Johannes Crezee

List of Publications by Year in Descending Order

180 papers	4,697 citations	38 h-index	60 g-index
203 ext. papers	5,681 ext. citations	3.8 avg, IF	5.68 L-index

#	Paper	IF	Citations
180	Improving Prediction of the Potential Distribution Induced by Cylindrical Electrodes within a Homogeneous Rectangular Grid during Irreversible Electroporation. *Applied Sciences (Switzerland)*, **2022**, 12, 1471	2.6	1
179	The role of hyperthermia in the treatment of locally advanced cervical cancer: a comprehensive review.. *International Journal of Gynecological Cancer*, **2022**,	3.5	2
178	Adapt2Heat: treatment planning-assisted locoregional hyperthermia by on-line visualization, optimization and re-optimization of SAR and temperature distributions.. *International Journal of Hyperthermia*, **2022**, 39, 265-277	3.7	1
177	A randomized phase-II study of reirradiation and hyperthermia versus reirradiation and hyperthermia plus chemotherapy for locally recurrent breast cancer in previously irradiated area.. *Acta Oncologica*, **2022**, 1-8	3.2	0
176	Combined Use of wIRA and Microwave or Radiofrequency Hyperthermia **2022**, 97-106		
175	A scalable hyperthermic intravesical chemotherapy (HIVEC) setup for rat models of bladder cancer.. *Scientific Reports*, **2022**, 12, 7017	4.9	0
174	Fast Adaptive Temperature-Based Re-Optimization Strategies for On-Line Hot Spot Suppression during Locoregional Hyperthermia.. *Cancers*, **2021**, 14,	6.6	1
173	Modulating the Heat Stress Response to Improve Hyperthermia-Based Anticancer Treatments. *Cancers*, **2021**, 13,	6.6	7
172	PARP1-Inhibition Sensitizes Cervical Cancer Cell Lines for Chemoradiation and Thermoradiation. *Cancers*, **2021**, 13,	6.6	1
171	Hyperthermia Treatment Planning: Clinical Application and Ongoing Developments. *IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology*, **2021**, 5, 214-222	2.8	6
170	Simulating drug penetration during hyperthermic intraperitoneal chemotherapy. *Drug Delivery*, **2021**, 28, 145-161	7	5
169	Effect of gastrointestinal gas on the temperature distribution in pancreatic cancer hyperthermia treatment planning. *International Journal of Hyperthermia*, **2021**, 38, 229-240	3.7	0
168	Treatment planning facilitates clinical decision making for hyperthermia treatments. *International Journal of Hyperthermia*, **2021**, 38, 532-551	3.7	5
167	Demonstration of treatment planning software for hyperthermic intraperitoneal chemotherapy in a rat model. *International Journal of Hyperthermia*, **2021**, 38, 38-54	3.7	2
166	HyCHEED System for Maintaining Stable Temperature Control during Preclinical Irreversible Electroporation Experiments at Clinically Relevant Temperature and Pulse Settings. *Sensors*, **2020**, 20,	3.8	1
165	Mathematical modeling of the thermal effects of irreversible electroporation for , , and clinical use: a systematic review. *International Journal of Hyperthermia*, **2020**, 37, 486-505	3.7	20
164	Integrating Loco-Regional Hyperthermia Into the Current Oncology Practice: SWOT and TOWS Analyses. *Frontiers in Oncology*, **2020**, 10, 819	5.3	29

163	Radiosensitization by Hyperthermia: The Effects of Temperature, Sequence, and Time Interval in Cervical Cell Lines. *Cancers*, **2020**, 12,	6.6	8
162	Modelling Curved Contact Flexible Microstrip Applicators for Patient-Specific Superficial Hyperthermia Treatment Planning. *Cancers*, **2020**, 12,	6.6	5
161	Heating technology for malignant tumors: a review. *International Journal of Hyperthermia*, **2020**, 37, 711-741	3.7	79
160	Experimental validation of a thermophysical fluid model for use in a hyperthermia treatment planning system. *International Journal of Heat and Mass Transfer*, **2020**, 152, 119495	4.9	4
159	Molecular and biological rationale of hyperthermia as radio- and chemosensitizer. *Advanced Drug Delivery Reviews*, **2020**, 163-164, 84-97	18.5	32
158	Locoregional peritoneal hyperthermia to enhance the effectiveness of chemotherapy in patients with peritoneal carcinomatosis: a simulation study comparing different locoregional heating systems. *International Journal of Hyperthermia*, **2020**, 37, 76-88	3.7	10
157	Response: Commentary: The Impact of the Time Interval Between Radiation and Hyperthermia on Clinical Outcome in Patients With Locally Advanced Cervical Cancer. *Frontiers in Oncology*, **2020**, 10, 528	5.3	2
156	Deep learning-based reconstruction of in vivo pelvis conductivity with a 3D patch-based convolutional neural network trained on simulated MR data. *Magnetic Resonance in Medicine*, **2020**, 84, 2772-2787	4.4	13
155	Thermodynamic profiling during irreversible electroporation in porcine liver and pancreas: a case study series. *Journal of Clinical and Translational Research*, **2020**, 5, 109-132	1.1	3
154	Two high-resolution thermal monitoring sheets for clinical superficial hyperthermia. *Physics in Medicine and Biology*, **2020**,	3.8	2
153	The Temperature-Dependent Effectiveness of Platinum-Based Drugs Mitomycin-C and 5-FU during Hyperthermic Intraperitoneal Chemotherapy (HIPEC) in Colorectal Cancer Cell Lines. *Cells*, **2020**, 9,	7.9	17
152	Hyperthermia treatment planning: clinical application and ongoing research **2020**,		2
151	Advanced patient-specific hyperthermia treatment planning. *International Journal of Hyperthermia*, **2020**, 37, 992-1007	3.7	14
150	Loco-regional Hyperthermia Delivery: Patient-specific set-up Procedures for Treatment Optimisation **2020**,		2
149	A Four-Inflow Construction to Ensure Thermal Stability and Uniformity during Hyperthermic Intraperitoneal Chemotherapy (HIPEC) in Rats. *Cancers*, **2020**, 12,	6.6	1
148	Clinical Feasibility of a High-Resolution Thermal Monitoring Sheet for Superficial Hyperthermia in Breast Cancer Patients. *Cancers*, **2020**, 12,	6.6	2
147	Transceive phase mapping using the PLANET method and its application for conductivity mapping in the brain. *Magnetic Resonance in Medicine*, **2020**, 83, 590-607	4.4	3
146	Dedicated 70 MHz RF systems for hyperthermia of challenging tumor locations. *International Journal of Microwave and Wireless Technologies*, **2020**, 12, 839-847	0.8	1

145	Hyperthermia Treatment Planning Including Convective Flow in Cerebrospinal Fluid for Brain Tumour Hyperthermia Treatment Using a Novel Dedicated Paediatric Brain Applicator. *Cancers*, **2019**, 11,	6.6	17
144	Quality assurance guidelines for interstitial hyperthermia. *International Journal of Hyperthermia*, **2019**, 36, 277-294	3.7	21
143	Hyperthermia: The Optimal Treatment to Overcome Radiation Resistant Hypoxia. *Cancers*, **2019**, 11,	6.6	83
142	Variation in Clinical Application of Hyperthermic Intraperitoneal Chemotherapy: A Review. *Cancers*, **2019**, 11,	6.6	38
141	The Impact of the Time Interval Between Radiation and Hyperthermia on Clinical Outcome in Patients With Locally Advanced Cervical Cancer. *Frontiers in Oncology*, **2019**, 9, 412	5.3	8
140	Whole-body hyperthermia in combination with systemic therapy in advanced solid malignancies. *Critical Reviews in Oncology/Hematology*, **2019**, 139, 67-74	7	11
139	Accuracy and precision of electrical permittivity mapping at 3T: the impact of three mapping techniques. *Magnetic Resonance in Medicine*, **2019**, 81, 3628-3642	4.4	13
138	Adjuvant hyperthermic intraperitoneal chemotherapy in patients with locally advanced colon cancer (COLOPEC): a multicentre, open-label, randomised trial. *The Lancet Gastroenterology and Hepatology*, **2019**, 4, 761-770	18.8	107
137	Temperature and thermal dose during radiotherapy and hyperthermia for recurrent breast cancer are related to clinical outcome and thermal toxicity: a systematic review. *International Journal of Hyperthermia*, **2019**, 36, 1024-1039	3.7	39
136	Adjuvant HIPEC in patients with colon cancer at high risk of peritoneal metastases: Primary outcome of the COLOPEC multicenter randomized trial.. *Journal of Clinical Oncology*, **2019**, 37, 482-482	2.2	18
135	Combining 70MHz and 434MHz or wIRA Hyperthermia Applicators for Optimal Coverage of Semi-Deep Tumour Sites **2019**,		1
134	Enhancing the abscopal effect of radiation and immune checkpoint inhibitor therapies with magnetic nanoparticle hyperthermia in a model of metastatic breast cancer. *International Journal of Hyperthermia*, **2019**, 36, 47-63	3.7	19
133	Re-irradiation plus hyperthermia for recurrent pediatric sarcoma; a simulation study to investigate feasibility. *International Journal of Oncology*, **2019**, 54, 209-218	4.4	1
132	Locoregional hyperthermia of deep-seated tumours applied with capacitive and radiative systems: a simulation study. *International Journal of Hyperthermia*, **2018**, 34, 714-730	3.7	24
131	Analysis of clinical data to determine the minimum number of sensors required for adequate skin temperature monitoring of superficial hyperthermia treatments. *International Journal of Hyperthermia*, **2018**, 34, 910-917	3.7	12
130	Reirradiation+ hyperthermia for recurrent breast cancer en cuirasse. *Strahlentherapie Und Onkologie*, **2018**, 194, 206-214	4.3	17
129	Measurement and analysis of the impact of time-interval, temperature and radiation dose on tumour cell survival and its application in thermoradiotherapy plan evaluation. *International Journal of Hyperthermia*, **2018**, 34, 30-38	3.7	21
128	Enhancing radiosensitisation of BRCA2-proficient and BRCA2-deficient cell lines with hyperthermia and PARP1-i. *International Journal of Hyperthermia*, **2018**, 34, 39-48	3.7	15

127	The alfa and beta of tumours: a review of parameters of the linear-quadratic model, derived from clinical radiotherapy studies. *Radiation Oncology*, **2018**, 13, 96	4.2	159
126	Enhancement of Radiation Effectiveness in Cervical Cancer Cells by Combining Ionizing Radiation with Hyperthermia and Molecular Targeting Agents. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	12
125	The clinical benefit of hyperthermia in pancreatic cancer: a systematic review. *International Journal of Hyperthermia*, **2018**, 34, 969-979	3.7	27
124	Feasibility of on-line temperature-based hyperthermia treatment planning to improve tumour temperatures during locoregional hyperthermia. *International Journal of Hyperthermia*, **2018**, 34, 1082-1091	3.7	19
123	Clinical validation of a novel thermophysical bladder model designed to improve the accuracy of hyperthermia treatment planning in the pelvic region. *International Journal of Hyperthermia*, **2018**, 35, 383-397	3.7	11
122	RF Heating of Pancreatic Tumours Guided by Hyperthermia Treatment Planning and Limited Thermometry **2018**,		1
121	Technical and Clinical Evaluation of the ALBA-4D 70MHz Loco-Regional Hyperthermia System **2018**,		12
120	Adaptive Treatment Planning for Locoregional Hyperthermia: A Necessary Tool for Optimizing Treatment Quality **2018**,		1
119	The effect of air pockets in the urinary bladder on the temperature distribution during loco-regional hyperthermia treatment of bladder cancer patients. *International Journal of Hyperthermia*, **2018**, 35, 441-449	3.7	3
118	Predictive value of simulated SAR and temperature for changes in measured temperature after phase-amplitude steering during locoregional hyperthermia treatments. *International Journal of Hyperthermia*, **2018**, 35, 330-339	3.7	18
117	Professor Gerrit Willem (Eddie) Barendsen, August 14, 1927 June 20, 2018. *International Journal of Radiation Oncology Biology Physics*, **2018**, 102, 483-484	4	
116	The effect of time interval between radiotherapy and hyperthermia on planned equivalent radiation dose. *International Journal of Hyperthermia*, **2018**, 34, 901-909	3.7	17
115	B1-based SAR reconstruction using contrast source inversion-electric properties tomography (CSI-EPT). *Medical and Biological Engineering and Computing*, **2017**, 55, 225-233	3.1	8
114	Targeting therapy-resistant cancer stem cells by hyperthermia. *International Journal of Hyperthermia*, **2017**, 33, 419-427	3.7	44
113	Quality assurance guidelines for superficial hyperthermia clinical trials: I. Clinical requirements. *International Journal of Hyperthermia*, **2017**, 33, 471-482	3.7	59
112	Quality assurance guidelines for superficial hyperthermia clinical trials : II. Technical requirements for heating devices. *Strahlentherapie Und Onkologie*, **2017**, 193, 351-366	4.3	46
111	Planning, optimisation and evaluation of hyperthermia treatments. *International Journal of Hyperthermia*, **2017**, 33, 593-607	3.7	65
110	A flexible 70 MHz phase-controlled double waveguide system for hyperthermia treatment of superficial tumours with deep infiltration. *International Journal of Hyperthermia*, **2017**, 33, 796-809	3.7	6

109	Thermal Skin Damage During Reirradiation and Hyperthermia Is Time-Temperature Dependent. *International Journal of Radiation Oncology Biology Physics*, **2017**, 98, 392-399	4	19
108	A comparison of the heating characteristics of capacitive and radiative superficial hyperthermia. *International Journal of Hyperthermia*, **2017**, 33, 378-386	3.7	38
107	Online Adaptive Hyperthermia Treatment Planning During Locoregional Heating to Suppress Treatment-Limiting Hot Spots. *International Journal of Radiation Oncology Biology Physics*, **2017**, 99, 1039-1047	4	42
106	Development of electrical properties tomography for hyperthermia treatment planning **2017**,		2
105	Progress and future directions in hyperthermia treatment planning **2017**,		3
104	Development of a 70 MHz unit for hyperthermia treatment of deep-seated breast tumors. *International Journal of Microwave and Wireless Technologies*, **2017**, 9, 1317-1324	0.8	3
103	A short time interval between radiotherapy and hyperthermia reduces in-field recurrence and mortality in women with advanced cervical cancer. *Radiation Oncology*, **2017**, 12, 75	4.2	41
102	3D radiobiological evaluation of combined radiotherapy and hyperthermia treatments. *International Journal of Hyperthermia*, **2017**, 33, 160-169	3.7	22
101	Sensitizing thermochemotherapy with a PARP1-inhibitor. *Oncotarget*, **2017**, 8, 16303-16312	3.3	14
100	Enhancing synthetic lethality of PARP-inhibitor and cisplatin in BRCA-proficient tumour cells with hyperthermia. *Oncotarget*, **2017**, 8, 28116-28124	3.3	21
99	Colorectal cancer at high risk of peritoneal metastases: long term outcomes of a pilot study on adjuvant laparoscopic HIPEC and future perspectives. *Oncotarget*, **2017**, 8, 51200-51209	3.3	16
98	In vivo electric conductivity of cervical cancer patients based on B$_1^+$ maps at 3T MRI. *Physics in Medicine and Biology*, **2016**, 61, 1596-607	3.8	35
97	Analysis of enhancement at small and large radiation doses for effectiveness of inactivation in cultured cells by combining two agents with radiation. *International Journal of Radiation Biology*, **2016**, 92, 521-6	2.9	2
96	Biological modelling of the radiation dose escalation effect of regional hyperthermia in cervical cancer. *Radiation Oncology*, **2016**, 11, 14	4.2	29
95	Hyperthermia treatment planning for cervical cancer patients based on electrical conductivity tissue properties acquired in vivo with EPT at 3 T MRI. *International Journal of Hyperthermia*, **2016**, 32, 558-68	3.7	40
94	Rib fractures after reirradiation plus hyperthermia for recurrent breast cancer: Predictive factors. *Strahlentherapie Und Onkologie*, **2016**, 192, 240-7	4.3	11
93	Thermoradiotherapy planning: Integration in routine clinical practice. *International Journal of Hyperthermia*, **2016**, 32, 41-9	3.7	44
92	An international multicenter phase III study of chemoradiotherapy versus chemoradiotherapy plus hyperthermia for locally advanced cervical cancer.. *Journal of Clinical Oncology*, **2016**, 34, e17023-e17023	2.2	8

91	Time-Dependent Impact of Irreversible Electroporation on Pancreas, Liver, Blood Vessels and Nerves: A Systematic Review of Experimental Studies. *PLoS ONE*, **2016**, 11, e0166987	3.7	38
90	SU-F-J-05: The Effect of Air Pockets in the Urinary Bladder During Bladder Hyperthermia Treatment. *Medical Physics*, **2016**, 43, 3406-3406	4.4	
89	Improving hyperthermia treatment planning for the pelvis by accurate fluid modeling. *Medical Physics*, **2016**, 43, 5442	4.4	16
88	A 70 MHz double waveguide set-up for hyperthermia of deep superficial tumors **2016**,		1
87	Thermal dosimetry for bladder hyperthermia treatment. An overview. *International Journal of Hyperthermia*, **2016**, 32, 417-33	3.7	24
86	Chemohyperthermia in non-muscle-invasive bladder cancer: An overview of the literature and recommendations. *International Journal of Hyperthermia*, **2016**, 32, 363-73	3.7	19
85	CSI-EPT: A Contrast Source Inversion Approach for Improved MRI-Based Electric Properties Tomography. *IEEE Transactions on Medical Imaging*, **2015**, 34, 1788-96	11.7	75
84	Local hyperthermia combined with radiotherapy and-/or chemotherapy: recent advances and promises for the future. *Cancer Treatment Reviews*, **2015**, 41, 742-53	14.4	310
83	Development of a novel method to enhance the therapeutic effect on tumours by simultaneous action of radiation and heating. *International Journal of Hyperthermia*, **2015**, 31, 443-52	3.7	14
82	Hyperthermia-related clinical trials on cancer treatment within the ClinicalTrials.gov registry. *International Journal of Hyperthermia*, **2015**, 31, 609-14	3.7	138
81	Reirradiation and hyperthermia for irresectable locoregional recurrent breast cancer in previously irradiated area: Size matters. *Radiotherapy and Oncology*, **2015**, 117, 223-8	5.3	43
80	Combining Mitomycin C and Regional 70 MHz Hyperthermia in Patients with Nonmuscle Invasive Bladder Cancer: A Pilot Study. *Journal of Urology*, **2015**, 194, 1202-8	2.5	35
79	Improved temperature monitoring and treatment planning for loco-regional hyperthermia treatments of Non-Muscle Invasive Bladder Cancer (NMIBC). *IFMBE Proceedings*, **2015**, 1691-1694	0.2	2
78	Hyperthermia Selectively Targets Human Papillomavirus in Cervical Tumors via p53-Dependent Apoptosis. *Cancer Research*, **2015**, 75, 5120-9	10.1	43
77	Effects of hyperthermia on DNA repair pathways: one treatment to inhibit them all. *Radiation Oncology*, **2015**, 10, 165	4.2	159
76	Feasibility of electric property tomography of pelvic tumors at 3T. *Magnetic Resonance in Medicine*, **2015**, 73, 1505-13	4.4	40
75	Current state of the art of regional hyperthermia treatment planning: a review. *Radiation Oncology*, **2015**, 10, 196	4.2	97
74	Toward online adaptive hyperthermia treatment planning: correlation between measured and simulated specific absorption rate changes caused by phase steering in patients. *International Journal of Radiation Oncology Biology Physics*, **2014**, 90, 438-45	4	38

73	Feasibility of adjuvant laparoscopic hyperthermic intraperitoneal chemotherapy in a short stay setting in patients with colorectal cancer at high risk of peritoneal carcinomatosis. *European Journal of Surgical Oncology*, **2014**, 40, 1453-8	3.6	15
72	Treatment and prognostic factors of radiation-associated angiosarcoma (RAAS) after primary breast cancer: a systematic review. *European Journal of Cancer*, **2014**, 50, 1779-1788	7.5	85
71	Quantifying the combined effect of radiation therapy and hyperthermia in terms of equivalent dose distributions. *International Journal of Radiation Oncology Biology Physics*, **2014**, 88, 739-45	4	47
70	Specific absorption rate intersubject variability in 7T parallel transmit MRI of the head. *Magnetic Resonance in Medicine*, **2013**, 69, 1476-85	4.4	48
69	Fast thermal simulations and temperature optimization for hyperthermia treatment planning, including realistic 3D vessel networks. *Medical Physics*, **2013**, 40, 103303	4.4	27
68	Cell survival and radiosensitisation: modulation of the linear and quadratic parameters of the LQ model (Review). *International Journal of Oncology*, **2013**, 42, 1501-15	4.4	68
67	Thermal modelling using discrete vasculature for thermal therapy: A review. *International Journal of Hyperthermia*, **2013**, 29, 336-45	3.7	35
66	CSI-EPT: A novel contrast source approach to MRI based electric properties tomography and patient-specific SAR **2013**,		4
65	Novel multi-sensor probe for monitoring bladder temperature during loco-regional chemo-hyperthermia for non-muscle invasive bladder cancer: technical feasibility study. *Journal of Endourology*, **2013**, 150127063130004	2.7	
64	Novel multisensor probe for monitoring bladder temperature during locoregional chemohyperthermia for nonmuscle-invasive bladder cancer: technical feasibility study. *Journal of Endourology*, **2013**, 27, 1504-9	2.7	7
63	Dose-guided radiotherapy: potential benefit of online dose recalculation for stereotactic lung irradiation in patients with non-small-cell lung cancer. *International Journal of Radiation Oncology Biology Physics*, **2012**, 83, e557-62	4	10
62	Automatic delineation of body contours on cone-beam CT images using a delineation booster. *Physics in Medicine and Biology*, **2012**, 57, N225-36	3.8	3
61	Uncertainty in hyperthermia treatment planning: the need for robust system design. *Physics in Medicine and Biology*, **2011**, 56, 3233-50	3.8	46
60	Quality assurance for clinical studies in regional deep hyperthermia. *Strahlentherapie Und Onkologie* , **2011**, 187, 605-10	4.3	75
59	Improved power steering with double and triple ring waveguide systems: the impact of the operating frequency. *International Journal of Hyperthermia*, **2011**, 27, 224-39	3.7	22
58	3D versus 2D steering in patient anatomies: a comparison using hyperthermia treatment planning. *International Journal of Hyperthermia*, **2011**, 27, 74-85	3.7	21
57	Radiotherapy combined with hyperthermia for primary malignant melanomas of the esophagus. *Ecological Management and Restoration*, **2010**, 23, E42-7	3	10
56	SAR deposition by curved CFMA-434 applicators for superficial hyperthermia: Measurements and simulations. *International Journal of Hyperthermia*, **2010**, 26, 171-84	3.7	14

55	The impact of the waveguide aperture size of the 3D 70 MHz AMC-8 locoregional hyperthermia system on tumour coverage. *Physics in Medicine and Biology*, **2010**, 55, 4899-916	3.8	9
54	Elective re-irradiation and hyperthermia following resection of persistent locoregional recurrent breast cancer: A retrospective study. *International Journal of Hyperthermia*, **2010**, 26, 136-44	3.7	31
53	Comparison of two different 70 MHz applicators for large extremity lesions: simulation and application. *International Journal of Hyperthermia*, **2010**, 26, 376-88	3.7	10
52	Optimization in hyperthermia treatment planning: the impact of tissue perfusion uncertainty. *Medical Physics*, **2010**, 37, 4540-50	4.4	50
51	Cryoablation induces greater inflammatory and coagulative responses than radiofrequency ablation or laser induced thermotherapy in a rat liver model. *Surgery*, **2010**, 147, 686-95	3.6	62
50	Acceleration of high resolution temperature based optimization for hyperthermia treatment planning using element grouping. *Medical Physics*, **2009**, 36, 3795-805	4.4	4
49	FDTD simulations to assess the performance of CFMA-434 applicators for superficial hyperthermia. *International Journal of Hyperthermia*, **2009**, 25, 462-76	3.7	23
48	Characteristics and performance evaluation of the capacitive Contact Flexible Microstrip Applicator operating at 70 MHz for external hyperthermia. *International Journal of Hyperthermia*, **2009**, 25, 542-53	3.7	11
47	Improving locoregional hyperthermia delivery using the 3-D controlled AMC-8 phased array hyperthermia system: a preclinical study. *International Journal of Hyperthermia*, **2009**, 25, 581-92	3.7	75
46	Body conformal antennas for superficial hyperthermia: the impact of bending contact flexible microstrip applicators on their electromagnetic behavior. *IEEE Transactions on Biomedical Engineering*, **2009**, 56, 2917-26	5	22
45	Quantification of the contribution of hyperthermia to results of cervical cancer trials: in regard to Plataniotis and Dale (Int J Radiat Oncol Biol Phys 2009;73:1538-1544). *International Journal of Radiation Oncology Biology Physics*, **2009**, 75, 634; author reply 634-5	4	2
44	Accelerated ray tracing for radiotherapy dose calculations on a GPU. *Medical Physics*, **2009**, 36, 4095-102	4.4	50
43	Preoperative chemoradiation combined with regional hyperthermia for patients with resectable esophageal cancer. *International Journal of Hyperthermia*, **2009**, 25, 79-85	3.7	23
42	Relation between body size and temperatures during locoregional hyperthermia of oesophageal cancer patients. *International Journal of Hyperthermia*, **2008**, 24, 663-74	3.7	9
41	Hyperthermia, cisplatin and radiation trimodality treatment: a promising cancer treatment? A review from preclinical studies to clinical application. *International Journal of Hyperthermia*, **2007**, 23, 329-41	3.7	46
40	Theoretical comparison of intraluminal heating techniques. *International Journal of Hyperthermia*, **2007**, 23, 395-411	3.7	9
39	Delineation of potential hot spots for hyperthermia treatment planning optimisation. *International Journal of Hyperthermia*, **2007**, 23, 287-301	3.7	17
38	On verification of hyperthermia treatment planning for cervical carcinoma patients. *International Journal of Hyperthermia*, **2007**, 23, 303-14	3.7	27

37	Artefacts in intracavitary temperature measurements during regional hyperthermia. *Physics in Medicine and Biology*, **2007**, 52, 5157-71	3.8	3
36	Monitoring of response to pre-operative chemoradiation in combination with hyperthermia in oesophageal cancer by FDG-PET. *International Journal of Hyperthermia*, **2006**, 22, 149-60	3.7	37
35	Prospective treatment planning to improve locoregional hyperthermia for oesophageal cancer. *International Journal of Hyperthermia*, **2006**, 22, 375-89	3.7	29
34	Reliability of temperature and SAR measurements at oesophageal tumour locations. *International Journal of Hyperthermia*, **2006**, 22, 545-61	3.7	7
33	High-resolution temperature-based optimization for hyperthermia treatment planning. *Physics in Medicine and Biology*, **2005**, 50, 3127-41	3.8	65
32	On estimation of the temperature maximum in intraluminal or intracavitary hyperthermia. *International Journal of Hyperthermia*, **2005**, 21, 287-304	3.7	6
31	A feasibility study in oesophageal carcinoma using deep loco-regional hyperthermia combined with concurrent chemotherapy followed by surgery. *International Journal of Hyperthermia*, **2004**, 20, 647-59	3.7	20
30	A feasibility study of interstitial hyperthermia plus external beam radiotherapy in glioblastoma multiforme using the Multi ELectrode Current Source (MECS) system. *International Journal of Hyperthermia*, **2004**, 20, 451-63	3.7	15
29	Determination and validation of the actual 3D temperature distribution during interstitial hyperthermia of prostate carcinoma. *Physics in Medicine and Biology*, **2001**, 46, 3115-31	3.8	26
28	Clinical thermometry, using the 27 MHz multi-electrode current-source interstitial hyperthermia system in brain tumours. *Radiotherapy and Oncology*, **2001**, 59, 227-31	5.3	5
27	Modelling individual temperature profiles from an isolated perfused bovine tongue. *Physics in Medicine and Biology*, **2000**, 45, 765-80	3.8	29
26	Evaluation of the Treatment Planning of Interstitial Hyperthermia of Glioblastomas **2000**, 486-488		
25	Temperature measurement errors with thermocouples inside 27 MHz current source interstitial hyperthermia applicators. *Physics in Medicine and Biology*, **1999**, 44, 1499-511	3.8	9
24	Spatial steering with quadruple electrodes in 27 MHz capacitively coupled interstitial hyperthermia. *International Journal of Hyperthermia*, **1999**, 15, 145-56	3.7	6
23	Thermal properties of capacitively coupled electrodes in interstitial hyperthermia. *Physics in Medicine and Biology*, **1998**, 43, 139-53	3.8	11
22	Comparison of temperature distributions in interstitial hyperthermia: experiments in bovine tongues versus generic simulations. *Physics in Medicine and Biology*, **1998**, 43, 1199-214	3.8	20
21	Design of applicators for a 27 MHz multielectrode current source interstitial hyperthermia system; impedance matching and effective power. *Physics in Medicine and Biology*, **1997**, 42, 1087-108	3.8	6
20	Implications of using thermocouple thermometry in 27 MHz capacitively coupled interstitial hyperthermia. *Physics in Medicine and Biology*, **1997**, 42, 637-50	3.8	7

19	The influence of vasculature on temperature distributions in MECS interstitial hyperthermia: importance of longitudinal control. *International Journal of Hyperthermia*, **1997**, 13, 365-85	3.7	25
18	Numerical analysis of capacitively coupled electrodes for interstitial hyperthermia. *International Journal of Hyperthermia*, **1997**, 13, 607-19	3.7	7
17	Tests of the geometrical description of blood vessels in a thermal model using counter-current geometries. *Physics in Medicine and Biology*, **1997**, 42, 1515-32	3.8	21
16	Accuracy of geometrical modelling of heat transfer from tissue to blood vessels. *Physics in Medicine and Biology*, **1997**, 42, 1451-60	3.8	26
15	Spatial temperature control with a 27 MHz current source interstitial hyperthermia system. *International Journal of Radiation Oncology Biology Physics*, **1997**, 37, 189-97	4	11
14	A description of discrete vessel segments in thermal modelling of tissues. *Physics in Medicine and Biology*, **1996**, 41, 865-84	3.8	103
13	Dose uniformity in MECS interstitial hyperthermia: the impact of longitudinal control in model anatomies. *Physics in Medicine and Biology*, **1996**, 41, 429-44	3.8	13
12	Principles of Treatment Planning. *Medical Radiology*, **1995**, 439-451	0.2	1
11	Basics of Thermal Models. *Medical Radiology*, **1995**, 425-437	0.2	1
10	The theoretical and experimental evaluation of the heat balance in perfused tissue. *Physics in Medicine and Biology*, **1994**, 39, 813-32	3.8	51
9	Dose uniformity in scanned focused ultrasound hyperthermia. *International Journal of Hyperthermia* , **1994**, 10, 775-84	3.7	21
8	Temperature and SAR measurements in deep-body hyperthermia with thermocouple thermometry. *International Journal of Hyperthermia*, **1993**, 9, 685-97	3.7	51
7	Future Developments in Respect of Thermal Modeling, Treatment Planning, and Treatment Control for Interstitial Hyperthermia. *Medical Radiology*, **1993**, 155-159	0.2	2
6	Thermal Modeling of Vascular Patterns and Their Impact on Interstitial Heating Technology and Temperature Monitoring. *Medical Radiology*, **1993**, 131-137	0.2	1
5	Thermal Model Verification in Interstitial Hyperthermia. *Medical Radiology*, **1993**, 147-153	0.2	2
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