Basic principles of thermal dosimetry and thermal three hyperthermia

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Citation Report

#	Article	IF	CITATIONS
2	The dialectic of IT chargeback systems. International Journal of Technology Management, 1997, 14, 496.	0.2	5
3	Comparison of health and environmental impacts from electricity generation systems. International Journal of Risk Assessment and Management, 2002, 3, 41.	0.2	2
4	Effects of heat on embryos and foetuses. International Journal of Hyperthermia, 2003, 19, 295-324.	1.1	191
5	An ultrasonic method to measure effective temperature in the vicinity of laser-induced optical breakdown. , 0, , .		0
6	Thermal stress and radiation protection principles. International Journal of Hyperthermia, 2003, 19, 215-224.	1.1	10
7	Accuracy of MRI in the Detection of Residual Breast Cancer After Neoadjuvant Chemotherapy. American Journal of Roentgenology, 2003, 181, 1275-1282.	1.0	260
8	Brain Hyperthermia During Physiological and Pathological Conditions: Causes, Mechanisms, and Functional Implications. Current Neurovascular Research, 2004, 1, 77-90.	0.4	49
9	The Role of Hyperthermia in Regional Alkylating Agent Chemotherapy. Clinical Cancer Research, 2004, 10, 5919-5929.	3.2	31
10	MRI investigation of the threshold for thermally induced blood-brain barrier disruption and brain tissue damage in the rabbit brain. Magnetic Resonance in Medicine, 2004, 51, 913-923.	1.9	155
11	MEDICAL MAGNETIC RESONANCE (MR) PROCEDURES: PROTECTION OF PATIENTS. Health Physics, 2004, 87, 197-216.	0.3	226
12	Effects of External Temperature on Therapeutic Heating with Interstitial Instrumentation. , 0, , .		1
13	Brain hyperthermia as physiological and pathological phenomena. Brain Research Reviews, 2005, 50, 27-56.	9.1	110
14	Effects of spatial and temporal resolution for MR image-guided thermal ablation of prostate with transurethral ultrasound. Journal of Magnetic Resonance Imaging, 2005, 22, 109-118.	1.9	37
15	Re-setting the biologic rationale for thermal therapy. International Journal of Hyperthermia, 2005, 21, 779-790.	1.1	275
16	Radiofrequency Ablation: Importance of Background Tissue Electrical Conductivity—An Agar Phantom and Computer Modeling Study. Radiology, 2005, 236, 495-502.	3.6	114
17	Method for MRI-guided conformal thermal therapy of prostate with planar transurethral ultrasound heating applicators. Physics in Medicine and Biology, 2005, 50, 4957-4975.	1.6	84
18	Application of High Amplitude Alternating Magnetic Fields for Heat Induction of Nanoparticles Localized in Cancer. Clinical Cancer Research, 2005, 11, 7093s-7103s.	3.2	166
19	Quantitative MRI-based temperature mapping based on the proton resonant frequency shift: Review of validation studies. International Journal of Hyperthermia, 2005, 21, 533-546.	1.1	177

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#	ARTICLE	IF	Citations
20	Randomized Trial of Hyperthermia and Radiation for Superficial Tumors. Journal of Clinical Oncology, 2005, 23, 3079-3085.	0.8	498
22	SURLAS: A new clinical grade ultrasound system for sequential or concomitant thermoradiotherapy of superficial tumors: Applicator description. Medical Physics, 2005, 32, 230-240.	1.6	25
23	Use of local hyperthermia as prophylaxis of fibrosis and modification in penile length following radical retropubic prostatectomy. International Journal of Hyperthermia, 2005, 21, 359-365.	1.1	9
24	Role of hyperthermia in the treatment of Peyronie's disease: A preliminary study. International Journal of Hyperthermia, 2005, 21, 367-374.	1.1	7
25	Closed-form solution for the thermal dose delivered during single pulse thermal therapies. International Journal of Hyperthermia, 2005, 21, 215-230.	1.1	8
26	Microscopical heat stress investigations under application of quantum dots. Journal of Biomedical Optics, 2005, 10, 041209.	1.4	14
27	Thermal ablation and high-temperature thermal therapy: Overview of technology and clinical implementation. International Journal of Hyperthermia, 2005, 21, 745-753.	1.1	269
28	The magnitude and time-dependence of the apoptotic response of normal and malignant cells subjected to ionizing radiation versus hyperthermia. International Journal of Radiation Biology, 2006, 82, 549-559.	1.0	32
29	Multisectored interstitial ultrasound applicators for dynamic angular control of thermal therapy. Medical Physics, 2006, 33, 1352-1363.	1.6	26
30	Prospective thermal dosimetry: The key to hyperthermia's future. International Journal of Hyperthermia, 2006, 22, 247-253.	1.1	61
31	Magnetic nanoparticles for interstitial thermotherapy – feasibility, tolerance and achieved temperatures. International Journal of Hyperthermia, 2006, 22, 673-685.	1.1	243
32	MRI-guided focused ultrasound: methodology and applications. IEEE Transactions on Medical Imaging, 2006, 25, 723-731.	5.4	49
35	Intradiscal Thermal Therapy Does Not Stimulate Biologic Remodeling in an In Vivo Sheep Model. Spine, 2006, 31, 139-145.	1.0	15
36	Study of the thermal distribution in vocal cords irradiated by an optical source for the treatment of voice disabilities. , 2006, 6078, 249.		2
37	Magnetic Resonance-Guided High-Intensity Ultrasound Ablation of the Prostate. Topics in Magnetic Resonance Imaging, 2006, 17, 195-207.	0.7	71
38	ICNIRP STATEMENT ON FAR INFRARED RADIATION EXPOSURE. Health Physics, 2006, 91, 630-645.	0.3	69
40	Visually directed high-intensity focused ultrasound for organ-confined prostate cancer: a proposed standard for the conduct of therapy. BJU International, 2006, 98, 1187-1192.	1.3	64
41	Optimization problems for bioheat equation. International Communications in Heat and Mass Transfer, 2006, 33, 537-543.	2.9	27

#	Article	IF	CITATIONS
42	Fluorescence Imaging of Heat-Stress Induced Mitochondrial Long-Term Depolarization in Breast Cancer Cells. Journal of Fluorescence, 2006, 16, 689-695.	1.3	25
43	Evaluation of Important Treatment Parameters in Supraphysiological Thermal Therapy of Human Liver Cancer HepG2 Cells. Annals of Biomedical Engineering, 2006, 34, 1745-1757.	1.3	10
44	Effects of thermal stress on tumor antigenicity and recognition by immune effector cells. Cancer Immunology, Immunotherapy, 2006, 55, 312-319.	2.0	49
45	Acoustic Estimation of Thermal Distribution in the Vicinity of Femtosecond Laser-Induced Optical Breakdown. IEEE Transactions on Biomedical Engineering, 2006, 53, 2347-2355.	2.5	14
46	Measurement of safe thermal therapy levels: the case of ultrasonic waveguide interstitial applicator array. , 2006, 2006, 5025-8.		0
47	Optimizing a Novel Regional Chemotherapeutic Agent against Melanoma: Hyperthermia-Induced Enhancement of Temozolomide Cytotoxicity. Clinical Cancer Research, 2006, 12, 289-297.	3.2	42
48	Differential gene expression in peripheral blood lymphocytes of cancer patients treated with whole body hyperthermia and chemotherapy: A pilot study. International Journal of Hyperthermia, 2006, 22, 625-635.	1.1	4
49	Treatment monitoring and thermometry for therapeutic focused ultrasound. International Journal of Hyperthermia, 2007, 23, 121-139.	1.1	81
50	Prostate thermal therapy with high intensity transurethral ultrasound: The impact of pelvic bone heating on treatment delivery. International Journal of Hyperthermia, 2007, 23, 609-622.	1.1	31
51	A fast and conformal heating scheme for producing large thermal lesions using a 2D ultrasound phased array. International Journal of Hyperthermia, 2007, 23, 69-82.	1.1	17
52	Numerical Assessment of Thermal Response Associated With In Vivo Skin Electroporation: The Importance of the Composite Skin model. Journal of Biomechanical Engineering, 2007, 129, 330-340.	0.6	20
53	Conformal thermal therapy using planar ultrasound transducers and adaptive closed-loop MR temperature control: demonstration in gel phantoms andex vivotissues. Physics in Medicine and Biology, 2007, 52, 2905-2919.	1.6	29
54	Mueller Matrix Group Theory Formalism for Tissue Imaging Polarimetry Contrast Increase. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3339-42.	0.5	2
55	Feasibility of transrib focused ultrasound thermal ablation for liver tumors using a spherically curved 2D array: A numerical study. Medical Physics, 2007, 34, 3436-3448.	1.6	58
56	A novel strategy to increase heating efficiency in a splitâ€focus ultrasound phased array. Medical Physics, 2007, 34, 2957-2967.	1.6	8
57	In-vitro investigations of nanoparticle magnetic thermotherapy: adjuvant effects and comparison to conventional heating. , 2007, 6440, 64400J.		2
58	2D Mueller matrix approach for tissue complete polarization characterization. Proceedings of SPIE, 2007, , .	0.8	1
59	Predictive analysis of thermal distribution and damage in thermotherapy on biological tissue. , 2007, , .		3

#	Article	IF	CITATIONS
60	<title>Analysis of thermal damage in vocal cords for the prevention of collateral laser treatment effects</title> . , 2007, , .		1
61	A novel 3D modelling and simulation technique in thermotherapy predictive analysis on biological tissue. , 2007, , .		0
62	THERMAL MECHANISMS OF INTERACTION OF RADIOFREQUENCY ENERGY WITH BIOLOGICAL SYSTEMS WITH RELEVANCE TO EXPOSURE GUIDELINES. Health Physics, 2007, 92, 609-620.	0.3	80
63	The effect of induced hyperthermia on the immune system. Progress in Brain Research, 2007, 162, 137-152.	0.9	33
64	Radio frequency electromagnetic fields: mild hyperthermia and safety standards. Progress in Brain Research, 2007, 162, 107-135.	0.9	27
65	Blood–cerebrospinal fluid barrier in hyperthermia. Progress in Brain Research, 2007, 162, 459-478.	0.9	58
66	Current status of liver tumor ablation devices. Expert Review of Medical Devices, 2007, 4, 523-537.	1.4	61
67	5A-3 Spatial and Temporal Controlled Tissue Heating on a Modified Clinical Ultrasound Scanner for Generating Mild Hyperthermia in Tumors. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	5
68	Hyperthermia induced by microwave diathermy in the management of muscle and tendon injuries. British Medical Bulletin, 2007, 83, 379-396.	2.7	133
69	Radiofrequency Ablation: Variability in Heat Sensitivity in Tumors and Tissues. Journal of Vascular and Interventional Radiology, 2007, 18, 647-654.	0.2	66
70	Heat shock does not induce γH2AX foci formation but protects cells from N-methyl-N′-nitro-N-nitrosoguanidine-induced genotoxicity. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2007, 629, 40-48.	0.9	14
71	Investigation of HIFU-induced anti-tumor immunity in a murine tumor model. Journal of Translational Medicine, 2007, 5, 34.	1.8	161
72	High intensity focused ultrasound: Physical principles and devices. International Journal of Hyperthermia, 2007, 23, 89-104.	1.1	579
73	Physiological and pathological brain hyperthermia. Progress in Brain Research, 2007, 162, 219-243.	0.9	29
74	Contribution of Direct Heating, Thermal Conduction and Perfusion During Radiofrequency and Microwave Ablation. Open Biomedical Engineering Journal, 2007, 1, 47-52.	0.7	38
75	SAR and temperature: Simulations and comparison to regulatory limits for MRI. Journal of Magnetic Resonance Imaging, 2007, 26, 437-441.	1.9	129
76	Thermal damage reduction associated with in vivo skin electroporation: A numerical investigation justifying aggressive pre-cooling. International Journal of Heat and Mass Transfer, 2007, 50, 105-116.	2.5	39
77	Laserâ€Induced Heating of Dextranâ€Coated Mesocapsules Containing Indocyanine Green. Biotechnology Progress, 2007, 23, 1431-1440.	1.3	49

	CITATION	Report	
#	Article	IF	Citations
78	Ultrasound–biophysics mechanisms. Progress in Biophysics and Molecular Biology, 2007, 93, 212-255.	1.4	538
79	External Temperature Effects on Interstitial Instrumentation Therapeutic Heating. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 113-117.	2.4	1
80	Limited Cardiotoxicity after Extensive Thoracic Surgery and Intraoperative Hyperthermic Intrathoracic Chemotherapy with Doxorubicin and Cisplatin. Annals of Surgical Oncology, 2007, 14, 3019-3026.	0.7	30
81	Intracranial Thermotherapy using Magnetic Nanoparticles Combined with External Beam Radiotherapy: Results of a Feasibility Study on Patients with Glioblastoma Multiforme. Journal of Neuro-Oncology, 2007, 81, 53-60.	1.4	632
82	Preliminary trial to investigate temperature of the iPulseâ,"¢ intense pulsed light (IPL) glass transmission block during treatment of Fitzpatrick II, IV, V, and VI skin types. Lasers in Medical Science, 2007, 22, 4-9.	1.0	7
83	Brain temperature fluctuations during physiological and pathological conditions. European Journal of Applied Physiology, 2007, 101, 3-17.	1.2	93
84	Thermal phase transitions in plasma membranes of cancer cells measured by means of Qdot fluorescence. Medical Laser Application: International Journal for Laser Treatment and Research, 2008, 22, 256-264.	0.4	0
85	Calibration and measurement issues for therapeutic ultrasound. Ultrasonics, 2008, 48, 234-252.	2.1	66
86	Modeling thermotherapy in vocal cords novel laser endoscopic treatment. Lasers in Medical Science, 2008, 23, 169-177.	1.0	17
87	MR thermometry. Journal of Magnetic Resonance Imaging, 2008, 27, 376-390.	1.9	979
88	Setup and dosimetry for exposure of human skin in vivo to RF‣MF at 900 MHz. Bioelectromagnetics, 2008, 29, 207-212.	0.9	3
89	The Resurgence of Therapeutic Ultrasound – A 21st Century Phenomenon. Ultrasonics, 2008, 48, 233.	2.1	9
90	Harnessing the interaction of ultrasound with tissue for therapeutic benefit: highâ€intensity focused ultrasound. Ultrasound in Obstetrics and Gynecology, 2008, 32, 601-604.	0.9	11
91	Temperature changes in dental implants following exposure to hot substances in an <i>ex vivo</i> model. Clinical Oral Implants Research, 2008, 19, 629-633.	1.9	28
92	Sequential Activation of a Segmented Ground Pad Reduces Skin Heating During Radiofrequency Tumor Ablation: Optimization via Computational Models. IEEE Transactions on Biomedical Engineering, 2008, 55, 1881-1889.	2.5	12
93	Effect of variable heat transfer coefficient on tissue temperature next to a large vessel during radiofrequency tumor ablation. BioMedical Engineering OnLine, 2008, 7, 21.	1.3	49
94	Basics of Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy. , 2008, , 3-167.		12
95	Feasibility of concurrent treatment with the scanning ultrasound reflector linear array system (SURLAS) and the helical tomotherapy system. International Journal of Hyperthermia, 2008, 24, 377-388.	1.1	8

#	Article	IF	CITATIONS
96	Temperature sensitive peptides: Engineering hyperthermia-directed therapeutics. International Journal of Hyperthermia, 2008, 24, 483-495.	1.1	98
97	NanoFerrite Particle Based Radioimmunonanoparticles: Binding Affinity and In Vivo Pharmacokinetics. Bioconjugate Chemistry, 2008, 19, 1211-1218.	1.8	99
98	Catheter-based ultrasound devices and MR thermal monitoring for conformal prostate thermal therapy. , 2008, 2008, 3664-8.		8
99	Radiofrequency ablation: The effect of distance and baseline temperature on thermal dose required for coagulation. International Journal of Hyperthermia, 2008, 24, 550-559.	1.1	60
100	Can Tumor Growth Be Further Inhibited by Combining Drugs Such as Bortezomib with Image-guided Interventional Oncologic Procedures?. Radiology, 2008, 248, 323-325.	3.6	3
101	<i>Update:</i> Turning the Heat on Cancer. Cancer Biotherapy and Radiopharmaceuticals, 2008, 23, 671-680.	0.7	37
102	Relation between body size and temperatures during locoregional hyperthermia of oesophageal cancer patients. International Journal of Hyperthermia, 2008, 24, 663-674.	1.1	11
103	RF ablation with adjuvant therapy: Comparison of external beam radiation and liposomal doxorubicin on ablation efficacy in an animal tumor model. International Journal of Hyperthermia, 2008, 24, 560-567.	1.1	21
104	Transurethral ultrasound applicators with dynamic multiâ€sector control for prostate thermal therapy: <i>In vivo</i> evaluation under MR guidance. Medical Physics, 2008, 35, 2081-2093.	1.6	45
105	The Risk of Exposure to Diagnostic Ultrasound in Postnatal Subjects. Journal of Ultrasound in Medicine, 2008, 27, 517-535.	0.8	68
106	The Influence of the Call with a Mobile Phone on Heart Rate Variability Parameters in Healthy Volunteers. Industrial Health, 2008, 46, 409-417.	0.4	60
107	Source terms. , 0, , 379-413.		0
108	Hyperthermia classic commentary: â€ [~] Arrhenius relationships from the molecule and cell to the clinic' by William Dewey, <i>Int. J. Hyperthermia</i> , 10:457–483, 1994. International Journal of Hyperthermia, 2009, 25, 21-24.	1.1	18
109	Temperature dependence of the shear modulus of soft tissues assessed by ultrasound. , 2009, , .		0
110	A Review of Current Research in Light-Based Technologies for Treatment of Podiatric Infectious Disease States. Journal of the American Podiatric Medical Association, 2009, 99, 348-352.	0.2	15
111	Thermal Therapy in Urologic Systems: A Comparison of Arrhenius and Thermal Isoeffective Dose Models in Predicting Hyperthermic Injury. Journal of Biomechanical Engineering, 2009, 131, 074507.	0.6	50
112	On the Applicability of the Thermal Dose Cumulative Equivalent Minutes Metric to the Denaturation of Bovine Serum Albumin in a Polyacrylamide Tissue Phantom. , 2009, , .		2
113	Theoretical Analysis of the Accuracy and Safety of MRI-Guided Transurethral 3-D Conformal Ultrasound Prostate Therapy. , 2009, , .		0

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#	Article	IF	CITATIONS
114	Multi-Angle Switched HIFU: A New Ultrasound Device for Controlled Non-Invasive Induction of Small Spherical Ablation Zones—Simulation and Ex-Vivo Results. , 2009, , .		0
115	Feasibility Study of Particle-Assisted Laser Ablation of Brain Tumors in Orthotopic Canine Model. Cancer Research, 2009, 69, 1659-1667.	0.4	204
116	Simultaneous temperature and magnetization transfer (MT) monitoring during highâ€intensity focused ultrasound (HIFU) treatment: Preliminary investigation on ex vivo porcine muscle. Journal of Magnetic Resonance Imaging, 2009, 30, 596-605.	1.9	8
117	Radio frequency heating at 9.4T (400.2 MHz): In vivo thermoregulatory temperature response in swine. Magnetic Resonance in Medicine, 2009, 62, 888-895.	1.9	13
118	Thermal Damage Analysis in Biological Tissues Under Optical Irradiation: Application to the Skin. International Journal of Thermophysics, 2009, 30, 1423-1437.	1.0	3
119	TIMP-1-GPI in combination with hyperthermic treatment of melanoma increases sensitivity to FAS-mediated apoptosis. Cancer Immunology, Immunotherapy, 2009, 58, 361-371.	2.0	9
120	Nearâ€infrared Photoinactivation of Bacteria and Fungi at Physiologic Temperatures. Photochemistry and Photobiology, 2009, 85, 1364-1374.	1.3	71
121	A performance analysis of echographic ultrasonic techniques for non-invasive temperature estimation in hyperthermia range using phantoms with scatterers. Ultrasonics, 2009, 49, 358-376.	2.1	42
122	Ultrasound Doppler Monitoring of Soft Tissues In Vitro and Tissue Phantoms Heating and Thermal Destruction Induced by Acoustic Remote Palpation. Ultrasound in Medicine and Biology, 2009, 35, 764-772.	0.7	4
123	Efficient 3D numerical approach for temperature prediction in laser irradiated biological tissues. Computers in Biology and Medicine, 2009, 39, 810-817.	3.9	33
124	Differences in heating methods may account for variation in reported effects on γH2AX focus formation. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2009, 676, 48-53.	0.9	8
125	Nearly complete regression of tumors via collective behavior of magnetic nanoparticles in hyperthermia. Nanotechnology, 2009, 20, 395103.	1.3	227
126	Quantitative analysis of 3-D conformal MRI-guided transurethral ultrasound therapy of the prostate: Theoretical simulations. International Journal of Hyperthermia, 2009, 25, 116-131.	1.1	42
127	Metamaterial lens applicator for microwave hyperthermia of breast cancer. International Journal of Hyperthermia, 2009, 25, 434-445.	1.1	25
128	Local moderate magnetically induced hyperthermia using an implant formed in situ in a mouse tumor model. International Journal of Hyperthermia, 2009, 25, 229-239.	1.1	30
129	Esophagus histological analysis after hyperthermia-induced injury: Implications for cardiac ablation. International Journal of Hyperthermia, 2009, 25, 150-159.	1.1	11
130	Thermal Ablation. Academic Radiology, 2009, 16, 1539-1548.	1.3	55
131	Dynamic Contrast-enhanced Magnetic Resonance Imaging as a Predictor of Clinical Outcome in Canine Spontaneous Soft Tissue Sarcomas Treated with Thermoradiotherapy. Clinical Cancer Research, 2009, 15, 4993-5001.	3.2	32

#	Article	IF	CITATIONS
132	In Vivo Changes in Dental Implant Temperatures During Hot Beverage Intake: A Pilot Study. Implant Dentistry, 2009, 18, 38-45.	1.7	12
133	Quantitative comparison of thermal dose models in normal canine brain. Medical Physics, 2010, 37, 5313-5321.	1.6	46
134	Evaluation of CEM43°CT90 Thermal Dose in Superficial Hyperthermia. Strahlentherapie Und Onkologie, 2010, 186, 436-443.	1.0	45
135	Intracranial Nonthermal Irreversible Electroporation: InÂVivo Analysis. Journal of Membrane Biology, 2010, 236, 127-136.	1.0	138
136	Spatial and Temporal-Controlled Tissue Heating on a Modified Clinical Ultrasound Scanner for Generating Mild Hyperthermia in Tumors. IEEE Transactions on Biomedical Engineering, 2010, 57, 155-166.	2.5	38
137	Non-invasive monitoring of intra-tumor drug concentration and therapeutic response using optical spectroscopy. Journal of Controlled Release, 2010, 142, 457-464.	4.8	86
138	Hyperthermia potentiates oncolytic herpes viral killing of pancreatic cancer through a heat shock protein pathway. Surgery, 2010, 148, 325-334.	1.0	22
139	Effect of the extracranial deep brain stimulation lead on radiofrequency heating at 9.4 Tesla (400.2) Tj ETQq1 1	0.784314 1.9	rgBT /Overloo
140	Hyperthermic injury to adipocyte cells by selective heating of subcutaneous fat with a novel radiofrequency device: Feasibility studies. Lasers in Surgery and Medicine, 2010, 42, 361-370.	1.1	113
141	Systemic Hyperthermia Masks the Neuroprotective Effects of MKâ€801, but not Rosiglitazone in Brain Ischaemia. Basic and Clinical Pharmacology and Toxicology, 2010, 107, 724-729.	1.2	11
142	Biophysics of Radiofrequency Ablation. Critical Reviews in Biomedical Engineering, 2010, 38, 53-63.	0.5	74
143	Building Cell Selectivity into CPP-Mediated Strategies. Pharmaceuticals, 2010, 3, 1456-1490.	1.7	46
144	A phase I/II study of neoadjuvant liposomal doxorubicin, paclitaxel, and hyperthermia in locally advanced breast cancer. International Journal of Hyperthermia, 2010, 26, 514-521.	1.1	66
145	Lung Volume Reduction by Bronchoscopic Administration of Steam. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 1282-1291.	2.5	33
146	High-intensity Focused Ultrasound: Ready for Primetime. Urologic Clinics of North America, 2010, 37, 27-35.	0.8	29
147	Fluorescence Imaging of Calcium Loading and Mitochondrial Depolarization in Cancer Cells Exposed to Heat Stress. Reviews in Fluorescence, 2010, , 89-118.	0.5	2
148	3D computational study of non-invasive patient-specific microwave hyperthermia treatment of breast cancer. Physics in Medicine and Biology, 2010, 55, 3611-3629.	1.6	73
149	Feasibility of simultaneous intracranial EEG-fMRI in humans: A safety study. NeuroImage, 2010, 49, 379-390.	2.1	85

#	Article	IF	CITATIONS
150	Thermal injury models for optical treatment of biological tissues: a comparative study. , 2010, 2010, 532-5.		0
151	Monitoring of Thermal Dose During Ablation Therapy Using Quantum Dot-Mediated Fluorescence Thermometry. Journal of Endourology, 2010, 24, 1903-1908.	1.1	7
152	Temperature dependence of the shear modulus of soft tissues assessed by ultrasound. Physics in Medicine and Biology, 2010, 55, 1701-1718.	1.6	117
153	Thresholds for thermal damage to normal tissues: An update. International Journal of Hyperthermia, 2011, 27, 320-343.	1.1	541
154	Thermal thresholds for teratogenicity, reproduction, and development. International Journal of Hyperthermia, 2011, 27, 374-387.	1.1	63
157	An alternating focused ultrasound system for thermal therapy studies in small animals. Medical Physics, 2011, 38, 1877-1887.	1.6	6
158	SonoKnife: Feasibility of a lineâ€focused ultrasound device for thermal ablation therapy. Medical Physics, 2011, 38, 4372-4385.	1.6	6
159	Surrogate Human Tissue Temperatures Resulting From Misalignment of Antenna and Implant During Recharging of a Neuromodulation Device. Neuromodulation, 2011, 14, 501-511.	0.4	12
160	Time-Multiplexed Beamforming for Noninvasive Microwave Hyperthermia Treatment. IEEE Transactions on Biomedical Engineering, 2011, 58, 1574-1584.	2.5	47
161	Multiscale effect of localized heating on the global temperature response of a human body during whole-body hyperthermia. Journal of Engineering Mathematics, 2011, 70, 343-362.	0.6	1
162	MRIgHIFU: A tool for imageâ€guided therapeutics. Journal of Magnetic Resonance Imaging, 2011, 34, 482-493.	1.9	63
163	Radiofrequency heating in porcine models with a "large―32 cm internal diameter, 7 T (296 MHz) head coil. Magnetic Resonance in Medicine, 2011, 66, 255-263.	1.9	32
164	Real-Time Passive Acoustic Monitoring of HIFU-Induced Tissue Damage. Ultrasound in Medicine and Biology, 2011, 37, 922-934.	0.7	25
165	Basis for the use of localized hypothermia during radical pelvic surgery. Nature Reviews Urology, 2011, 8, 345-350.	1.9	3
166	Implant strategies for endocervical and interstitial ultrasound hyperthermia adjunct to HDR brachytherapy for the treatment of cervical cancer. Physics in Medicine and Biology, 2011, 56, 3967-3984.	1.6	26
167	Focal Bone Abnormality as a Complication of Ultrasound Diathermy: A Report of Eight Cases. Radiology, 2011, 260, 192-198.	3.6	2
168	Nonthermal irreversible electroporation for intracranial surgical applications. Journal of Neurosurgery, 2011, 114, 681-688.	0.9	89
169	Toward establishment of temperature thresholds for immunological impact of heat exposure in humans. International Journal of Hyperthermia, 2011, 27, 344-352.	1.1	35

	Сітатіс	on Report	
#	Article	IF	CITATIONS
170	Endocervical ultrasound applicator for integrated hyperthermia and HDR brachytherapy in the treatment of locally advanced cervical carcinoma. Medical Physics, 2011, 38, 598-611.	1.6	20
171	Nanoparticle-based cancer treatment: can delivered dose and biological dose be reliably modeled and quantified?. Proceedings of SPIE, 2011, 7901, .	0.8	0
172	MR Thermometry. Medical Radiology, 2011, , 271-288.	0.0	16
173	A liver-mimicking MRI phantom for thermal ablation experiments. Medical Physics, 2011, 38, 2674-2684.	1.6	20
174	Short-term effects of local microwave hyperthermia on pain and function in patients with mild to moderate carpal tunnel syndrome: a double blind randomized sham-controlled trial. Clinical Rehabilitation, 2011, 25, 1109-1118.	1.0	20
175	Design and preliminary study of custom laser scanning cystoscope for automated bladder surveillance. Minimally Invasive Therapy and Allied Technologies, 2012, 21, 320-328.	0.6	4
176	Preliminary study of injury from heating systemically delivered, nontargeted dextran–superparamagnetic iron oxide nanoparticles in mice. Nanomedicine, 2012, 7, 1697-1711.	1.7	71
177	Polymeric micelles: authoritative aspects for drug delivery. Designed Monomers and Polymers, 2012, 15, 465-521.	0.7	176
178	Considerations for theoretical modelling of thermal ablation with catheter-based ultrasonic sources: Implications for treatment planning, monitoring and control. International Journal of Hyperthermia, 2012, 28, 69-86.	1.1	69
179	Design and fabrication of a quasi-ordered nanoporous silicon membrane suitable for thermally induced drug release. Journal of Micromechanics and Microengineering, 2012, 22, 085028.	1.5	10
180	In situ forming implants for local chemotherapy and hyperthermia of bone tumors. Journal of Drug Delivery Science and Technology, 2012, 22, 393-408.	1.4	17
181	Thermoelectric cool-film flow sensor. , 2012, , .		2
182	Optical mapping at increased illumination intensities. Journal of Biomedical Optics, 2012, 17, 0960071.	1.4	14
183	Magnetic Resonance–Guided Focused Ultrasound Surgery. Neurosurgery, 2012, 71, 755-763.	0.6	66
184	A Preclinical System Prototype for Focused Microwave Thermal Therapy of the Breast. IEEE Transactions on Biomedical Engineering, 2012, 59, 2431-2438.	2.5	113
185	Recent advances in MRI technology: Implications for image quality and patient safety. Saudi Journal of Ophthalmology, 2012, 26, 393-399.	0.3	29
186	Thermal effect of endoscopic thermal vapour ablation on the lung surface in human ex vivo tissue. International Journal of Hyperthermia, 2012, 28, 466-472.	1.1	4
187	Design of a wideband multi-channel system for time reversal hyperthermia. International Journal of Hyperthermia, 2012, 28, 175-183.	1.1	16

#	Article	IF	CITATIONS
188	ATF4 and IRE1α inhibit DNA repair protein DNA-dependent protein kinase 1 induced by heat shock. Molecular and Cellular Biochemistry, 2012, 371, 225-232.	1.4	10
190	Challenges to effective cancer nanotheranostics. Journal of Controlled Release, 2012, 164, 177-182.	4.8	69
191	Simultaneous intracranial EEG–fMRI in humans: Protocol considerations and data quality. NeuroImage, 2012, 63, 301-309.	2.1	62
192	Feasibility of an intracranial EEG–fMRI protocol at 3T: Risk assessment and image quality. NeuroImage, 2012, 63, 1237-1248.	2.1	34
193	lonizing radiation increases systemic nanoparticle tumor accumulation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 818-821.	1.7	50
194	The tolerance of reirradiation and hyperthermia in breast cancer patients with reconstructions. International Journal of Hyperthermia, 2012, 28, 267-277.	1.1	12
195	Arrhenius analysis of the relationship between hyperthermia and Hsp70 promoter activation: A comparison between <i>ex vivo</i> and <i>in vivo</i> data. International Journal of Hyperthermia, 2012, 28, 441-450.	1,1	13
196	Modeling Focused Ultrasound Exposure for the Optimal Control of Thermal Dose Distribution. Scientific World Journal, The, 2012, 2012, 1-11.	0.8	9
197	Magnetic resonance-guided high-intensity focused ultrasound (MR-HIFU) ablation of liver tumours. Cancer Imaging, 2012, 12, 397-394.	1.2	60
198	Radiofrequency heating induced by 7T head MRI: Thermal assessment using discrete vasculature or pennes' bioheat equation. Journal of Magnetic Resonance Imaging, 2012, 35, 795-803.	1.9	32
199	Near-Infrared Image-Guided Delivery and Controlled Release Using Optimized Thermosensitive Liposomes. Pharmaceutical Research, 2012, 29, 2092-2103.	1.7	36
200	Magnetic nanoparticle heating and heat transfer on a microscale: Basic principles, realities and physical limitations of hyperthermia for tumour therapy. International Journal of Hyperthermia, 2013, 29, 790-800.	1.1	392
201	MR-guided focused ultrasound surgery, present and future. Medical Physics, 2013, 40, 080901.	1.6	97
202	CEM43°C thermal dose thresholds: a potential guide for magnetic resonance radiofrequency exposure levels?. European Radiology, 2013, 23, 2215-2227.	2.3	222
203	Focused Ultrasound Surgery of the Brain. Current Radiology Reports, 2013, 1, 126-135.	0.4	14
204	Physics of heat generation using magnetic nanoparticles for hyperthermia. International Journal of Hyperthermia, 2013, 29, 715-729.	1.1	279
205	Low dose of continuous – wave microwave irradiation did not cause temperature increase in muscles tissue adjacent to titanium alloy implants – an animal study. BMC Musculoskeletal Disorders, 2013, 14, 364.	0.8	6
206	MicroCT image-generated tumour geometry and SAR distribution for tumour temperature elevation simulations in magnetic nanoparticle hyperthermia. International Journal of Hyperthermia, 2013, 29, 730-738.	1.1	28

#	Article	IF	CITATIONS
207	Comparison of magnetic nanoparticle and microwave hyperthermia cancer treatment methodology and treatment effect in a rodent breast cancer model. International Journal of Hyperthermia, 2013, 29, 819-827.	1.1	40
208	Measurements of RF heating during 3.0-T MRI of a pig implanted with deep brain stimulator. Magnetic Resonance Imaging, 2013, 31, 783-788.	1.0	32
209	Measuring surface temperature and grading pathological changes of airway tissue in a canine model of inhalational thermal injury. Burns, 2013, 39, 767-775.	1.1	11
210	Intraoperative Urologic Ultrasound. , 2013, , 223-241.		0
211	Modelling of endoluminal and interstitial ultrasound hyperthermia and thermal ablation: Applications for device design, feedback control and treatment planning. International Journal of Hyperthermia, 2013, 29, 296-307.	1.1	25
212	Characterization of lesion formation and bubble activities during high-intensity focused ultrasound ablation using temperature-derived parameters. Infrared Physics and Technology, 2013, 60, 108-117.	1.3	8
213	Comparative analysis of mathematical models of cell death and thermal damage processes. International Journal of Hyperthermia, 2013, 29, 262-280.	1.1	127
214	Reverse engineering of the low temperature-sensitive liposome (LTSL) for treating cancer. , 2013, , 270-353e.		5
215	Magnetic nanoparticle hyperthermia enhancement of cisplatin chemotherapy cancer treatment. International Journal of Hyperthermia, 2013, 29, 845-851.	1.1	61
216	Electrosurgical Vessel Sealing Tissue Temperature: Experimental Measurement and Finite Element Modeling. IEEE Transactions on Biomedical Engineering, 2013, 60, 453-460.	2.5	30
217	Image-based modeling and characterization of RF ablation lesions in cardiac arrhythmia therapy. Proceedings of SPIE, 2013, 8671, .	0.8	3
218	Absolute photoacoustic thermometry in deep tissue. Optics Letters, 2013, 38, 5228.	1.7	72
219	Climate sensitivity, sea level and atmospheric carbon dioxide. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120294.	1.6	429
220	Method to reduce non-specific tissue heating of small animals in solenoid coils. International Journal of Hyperthermia, 2013, 29, 106-120.	1.1	22
221	Improved delivery of magnetic nanoparticles with chemotherapy cancer treatment. , 2013, 8584, 85840H.		5
222	In Vivo Experimental Study of Thermal Problems for Rechargeable Neurostimulators. Neuromodulation, 2013, 16, 436-442.	0.4	8
223	Design and validation of a thermoreversible material for percutaneous tissue hydrodissection. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101, 1400-1409.	1.6	14
224	Generalised polynomial chaos-based uncertainty quantification for planning MRgLITT procedures. International Journal of Hyperthermia, 2013, 29, 324-335.	1.1	17

#	Article	IF	CITATIONS
225	Safety first: progress in calibrating high-intensity focused ultrasound treatments. Imaging in Medicine, 2013, 5, 567-575.	0.0	13
226	Treatment efficacy of laser photothermal therapy using gold nanorods. International Journal of Biomedical Engineering and Technology, 2013, 12, 157.	0.2	12
228	On the feasibility of concurrent human TMS-EEC-fMRI measurements. Journal of Neurophysiology, 2013, 109, 1214-1227.	0.9	34
229	Effect of warm compress application on tissue temperature in healthy dogs. American Journal of Veterinary Research, 2013, 74, 448-451.	0.3	9
230	Evolution of the Ablation Region After Magnetic Resonance–Guided High-Intensity Focused Ultrasound Ablation in a Vx2 Tumor Model. Investigative Radiology, 2013, 48, 381-386.	3.5	30
231	Effects of Low-Dose Microwave on Healing of Fractures with Titanium Alloy Internal Fixation: An Experimental Study in a Rabbit Model. PLoS ONE, 2013, 8, e75756.	1.1	17
232	Critical Analysis of Electromagnetic Hyperthermia Randomized Trials: Dubious Effect and Multiple Biases. Conference Papers in Medicine, 2013, 2013, 1-31.	0.6	7
233	Accumulation of Phase-Shift Nanoemulsions to Enhance MR-Guided Ultrasound-Mediated Tumor Ablation In Vivo. Journal of Healthcare Engineering, 2013, 4, 109-126.	1.1	42
234	Validation of a computer model to predict laser induced thermal injury thresholds of the retina. , 2013, , .		9
235	Effects of the Thermal Environment on Articular Chondrocyte Metabolism: A Fundamental Study to Facilitate Establishment of an Effective Thermotherapy for Osteoarthritis. Journal of the Japanese Physical Therapy Association, 2014, 17, 14-21.	0.1	14
236	Near-infrared dye loaded polymeric nanoparticles for cancer imaging and therapy and cellular response after laser-induced heating. Beilstein Journal of Nanotechnology, 2014, 5, 313-322.	1.5	15
237	Ultrasound Therapy. , 2014, , 153-168.		3
238	Adaptive model-predictive controller for magnetic resonance guided focused ultrasound therapy. International Journal of Hyperthermia, 2014, 30, 456-470.	1.1	14
239	Thermal dosimetry characteristics of deep regional heating of non-muscle invasive bladder cancer. International Journal of Hyperthermia, 2014, 30, 176-183.	1.1	27
240	The accuracy and precision of two non-invasive, magnetic resonance-guided focused ultrasound-based thermal diffusivity estimation methods. International Journal of Hyperthermia, 2014, 30, 362-371.	1.1	15
241	Optimum temperature for extracellular matrix production by articular chondrocytes. International Journal of Hyperthermia, 2014, 30, 96-101.	1.1	15
242	In vivo radiofrequency heating in swine in a 3T (123.2-MHz) birdcage whole body coil. Magnetic Resonance in Medicine, 2014, 72, 1141-1150.	1.9	23
243	Nanowire light scattering variation induced by magnetic alignment. Journal of Applied Physics, 2014, 116, 074305.	1.1	5

	CITATION	REPORT	
#	Article	IF	CITATIONS
244	Magnetic particle hyperthermia—a promising tumour therapy?. Nanotechnology, 2014, 25, 452001.	1.3	407
245	Thermal and Microwave Constrained Focusing for Patient-Specific Breast Cancer Hyperthermia: A Robustness Assessment. IEEE Transactions on Antennas and Propagation, 2014, 62, 814-821.	3.1	62
246	Three-dimensional power focusing and shaping for effective hyperthermia treatment planning. , 2014, ,		1
247	Simulation study of the effects of near- and far-field heating during focused ultrasound uterine fibroid ablation using an electronically focused phased array: A theoretical analysis of patient safety. Medical Physics, 2014, 41, 072902.	1.6	26
248	Laser vaccine adjuvants. Human Vaccines and Immunotherapeutics, 2014, 10, 1892-1907.	1.4	38
249	Evaluation of Epidural and Peripheral Nerve Catheter Heating During Magnetic Resonance Imaging. Regional Anesthesia and Pain Medicine, 2014, 39, 534-539.	1.1	9
250	Thermal Tissue Damage Model Analyzed for Different Wholeâ€Body SAR and Scan Durations for Standard MR Body Coils. Magnetic Resonance in Medicine, 2014, 71, 421-431.	1.9	76
251	Radiofrequency contact currents: sensory responses and dosimetry. Radiation Protection Dosimetry, 2014, 162, 268-279.	0.4	10
252	Rationalization of thermal injury quantification methods: Application to skin burns. Burns, 2014, 40, 896-902.	1.1	51
253	Polyacrylamide phantom for self-actuating needle–tissue interaction studies. Medical Engineering and Physics, 2014, 36, 140-145.	0.8	36
254	A targeted approach to cancer imaging and therapy. Nature Materials, 2014, 13, 110-115.	13.3	247
255	Characterization of intratumor magnetic nanoparticle distribution and heating in a rat model of metastatic spine disease. Journal of Neurosurgery: Spine, 2014, 20, 740-750.	0.9	27
256	Thermoelectric Cool-Film Shear Stress Sensor. IEEE Electron Device Letters, 2014, 35, 783-785.	2.2	2
257	Experimental characterisation of the thermal lesion induced by microwave ablation. International Journal of Hyperthermia, 2014, 30, 110-118.	1.1	57
258	Interstitial hyperthermia treatment of countercurrent vascular tissue: A comparison of Pennes, WJ and porous media bioheat models. Journal of Thermal Biology, 2014, 46, 47-55.	1.1	22
259	Temperature-responsive polymeric micelles for optimizing drug targeting to solid tumors. Journal of Controlled Release, 2014, 193, 2-8.	4.8	171
260	Hyperthermia Therapy for Cancer. , 2014, , 115-151.		7
261	Photoresponsive hydrogel networks using melanin nanoparticle photothermal sensitizers. Biomaterials Science, 2014, 2, 766.	2.6	30

#	Article	IF	CITATIONS
262	Design and initial evaluation of a treatment planning software system for MRI-guided laser ablation in the brain. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 659-667.	1.7	18
263	Thermoelectrical Modeling of Bipolar Coagulation on Posterior Spinal Artery in a Porcine Spinal Surgery Model. IEEE Transactions on Biomedical Engineering, 2014, 61, 182-188.	2.5	9
265	Magnetic Resonance Imaging Conditionally Safe Neurostimulation Leads. Neurosurgery, 2014, 74, 215-225.	0.6	22
266	Superficial heat therapy for dogs and cats, part 2: using heat therapy in practice. Companion Animal, 2015, 20, 676-684.	0.0	0
267	Intramuscular Heating Characteristics of Multihour Low-Intensity Therapeutic Ultrasound. Journal of Athletic Training, 2015, 50, 1158-1164.	0.9	19
268	Real-time Monitoring of High Intensity Focused Ultrasound (HIFU) Ablation of In Vitro Canine Livers Using Harmonic Motion Imaging for Focused Ultrasound (HMIFU). Journal of Visualized Experiments, 2015, , e53050.	0.2	11
269	Multiparametric MRI analysis for the evaluation of MRâ€guided high intensity focused ultrasound tumor treatment. NMR in Biomedicine, 2015, 28, 1125-1140.	1.6	14
270	Internal Magnetic Structure of Nanoparticles Dominates Timeâ€Dependent Relaxation Processes in a Magnetic Field. Advanced Functional Materials, 2015, 25, 4300-4311.	7.8	100
271	Rapid method for thermal doseâ€based safety supervision during MR scans. Bioelectromagnetics, 2015, 36, 398-407.	0.9	17
272	Linking Energy Levels in the Circadian Core Body Temperature Cycle to Human Health and Well-Being. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	1.4	1
273	Temperature imaging with speed of ultrasonic transmission tomography for medical treatment control: A physical model-based method. Chinese Physics B, 2015, 24, 104303.	0.7	1
274	Thermal effects of 2450 MHz microwave exposure near a titanium alloy plate implanted in rabbit limbs. Bioelectromagnetics, 2015, 36, 309-318.	0.9	4
275	Magnetic Resonance Imaging Assessment of Effective Ablated Volume following High Intensity Focused Ultrasound. PLoS ONE, 2015, 10, e0120037.	1.1	18
276	Culture temperature affects redifferentiation and cartilaginous extracellular matrix formation in dedifferentiated human chondrocytes. Journal of Orthopaedic Research, 2015, 33, 633-639.	1.2	15
277	Biomarkers of multiorgan injury in a preclinical model of exertional heat stroke. Journal of Applied Physiology, 2015, 118, 1207-1220.	1.2	50
278	In-vitro hyperthermia studied by cellular impedance sensors. , 2015, , .		0
279	Heating and Safety Concerns of the Radio-Frequency Field in MRI. Current Radiology Reports, 2015, 3, 1.	0.4	24
280	Mathematical Modeling of the Heat-Shock Response in HeLa Cells. Biophysical Journal, 2015, 109, 182-193.	0.2	35

#	Article	IF	CITATIONS
281	Thermal build-up, decay and retention responses to local therapeutic application of 448 kHz capacitive resistive monopolar radiofrequency: A prospective randomised crossover study in healthy adults. International Journal of Hyperthermia, 2015, 31, 883-895.	1.1	49
282	Nd:YAG Nearâ€Infrared Luminescent Nanothermometers. Advanced Optical Materials, 2015, 3, 687-694.	3.6	256
283	Quantitative Models of Thermal Damage to Cells and Tissues. , 2015, , 59-76.		7
284	Experimental investigation and histopathological identification of acute thermal damage in skeletal porcine muscle in relation to whole-body SAR, maximum temperature, and CEM43 °C due to RF irradiation in an MR body coil of birdcage type at 123 MHz. International Journal of Hyperthermia, 2015, 31, 409-420.	1.1	19
285	Non-lethal heat treatment of cells results in reduction of tumor initiation and metastatic potential. Biochemical and Biophysical Research Communications, 2015, 464, 51-56.	1.0	5
286	Local hyperthermia combined with radiotherapy and-/or chemotherapy: Recent advances and promises for the future. Cancer Treatment Reviews, 2015, 41, 742-753.	3.4	414
287	Simulation of thermal ablation by high-intensity focused ultrasound with temperature-dependent properties. Ultrasonics Sonochemistry, 2015, 27, 456-465.	3.8	25
288	Effects of Heating Temperature and Duration by Gold Nanorod Mediated Plasmonic Photothermal Therapy on Copolymer Accumulation in Tumor Tissue. Molecular Pharmaceutics, 2015, 12, 1605-1614.	2.3	17
289	Arterial microanatomy determines the success of energy-based renal denervation in controlling hypertension. Science Translational Medicine, 2015, 7, 285ra65.	5.8	57
290	Mechanical High-Intensity Focused Ultrasound Destruction of Soft Tissue: Working Mechanisms and Physiologic Effects. Ultrasound in Medicine and Biology, 2015, 41, 1500-1517.	0.7	103
291	Utility and translatability of mathematical modeling, cell culture and small and large animal models in magnetic nanoparticle hyperthermia cancer treatment research. , 2015, , .		0
292	Heat transfer within hydrodissection fluids: An analysis of thermal conduction and convection using liquid and gel materials. International Journal of Hyperthermia, 2015, 31, 551-559.	1.1	6
294	Influence of the target tissue size on the shape of <i>ex vivo</i> microwave ablation zones. International Journal of Hyperthermia, 2015, 31, 48-57.	1.1	28
295	Mitochondria-targeted fluorescent thermometer monitors intracellular temperature gradient. Chemical Communications, 2015, 51, 8044-8047.	2.2	159
296	Coagulation and ablation patterns of high-intensity focused ultrasound on a tissue-mimicking phantom and cadaveric skin. Lasers in Medical Science, 2015, 30, 2251-2258.	1.0	20
297	Evolution of Thermal Dosimetry for Application of Hyperthermia to Treat Cancer. Advances in Heat Transfer, 2015, 47, 397-421.	0.4	25
298	Characterization of tumour laser ablation probes with temperature measuring capabilities. , 2015, , .		4
299	Modelling mass and heat transfer in nano-based cancer hyperthermia. Royal Society Open Science, 2015, 2, 150447.	1.1	60

#	Article	IF	CITATIONS
300	Visible light and near-infrared-responsive chromophores for drug delivery-on-demand applications. Drug Delivery and Translational Research, 2015, 5, 611-624.	3.0	23
301	Prediction of photothermal phase signatures from arbitrary plasmonic nanoparticles and experimental verification. Light: Science and Applications, 2015, 4, e322-e322.	7.7	80
302	In vitro hyperthermia studied in a continuous manner using electric impedance sensing. RSC Advances, 2015, 5, 62007-62016.	1.7	15
303	Model predictive control for treating cancer with ultrasonic heating. , 2015, , .		5
304	A model evaluation study for treatment planning of laser-induced thermal therapy. International Journal of Hyperthermia, 2015, 31, 705-714.	1.1	17
305	Advances in MR image-guided high-intensity focused ultrasound therapy. International Journal of Hyperthermia, 2015, 31, 225-232.	1.1	64
306	Fiber Optic Sensors for Temperature Monitoring during Thermal Treatments: An Overview. Sensors, 2016, 16, 1144.	2.1	156
307	The Effects of Extremely Low-Frequency Magnetic Fields on Reproductive Function in Rodents. , 2016, , \cdot		0
308	Controlled Drug Release and Chemotherapy Response in a Novel Acoustofluidic 3D Tumor Platform. Small, 2016, 12, 2616-2626.	5.2	33
309	<i>In vivo</i> MR guided boiling histotripsy in a mouse tumor model evaluated by MRI and histopathology. NMR in Biomedicine, 2016, 29, 721-731.	1.6	25
310	Temperature measurement in human fat with <i>T</i> ₂ imaging. Journal of Magnetic Resonance Imaging, 2016, 43, 1171-1178.	1.9	8
311	Microwave ablation-assisted liver gene transfection in rats. International Journal of Hyperthermia, 2016, 32, 666-672.	1.1	1
312	Virtual populationâ€based assessment of the impact of 3 Tesla radiofrequency shimming and thermoregulation on safety and B ₁ + uniformity. Magnetic Resonance in Medicine, 2016, 76, 986-997.	1.9	42
313	Efficacy and Mechanisms of Aerobic Exercise on Cancer Initiation, Progression, and Metastasis: A Critical Systematic Review of <i>In Vivo</i> Preclinical Data. Cancer Research, 2016, 76, 4032-4050.	0.4	145
314	On the advancement and software support of decisionâ€making in focused ultrasound therapy. Journal of Multi-Criteria Decision Analysis, 2016, 23, 174-182.	1.0	1
315	Focused ultrasound therapy of cervical lymph nodes in rats for alleviating EAE. , 2016, , .		Ο
316	Emerging Applications of Therapeutic Ultrasound in Neuro-oncology. Neurosurgery, 2016, 79, 643-654.	0.6	74
317	Polydopamine Coating for Thermal Insulation of Shape Memory Alloy Wires. , 2016, , .		2

#	Article	IF	CITATIONS
318	Improving thermal dose accuracy in magnetic resonance-guided focused ultrasound surgery: Long-term thermometry using a prior baseline as a reference. Journal of Magnetic Resonance Imaging, 2016, 43, 181-189.	1.9	16
319	Surface functionalization superparamagnetic nanoparticles conjugated with thermoresponsive poly(epsilon-lysine) dendrons tethered with carboxybetaine for the mild hyperthermia-controlled delivery of VEGF. Acta Biomaterialia, 2016, 40, 235-242.	4.1	38
320	Numerical and ex vivo studies of a bioprobe developed for laser-induced thermotherapy (LITT) in contact with liver tissue. Medical Engineering and Physics, 2016, 38, 733-740.	0.8	5
321	Thermal dosimetry for bladder hyperthermia treatment. An overview. International Journal of Hyperthermia, 2016, 32, 417-433.	1.1	25
322	Thermal therapy of pancreatic tumours using endoluminal ultrasound: Parametric and patient-specific modelling. International Journal of Hyperthermia, 2016, 32, 97-111.	1.1	19
323	Hyperthermia exacerbates the effects of cathepsin L on claudin-1 in a blood-brain barrier model in vitro. Brain Research, 2016, 1631, 72-79.	1.1	3
324	Safe use of subdermal needles for intraoperative monitoring with MRI. Neurosurgical Focus, 2016, 40, E19.	1.0	10
325	Fibre optic sensors for temperature and pressure monitoring in laser ablation: experiments on ex-vivo animal model. Proceedings of SPIE, 2016, , .	0.8	0
326	Review: Photochemical Tissue Bonding (PTB) methods for sutureless tissue adhesion. International Journal of Adhesion and Adhesives, 2016, 71, 87-98.	1.4	18
327	Brain heating induced by near-infrared lasers during multiphoton microscopy. Journal of Neurophysiology, 2016, 116, 1012-1023.	0.9	242
328	Model predictive control of thermal effects of an atmospheric pressure plasma jet for biomedical applications. , 2016, , .		7
329	Ex Vivo HIFU Experiments Using a \$32 imes 32\$ -Element CMUT Array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2150-2158.	1.7	24
330	Towards inline spatially resolved temperature sensing in thermal ablation with chirped fiber Bragg grating. , 2016, , .		10
331	MRI methods for the evaluation of high intensity focused ultrasound tumor treatment: Current status and future needs. Magnetic Resonance in Medicine, 2016, 75, 302-317.	1.9	45
332	The effects of laser repetition rate on femtosecond laser ablation of dry bone: a thermal and LIBS study. Journal of Biophotonics, 2016, 9, 171-180.	1.1	22
333	Hyperthermia. , 2016, , 381-398.e6.		7
334	Focused Ultrasound Treatment of Cervical Lymph Nodes in Rats with EAE: A Pilot Study. Ultrasound in Medicine and Biology, 2016, 42, 2957-2964.	0.7	1
335	Portable optical fiber probe for in vivo brain temperature measurements. Biomedical Optics Express, 2016. 7, 3069	1.5	61

#	Article	IF	CITATIONS
336	Fiber Bragg grating sensors for spatially resolved measurements in ex-vivo pancreatic laser ablation. , 2016, , .		1
337	Comprehensive method to predict and quantify scald burns from beverage spills. International Journal of Hyperthermia, 2016, 32, 900-910.	1.1	28
338	Optimizing photoacoustic-based thermal image formation by comparing four different methods. , 2016, , .		0
339	Hyperthermia phased arrays pre-treatment evaluation. International Journal of Hyperthermia, 2016, 32, 911-922.	1.1	13
340	Laser Interstitial Thermal Therapy Technology, Physics of Magnetic Resonance Imaging Thermometry, and Technical Considerations for Proper Catheter Placement During Magnetic Resonance Imaging–Guided Laser Interstitial Thermal Therapy. Neurosurgery, 2016, 79, S8-S16.	0.6	54
341	Damage criteria for cerebral cortex cells subjected to hyperthermia. International Journal of Hyperthermia, 2016, 32, 704-712.	1.1	4
342	Poly(vinyl alcohol) tissue phantoms as a robustin vitromodel for heat transfer. International Journal of Polymeric Materials and Polymeric Biomaterials, 2016, 65, 797-806.	1.8	4
343	Drift correction for accurate PRF-shift MR thermometry during mild hyperthermia treatments with MR-HIFU. International Journal of Hyperthermia, 2016, 32, 673-687.	1.1	39
344	Characterisation of a novel light activated adhesive scaffold: Potential for device attachment. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 62, 433-445.	1.5	8
345	Safety of Lumbar Spine Radiofrequency Procedures in Patients Who Have Posterior Spinal Hardware. Pain Medicine, 2016, 17, 1634-1637.	0.9	13
346	Is CEM43 still a relevant thermal dose parameter for hyperthermia treatment monitoring?. International Journal of Hyperthermia, 2016, 32, 50-62.	1.1	132
347	On the Design of Phased Arrays for Medical Applications. Proceedings of the IEEE, 2016, 104, 633-648.	16.4	42
348	Magnetomotive Optical Coherence Elastography for Magnetic Hyperthermia Dosimetry Based on Dynamic Tissue Biomechanics. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 104-119.	1.9	18
349	Method of hyperthermia and tumor size influence effectiveness of doxorubicin release from thermosensitive liposomes in experimental tumors. Journal of Controlled Release, 2016, 222, 47-55.	4.8	50
350	Absence of acute ocular damage in humans after prolonged exposure to intense RF EMF. Physics in Medicine and Biology, 2016, 61, 488-503.	1.6	7
351	Controlling Parameters for Plasmonic Photothermal Ablation of a Tumor. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 1-8.	1.9	4
352	Clinically Relevant Pharmacological Strategies That Reverse MDMA-Induced Brain Hyperthermia Potentiated by Social Interaction. Neuropsychopharmacology, 2016, 41, 549-559.	2.8	16
353	<scp>RF</scp> safety assessment of a bilateral fourâ€channel transmit/receive 7 Tesla breast coil: <scp>SAR</scp> versus tissue temperature limits. Medical Physics, 2017, 44, 143-157.	1.6	7

		Citation Repo	RT	
#	Article	IF	.	CITATIONS
354	Treatment Efficacy for Validating MicroCT-Based Theoretical Simulation Approach in Magne Nanoparticle Hyperthermia for Cancer Treatment. Journal of Heat Transfer, 2017, 139, .	tic 1.	.2	8
355	Numerical Model Study of In Vivo Magnetic Nanoparticle Tumor Heating. IEEE Transactions Biomedical Engineering, 2017, 64, 2813-2823.	on <u>2</u> .	.5	10
357	A review of the evidence for threshold of burn injury. Burns, 2017, 43, 1624-1639.	1.	.1	67
358	Modeling and Experimental Analysis of Thermal Therapy during Short Pulse Laser Irradiatior 243-259.	.,2017,,		0
359	Enhancement of photodynamic inactivation of Staphylococcus aureus biofilms by disruptiv strategies. Lasers in Medical Science, 2017, 32, 1757-1767.	2 1.	.0	2
360	Thermal Skin Damage During Reirradiation and Hyperthermia Is Time-Temperature Depende International Journal of Radiation Oncology Biology Physics, 2017, 98, 392-399.	nt. o	.4	25
361	Preliminary assessment of a hysteroscopic fallopian tube heat and biomaterial technology f permanent female sterilization. , 2017, 10066, .	or		3
362	Integrated HIFU Drive System on a Chip for CMUT-Based Catheter Ablation System. IEEE Tr Biomedical Circuits and Systems, 2017, 11, 534-546.	ansactions on 2.	.7	22
363	Thermal injury of skin and subcutaneous tissues: A review of experimental approaches and models. Burns, 2017, 43, 909-932.	numerical 1.	.1	78
364	Combining magnetic particle imaging and magnetic fluid hyperthermia in a theranostic plat Physics in Medicine and Biology, 2017, 62, 3483-3500.	form. 1.	.6	113
365	Nonlinear plasmonics at high temperatures. Nanophotonics, 2017, 6, 317-328.	2.	.9	53
366	Microwave ablation of renal tumors: A narrative review of technical considerations and clini results. Diagnostic and Interventional Imaging, 2017, 98, 287-297.	cal 1.	.8	46
367	Equivalence of cell survival data for radiation dose and thermal dose in ablative treatments: applied to essential tremor thalamotomy by focused ultrasound and gamma knife. Internat Journal of Hyperthermia, 2017, 33, 401-410.	analysis Ional 1.	.1	10
368	Yawning, a thermoregulatory mechanism during fever? A study of yawning frequency and it predictors during experimentally induced sickness. Physiology and Behavior, 2017, 182, 27	s 1. -33.	.0	11
369	Synergistic effects of heat and antibiotics on <i>Pseudomonas aeruginosa</i> biofilms. Bio 2017, 33, 855-866.	fouling, O	.8	30
370	Effects of Recovery Time during Magnetic Nanofluid Hyperthermia on the Induction Behavio Efficiency of Heat Shock Proteins 72. Scientific Reports, 2017, 7, 13942.	pr and 1.	.6	1
371	Ratiometric Afterglow Nanothermometer for Simultaneous <i>in Situ</i> Bioimaging and L Temperature Sensing. Chemistry of Materials, 2017, 29, 8119-8131.	ocal Tissue 3.	.2	67
372	Validation of a computer model to predict laser induced retinal injury thresholds. Journal of Applications, 2017, 29, .	Laser 0	.8	11

ARTICLE IF CITATIONS # Transcutaneous Recharge: A Comparison of Numerical Simulation to In Vivo Experiments. 373 0.4 5 Neuromodulation, 2017, 20, 613-621. Cranial arterial patterns of the alpaca (Camelidae: Vicugna pacos). Royal Society Open Science, 2017, 4, 374 1.1 160967. 375 Blood and Heat Transfer. Modeling, Simulation and Applications, 2017, , 227-264. 2 1.3 Real-time temperature monitoring and estimation of thermal damage in pancreas undergoing magnetic resonance-guided laser ablation: First in vivo study. , 2017, , . Effective dose delivery in atmospheric pressure plasma jets for plasma medicine: a model predictive 377 1.3 44 control approach. Plasma Sources Science and Technology, 2017, 26, 085005. Theoretical investigation of transgastric and intraductal approaches for ultrasound-based thermal therapy of the pancreas. Journal of Therapeutic Ultrasound, 2017, 5, 10. 2.2 Therapeutic Equipment for Brain-Hyperthermia Using Convective Spray Cooling. Journal of Medical 379 0.4 2 Devices, Transactions of the ASME, 2017, 11, . 3D radiobiological evaluation of combined radiotherapy and hyperthermia treatments. International 380 1.1 Journal of Hyperthermia, 2017, 33, 160-169. Gold nanorod-mediated near-infrared laser ablation: <i>in vivo</i> experiments on mice and 381 1.1 41 theoretical analysis at different settings. International Journal of Hyperthermia, 2017, 33, 150-159. Three-Dimensional Microwave Hyperthermia for Breast Cancer Treatment in a Realistic Environment 2.5 Using Particle Swarm Optimization. IEEE Transactions on Biomedical Engineering, 2017, 64, 1335-1344. Multi-Frequency Constrained SAR Focusing for Patient Specific Hyperthermia Treatment. IEEE Journal 383 2.322 of Electromagnetics, RF and Microwaves in Medicine and Biology, 2017, 1, 74-80. Laser Ablation for Cancer: Past, Present and Future. Journal of Functional Biomaterials, 2017, 8, 19. 384 1.8 116 Albumin-Gold Nanorod Nanoplatform for Cell-Mediated Tumoritropic Delivery with Homogenous 385 4.6 22 ChemoDrug Distribution and Enhanced Retention Ability. Theranostics, 2017, 7, 3034-3052. Boiling histotripsy lesion characterization on a clinical magnetic resonance imaging-guided high intensity focused ultrasound system. PLoS ONE, 2017, 12, e0173867. 1.1 New experimental model for single liver lobe hyperthermia in small animals using non-directional 387 2 1.1 microwaves. PLoS ONE, 2017, 12, e0184810. Current and emerging brain applications of MR-guided focused ultrasound. Journal of Therapeutic 2.2 36 Ultrasound, 2017, 5, 26. 389 Physical Exercise-Induced Changes in Brain Temperature., 2017, , 29-38. 2 390 MR images-Based Microwave Focusing for Thermal Therapy., 2017, , .

#	Article	IF	CITATIONS
391	Factors influencing thermal injury to skin and abdominal wall structures in HIFU ablation of uterine fibroids. International Journal of Hyperthermia, 2018, 34, 1298-1303.	1.1	24
392	A Wearable Photobiomodulation Patch Using a Flexible Redâ€Wavelength OLED and Its In Vitro Differential Cell Proliferation Effects. Advanced Materials Technologies, 2018, 3, 1700391.	3.0	68
393	On the development of a deployable cold plasma endoscope. Contributions To Plasma Physics, 2018, 58, 404-414.	0.5	26
394	Are infectious diseases and microbiology new fields for thermal therapy research?. International Journal of Hyperthermia, 2018, 34, 918-924.	1.1	15
395	Thermal shock susceptibility and regrowth ofPseudomonas aeruginosabiofilms. International Journal of Hyperthermia, 2018, 34, 168-176.	1.1	15
396	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.	1.1	15
397	Summary of numerical analyses for therapeutic uses of laser-activated gold nanoparticles. International Journal of Hyperthermia, 2018, 34, 1255-1264.	1.1	12
398	SAR thresholds for electromagnetic exposure using functional thermal dose limits. International Journal of Hyperthermia, 2018, 34, 1248-1254.	1.1	15
399	Targeted heat activation of HSP promoters in the skin of mammalian animals and humans. Cell Stress and Chaperones, 2018, 23, 455-466.	1.2	12
400	Mechanical fractionation of tissues using microsecond-long HIFU pulses on a clinical MR-HIFU system. International Journal of Hyperthermia, 2018, 34, 1213-1224.	1.1	23
401	A heterogeneous tissue model for treatment planning for magnetic resonance-guided laser interstitial thermal therapy. International Journal of Hyperthermia, 2018, 34, 943-952.	1.1	9
402	Principles of focused ultrasound. Minimally Invasive Therapy and Allied Technologies, 2018, 27, 41-50.	0.6	20
403	Safety Aspects of Non-Thermal Plasmas. , 2018, , 83-109.		6
404	Establishment of a human intrapleural hyperthermic perfusion model and analysis of pleural malignancy treatment depth. Respiratory Medicine, 2018, 138, 144-149.	1.3	4
407	Transurethral high-intensity ultrasound for treatment of stress urinary incontinence (SUI): simulation studies with patient-specific models. International Journal of Hyperthermia, 2018, 34, 1236-1247.	1.1	6
408	Computation of ultimate SAR amplification factors for radiofrequency hyperthermia in non-uniform body models: impact of frequency and tumour location. International Journal of Hyperthermia, 2018, 34, 87-100.	1.1	22
409	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.	1.1	34
410	Theoretical model for laser ablation outcome predictions in brain: calibration and validation on clinical MR thermometry images. International Journal of Hyperthermia, 2018, 34, 101-111.	1.1	9

#	Article	IF	Citations
411	SAR Simulations & amp; Safety. NeuroImage, 2018, 168, 33-58.	2.1	82
412	Real-Time Three-Dimensional Microwave Monitoring of Interstitial Thermal Therapy. IEEE Transactions on Biomedical Engineering, 2018, 65, 528-538.	2.5	51
413	Relationships between thermal dose parameters and the efficacy of definitive chemoradiotherapy plus regional hyperthermia in the treatment of locally advanced cervical cancer: data from a multicentre randomised clinical trial. International Journal of Hyperthermia, 2018, 34, 461-468.	1.1	46
414	Commentary on the clinical and preclinical dosage limits of interstitially administered magnetic fluids for therapeutic hyperthermia based on current practice and efficacy models. International Journal of Hyperthermia, 2018, 34, 671-686.	1.1	41
415	Transcranial MRIâ€guided highâ€intensity focused ultrasound for treatment of essential tremor: A pilot study on the correlation between lesion size, lesion location, thermal dose, and clinical outcome. Journal of Magnetic Resonance Imaging, 2018, 48, 58-65.	1.9	43
416	Physical and Chemical Enhancement of and Adaptive Resistance to Irreversible Electroporation of Pancreatic Cancer. Annals of Biomedical Engineering, 2018, 46, 25-36.	1.3	16
417	Spatiotemporal modeling of laser tissue soldering using photothermal nanocomposites. Lasers in Surgery and Medicine, 2018, 50, 143-152.	1.1	20
418	A methodology for thermal dose model parameter development using perioperative MRI. International Journal of Hyperthermia, 2018, 34, 687-696.	1.1	6
419	Novel hyperthermia applicator system allows adaptive treatment planning: Preliminary clinical results in tumourâ€bearing animals. Veterinary and Comparative Oncology, 2018, 16, 202-213.	0.8	9
420	Nanoparticle-Assisted STED Nanoscopy with Gold Nanospheres. ACS Photonics, 2018, 5, 2574-2583.	3.2	24
421	A Review of the Current Therapies, Challenges, and Future Directions of Transcranial Focused Ultrasound Technology. JAMA Neurology, 2018, 75, 246.	4.5	176
422	The usefulness of mobile insulator sheets for the optimisation of deep heating area for regional hyperthermia using a capacitively coupled heating method: phantom, simulation and clinical prospective studies. International Journal of Hyperthermia, 2018, 34, 1092-1103.	1.1	6
423	A stepping micromotor based on ferrofluid bearing for side-viewing microendoscope applications. Sensors and Actuators A: Physical, 2018, 269, 258-268.	2.0	20
424	Optimization of an Endoscopic Radiofrequency Ablation Electrode. Journal of Medical Devices, Transactions of the ASME, 2018, 12, .	0.4	3
425	Measurement of internal temperature in biological tissue specimen with deformation by statistical analysis of ultrasonic scattered echoes. Japanese Journal of Applied Physics, 2018, 57, 07LB17.	0.8	9
426	Oncological hyperthermia: The correct dosing in clinical applications. International Journal of Oncology, 2019, 54, 627-643.	1.4	16
427	Body temperature and clinical thermometry. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 157, 467-482.	1.0	38
428	Planar coil-based contact-mode magnetic stimulation: synaptic responses in hippocampal slices and thermal considerations. Scientific Reports, 2018, 8, 13423.	1.6	3

#	Article	IF	CITATIONS
429	Effect of Baseline Impedance on Ablation Lesion Dimensions. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e006690.	2.1	59
430	Comparison of effectiveness of epidural analgesia and monitored anesthesia care for high-intensity focused ultrasound treatment of adenomyosis. International Journal of Hyperthermia, 2018, 35, 617-625.	1.1	1
431	Feasibility of targeting canine soft tissue sarcoma with MR-guided high-intensity focused ultrasound. International Journal of Hyperthermia, 2018, 35, 205-215.	1.1	7
432	Combining Bulk Temperature and Nanoheating Enables Advanced Magnetic Fluid Hyperthermia Efficacy on Pancreatic Tumor Cells. Scientific Reports, 2018, 8, 13210.	1.6	55
433	Modulation of Cerebellar Cortical Plasticity Using Low-Intensity Focused Ultrasound for Poststroke Sensorimotor Function Recovery. Neurorehabilitation and Neural Repair, 2018, 32, 777-787.	1.4	35
434	Spatial and Temporal Confined Photothermolysis of Cancer Cells Mediated by Hollow Gold Nanospheres Targeted to Epidermal Growth Factor Receptors. ACS Omega, 2018, 3, 5888-5895.	1.6	4
435	Current Outlook and Perspectives on Nanoparticle-Mediated Magnetic Hyperthermia. , 2018, , 197-245.		38
436	Colloidal stability of superparamagnetic iron oxide nanoparticles in the central nervous system: a review. Nanomedicine, 2018, 13, 1385-1400.	1.7	35
437	Emerging Strategies and Future Perspective in Neuro-Oncology Using Transcranial Focused Ultrasonography Technology. World Neurosurgery, 2018, 117, 84-91.	0.7	10
438	High-Intensity Focused Ultrasound Ablation Therapy of Gliomas. Progress in Neurological Surgery, 2018, 32, 39-47.	1.3	17
439	High-Intensity Focused Ultrasound Surgery for the Treatment of Obsessive–Compulsive Disorder. , 2018, , 1045-1056.		2
440	Gold Nanoparticle-Based Laser Photothermal Therapy. , 2018, , 2455-2487.		0
441	On the photo-thermal effect of intra-body nano-optical communications on red blood cells. , 2018, , .		3
442	Predicting lesion size by accumulated thermal dose in MRâ€guided focused ultrasound for essential tremor. Medical Physics, 2018, 45, 4704-4710.	1.6	41
443	Three-dimensional biomimetic head model as a platform for thermal testing of protective goggles for prevention of eye injuries. Clinical Biomechanics, 2019, 64, 35-41.	0.5	8
444	The efficacy and limits of magnetic resonance–guided focused ultrasound pallidotomy for Parkinson's disease: a Phase I clinical trial. Journal of Neurosurgery, 2019, 130, 1853-1861.	0.9	60
445	Investigation of initial value dependence in the statistical analysis of ultrasonic scattered echoes for the non-invasive estimation of temperature distribution in biological tissue. Japanese Journal of Applied Physics, 2019, 58, SGGE09.	0.8	7
446	Evaluating HIFUâ€mediated local drug release using thermal strain imaging: Phantom and preliminary <i>inâ€vivo</i> studies. Medical Physics, 2019, 46, 3864-3876.	1.6	11

#	Article	IF	CITATIONS
447	Solarâ€induced dorsal skin necrosis in sheep. Veterinary Dermatology, 2019, 30, 442.	0.4	2
448	Increased uptake of doxorubicin by cells undergoing heat stress does not explain its synergistic cytotoxicity with hyperthermia. International Journal of Hyperthermia, 2019, 36, 711-719.	1.1	20
449	Dynamical thermal dose models and dose time-profile effects. International Journal of Hyperthermia, 2019, 36, 720-728.	1.1	6
450	Temperature mapping of exothermic <i>in situ</i> chemistry: imaging of thermoembolization via MR. International Journal of Hyperthermia, 2019, 36, 729-737.	1.1	4
451	Predictive control of 2D spatial thermal dose delivery in atmospheric pressure plasma jets. Plasma Sources Science and Technology, 2019, 28, 085001.	1.3	22
452	Tumor blood perfusion-based requirement of nanoparticle dose-loadings for plasmonic photothermal therapy. Nanomedicine, 2019, 14, 1841-1855.	1.7	6
453	Histopathological Characterization ofÂRadiofrequency Ablation in VentricularÂScar Tissue. JACC: Clinical Electrophysiology, 2019, 5, 920-931.	1.3	43
454	Numerical simulation of magnetic fluid hyperthermia based on multiphysics coupling and recommendation on preferable treatment conditions. Current Applied Physics, 2019, 19, 1031-1039.	1.1	11
455	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, 1023-1038.	1.1	72
456	Review of the Clinical Evidences of Modulated Electro-Hyperthermia (mEHT) Method: An Update for the Practicing Oncologist. Frontiers in Oncology, 2019, 9, 1012.	1.3	39
457	Predicting highâ€intensity focused ultrasound thalamotomy lesions using 2D magnetic resonance thermometry and 3D Gaussian modeling. Medical Physics, 2019, 46, 5722-5732.	1.6	8
458	Temperature control in TTFields therapy of GBM: impact on the duty cycle and tissue temperature. Physics in Medicine and Biology, 2019, 64, 225008.	1.6	14
459	Using the body to self-cool a 10 W transcutaneous energy transfer system. , 2019, , .		0
460	Electrical and thermal analyses of catheter-based irreversible electroporation of digestive tract. International Journal of Hyperthermia, 2019, 36, 853-866.	1.1	11
461	Role of Simulations in the Treatment Planning of Radiofrequency Hyperthermia Therapy in Clinics. Journal of Oncology, 2019, 2019, 1-12.	0.6	14
462	Histopathological evaluation of prostate specimens after thermal ablation may be confounded by the presence of thermally-fixed cells. International Journal of Hyperthermia, 2019, 36, 914-924.	1.1	6
463	Assistance of metal nanoparticles in photocatalysis – nothing more than a classical heat source. Faraday Discussions, 2019, 214, 215-233.	1.6	67
464	Spatial thermal dose delivery in atmospheric pressure plasma jets. Plasma Sources Science and Technology, 2019, 28, 025006.	1.3	12

#	Article	IF	CITATIONS
465	Efficient shear wave elastography using transient acoustic radiation force excitations and MR displacement encoding. Magnetic Resonance in Medicine, 2019, 81, 3153-3167.	1.9	10
466	â€~Relationship between thermal dose and cell death for "rapid―ablative and "slow―hyperthermic heating'. International Journal of Hyperthermia, 2019, 36, 228-242.	1.1	28
467	Scaling laws of cell-fate responses to transient stress. Journal of Theoretical Biology, 2019, 478, 14-25.	0.8	4
468	Biomaterials and Nanoparticles for Hyperthermia Therapy. , 2019, , 375-413.		2
469	Local Therapies. , 2019, , 159-172.		0
470	Modulating the Baseline Impedance. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007336.	2.1	32
471	Spontaneously hypertensive rats have greater impairments in regulating abdominal temperature than brain cortex temperature following physical exercise. Journal of Thermal Biology, 2019, 83, 30-36.	1.1	8
472	Biochemical detection of fatal hypothermia and hyperthermia in affected rat hypothalamus tissues by Fourier transform infrared spectroscopy. Bioscience Reports, 2019, 39, .	1.1	7
473	Expandable Lattice Electrode Ablation Catheter. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007090.	2.1	27
474	Image-Guided Thermal Therapy Using Magnetic Particle Imaging and Magnetic Fluid Hyperthermia. , 2019, , 265-286.		6
475	Localization Bar Detection by Deep Learning in Magnetic Resonance Guided Focused Ultrasound. , 2019, , .		0
476	Model-Based Monitoring of Occupant's Thermal State for Adaptive HVAC Predictive Controlling. Processes, 2019, 7, 720.	1.3	9
477	Improving SAR Homogeneity in a Layered Spherical Model of Head for Hyperthermia Treatments with RF Phased Array Systems. , 2019, , .		2
478	Towards Online Personalized-Monitoring of Human Thermal Sensation Using Machine Learning Approach. Applied Sciences (Switzerland), 2019, 9, 3303.	1.3	20
479	Endobronchial high-intensity ultrasound for thermal therapy of pulmonary malignancies: simulations with patient-specific lung models. International Journal of Hyperthermia, 2019, 36, 1107-1120.	1.1	7
480	Advances in the Ablative Management of Hepatocellular Carcinoma. Advances in Clinical Radiology, 2019, 1, 215-225.	0.1	1
481	Acute MR-Guided High-Intensity Focused Ultrasound Lesion Assessment Using Diffusion-Weighted Imaging and Histological Analysis. Frontiers in Neurology, 2019, 10, 1069.	1.1	10
482	Hyperthermia and immunotherapy: clinical opportunities. International Journal of Hyperthermia, 2019, 36, 4-9.	1.1	51

#	Article	IF	CITATIONS
483	Temperature-controlled power modulation compensates for heterogeneous nanoparticle distributions: a computational optimization analysis for magnetic hyperthermia. International Journal of Hyperthermia, 2019, 36, 115-129.	1.1	36
484	Multifunctional magnetic-gold nanoparticles for efficient combined targeted drug delivery and interstitial photothermal therapy. International Journal of Pharmaceutics, 2019, 554, 256-263.	2.6	45
485	The utility of bone scintigraphy with SPECT/CT in the evaluation and management of frostbite injuries. British Journal of Radiology, 2019, 92, 20180545.	1.0	13
486	Preparation of photothermal palmitic acid/cholesterol liposomes. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1384-1392.	1.6	6
487	3D Manipulation of an Active Steerable Needle via Actuation of Multiple SMA Wires. Robotica, 2020, 38, 410-426.	1.3	13
488	Elevated Maximum Core Body Temperature During Hyperthermic Intraperitoneal Chemoperfusion (HIPEC) is Associated with Increased Postoperative Complications. Annals of Surgical Oncology, 2020, 27, 232-239.	0.7	9
489	Identifying the Role of Block Length in Neural Heat Block to Reduce Temperatures During Infrared Neural Inhibition. Lasers in Surgery and Medicine, 2020, 52, 259-275.	1.1	14
490	Thermal therapy monitoring using elastography. , 2020, , 135-155.		1
491	Cardiac pacing using transmural multi-LED probes in channelrhodopsin-expressing mouse hearts. Progress in Biophysics and Molecular Biology, 2020, 154, 51-61.	1.4	22
492	Computational evaluation of effectiveness for intratumoral injection strategies in magnetic nanoparticle assisted thermotherapy. International Journal of Heat and Mass Transfer, 2020, 148, 119129.	2.5	18
493	The blood-brain barrier: Physiology and strategies for drug delivery. Advanced Drug Delivery Reviews, 2020, 165-166, 1-14.	6.6	292
494	Understanding the Relationship Between Real-Time Thermal Imaging and Thermal Damage Estimate During Magnetic Resonance–Guided Laser Interstitial Thermal Therapy. World Neurosurgery, 2020, 134, e1093-e1098.	0.7	0
495	Thermal cycling protects SH-SY5Y cells against hydrogen peroxide and β-amyloid-induced cell injury through stress response mechanisms involving Akt pathway. PLoS ONE, 2020, 15, e0240022.	1.1	7
496	Quo Vadis Oncological Hyperthermia (2020)?. Frontiers in Oncology, 2020, 10, 1690.	1.3	40
497	A preliminary study of transabdominal ultrasonic wave treatment on the germinal tissues of dog ovaries as a contraceptive approach. Animal Reproduction Science, 2020, 221, 106586.	0.5	2
498	Induction of immunogenic cell death of cancer cells through nanoparticle-mediated dual chemotherapy and photothermal therapy. International Journal of Pharmaceutics, 2020, 589, 119787.	2.6	23
499	Thermal dose as a universal tool to evaluate nanoparticle-induced photothermal therapy. International Journal of Pharmaceutics, 2020, 587, 119657.	2.6	11
500	Mind Over Magnets – How Magnetic Particle Imaging is Changing the Way We Think About the Future of Neuroscience. Neuroscience, 2021, 474, 100-109	1.1	7

#	Article	IF	CITATIONS
501	Induction of Immunogenic Cell Death in Breast Cancer by Conductive Polymer Nanoparticle-Mediated Photothermal Therapy. ACS Applied Polymer Materials, 2020, 2, 5602-5620.	2.0	16
502	Non-thermal effects of radiofrequency electromagnetic fields. Scientific Reports, 2020, 10, 13488.	1.6	46
503	Miniaturized Electronic Circuit Design Challenges for Ingestible Devices. Journal of Microelectromechanical Systems, 2020, 29, 645-652.	1.7	16
504	mNP hyperthermia and hypofractionated radiation activate similar immunogenetic and cytotoxic pathways. International Journal of Hyperthermia, 2020, 37, 929-937.	1.1	0
505	A simulated model for fluid and tissue heating during pediatric laser lithotripsy. Journal of Pediatric Urology, 2020, 16, 626.e1-626.e8.	0.6	5
506	Thermochromic Tissue Phantoms for Evaluating Temperature Distribution in Simulated Clinical Applications of Pulsed Electric Field Therapies. Bioelectricity, 2020, 2, 362-371.	0.6	1
507	<i>In vitro</i> exploration of the synergistic effect of alternating magnetic field mediated thermo–chemotherapy with doxorubicin loaded dual pH- and thermo-responsive magnetic nanocomposite carriers. Journal of Materials Chemistry B, 2020, 8, 10527-10539.	2.9	11
508	Mathematical modeling of a temperatureâ€sensitive and tissueâ€mimicking gel matrix: Solving the Flory–Huggins equation for an elastic ternary mixture system. Mathematical Methods in the Applied Sciences, 2020, 43, 10637-10645.	1.2	3
509	wIRA-heating of piglet skin and subcutis <i>inÂvivo</i> : proof of accordance with ESHO criteria for superficial hyperthermia, 1020, 37, 887-896.	1.1	3
510	The intersection between immunotherapy and laser interstitial thermal therapy: a multipronged future of neuro-oncology. International Journal of Hyperthermia, 2020, 37, 27-34.	1.1	16
511	Short-wave enhances mesenchymal stem cell recruitment in fracture healing by increasing HIF-1 in callus. Stem Cell Research and Therapy, 2020, 11, 382.	2.4	7
512	Thermal Characterization of Phantoms Used for Quality Assurance of Deep Hyperthermia Systems. Sensors, 2020, 20, 4549.	2.1	10
513	An Insight to the Role of Thermal Effects on the Onset of Atrioesophageal Fistula: A Computer Model of Open-Irrigated Radiofrequency Ablation. Cardiovascular Engineering and Technology, 2020, 11, 481-493.	0.7	4
514	Elevated Production of Mitochondrial Reactive Oxygen Species via Hyperthermia Enhanced Cytotoxic Effect of Doxorubicin in Human Breast Cancer Cell Lines MDA-MB-453 and MCF-7. International Journal of Molecular Sciences, 2020, 21, 9522.	1.8	8
515	Evaluation of the Thermal Response of Liver Tissue Undergoing Microwave Treatment by Means of Fiber Bragg Grating Sensors. , 2020, , .		1
516	Modulating the Heat Sensitivity of Prostate Cancer Cell Lines In Vitro: A New Impact for Focal Therapies. Biomedicines, 2020, 8, 585.	1.4	2
517	Technical Principles and Clinical Workflow of Transcranial MR-Guided Focused Ultrasound. Stereotactic and Functional Neurosurgery, 2021, 99, 329-342.	0.8	22
518	HyCHEED System for Maintaining Stable Temperature Control during Preclinical Irreversible Electroporation Experiments at Clinically Relevant Temperature and Pulse Settings. Sensors, 2020, 20, 6227.	2.1	4

		CITATION REPORT	
#	Article	IF	CITATIONS
519	Electro-thermal therapy: Microsecond duration pulsed electric field tissue ablation with dynamic temperature control algorithms. Computers in Biology and Medicine, 2020, 121, 103807.	3.9	8
520	Mathematical modeling of the thermal effects of irreversible electroporation for <i>inÂvitro</i> , <i>inÂvivo</i> , and clinical use: a systematic review. International Journal of Hyperthermia, 2020 486-505.), 37, 1.1	42
521	Mammalian cell sensitivity to hyperthermia in various cell lines: a new universal and predictive description. International Journal of Hyperthermia, 2020, 37, 506-516.	1.1	9
522	Targeted hyperthermia with plasmonic nanoparticles. Frontiers of Nanoscience, 2020, 16, 307-3	52. 0.3	8
523	Emerging Technologies for Pulmonary Vein Isolation. Circulation Research, 2020, 127, 170-183.	2.0	53
524	Continuous, noninvasive wireless monitoring of flow of cerebrospinal fluid through shunts in patients with hydrocephalus. Npj Digital Medicine, 2020, 3, 29.	5.7	26
525	Development of clinically effective formulations for anticancer applications: why it is so difficult 2020, , 599-723.	?. ,	0
526	Microtentacle Actuators Based on Shape Memory Alloy Smart Soft Composite. Advanced Funct Materials, 2020, 30, 2002510.	onal 7.8	27
527	An In Vitro Study of Thermal Conductivity and Thermal Diffusivity in a Bipolar Vessel Sealing Mo Procedia CIRP, 2020, 89, 207-213.	dality. 1.0	0
528	Heating technology for malignant tumors: a review. International Journal of Hyperthermia, 2020 711-741.	, 37, 1.1	211
529	Absorption of 5G Radiation in Brain Tissue as a Function of Frequency, Power and Time. IEEE Acc 2020, 8, 115593-115612.	cess, 2.6	23
530	Cancer therapy with iron oxide nanoparticles: Agents of thermal and immune therapies. Advance Drug Delivery Reviews, 2020, 163-164, 65-83.	ed 6.6	214
531	Feasibility study of MR-guided pancreas ablation using high-intensity focused ultrasound in a he swine model. International Journal of Hyperthermia, 2020, 37, 786-798.	althy 1.1	7
532	In Vitro and In Vivo Delivery of Magnetic Nanoparticle Hyperthermia using a Custom-Built Delive System. Journal of Visualized Experiments, 2020, , .	ry 0.2	0
533	pH-Sensitive nanotheranostics for dual-modality imaging guided nanoenzyme catalysis therapy phototherapy. Journal of Materials Chemistry B, 2020, 8, 4859-4869.	and 2.9	23
534	Design and construction of a Maxwell-type induction coil for magnetic nanoparticle hypertherm International Journal of Hyperthermia, 2020, 37, 1-14.	ia. 1.1	18
535	Mild magnetic nanoparticle hyperthermia enhances the susceptibility of <i>Staphylococcus aure biofilm to antibiotics. International Journal of Hyperthermia, 2020, 37, 66-75.</i>	2us 1.1	35
536	Therapeutic ultrasound experiments in vitro: Review of factors influencing outcomes and reproducibility. Ultrasonics, 2020, 107, 106167.	2.1	29

CITAT	LON	DEDODT	
U.I.I.A	HON.	KEPORI	

#	Article	IF	CITATIONS
537	Recent technological advancements in radiofrequency- andmicrowave-mediated hyperthermia for enhancing drug delivery. Advanced Drug Delivery Reviews, 2020, 163-164, 3-18.	6.6	69
538	A moderate thermal dose is sufficient for effective free and TSL based thermochemotherapy. Advanced Drug Delivery Reviews, 2020, 163-164, 145-156.	6.6	43
539	Guidelines for Limiting Exposure to Electromagnetic Fields (100 kHz to 300 GHz). Health Physics, 2020, 118, 483-524.	0.3	939
540	Laparoscopic Renal Denervation System for Treating Resistant Hypertension: Overcoming Limitations of Catheter-Based Approaches. IEEE Transactions on Biomedical Engineering, 2020, 67, 3425-3437.	2.5	8
541	For HIPEC, synergistic effects of hyperthermia and doxorubicin are optimal when simultaneously combined. International Journal of Hyperthermia, 2020, 37, 346-348.	1.1	0
542	HSPA1A Protects Cells from Thermal Stress by Impeding ESCRT-0–Mediated Autophagic Flux in Epidermal Thermoresistance. Journal of Investigative Dermatology, 2021, 141, 48-58.e3.	0.3	13
543	Thermal Effects on Fluid Mixing in the Eye. Annals of Biomedical Engineering, 2021, 49, 251-261.	1.3	2
544	Fiber Optic Sensors-Based Thermal Analysis of Perfusion-Mediated Tissue Cooling in Liver Undergoing Laser Ablation. IEEE Transactions on Biomedical Engineering, 2021, 68, 1066-1073.	2.5	21
545	Brain and Human Body Modeling 2020. , 2021, , .		11
546	Design of Hyperthermia Applicator to Heat Multi-Brain Tumors Simultaneously Based on Adaptive Beamforming Technique. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 115-123.	2.3	5
547	Learning Multiparametric Biomarkers for Assessing MR-Guided Focused Ultrasound Treatment of Malignant Tumors. IEEE Transactions on Biomedical Engineering, 2021, 68, 1737-1747.	2.5	4
548	A computational investigation of strain concentration in the brain in response to a rapid temperature rise. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 115, 104228.	1.5	5
549	Inorganic Nanomaterials for Photothermalâ€Based Cancer Theranostics. Advanced Therapeutics, 2021, 4, 2000207.	1.6	11
550	Fast approximate learning-based multistage nonlinear model predictive control using Gaussian processes and deep neural networks. Computers and Chemical Engineering, 2021, 145, 107174.	2.0	35
551	Combined chemo-photothermal treatment of three-dimensional head and neck squamous cell carcinomas by gold nano-architectures. Journal of Colloid and Interface Science, 2021, 582, 1003-1011.	5.0	34
552	Hyperthermia and ablation. , 2021, , 249-294.		0
553	The Capacitive Coupling Modalities for Oncological Hyperthermia. Open Journal of Biophysics, 2021, 11, 252-313.	0.7	9
554	Mode of Action and Experimental and Clinical Data of Regional Hyperthermia. , 2021, , 141-149.		0

	CITATION	Report	
#	Article	IF	CITATIONS
555	Hyperspectral Imagery for Assessing Laser-Induced Thermal State Change in Liver. Sensors, 2021, 21, 643.	2.1	16
556	Hyperthermie in Kombination mit Radiotherapie in der Tumorbehandlung. Springer Reference Medizin, 2021, , 1-10.	0.0	0
559	Quantification of thermal dose in moderate clinical hyperthermia with radiotherapy: a relook using temperature–time area under the curve (AUC). International Journal of Hyperthermia, 2021, 38, 296-307.	1.1	9
560	Improved patient-specific hyperthermia planning based on parametrized electromagnetic and thermal models for the SIGMA-30 applicator. International Journal of Hyperthermia, 2021, 38, 663-678.	1.1	2
561	Biomechanical sensing of <i>in vivo</i> magnetic nanoparticle hyperthermia-treated melanoma using magnetomotive optical coherence elastography. Theranostics, 2021, 11, 5620-5633.	4.6	17
562	Locoregional Therapies of NEN. , 2021, , 137-148.		0
563	Implications of mmWave Radiation on Human Health: State of the Art Threshold Levels. IEEE Access, 2021, 9, 13009-13021.	2.6	6
564	3D printing of highly flexible, cytocompatible nanocomposites for thermal management. Journal of Materials Science, 2021, 56, 6385-6400.	1.7	14
565	Review on the advancements of magnetic gels: towards multifunctional magnetic liposome-hydrogel composites for biomedical applications. Advances in Colloid and Interface Science, 2021, 288, 102351.	7.0	35
566	Clinical safety of intracranial EEG electrodes in MRI at 1.5 T and 3 T: a single-center experience and literature review. Neuroradiology, 2021, 63, 1669-1678.	1.1	4
567	Systematic review of the role of high intensity focused ultrasound (HIFU) in treating malignant lesions of the hepatobiliary system. Hpb, 2021, 23, 187-196.	0.1	21
568	Quantifying cell death induced by doxorubicin, hyperthermia or HIFU ablation with flow cytometry. Scientific Reports, 2021, 11, 4404.	1.6	6
570	Biological function following radical photo-polymerization of biomedical polymers and surrounding tissues: Design considerations and cellular risk factors. Applied Physics Reviews, 2021, 8, 011301.	5.5	13
571	Optimizing thermal block length during infrared neural inhibition to minimize temperature thresholds. Journal of Neural Engineering, 2021, 18, 056016.	1.8	7
572	Magnetic Fluid Hyperthermia as Treatment Option for Pancreatic Cancer Cells and Pancreatic Cancer Organoids. International Journal of Nanomedicine, 2021, Volume 16, 2965-2981.	3.3	24
573	Data-driven LPV model predictive control of a cold atmospheric plasma jet for biomaterials processing. Control Engineering Practice, 2021, 109, 104725.	3.2	16
574	Mild Magnetic Hyperthermia-Activated Innate Immunity for Liver Cancer Therapy. Journal of the American Chemical Society, 2021, 143, 8116-8128.	6.6	87
575	Finite element simulation and integration of CEM43°C and Arrhenius Models for ultrasonic-assisted skull bone grinding: A thermal dose model. Medical Engineering and Physics, 2021, 90, 9-22.	0.8	16

# 576	ARTICLE Optimizing Durability in Radiofrequency Ablation of Atrial Fibrillation. Journal of Innovations in Cardiac Rhythm Management, 2021, 12, 4507-4518.	IF 0.2	CITATIONS
577	Efficacy of High Temporal Frequency Photoacoustic Guidance of Laser Ablation Procedures. Ultrasonic Imaging, 2021, 43, 149-156.	1.4	4
578	Effects of Increased Catheter Contact Force on the Ablation Impedance in the Radiofrequency Catheter Ablation of Cardiac Arrhythmias. , 2021, , .		0
579	The Effects of Localized Heat on the Hallmarks of Cancer. Advanced Therapeutics, 2021, 4, 2000267.	1.6	19
580	ExoForm: Shape Memory and Self-Fusing Semi-Rigid Wearables. , 2021, , .		2
581	Letter: Lesion Shape and Size in MRgFUS Thalamotomy: Predictors and Implications. Neurosurgery, 2021, 89, E198-E200.	0.6	1
582	Fine-tuned control of stress priming and thermotolerance. Physical Biology, 2021, 18, 04LT02.	0.8	1
583	Universal Software Architecture of Magnetic Resonance-Guided Focused Ultrasound Surgery System and Experimental Study. Journal of Shanghai Jiaotong University (Science), 2021, 26, 471.	0.5	0
584	A Side-Viewing Endoscopic Probe With Distal Micro Rotary Scanner for Multimodal Luminal Imaging and Analysis. Journal of Microelectromechanical Systems, 2021, 30, 433-441.	1.7	2
585	A Continuous, Impedimetric Parylene Flow Sensor. Journal of Microelectromechanical Systems, 2021, 30, 456-470.	1.7	3
586	AAPM Task Group 241: A medical physicist's guide to MRIâ€guided focused ultrasound body systems. Medical Physics, 2021, 48, e772-e806.	1.6	9
587	Time-temperature Thresholds and Safety Factors for Thermal Hazards from Radiofrequency Energy above 6 GHz. Health Physics, 2021, 121, 234-247.	0.3	7
588	Therapeutic Ultrasound as a Treatment Modality for Physiological and Pathological Ageing Including Alzheimer's Disease. Pharmaceutics, 2021, 13, 1002.	2.0	4
589	Emerging Applications of Optical Fiber-Based Devices for Brain Research. Advanced Fiber Materials, 2022, 4, 24-42.	7.9	13
590	Focused ultrasound: growth potential and future directions in neurosurgery. Journal of Neuro-Oncology, 2022, 156, 23-32.	1.4	3
591	Efficacy and safety of magnetic resonance-guided focused ultrasound treatment for refractory chronic pain of medial knee osteoarthritis. International Journal of Hyperthermia, 2021, 38, 46-55.	1.1	4
592	Patientâ€specific effects on sonication heating efficiency during magnetic resonanceâ€guided focused ultrasound thalamotomy. Medical Physics, 2021, 48, 6588-6596.	1.6	3
593	Occupational exposure to electromagnetic fields in magnetic resonance environment: an update on regulation, exposure assessment techniques, health risk evaluation, and surveillance. Medical and Biological Engineering and Computing, 2022, 60, 297-320.	1.6	11

ARTICLE IF CITATIONS Variable Molecular Weight Polymer Nanoparticles for Detection and Hyperthermia-Induced 594 1.7 4 Chemotherapy of Colorectal Cancer. Cancers, 2021, 13, 4472. Catheter contact area strongly correlates with lesion area in radiofrequency cardiac ablation: an ex 0.6 vivo porcine heart study. Journal of Interventional Cardiac Electrophysiology, 2022, 63, 561-572. A flexible, and wireless LED therapy patch for skin wound photomedicine with IoT-connected 596 1.5 10 healthcare application. Flexible and Printed Electronics, 2021, 6, 045002. Statistical Analysis of Ultrasonic Scattered Echoes Enables the Non-invasive Measurement of Temperature Elevations inside Tumor Tissue during Oncological Hyperthermia. Ultrasound in Medicine and Biology, 2021, 47, 3301-3309. A removable photothermal antibacterial "warm paste―target for cariogenic bacteria. Chemical 598 6.6 37 Engineering Journal, 2022, 429, 132491. Oxaliplatin-resistant colorectal cancer models for nanoparticle hyperthermia. International Journal of Hyperthermia, 2021, 38, 152-164. 599 1.1 600 Overview of ablation techniques., 2021, , 41-94. 0 In silico assessment of collateral eddy current heating in biocompatible implants subjected to 1.1 10 magnetic hyperthermia treatments. International Journal of Hyperthermia, 2021, 38, 846-861. Millimeter-Wave Heating <i>In Vitro:</i> Local Microscale Temperature Measurements Correlated to 602 2.5 2 Heat Shock Cellular Response. IEEE Transactions on Biomedical Engineering, 2022, 69, 840-848. Whole-body hyperthermia in the rat disrupts the blood-cerebrospinal fluid barrier and induces brain edema., 2006, 96, 426-431. The Biologic Rationale of Hyperthermia., 2007, 134, 171-184. 604 34 Gold Nanoparticle-Based Laser Photothermal Therapy., 2017, , 1-33. Hyperthermia., 2012, , 385-403. 606 7 <i>In vivo</i> magnetic nanoparticle hyperthermia: a review on preclinical studies, low-field nano-heaters, noninvasive thermometry and computer simulations for treatment planning. International Journal of Hyperthermia, 2020, 37, 76-99. 1.1 59 Effect of ambient temperature and intracellular pigmentation on photothermal damage rate kinetics. 609 10 1.4 Journal of Biomedical Optics, 2019, 24, 1. Bioeffects and Therapeutic Applications of Electromagnetic Energy., 0, , . Interstitial magnetic thermotherapy dosimetry based on shear wave magnetomotive optical coherence 611 1.512 elastography. Biomedical Optics Express, 2019, 10, 539. Thermal damage threshold of neurons during infrared stimulation. Biomedical Optics Express, 2020, 1.5 11, 2224.

#	Article	IF	CITATIONS
613	Multiparametric MRI Analysis for the Identification of High Intensity Focused Ultrasound-Treated Tumor Tissue. PLoS ONE, 2014, 9, e99936.	1.1	27
614	Spatial and Temporal Control of Hyperthermia Using Real Time Ultrasonic Thermal Strain Imaging with Motion Compensation, Phantom Study. PLoS ONE, 2015, 10, e0134938.	1.1	25
615	Thermal Therapy, Part 1: An Introduction to Thermal Therapy. Critical Reviews in Biomedical Engineering, 2006, 34, 459-489.	0.5	258
616	Novel and Emerging Tools and Technologies in Cardiac Electrophysiology: What's on the Horizon in 2020?. Journal of Innovations in Cardiac Rhythm Management, 2019, 10, 3944-3948.	0.2	1
617	Effect of Exam Stress on Heart Rate Variability Parameters in Healthy Students. Egyptian Academic Journal of Biological Sciences C Physiology and Molecular Biology, 2015, 7, 75-81.	0.0	8
618	Thermostability of Biological Systems: Fundamentals, Challenges, and Quantification. Open Biomedical Engineering Journal, 2011, 5, 47-73.	0.7	79
619	Accumulated thermal dose in MRI-guided focused ultrasound for essential tremor: repeated sonications with low focal temperatures. Journal of Neurosurgery, 2020, 132, 1802-1809.	0.9	31
620	Current Status of Clinical Evidence for Electromagnetic Hyperthermia on Prospective Trials. Thermal Medicine, 2015, 31, 5-12.	0.0	5
621	Fluorescence Imaging of Mitochondrial Long-Term Depolarization in Cancer Cells Exposed to Heat-Stress. , 2009, , 673-692.		2
622	Comparison of thermal coagulation profiles for bipolar forceps with different cooling mechanisms in a porcine model of spinal surgery. , 2013, 4, 113.		7
623	Electrokinetics of Temperature for Development and Treatment of Effusions. Advances in Bioscience and Biotechnology (Print), 2017, 08, 434-449.	0.3	4
624	Modulated-Power Implantable Neuromodulation Devices and Their Impact on Surrounding Tissue Temperatures. Journal of Biomedical Science and Engineering, 2016, 09, 545-562.	0.2	5
625	Heating Preciosity—Trends in Modern Oncological Hyperthermia. Open Journal of Biophysics, 2017, 07, 116-144.	0.7	14
626	Pulmonary artery denervation using catheter-based ultrasonic energy. EuroIntervention, 2019, 15, 722-730.	1.4	17
627	Lateral spread of heat during thyroidectomy using different haemostatic devices. Annals of Agricultural and Environmental Medicine, 2015, 22, 491-494.	0.5	6
628	HSP90 inhibition acts synergistically with heat to induce a pro-immunogenic form of cell death in colon cancer cells. International Journal of Hyperthermia, 2021, 38, 1443-1456.	1.1	1
629	Role of Catheter Contact Force on Biophysical Properties of the Ablation Lesion Formation in Radiofrequency Catheter Cardiac Ablation. , 2021, , .		2
630	Role of Laser Interstitial Thermal Therapy in the Management of Primary and Metastatic Brain Tumors. Current Treatment Options in Oncology, 2021, 22, 108.	1.3	15

#	Article	IF	CITATIONS
631	A novel 3D modelling and simulation technique in thermotherapy predictive analysis on biological tissue. , 2007, , .		0
632	Fundamental Principles of Therapeutic Ultrasound. , 2007, , 5-23.		1
633	Electromagnetic Therapy. , 2007, , 199-220.		0
634	MRI-Guided FUS and its Clinical Applications. , 2008, , 275-307.		0
635	Brain Temperature Regulation During Normal Neural Function and Neuropathology. , 2009, , 46-68.		0
636	Image-Guided ThermalÂTherapy. Handbook Series for Mechanical Engineering, 2013, , 689-726.	0.0	0
637	Effect of Wireless Network Radiation on Heart Rate Variability. International Journal of Information and Electronics Engineering, 2014, 4, .	0.2	1
638	High-intensity focused ultrasound therapy for painful bone metastasis. Choonpa Igaku, 2014, 41, 735-747.	0.0	0
639	ANALYSIS OF THERMAL AND MECHANICAL EFFECTS OF PULSED LASER IRRADIATION ON TISSUES. , 2015, , .		0
640	Hyperthermia Alone. , 2016, , 173-176.		0
641	Combination by Hyperthermia and Chemotherapy: Lung Cancer. , 2016, , 245-248.		0
642	A portable optical fiber probe for in vivo brain temperature measurements. Proceedings of SPIE, 2016, , .	0.8	1
643	Intraoperative Urologic Ultrasound. Current Clinical Urology, 2017, , 267-285.	0.0	0
644	Short Pulse Laser Based Thermal Therapy. SpringerBriefs in Applied Sciences and Technology, 2017, , 23-39.	0.2	0
645	Imaging-aided Temperature Measurements with a Single Optical Fiber for in-vivo Sensing Applications. , 2018, , .		0
646	Wirkungsmechanismus sowie experimentelle und klinische Daten zur regionalen Hyperthermie. , 2018, , 149-157.		0
649	Physical Principles of Laser Ablation. , 2020, , 7-18.		2
651	A Thermal Study of Tumor-Treating Fields for Glioblastoma Therapy. , 2021, , 37-62.		4

ARTICLE IF CITATIONS # Temperature Dynamics in Rat Brains Exposed to Nearâ€Field Waveguide Outputs at 2.8 GHz. 653 0.9 2 Bioelectromagnetics, 2022, 43, 14-24. A Hydrogel Ionic Circuit Based Highâ€Intensity Iontophoresis Device for Intraocular Macromolecule 654 11.1 and Nanoparticle Delivery. Advanced Materials, 2022, 34, e2107315. 655 Targeting Hypoxia: Revival of Old Remedies. Biomolecules, 2021, 11, 1604. 1.8 8 Thermo-Chemo-Radiotherapy Association., 2006, , 128-155. Intraoperative Urologic Ultrasound., 2021, , 277-296. 658 0 MRI-Guided Therapy. Technical Physics, 2020, 65, 1427-1435. 0.2 Hyperthermia as an immunotherapy strategy for cancer. Current Opinion in Investigational Drugs, 661 2.3 92 2009, 10, 550-8. Hypertonic/hyperoncotic solution attenuate blood-brain barrier breakdown and brain pathology in whole body hyperthermia rats. International Journal of Clinical and Experimental Medicine, 2011, 4, 1.3 276-84. 664 Radiofrequency and microwave hyperthermia in cancer treatment., 2022, , 281-311. 3 Mathematical modeling of heat transfer in biological tissues (bioheat transfer)., 2022, , 1-24. A Flexible and Wavelengthâ€Designable Polymer Lightâ€Emitting Diode Employing Sandwichâ€Encapsulation 666 1.9 7 for Wearable Skin Rejuvenation Photomedicine. Advanced Materials Interfaces, 2021, 8, 2100856. Dual Photothermal/Chemotherapy of Melanoma Cells with Albumin Nanoparticles Carrying Indocyanine Green and Doxorubicin Leads to Immunogenic Cell Death. Macromolecular Bioscience, 2.1 2022, 22, e2100353. A Novel Method for Estimating the Dosage of Cold Atmospheric Plasmas in Plasma Medical 668 1.3 1 Applications. Applied Sciences (Switzerland), 2021, 11, 11135. The Use of High-Intensity Focused Ultrasound (HIFU) Plus 150mg Bicalutamide as First Line Salvage 1.3 Therapy for Local Recurrent Prostate Cancer. Frontiers in Oncology, 2021, 11, 705025. 670 Photoacoustic Microscopy., 2021, , 1-34. 0 Multiphysical numerical study of photothermal therapy of glioblastoma with photoacoustic temperature monitoring in a mouse head. Biomedical Optics Express, 2022, 13, 1202. Photoacoustic Guided Endovenous Laser Ablation: Calibration and In Vivo Canine Studies., 2020,,. 672 4 Development and Multiphysic Analysis of a Neck Phantom for Microwave Hyperthermia., 2020, , .

#	Article	IF	CITATIONS
674	Clinical Evidence for Thermometric Parameters to Guide Hyperthermia Treatment. Cancers, 2022, 14, 625.	1.7	16
675	Intensity-Modulated Radiotherapy with Regional Hyperthermia for High-Risk Localized Prostate Carcinoma. Cancers, 2022, 14, 400.	1.7	8
676	Prospective evaluation of complications associated with transesophageal echocardiography in dogs with congenital heart disease. Journal of Veterinary Internal Medicine, 2022, 36, 406-416.	0.6	3
677	Methods of monitoring thermal ablation of soft tissue tumors – A comprehensive review. Medical Physics, 2022, 49, 769-791.	1.6	23
679	Magnetic Resonance-Guided Focused Ultrasound Thalamotomy for Essential Tremor Under General Anesthesia: Technical Note. Operative Neurosurgery, 2022, Publish Ahead of Print, .	0.4	1
680	Is Tecar Therapy Effective on Biceps Femoris and Quadriceps Rehabilitation? A Cadaveric Study. Journal of Sport Rehabilitation, 2022, 31, 756-763.	0.4	5
681	Modularized Electrosurgical System With a Hybrid CPU-FPGA Chip for Real-Time Thermal Lesion Approximation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	0
682	Heterogeneous Heat Absorption Is Complementary to Radiotherapy. Cancers, 2022, 14, 901.	1.7	8
683	Numerical Simulation of Microwave Ablation in the Human Liver. Processes, 2022, 10, 361.	1.3	5
684	Accurate Three-Dimensional Thermal Dosimetry and Assessment of Physiologic Response Are Essential for Optimizing Thermoradiotherapy. Cancers, 2022, 14, 1701.	1.7	13
685	Clinical magnetic hyperthermia requires integrated magnetic particle imaging. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1779.	3.3	34
686	Characterization of Miniature Probes for Cryosurgery, Thermal Ablation, and Irreversible Electroporation on Small Animals. Advanced Therapeutics, 2022, 5, .	1.6	3
687	The Role of Hyperthermia in the Treatment of Peritoneal Surface Malignancies. Current Oncology Reports, 2022, 24, 875-887.	1.8	2
688	High-performance cellulose nanofiber-derived composite films for efficient thermal management of flexible electronic devices. Chemical Engineering Journal, 2022, 439, 135675.	6.6	26
689	Safety of MRI in patients with retained cardiac leads. Magnetic Resonance in Medicine, 2022, 87, 2464-2480.	1.9	11
690	Modelling and Cross-Correlation Analysis of Two Sets of Ideal Ultrasonic Signals for Non-invasive Temperature Estimation in Ablation Temperatures. , 2022, , .		0
691	Facile Synthesis of Multifunctional Magnetoplasmonic Au-MnO Hybrid Nanocomposites for Cancer Theranostics. Nanomaterials, 2022, 12, 1370.	1.9	7
697	A new thermal dose model based on Vogel-Tammann-Fulcher behaviour in thermal damage processes. International Journal of Hyperthermia, 2022, 39, 697-705.	1.1	2

#	Article	IF	Citations
698	Data-Driven Adaptive Optimal Control Under Model Uncertainty: An Application to Cold Atmospheric Plasmas. IEEE Transactions on Control Systems Technology, 2023, 31, 55-69.	3.2	3
699	Potential Application of CEM43°C and Arrhenius Model in Neurosurgical Bone Grinding. Materials Forming, Machining and Tribology, 2022, , 145-158.	0.7	2
700	Intensive analysis of uncoated and surface modified Co-Zn nanoferrite as a heat generator in magnetic fluid hyperthermia applications. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	8
701	Evaluating the Safety of Simultaneous Intracranial Electroencephalography and Functional Magnetic Resonance Imaging Acquisition Using a 3 Tesla Magnetic Resonance Imaging Scanner. Frontiers in Neuroscience, 0, 16, .	1.4	0
702	Integrated, Transparent Silicon Carbide Electronics and Sensors for Radio Frequency Biomedical Therapy. ACS Nano, 2022, 16, 10890-10903.	7.3	17
703	Interstitial Photothermal Therapy Generates Durable Treatment Responses in Neuroblastoma. Advanced Healthcare Materials, 2022, 11, .	3.9	5
704	Minimally Invasive Injectable Thermochemical Ablation Therapy of Malignant Tumor via Alkali Metal Fluid. , 0, , .		0
705	The role of Co2+ cation addition in enhancing the AC heat induction power of (CoxMn1-x)Fe2O4 superparamagnetic nanoparticles. Nanotechnology, 0, , .	1.3	1
706	Is extremely low frequency pulsed electromagnetic fields applicable to gliomas? A literature review of the underlying mechanisms and application of extremely low frequency pulsed electromagnetic fields. Cancer Medicine, 2023, 12, 2187-2198.	1.3	6
707	On the magnetic nanoparticle injection strategy for hyperthermia treatment. International Journal of Mechanical Sciences, 2022, 235, 107707.	3.6	7
708	Various polymers in the development of polymeric micelles. , 2022, , 15-40.		0
709	Fast, interleaved, Look‣ocker–based <i>T</i> ₁ mapping with a variable averaging approach: Towards temperature mapping at low magnetic field. NMR in Biomedicine, 2023, 36, .	1.6	2
710	An opportunistic routing strategy for circulation flow-guided nano-networks. , 2022, , .		2
711	Wearable Surfaceâ€Lighting Microâ€Lightâ€Emitting Diode Patch for Melanogenesis Inhibition. Advanced Healthcare Materials, 2023, 12, .	3.9	8
712	Design considerations of benchtop fluid flow bioreactors for bio-engineered tissue equivalents in vitro. Biomaterials and Biosystems, 2022, 8, 100063.	1.0	5
714	MRI Bone Abnormality of the Knee following Ultrasound Therapy: Case Report and Short Review. International Journal of Environmental Research and Public Health, 2022, 19, 14202.	1.2	0
715	Expansion of thermometry in magnetic hyperthermia cancer therapy: antecedence and aftermath. Nanomedicine, 2022, 17, 1607-1623.	1.7	6
716	Lessons Learned from Two Decades of Modeling the Heat-Shock Response. Biomolecules, 2022, 12, 1645.	1.8	0

ARTICLE IF CITATIONS # Liquid crystal elastomer based dynamic device for urethral support: Potential treatment for stress 717 5.7 5 urinary incontinence. Biomaterials, 2023, 292, 121912. Discovery of BODIPY J-aggregates with absorption maxima beyond 1200 nm for biophotonics. Science 29 Advances, 2022, 8, . Sol-gel dip-coated TiO ₂ nanofilms reduce heat production in titanium alloy implants 720 1.1 1 produced by microwave diathermy. International Journal of Hyperthermia, 2023, 40, . Design of Ultra-Wideband Phased Array Applicator for Breast Cancer Hyperthermia Therapy. Sensors, <u>2023, 23, 1051.</u> Implants for surgery â€" Active implantable medical devices â€" Part 3: Implantable neurostimulators. , 722 0 2017,,. Simultaneous proton resonance frequency <scp> T ₁ ―MR </scp> shear wave elastography for <scp>MRâéguided focused ultrasound</scp> multiparametric treatment monitoring. Magnetic Resonance in Medicine, 0, , . Awake Laser Ablation with Continuous Neuropsychological Testing During Treatment of Brain 724 0.8 1 Tumors and Epilepsy. Neurosurgery Clinics of North America, 2023, 34, 239-245. Selective Infrared Neural Inhibition Can Be Reproduced by Resistive Heating. Neuromodulation, 2023, 0.4 26, 1757-1771. Aligning Exposure Limits for Contact Currents with Exposure Limits for Electric Fields. Health 726 0.3 1 Physics, O, Publish Ahead of Print, . Narrow response temperature range with excellent reversible shape memory effect for 727 6.4 semi-crystalline networks as soft actuators. Materials Horizons, 2023, 10, 2464-2475. Effect of porous heat transfer model on different equivalent thermal dose methods considering an experiment-based nanoparticle distribution during magnetic hyperthermia. Journal Physics D: Applied 728 2 1.3 Physics, 2023, 56, 145402. 729 Neural modulation with photothermally active nanomaterials., 2023, 1, 193-207. Efficiency of cutaneous heat diffusion after local hyperthermia for the treatment of itch. Skin 730 0.8 0 Research and Technology, 2023, 29, . Cochlear implant systems: Requirements for safety, functional verification, labeling and reliability reporting. , 2016, , . Active implantable medical devicesâ€"Requirements and test protocols for safety of patients with 732 0 pacemakers and ICDs exposed to magnetic resonance imaging., 2021,,. Evaluation of thermal dose effect in radiofrequency-induced hyperthermia with intravesical chemotherapy for nonmuscle invasive bladder cancer. International Journal of Hyperthermia, 2023, 40, 1.1 Multilayer In Vitro Human Skin Tissue Platforms for Quantitative Burn Injury Investigation. 734 1.6 1 Bioengineering, 2023, 10, 265. Design of a temperature-feedback controlled automated magnetic hyperthermia therapy device., 0, 3, .

ARTICLE IF CITATIONS Temperature Rise in Curing Modes of Two Different Dental Light-Curing Units: The Importance of 736 1.0 0 Heating Rate. International Journal of Thermophysics, 2023, 44, . A BIM-Based Algorithm for Quantitative Monitoring of Temperature Distribution During Breast Hyperthermia Treatments. IEEE Access, 2023, 11, 38680-38695. 2.6 Microscopic, Macroscopic and Thermal Impact of Argon Plasma, Diode Laser, and Electrocoagulation 738 0.6 1 on Ovarian Tissue. In Vivo, 2023, 37, 531-538. Performance of an Irrigated Bipolar Radiofrequency Ablation Clamp on Explanted Human Hearts. Annals of Thoracic Surgery, 2023, 116, 307-313. Determinants of body core temperatures at fatigue in rats subjected to incremental-speed exercise: The prominent roles of ambient temperature, distance traveled, initial core temperature, and measurement 740 1.3 1 site. International Journal of Biometeorology, 2023, 67, 761-775. FactFinders for patient safety: Motor stimulation testing in lumbar radiofrequency neurotomy and radiofrequency neurotomy in patients with posterior hardware. , 2023, 2, 100170. Induction Heating Triggers Antibiotic Release and Synergistic Bacterial Killing on Polymerâ€Coated 742 3.9 2 Titanium Surfaces. Advanced Healthcare Materials, 2023, 12, . Plasma Device Functions and Tissue Effects in the Female Pelvisâ€"A Systematic Review. Cancers, 2023, 15, 1.7 2386. 749 Contactless Luminescence Nanothermometry in the Brain., 2023, , . 0 Therapeutic applications and technical developments of focused ultrasound for movement disorders. 0.1 International Review of Movement Disorders, 2023, , 245-296. Relationship Between Mechanical Deformation and Contact Force Applied by Catheter Tip on Cardiac 757 0 Muscle: Experimentation and Computer Modeling., 2023,,. Applications of Superparamagnetic Nanomaterials in Hyperthermia Toward Cancer Therapy. 764 0.1 Nanomedicine and Nanotoxicology, 2023, , 119-137. Optimal Design of ÂBraille Display Based on ÂAdaptive-Network-based Fuzzy Inference. Lecture Notes in 776 1.0 0 Computer Science, 2023, , 11-27. The Use of a Polarization-Agile Applicator in Hyperthermia Treatments of a Spherical Region., 2023, ... 778

CITATION REPORT

EKGNet: A 10.96μW Fully Analog Neural Network for Intra-Patient Arrhythmia Classification. , 2023, , . 0