animal model. European Radiology, 2010, 20, 862-869.	2.3	40
45	Holmium Nanoparticles: Preparation and In Vitro Characterization of a New Device for Radioablation of Solid Malignancies. Pharmaceutical Research, 2010, 27, 2205-2212.	1.7	28
46	Polymeric Micelles in Anticancer Therapy: Targeting, Imaging and Triggered Release. Pharmaceutical Research, 2010, 27, 2569-2589.	1.7	791
47	Radioembolization for colorectal liver metastases. Nature Reviews Clinical Oncology, 2010, 7, 1-1.	12.5	1
48	72 INTRATUMORAL ADMINISTRATION OF HOLMIUM LOADED MICROSPHERES AS A NOVEL MINIMALLY INVASIVE THERAPY FOR KIDNEY CANCER; AN ANIMAL STUDY. Journal of Urology, 2010, 183, .	0.2	0
49	Holmium-166 radioembolization for the treatment of patients with liver metastases: design of the phase I HEPAR trial. Journal of Experimental and Clinical Cancer Research, 2010, 29, 70.	3.5	86
50	Microspheres for radioembolization of liver malignancies. Expert Review of Medical Devices, 2010, 7, 581-583.	1.4	5
51	Detection of Buried Microstructures by Nonlinear Light Scattering Spectroscopy. Physical Review Letters, 2009, 102, 095502.	2.9	36
52	Neutron activation of holmium poly(L-lactic acid) microspheres for hepatic arterial radioembolization: a validation study. Biomedical Microdevices, 2009, 11, 763-772.	1.4	36
53	Microspheres with Ultrahigh Holmium Content for Radioablation of Malignancies. Pharmaceutical Research, 2009, 26, 1371-1378.	1.7	23
54	Unilateral intracarotid injection of holmium microspheres to induce bilateral MRI-validated cerebral embolization in rats. Journal of Neuroscience Methods, 2009, 176, 152-156.	1.3	3

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55	Yttrium-90 microsphere radioembolization for the treatment of liver malignancies: a structured meta-analysis. European Radiology, 2009, 19, 951-959.	2.3	199
56	Clinical effects of transcatheter hepatic arterial embolization with holmium-166 poly(l-lactic acid) microspheres in healthy pigs. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 1259-1271.	3.3	46
57	FID sampling superior to spinâ€echo sampling for Tâ€based quantification of holmiumâ€loaded microspheres: Theory and experiment. Magnetic Resonance in Medicine, 2008, 60, 1466-1476.	1.9	18
58	Editorial [Hot Topic:Part-II Imaging and Treatment of Oncological Diseases (Guest Editor: J.F.W. Nijsen)]. Anti-Cancer Agents in Medicinal Chemistry, 2007, 7, 379-379.	0.9	1
59	Radionuclide Liver Cancer Therapies: From Concept to Current Clinical Status. Anti-Cancer Agents in Medicinal Chemistry, 2007, 7, 441-459.	0.9	43
60	Factors Affecting the Sensitivity and Detection Limits of MRI, CT, and SPECT for Multimodal Diagnostic and Therapeutic Agents. Anti-Cancer Agents in Medicinal Chemistry, 2007, 7, 317-334.	0.9	52
61	The Bright Future of Radionuclides for Cancer Therapy. Anti-Cancer Agents in Medicinal Chemistry, 2007, 7, 271-290.	0.9	32
62	Characterization of holmium loaded alginate microspheres for multimodality imaging and therapeutic applications. Journal of Biomedical Materials Research - Part A, 2007, 82A, 892-898.	2.1	33
63	Long-term toxicity of holmium-loaded poly(l-lactic acid) microspheres in rats. Biomaterials, 2007, 28, 4591-4599.	5.7	33
64	Lanthanide-Loaded Liposomes for Multimodality Imaging and Therapy. Cancer Biotherapy and Radiopharmaceuticals, 2006, 21, 520-527.	0.7	49
65	Holmium-Loaded Poly(l-lactic Acid) Microspheres:â€‰In Vitro Degradation Study. Biomacromolecules, 2006, 7, 2217-2223.	2.6	23
66	Hybrid scatter correction applied to quantitative holmium-166 SPECT. Physics in Medicine and Biology, 2006, 51, 4773-4787.	1.6	44
67	Production of GMP-grade radioactive holmium loaded poly(l-lactic acid) microspheres for clinical application. International Journal of Pharmaceutics, 2006, 311, 69-74.	2.6	49
68	Removal of chloroform from biodegradable therapeutic microspheres by radiolysis. International Journal of Pharmaceutics, 2006, 315, 67-74.	2.6	22
69	Fully MR-guided hepatic artery catheterization for selective drug delivery: A feasibility study in pigs. Journal of Magnetic Resonance Imaging, 2006, 23, 123-129.	1.9	34
70	Surface characteristics of holmium-loaded poly(l-lactic acid) microspheres. Biomaterials, 2005, 26, 925-932.	5.7	31
71	Internal radiation therapy of liver tumors: Qualitative and quantitative magnetic resonance imaging of the biodistribution of holmium-loaded microspheres in animal models. Magnetic Resonance in Medicine, 2005, 53, 76-84.	1.9	50
72	Lanthanide Bearing Microparticulate Systems for Multi-Modality Imaging and Targeted Therapy of Cancer. Anti-Cancer Agents in Medicinal Chemistry, 2005, 5, 303-313.	7.0	24

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73	Liver Tumors: MR Imaging of Radioactive Holmium Microspheresâ€"Phantom and Rabbit Study. Radiology, 2004, 231, 491-499.	3.6	65
74	Advances in Nuclear Oncology: Microspheres for Internal Radionuclide Therapy of Liver Tumours. Current Medicinal Chemistry, 2002, 9, 73-82.	1.2	74
75	Influence of neutron irradiation on holmium acetylacetonate loaded poly(l-lactic acid) microspheres. Biomaterials, 2002, 23, 1831-1839.	5.7	42
76	Tumour embolization of the Vx2 rabbit head and neck cancer model with Dextran hydrogel and Holmium-poly(L-lactic acid) microspheres: a radionuclide and histological pilot study. Journal of Cranio-Maxillo-Facial Surgery, 2001, 29, 289-297.	0.7	14
77	Targeting of liver tumour in rats by selective delivery of holmium-166 loaded microspheres: a biodistribution study. European Journal of Nuclear Medicine and Molecular Imaging, 2001, 28, 743-749.	2.2	52
78	Intra-arterial embolization of head-and-neck cancer with radioactive holmium-166 poly(L-lactic acid) microspheres: an experimental study in rabbits. International Journal of Oral and Maxillofacial Surgery, 2001, 30, 407-413.	0.7	21
79	Characterization of poly(l-lactic acid) microspheres loaded with holmium acetylacetonate. Biomaterials, 2001, 22, 3073-3081.	5.7	53
80	Diaquatris(pentane-2,4-dionato-O,Oâ€²)holmium(III) monohydrate and diaquatris(pentane-2,4-dionato-O,Oâ€²)holmium(III) 4-hydroxypentan-2-one solvate dihydrate. Acta Crystallographica Section C: Crystal Structure Communications, 2000, 56, 156-158.	0.4	15
81	Holmium-166 poly lactic acid microspheres applicable for intra-arterial radionuclide therapy of hepatic malignancies: effects of preparation and neutron activation techniques. European Journal of Nuclear Medicine and Molecular Imaging, 1999, 26, 699-704.	3.3	112