Gail R Ter Haar

List of Publications by Year
in descending order

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131 papers	5,528 citations	81900 39 h-index	82547 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.	2.5	579
2	Therapeutic applications of ultrasound. Progress in Biophysics and Molecular Biology, 2007, 93, 111-129.	2.9	510
3	International recommendations and guidelines for the safe use of diagnostic ultrasound in medicine. Ultrasound in Medicine and Biology, 2000, 26, 355-366.	1.5	335
4	Heating technology for malignant tumors: a review. International Journal of Hyperthermia, 2020, 37, 711-741.	2.5	211
5	The sensitivity of biological tissue to ultrasound. Ultrasound in Medicine and Biology, 1997, 23, 805-812.	1.5	169
6	High Intensity Focused Ultrasound for the Treatment of Tumors. Echocardiography, 2001, 18, 317-322.	0.9	153
7	Physical parameters affecting ultrasound/microbubble-mediated gene delivery efficiency in vitro. Ultrasound in Medicine and Biology, 2006, 32, 1269-1279.	1.5	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.	1.5	128
9	Safety and bio-effects of ultrasound contrast agents. Medical and Biological Engineering and Computing, 2009, 47, 893-900.	2.8	118
10	Histological changes in rat liver tumours treated with high-intensity focused ultrasound. Ultrasound in Medicine and Biology, 1993, 19, 67-74.	1.5	116
11	High Intensity Focused Ultrasound: Past, present and future. International Journal of Hyperthermia, 2007, 23, 85-87.	2.5	116
12	Ultrasound-guided therapeutic focused ultrasound: Current status and future directions. International Journal of Hyperthermia, 2015, 31, 77-89.	2.5	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.	3.0	112
14	The intensity dependence of lesion position shift during focused ultrasound surgery. Ultrasound in Medicine and Biology, 2000, 26, 441-450.	1.5	108
15	Acoustic Surgery. Physics Today, 2001, 54, 29-34.	0.3	98
16	The effect of ultrasound on the cytoxicity of adriamycin. British Journal of Radiology, 1990, 63, 542-546.	2.2	94
17	HIFU Tissue Ablation: Concept and Devices. Advances in Experimental Medicine and Biology, 2016, 880, 3-20.	1.6	93
18	Heating techniques in hyperthermia. British Journal of Radiology, 1981, 54, 443-466.	2.2	90

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19	A Study of Bubble Activity Generated in Ex Vivo Tissue by High Intensity Focused Ultrasound. Ultrasound in Medicine and Biology, 2010, 36, 1327-1344.	1.5	90
20	Extracorporeal high intensity focused ultrasound for renal tumours: a 3â€year followâ€up. BJU International, 2010, 106, 1004-1009.	2.5	89
21	Thermal ablation of uterine fibroids using MR-guided focused ultrasound-a truly non-invasive treatment modality. European Radiology, 2007, 17, 2505-2511.	4.5	86
22	Ultrasonic imaging: safety considerations. Interface Focus, 2011, 1, 686-697.	3.0	81
23	Imaging of temperature-induced echo strain: preliminary in vitro study to assess feasibility for guiding focused ultrasound surgery. Ultrasound in Medicine and Biology, 2004, 30, 345-356.	1.5	76
24	The road to clinical use of high-intensity focused ultrasound for liver cancer: technical and clinical consensus. Journal of Therapeutic Ultrasound, 2013, 1, 13.	2.2	76
25	The use of a segmented transducer for rib sparing in HIFU treatments. Ultrasound in Medicine and Biology, 2006, 32, 1753-1761.	1.5	75
26	Influence of ablated tissue on the formation of high-intensity focused ultrasound lesions. Ultrasound in Medicine and Biology, 1997, 23, 921-931.	1.5	74
27	Guidance on Reporting Ultrasound Exposure Conditions for Bio-Effects Studies. Ultrasound in Medicine and Biology, 2011, 37, 177-183.	1.5	73
28	Blood cell banding in ultrasonic standing wave fields: A physical analysis. Ultrasound in Medicine and Biology, 1978, 4, 111-123.	1.5	71
29	3D tumour spheroids for the prediction of the effects of radiation and hyperthermia treatments. Scientific Reports, 2020, 10, 1653.	3.3	71
30	A 3-D finite-element model for computation of temperature profiles and regions of thermal damage during focused ultrasound surgery exposures. Ultrasound in Medicine and Biology, 1998, 24, 1489-1499.	1.5	67
31	Contrast-enhanced ultrasound assessment of tissue response to high-intensity focused ultrasound. Ultrasound in Medicine and Biology, 2004, 30, 851-854.	1.5	65
32	Ultrasound-Responsive Nanocarriers in Cancer Treatment: A Review. ACS Pharmacology and Translational Science, 2021, 4, 589-612.	4.9	65
33	The use of ultrasound by physiotherapists in Britain, 1985. Ultrasound in Medicine and Biology, 1987, 13, 659-663.	1.5	63
34	International consensus on use of focused ultrasound for painful bone metastases: Current status and future directions. International Journal of Hyperthermia, 2015, 31, 251-259.	2.5	56
35	Histological study of normal and tumor-bearing liver treated with focused ultrasound. Ultrasound in Medicine and Biology, 1999, 25, 847-856.	1.5	54
36	High-intensity focused ultrasound ablation of breast cancer. Expert Review of Anticancer Therapy, 2007, 7, 823-831.	2.4	47

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37	A study of thermal dose-induced autophagy, apoptosis and necroptosis in colon cancer cells. International Journal of Hyperthermia, 2015, 31, 476-488.	2.5	46
38	Ultrastructural changes in the mouse uterus brought about by ultrasonic irradiation at therapeutic intensities in standing wave fields. Ultrasound in Medicine and Biology, 1979, 5, 167-179.	1.5	44
39	Ultrasonic irradiation of mammalian cellsin vitroat hyperthermic temperatures. British Journal of Radiology, 1980, 53, 784-789.	2.2	44
40	Ultrasound in physiotherapy in the United Kingdom: Results of a questionnaire. Physiotherapy Practice, 1988, 4, 69-72.	0.3	36
41	Treatment of implanted liver tumors with focused ultrasound. Ultrasound in Medicine and Biology, 1998, 24, 1475-1488.	1.5	36
42	Towards a dosimetric framework for therapeutic ultrasound. International Journal of Hyperthermia, 2015, 31, 182-192.	2.5	34
43	Modelling of the acoustic field of a multi-element HIFU array scattered by human ribs. Physics in Medicine and Biology, 2011, 56, 5553-5581.	3.0	30
44	Attenuation and Absorption. , 2005, , 93-166.		29
45	Therapeutic ultrasound experiments in vitro: Review of factors influencing outcomes and reproducibility. Ultrasonics, 2020, 107, 106167.	3.9	29
46	Noninvasive high-intensity focused ultrasound treatment of twin-twin transfusion syndrome: A preliminary in vivo study. Science Translational Medicine, 2016, 8, 347ra95.	12.4	28
47	â€˜Relationship between thermal dose and cell death for â€œrapidâ€•ablative and â€œslowâ€•hyperthermic heatingâ€™. International Journal of Hyperthermia, 2019, 36, 228-242.	2.5	28
48	Pulsed focused ultrasound can improve the anti-cancer effects of immune checkpoint inhibitors in murine pancreatic cancer. Journal of the Royal Society Interface, 2021, 18, 20210266.	3.4	25
49	Methods of monitoring thermal ablation of soft tissue tumors â€“ A comprehensive review. Medical Physics, 2022, 49, 769-791.	3.0	23
50	A Polyvinyl Alcohol-Based Thermochromic Material for Ultrasound Therapy Phantoms. Ultrasound in Medicine and Biology, 2020, 46, 3135-3144.	1.5	21
51	Focused ultrasound development and clinical adoption: 2013 update on the growth of the field. Journal of Therapeutic Ultrasound, 2014, 2, 2.	2.2	20
52	Dependence of inertial cavitation induced by high intensity focused ultrasound on transducer F-number and nonlinear waveform distortion. Journal of the Acoustical Society of America, 2018, 144, 1160-1169.	1.1	20
53	The new British Medical Ultrasound Society Guidelines for the safe use of diagnostic ultrasound equipment. Ultrasound, 2010, 18, 50-51.	0.7	19
54	A comprehensive model for heat-induced radio-sensitisation. International Journal of Hyperthermia, 2018, 34, 392-402.	2.5	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 Î³ irradiation. Ultrasound in Medicine and Biology, 1991, 17, 607-612.	1.5	16
57	A Comparison of Acoustic Cavitation Detection Thresholds Measured with Piezo-electric and Fiber-optic Hydrophone Sensors. Ultrasound in Medicine and Biology, 2013, 39, 2406-2421.	1.5	16
58	Calibration of Ultrasound Backscatter Temperature Imaging for High-Intensity Focused Ultrasound Treatment Planning. Ultrasound in Medicine and Biology, 2013, 39, 1596-1612.	1.5	16
59	Quality assurance for clinical high intensity focused ultrasound fields. International Journal of Hyperthermia, 2015, 31, 193-202.	2.5	16
60	On measurement of the acoustic nonlinearity parameter using the finite amplitude insertion substitution (FAIS) technique. Metrologia, 2015, 52, 406-422.	1.2	16
61	Latest Advances in the Use of Therapeutic Focused Ultrasound in the Treatment of Pancreatic Cancer. Cancers, 2022, 14, 638.	3.7	16
62	Speed of Sound. , 2005, , 167-190.		15
63	Quantitative photoacoustic imaging study of tumours in vivo: Baseline variations in quantitative measurements. Photoacoustics, 2019, 13, 53-65.	7.8	15
64	A model of acoustic absorption in fluids based on a continuous distribution of relaxation times. Wave Motion, 2012, 49, 93-108.	2.0	14
65	Do We Need to Restrict the Use of Doppler Ultrasound in the First Trimester of Pregnancy?. Ultrasound in Medicine and Biology, 2013, 39, 374-380.	1.5	14
66	Reflection and Scattering. , 2005, , 191-222.		13
67	Safety first: progress in calibrating high-intensity focused ultrasound treatments. Imaging in Medicine, 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. Ultrasound in Medicine and Biology, 2022, 48, 1095-1109.	1.5	11
69	Heat and sound: focused ultrasound in the clinic. International Journal of Hyperthermia, 2015, 31, 223-224.	2.5	10
70	Trans-abdominal in vivo placental vessel occlusion using High Intensity Focused Ultrasound. Scientific Reports, 2018, 8, 13631.	3.3	10
71	Inertial Cavitation Behaviors Induced by Nonlinear Focused Ultrasound Pulses. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2884-2895.	3.0	10
72	Physical Chemistry of the Ultrasound-Tissue Interaction. , 2005, , 223-235.		9

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73	The Resurgence of Therapeutic Ultrasound â€“ A 21st Century Phenomenon. Ultrasonics, 2008, 48, 233.	3.9	9
74	AAPM Task Group 241: A medical physicistâ€™s guide to MRIâ€guided focused ultrasound body systems. Medical Physics, 2021, 48, e772-e806.	3.0	9
75	Focused ultrasound therapy. Current Opinion in Urology, 1994, 4, 89-92.	1.8	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. British Journal of Radiology, 2019, 92, 20181037.	2.2	8
78	Maternal and fetal cardiometabolic recovery following ultrasound-guided high-intensity focused ultrasound placental vascular occlusion. Journal of the Royal Society Interface, 2019, 16, 20190013.	3.4	8
79	Comparison of Imaging Changes and Pain Responses in Patients with Intra- or Extraosseous Bone Metastases Treated Palliatively with Magnetic Resonance-Guided High-Intensityâ€“Focused Ultrasound. Journal of Vascular and Interventional Radiology, 2019, 30, 1351-1360.e1.	0.5	8
80	A Review of High-Intensity Focused Ultrasound in Urology. Cancers, 2021, 13, 5696.	3.7	8
81	Recommendations for Reporting Therapeutic Ultrasound Treatment Parameters. Ultrasound in Medicine and Biology, 2022, 48, 1299-1308.	1.5	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. Ultrasound in Medicine and Biology, 2019, 45, 3290-3297.	1.5	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. Ultrasound, 2008, 16, 110-113.	0.7	6
87	Telling it like it is. Journal of Therapeutic Ultrasound, 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. European Radiology Experimental, 2018, 2, 10.	3.4	6
89	Temperature Measurement in ex-vivo Bovine Liver using Fine-Wire and Thin-Film Thermocouples. AIP Conference Proceedings, 2006, , .	0.4	5
90	Turning up the Power: High Intensity Focused Ultrasound (HIFU) for the Treatment of Cancer. Ultrasound, 2007, 15, 73-77.	0.7	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, , .	0.4	5
92	Comments on â€œeffects of pulsed ultrasound and temperature on the development of rat embryos in cultureâ€• Teratology, 1991, 43, 551-551.	1.6	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, , .	0.4	4
96	Attenuation Estimation and Temperature Imaging Using Backscatter for Extracorporeal HIFU Treatment Planning. AIP Conference Proceedings, 2007, , .	0.4	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 â€" a Feasibility Study. AIP Conference Proceedings, 2007, , .	0.4	3
100	Ultrasound mediated drug delivery: A 21st century phoenix?. International Journal of Hyperthermia, 2012, 28, 279-281.	2.5	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.	2.5	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.	2.5	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

#	Article	IF	Citations
109	A New Clinical HIFU System (Teleson II). AIP Conference Proceedings, 2007, , .	0.4	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, , .	0.4	1
111	Ultrasound: The versatile energy source. International Journal of Hyperthermia, 2015, 31, 75-76.	2.5	1
112	In vitro characterisation of ultrasound-induced heating effects in the mother and fetus: A clinical perspective. Ultrasound, 2021, 29, 73-82.	0.7	1
113	730: High-Intensity Focused Ultrasound for the Treatment of Small Renal Tumours - The Oxford Experience. Journal of Urology, 2006, 175, 236-237.	0.4	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.	2.5	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.	1.5	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.	1.5	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.	1.6	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.	8.2	0
123	Spatial Control of Microbubble-Mediated Non-Viral Gene Delivery Using Focused Ultrasound. AIP Conference Proceedings, 2007, , .	0.4	0
124	A Pilot Study Investigating the Potential of High-Intensity Focused Ultrasound to Treat Tumours Rapidly. AIP Conference Proceedings, 2007, , .	0.4	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.	2.5	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.	0.6	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.	2.5	0
129	1400: Early Clinical Experience Using High-Intensity Focused Ultrasound for the Treatment of Renal Tumours. Journal of Urology, 2005, 173, 379-380.	0.4	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