

Gail R Ter Haar

List of Publications by Year in descending order

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131
papers

5,528
citations

81743

39
h-index

82410

72
g-index

150
all docs

150
docs citations

150
times ranked

4314
citing authors

#	ARTICLE	IF	CITATIONS
1	High intensity focused ultrasound: Physical principles and devices. International Journal of Hyperthermia, 2007, 23, 89-104.	1.1	579
2	Therapeutic applications of ultrasound. Progress in Biophysics and Molecular Biology, 2007, 93, 111-129.	1.4	510
3	International recommendations and guidelines for the safe use of diagnostic ultrasound in medicine. Ultrasound in Medicine and Biology, 2000, 26, 355-366.	0.7	335
4	Heating technology for malignant tumors: a review. International Journal of Hyperthermia, 2020, 37, 711-741.	1.1	211
5	The sensitivity of biological tissue to ultrasound. Ultrasound in Medicine and Biology, 1997, 23, 805-812.	0.7	169
6	High Intensity Focused Ultrasound for the Treatment of Tumors. Echocardiography, 2001, 18, 317-322.	0.3	153
7	Physical parameters affecting ultrasound/microbubble-mediated gene delivery efficiency in vitro. Ultrasound in Medicine and Biology, 2006, 32, 1269-1279.	0.7	133
8	Use of overpressure to assess the role of bubbles in focused ultrasound lesion shape in vitro. Ultrasound in Medicine and Biology, 2001, 27, 695-708.	0.7	128
9	Safety and bio-effects of ultrasound contrast agents. Medical and Biological Engineering and Computing, 2009, 47, 893-900.	1.6	118
10	Histological changes in rat liver tumours treated with high-intensity focused ultrasound. Ultrasound in Medicine and Biology, 1993, 19, 67-74.	0.7	116
11	High Intensity Focused Ultrasound: Past, present and future. International Journal of Hyperthermia, 2007, 23, 85-87.	1.1	116
12	Ultrasound-guided therapeutic focused ultrasound: Current status and future directions. International Journal of Hyperthermia, 2015, 31, 77-89.	1.1	115
13	Investigation of the viscous heating artefact arising from the use of thermocouples in a focused ultrasound field. Physics in Medicine and Biology, 2008, 53, 4759-4776.	1.6	112
14	The intensity dependence of lesion position shift during focused ultrasound surgery. Ultrasound in Medicine and Biology, 2000, 26, 441-450.	0.7	108
15	Acoustic Surgery. Physics Today, 2001, 54, 29-34.	0.3	98
16	The effect of ultrasound on the cytotoxicity of adriamycin. British Journal of Radiology, 1990, 63, 542-546.	1.0	94
17	HIFU Tissue Ablation: Concept and Devices. Advances in Experimental Medicine and Biology, 2016, 880, 3-20.	0.8	93
18	Heating techniques in hyperthermia. British Journal of Radiology, 1981, 54, 443-466.	1.0	90

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19	A Study of Bubble Activity Generated in Ex Vivo Tissue by High Intensity Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 1327-1344.	0.7	90
20	Extracorporeal high intensity focused ultrasound for renal tumours: a 3-year follow-up. <i>BJU International</i> , 2010, 106, 1004-1009.	1.3	89
21	Thermal ablation of uterine fibroids using MR-guided focused ultrasound-a truly non-invasive treatment modality. <i>European Radiology</i> , 2007, 17, 2505-2511.	2.3	86
22	Ultrasonic imaging: safety considerations. <i>Interface Focus</i> , 2011, 1, 686-697.	1.5	81
23	Imaging of temperature-induced echo strain: preliminary in vitro study to assess feasibility for guiding focused ultrasound surgery. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 345-356.	0.7	76
24	The road to clinical use of high-intensity focused ultrasound for liver cancer: technical and clinical consensus. <i>Journal of Therapeutic Ultrasound</i> , 2013, 1, 13.	2.2	76
25	The use of a segmented transducer for rib sparing in HIFU treatments. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1753-1761.	0.7	75
26	Influence of ablated tissue on the formation of high-intensity focused ultrasound lesions. <i>Ultrasound in Medicine and Biology</i> , 1997, 23, 921-931.	0.7	74
27	Guidance on Reporting Ultrasound Exposure Conditions for Bio-Effects Studies. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 177-183.	0.7	73
28	Blood cell banding in ultrasonic standing wave fields: A physical analysis. <i>Ultrasound in Medicine and Biology</i> , 1978, 4, 111-123.	0.7	71
29	3D tumour spheroids for the prediction of the effects of radiation and hyperthermia treatments. <i>Scientific Reports</i> , 2020, 10, 1653.	1.6	71
30	A 3-D finite-element model for computation of temperature profiles and regions of thermal damage during focused ultrasound surgery exposures. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 1489-1499.	0.7	67
31	Contrast-enhanced ultrasound assessment of tissue response to high-intensity focused ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 851-854.	0.7	65
32	Ultrasound-Responsive Nanocarriers in Cancer Treatment: A Review. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 589-612.	2.5	65
33	The use of ultrasound by physiotherapists in Britain, 1985. <i>Ultrasound in Medicine and Biology</i> , 1987, 13, 659-663.	0.7	63
34	International consensus on use of focused ultrasound for painful bone metastases: Current status and future directions. <i>International Journal of Hyperthermia</i> , 2015, 31, 251-259.	1.1	56
35	Histological study of normal and tumor-bearing liver treated with focused ultrasound. <i>Ultrasound in Medicine and Biology</i> , 1999, 25, 847-856.	0.7	54
36	High-intensity focused ultrasound ablation of breast cancer. <i>Expert Review of Anticancer Therapy</i> , 2007, 7, 823-831.	1.1	47

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37	A study of thermal dose-induced autophagy, apoptosis and necroptosis in colon cancer cells. <i>International Journal of Hyperthermia</i> , 2015, 31, 476-488.	1.1	46
38	Ultrastructural changes in the mouse uterus brought about by ultrasonic irradiation at therapeutic intensities in standing wave fields. <i>Ultrasound in Medicine and Biology</i> , 1979, 5, 167-179.	0.7	44
39	Ultrasonic irradiation of mammalian cells <i>in vitro</i> at hyperthermic temperatures. <i>British Journal of Radiology</i> , 1980, 53, 784-789.	1.0	44
40	Ultrasound in physiotherapy in the United Kingdom: Results of a questionnaire. <i>Physiotherapy Practice</i> , 1988, 4, 69-72.	0.3	36
41	Treatment of implanted liver tumors with focused ultrasound. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 1475-1488.	0.7	36
42	Towards a dosimetric framework for therapeutic ultrasound. <i>International Journal of Hyperthermia</i> , 2015, 31, 182-192.	1.1	34
43	Modelling of the acoustic field of a multi-element HIFU array scattered by human ribs. <i>Physics in Medicine and Biology</i> , 2011, 56, 5553-5581.	1.6	30
44	Attenuation and Absorption. , 2005, , 93-166.		29
45	Therapeutic ultrasound experiments in vitro: Review of factors influencing outcomes and reproducibility. <i>Ultrasonics</i> , 2020, 107, 106167.	2.1	29
46	Noninvasive high-intensity focused ultrasound treatment of twin-twin transfusion syndrome: A preliminary in vivo study. <i>Science Translational Medicine</i> , 2016, 8, 347ra95.	5.8	28
47	Relationship between thermal dose and cell death for rapid ablative and slow hyperthermic heating™. <i>International Journal of Hyperthermia</i> , 2019, 36, 228-242.	1.1	28
48	Pulsed focused ultrasound can improve the anti-cancer effects of immune checkpoint inhibitors in murine pancreatic cancer. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210266.	1.5	25
49	Methods of monitoring thermal ablation of soft tissue tumors – A comprehensive review. <i>Medical Physics</i> , 2022, 49, 769-791.	1.6	23
50	A Polyvinyl Alcohol-Based Thermochromic Material for Ultrasound Therapy Phantoms. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 3135-3144.	0.7	21
51	Focused ultrasound development and clinical adoption: 2013 update on the growth of the field. <i>Journal of Therapeutic Ultrasound</i> , 2014, 2, 2.	2.2	20
52	Dependence of inertial cavitation induced by high intensity focused ultrasound on transducer <i>F</i> -number and nonlinear waveform distortion. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 1160-1169.	0.5	20
53	The new British Medical Ultrasound Society Guidelines for the safe use of diagnostic ultrasound equipment. <i>Ultrasound</i> , 2010, 18, 50-51.	0.3	19
54	A comprehensive model for heat-induced radio-sensitisation. <i>International Journal of Hyperthermia</i> , 2018, 34, 392-402.	1.1	19

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55	<title>Phase one clinical trial of the use of focused ultrasound surgery for the treatment of soft-tissue tumors</title>. , 1998, , .		17
56	Synergism between hyperthermia, ultrasound and $\hat{\Gamma}^3$ irradiation. <i>Ultrasound in Medicine and Biology</i> , 1991, 17, 607-612.	0.7	16
57	A Comparison of Acoustic Cavitation Detection Thresholds Measured with Piezo-electric and Fiber-optic Hydrophone Sensors. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 2406-2421.	0.7	16
58	Calibration of Ultrasound Backscatter Temperature Imaging for High-Intensity Focused Ultrasound Treatment Planning. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 1596-1612.	0.7	16
59	Quality assurance for clinical high intensity focused ultrasound fields. <i>International Journal of Hyperthermia</i> , 2015, 31, 193-202.	1.1	16
60	On measurement of the acoustic nonlinearity parameter using the finite amplitude insertion substitution (FAIS) technique. <i>Metrologia</i> , 2015, 52, 406-422.	0.6	16
61	Latest Advances in the Use of Therapeutic Focused Ultrasound in the Treatment of Pancreatic Cancer. <i>Cancers</i> , 2022, 14, 638.	1.7	16
62	Speed of Sound. , 2005, , 167-190.		15
63	Quantitative photoacoustic imaging study of tumours in vivo: Baseline variations in quantitative measurements. <i>Photoacoustics</i> , 2019, 13, 53-65.	4.4	15
64	A model of acoustic absorption in fluids based on a continuous distribution of relaxation times. <i>Wave Motion</i> , 2012, 49, 93-108.	1.0	14
65	Do We Need to Restrict the Use of Doppler Ultrasound in the First Trimester of Pregnancy?. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 374-380.	0.7	14
66	Reflection and Scattering. , 2005, , 191-222.		13
67	Safety first: progress in calibrating high-intensity focused ultrasound treatments. <i>Imaging in Medicine</i> , 2013, 5, 567-575.	0.0	13
68	Characterization of Acoustic, Cavitation, and Thermal Properties of Poly(vinyl alcohol) Hydrogels for Use as Therapeutic Ultrasound Tissue Mimics. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 1095-1109.	0.7	11
69	Heat and sound: focused ultrasound in the clinic. <i>International Journal of Hyperthermia</i> , 2015, 31, 223-224.	1.1	10
70	Trans-abdominal in vivo placental vessel occlusion using High Intensity Focused Ultrasound. <i>Scientific Reports</i> , 2018, 8, 13631.	1.6	10
71	Inertial Cavitation Behaviors Induced by Nonlinear Focused Ultrasound Pulses. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2884-2895.	1.7	10
72	Physical Chemistry of the Ultrasound-Tissue Interaction. , 2005, , 223-235.		9

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73	The Resurgence of Therapeutic Ultrasound – A 21st Century Phenomenon. <i>Ultrasonics</i> , 2008, 48, 233.	2.1	9
74	AAPM Task Group 241: A medical physicist’s guide to MRI-guided focused ultrasound body systems. <i>Medical Physics</i> , 2021, 48, e772-e806.	1.6	9
75	Focused ultrasound therapy. <i>Current Opinion in Urology</i> , 1994, 4, 89-92.	0.9	8
76	CAVITATION DETECTION IN EX VIVO BOVINE LIVER TISSUE EXPOSED TO HIGH INTENSITY FOCUED ULTRASOUND (HIFU). , 2007, , .		8
77	MR guided high intensity focused ultrasound (MRgHIFU) for treating recurrent gynaecological tumours: a pilot feasibility study. <i>British Journal of Radiology</i> , 2019, 92, 20181037.	1.0	8
78	Maternal and fetal cardiometabolic recovery following ultrasound-guided high-intensity focused ultrasound placental vascular occlusion. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190013.	1.5	8
79	Comparison of Imaging Changes and Pain Responses in Patients with Intra- or Extraosseous Bone Metastases Treated Palliatively with Magnetic Resonance-Guided High-Intensity Focused Ultrasound. <i>Journal of Vascular and Interventional Radiology</i> , 2019, 30, 1351-1360.e1.	0.2	8
80	A Review of High-Intensity Focused Ultrasound in Urology. <i>Cancers</i> , 2021, 13, 5696.	1.7	8
81	Recommendations for Reporting Therapeutic Ultrasound Treatment Parameters. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 1299-1308.	0.7	8
82	Principles of High-Intensity Focused Ultrasound. , 2012, , 51-63.		7
83	Focused Ultrasound-Mediated Hyperthermia in Vitro: An Experimental Arrangement for Treating Cells under Tissue-Mimicking Conditions. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 3290-3297.	0.7	7
84	<title>Intensity dependence of focused ultrasound lesion position</title>. , 1998, 3249, 246.		6
85	Therapeutic and Surgical Applications. , 2005, , 407-456.		6
86	Results of a Survey of Exposure Conditions used in Ultrasound Scans in the UK, February 2007. <i>Ultrasound</i> , 2008, 16, 110-113.	0.3	6
87	Telling it like it is. <i>Journal of Therapeutic Ultrasound</i> , 2013, 1, 4.	2.2	6
88	Value of diffusion-weighted imaging for monitoring tissue change during magnetic resonance-guided high-intensity focused ultrasound therapy in bone applications: an ex-vivo study. <i>European Radiology Experimental</i> , 2018, 2, 10.	1.7	6
89	Temperature Measurement in ex-vivo Bovine Liver using Fine-Wire and Thin-Film Thermocouples. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	5
90	Turning up the Power: High Intensity Focused Ultrasound (HIFU) for the Treatment of Cancer. <i>Ultrasound</i> , 2007, 15, 73-77.	0.3	5

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91	A Study of Cavitation Activity in Ex vivo Tissue Exposed to High Intensity Focused Ultrasound. AIP Conference Proceedings, 2007, , .	0.3	5
92	Comments on "effects of pulsed ultrasound and temperature on the development of rat embryos in culture". Teratology, 1991, 43, 551-551.	1.8	4
93	<title>Focused ultrasound surgery-induced vascular occlusion in fetal medicine</title>. , 1998, , .		4
94	Methodology for Imaging Time-Dependent Phenomena. , 2005, , 303-335.		4
95	The Design And Implementation Of A Passive Cavitation Detection System For Use With Ex Vivo Tissue. AIP Conference Proceedings, 2006, , .	0.3	4
96	Attenuation Estimation and Temperature Imaging Using Backscatter for Extracorporeal HIFU Treatment Planning. AIP Conference Proceedings, 2007, , .	0.3	4
97	Ultrasonic Biophysics. , 2005, , 349-406.		3
98	Methodology for Clinical Investigation. , 2005, , 255-302.		3
99	High Intensity Focused Ultrasound (HIFU) as a Salvage Treatment for Recurrent Prostate Cancer after Brachytherapy " a Feasibility Study. AIP Conference Proceedings, 2007, , .	0.3	3
100	Ultrasound mediated drug delivery: A 21st century phoenix?. International Journal of Hyperthermia, 2012, 28, 279-281.	1.1	3
101	Prediction of pelvic tumour coverage by magnetic resonance-guided high-intensity focused ultrasound (MRgHIFU) from referral imaging. International Journal of Hyperthermia, 2020, 37, 1033-1045.	1.1	3
102	Feasibility of palliating recurrent gynecological tumors with MRGHIFU: comparison of symptom, quality-of-life, and imaging response in intra and extra-pelvic disease. International Journal of Hyperthermia, 2021, 38, 623-632.	1.1	3
103	A personal viewpoint. Physiotherapy Practice, 1985, 1, 106-108.	0.3	2
104	The Wider Context of Sonography. , 2005, , 337-347.		2
105	Ultrasonic Images and the Eye of the Observer. , 2005, , 237-253.		1
106	Generation and Structure of Acoustic Fields. , 2005, , 41-68.		1
107	Basic Acoustic Theory. , 2005, , 1-40.		1
108	Assessment of Possible Hazard in Use. , 2005, , 457-486.		1

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109	A New Clinical HIFU System (Teleson II). AIP Conference Proceedings, 2007, , .	0.3	1
110	A Comparison of Real-time Feedback and Tissue Response to Ultrasound-Guided High Intensity Focused Ultrasound (HIFU) Ablation using Scanned Track Exposure Regimes. AIP Conference Proceedings, 2007, , .	0.3	1
111	Ultrasound: The versatile energy source. International Journal of Hyperthermia, 2015, 31, 75-76.	1.1	1
112	In vitro characterisation of ultrasound-induced heating effects in the mother and fetus: A clinical perspective. Ultrasound, 2021, 29, 73-82.	0.3	1
113	730: High-Intensity Focused Ultrasound for the Treatment of Small Renal Tumours - The Oxford Experience. Journal of Urology, 2006, 175, 236-237.	0.2	1
114	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
115	High-intensity focused ultrasound (HIFU) treatment of liver cancer. , 0, , 92-107.		0
116	Standards for reporting ultrasonic exposures. Ultrasound in Medicine and Biology, 1987, 13, L668.	0.7	0
117	Acoustic Surgery Devices in Clinical Trials. Physics Today, 2002, 55, 13-13.	0.3	0
118	International Society for Therapeutic Ultrasound (ISTU). Ultrasound in Medicine and Biology, 2002, 28, 137.	0.7	0
119	Sinogram-based dynamic imaging using a slow positron camera rotation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 513, 70-73.	0.7	0
120	Detection and Measurement of Acoustic Fields. , 2005, , 69-91.		0
121	Epilogue: Historical Perspectives. , 2005, , 487-489.		0
122	546. Targeted Non-Viral Gene Delivery Using Microbubbles and Focused Ultrasound. Molecular Therapy, 2006, 13, S210.	3.7	0
123	Spatial Control of Microbubble-Mediated Non-Viral Gene Delivery Using Focused Ultrasound. AIP Conference Proceedings, 2007, , .	0.3	0
124	A Pilot Study Investigating the Potential of High-Intensity Focused Ultrasound to Treat Tumours Rapidly. AIP Conference Proceedings, 2007, , .	0.3	0
125	Cavitation-Enhanced Thermal Effects and Applications. , 2015, , 151-206.		0
126	Response to comment by G. Borasi. International Journal of Hyperthermia, 2018, 34, 404-406.	1.1	0

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127	EP-2335: 3D tumour spheroids as an alternative to clonogenic assays for predicting radiation response in vivo. Radiotherapy and Oncology, 2018, 127, S1288.	0.3	0
128	Quantitative prediction of the extent of pelvic tumour ablation by magnetic resonance-guided high intensity focused ultrasound. International Journal of Hyperthermia, 2021, 38, 1111-1125.	1.1	0
129	1400: Early Clinical Experience Using High-Intensity Focused Ultrasound for the Treatment of Renal Tumours. Journal of Urology, 2005, 173, 379-380.	0.2	0
130	Abstract 3981: Characterization of high intensity focused Ultrasound induced vascular damage using histology, MR, and Ultrasound Imaging. , 2010, , .		0
131	Abstract 3611: An investigation of thermal dose as a parameter to model the thermal effects of high intensity focused ultrasound in cancer therapy. , 2015, , .		0