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	Polymeric Micelles in Anticancer Therapy: Targeting, Imaging and Triggered Release. Pharmaceutical Research, 2010, 27, 2569-2589.	1.7	791
2	Yttrium-90 microsphere radioembolization for the treatment of liver malignancies: a structured meta-analysis. European Radiology, 2009, 19, 951-959.	2.3	199
3	^{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
4	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
5	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
6	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
7	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
8	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
9	Advances in Nuclear Oncology: Microspheres for Internal Radionuclide Therapy of Liver Tumours. Current Medicinal Chemistry, 2002, 9, 73-82.	1.2	74
10	Production of novel diagnostic radionuclides in small medical cyclotrons. EJNMMI Radiopharmacy and Chemistry, 2018, 3, 3.	1.8	70
11	Liver Tumors: MR Imaging of Radioactive Holmium Microspheresâ€"Phantom and Rabbit Study. Radiology, 2004, 231, 491-499.	3.6	65
12	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
13	Quantitative Evaluation of Scintillation Camera Imaging Characteristics of Isotopes Used in Liver Radioembolization. PLoS ONE, 2011, 6, e26174.	1.1	65
14	MRI-based biodistribution assessment of holmium-166 poly(L-lactic acid) microspheres after radioembolisation. European Radiology, 2013, 23, 827-835.	2.3	64
15	The various therapeutic applications of the medical isotope holmium-166: a narrative review. EJNMMI Radiopharmacy and Chemistry, 2019, 4, 19.	1.8	60
16	Evidence for a new mechanism behind HIFU-triggered release from liposomes. Journal of Controlled Release, 2013, 168, 327-333.	4.8	56
17	Characterization of poly(l-lactic acid) microspheres loaded with holmium acetylacetonate. Biomaterials, 2001, 22, 3073-3081.	5.7	53
18	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

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19	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
20	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
21	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
22	Lanthanide-Loaded Liposomes for Multimodality Imaging and Therapy. Cancer Biotherapy and Radiopharmaceuticals, 2006, 21, 520-527.	0.7	49
23	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
24	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
25	Hybrid scatter correction applied to quantitative holmium-166 SPECT. Physics in Medicine and Biology, 2006, 51, 4773-4787.	1.6	44
26	Radionuclide Liver Cancer Therapies: From Concept to Current Clinical Status. Anti-Cancer Agents in Medicinal Chemistry, 2007, 7, 441-459.	0.9	43
27	Influence of neutron irradiation on holmium acetylacetonate loaded poly(l-lactic acid) microspheres. Biomaterials, 2002, 23, 1831-1839.	5.7	42
28	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
29	Quantitative Monte Carloâ€based holmiumâ€166 SPECT reconstruction. Medical Physics, 2013, 40, 112502.	1.6	38
30	Detection of Buried Microstructures by Nonlinear Light Scattering Spectroscopy. Physical Review Letters, 2009, 102, 095502.	2.9	36
31	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
32	Radioembolization Dosimetry: The Road Ahead. CardioVascular and Interventional Radiology, 2015, 38, 261-269.	0.9	36
33	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
34	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
35	Long-term toxicity of holmium-loaded poly(l-lactic acid) microspheres in rats. Biomaterials, 2007, 28, 4591-4599.	5.7	33
36	The Bright Future of Radionuclides for Cancer Therapy. Anti-Cancer Agents in Medicinal Chemistry, 2007, 7, 271-290.	0.9	32

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37	Surface characteristics of holmium-loaded poly(l-lactic acid) microspheres. Biomaterials, 2005, 26, 925-932.	5.7	31
38	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
39	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
40	Alginateâ€“lanthanide microspheres for MRI-guided embolotherapy. Acta Biomaterialia, 2013, 9, 4681-4687.	4.1	28
41	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
42	Alginate Microspheres Containing Temperature Sensitive Liposomes (TSL) for MR-Guided Embolization and Triggered Release of Doxorubicin. PLoS ONE, 2015, 10, e0141626.	1.1	25
43	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
44	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
45	Holmium-Loaded Poly(l-lactic Acid) Microspheres:â€‰ In Vitro Degradation Study. Biomacromolecules, 2006, 7, 2217-2223.	2.6	23
46	Microspheres with Ultrahigh Holmium Content for Radioablation of Malignancies. Pharmaceutical Research, 2009, 26, 1371-1378.	1.7	23
47	Intratumoral treatment with radioactive beta-emitting microparticles: a systematic review. Journal of Radiation Oncology, 2017, 6, 323-341.	0.7	23
48	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
49	Removal of chloroform from biodegradable therapeutic microspheres by radiolysis. International Journal of Pharmaceutics, 2006, 315, 67-74.	2.6	22
50	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
51	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
52	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
53	Intra-arterial radioembolization of breast cancer liver metastases: A structured review. European Journal of Pharmacology, 2013, 709, 37-42.	1.7	20
54	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

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55	Radioactive Holmium Acetylacetonate Microspheres for Interstitial Microbrachytherapy: An In Vitro and In Vivo Stability Study. Pharmaceutical Research, 2012, 29, 827-836.	1.7	19
56	FID sampling superior to spinâ€echo sampling for <i>T</i>â€based quantification of holmiumâ€loaded microspheres: Theory and experiment. Magnetic Resonance in Medicine, 2008, 60, 1466-1476.	1.9	18
57	Radiation Emission from Patients Treated with Holmium-166 Radioembolization. Journal of Vascular and Interventional Radiology, 2014, 25, 1956-1963.e1.	0.2	18
58	Radioactive holmium phosphate microspheres for cancer treatment. International Journal of Pharmaceutics, 2018, 548, 73-81.	2.6	18
59	New Insights into the HIFU-Triggered Release from Polymeric Micelles. Langmuir, 2013, 29, 9483-9490.	1.6	17
60	The necessity of nuclear reactors for targeted radionuclide therapies. Trends in Biotechnology, 2013, 31, 390-396.	4.9	17
61	Clinical and Laboratory Toxicity after Intra-Arterial Radioembolization with 90Y-Microspheres for Unresectable Liver Metastases. PLoS ONE, 2013, 8, e69448.	1.1	16
62	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
63	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
64	Holmiumâ€“lipiodolâ€“alginate microspheres for fluoroscopy-guided embolotherapy and multimodality imaging. International Journal of Pharmaceutics, 2015, 482, 47-53.	2.6	13
65	Microbrachytherapy using holmium-166 acetylacetonate microspheres: A pilot study in a spontaneous cancer animal model. Brachytherapy, 2013, 12, 171-177.	0.2	12
66	Preparation and characterization of inorganic radioactive holmium-166 microspheres for internal radionuclide therapy. Materials Science and Engineering C, 2020, 106, 110244.	3.8	9
67	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
68	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
69	Microspheres for radioembolization of liver malignancies. Expert Review of Medical Devices, 2010, 7, 581-583.	1.4	5
70	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
71	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
72	Development of an MRI-Guided Approach to Selective Internal Radiation Therapy Using Holmium-166 Microspheres. Cancers, 2021, 13, 5462.	1.7	4

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73	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
74	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
75	The evolution of radioembolisation. Lancet Oncology, The, 2012, 13, e519.	5.1	3
76	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
77	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
78	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
79	Radioembolization for colorectal liver metastases. Nature Reviews Clinical Oncology, 2010, 7, 1-1.	12.5	1
80	Dedicated holmium microsphere administration device for MRI-guided interstitial brain microbrachytherapy. Medical Engineering and Physics, 2021, 96, 13-21.	0.8	1
81	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