

Christy K Holland

List of Publications by Year in descending order

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116
papers

5,932
citations

66343

42
h-index

79698

73
g-index

158
all docs

158
docs citations

158
times ranked

3615
citing authors

#	ARTICLE	IF	CITATIONS
1	Gauging the likelihood of cavitation from short-pulse, low-duty cycle diagnostic ultrasound. <i>Ultrasound in Medicine and Biology</i> , 1991, 17, 179-185.	1.5	600
2	Thresholds for transient cavitation produced by pulsed ultrasound in a controlled nuclei environment. <i>Journal of the Acoustical Society of America</i> , 1990, 88, 2059-2069.	1.1	280
3	Correlation of cavitation with ultrasound enhancement of thrombolysis. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1257-1267.	1.5	257
4	Ultrasound-Enhanced Thrombolysis Using Definity® as a Cavitation Nucleation Agent. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1421-1433.	1.5	215
5	Bioeffects Considerations for Diagnostic Ultrasound Contrast Agents. <i>Journal of Ultrasound in Medicine</i> , 2008, 27, 611-632.	1.7	213
6	Ultrasound-Responsive Cavitation Nuclei for Therapy and Drug Delivery. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 1296-1325.	1.5	193
7	Passive cavitation imaging with ultrasound arrays. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 3071-3083.	1.1	159
8	Direct evidence of cavitation in vivo from diagnostic ultrasound. <i>Ultrasound in Medicine and Biology</i> , 1996, 22, 917-925.	1.5	140
9	Ultrasound-enhanced thrombolysis with tPA-loaded echogenic liposomes. <i>Thrombosis Research</i> , 2009, 124, 306-310.	1.7	119
10	A magnetic resonance imaging-based articulatory and acoustic study of "retroflex" and "bunched" American English /r/. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 4466-4481.	1.1	118
11	Ultrasound-facilitated thrombolysis using tissue-plasminogen activator-loaded echogenic liposomes. <i>Thrombosis Research</i> , 2007, 119, 777-784.	1.7	117
12	Quantitative Frequency-Domain Passive Cavitation Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 177-191.	3.0	113
13	Shaken and Stirred: Mechanisms of Ultrasound-Enhanced Thrombolysis. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 187-196.	1.5	105
14	Gauging the likelihood of stable cavitation from ultrasound contrast agents. <i>Physics in Medicine and Biology</i> , 2013, 58, 127-144.	3.0	103
15	Passive imaging with pulsed ultrasound insonations. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 544-553.	1.1	101
16	Ultrasound-enhanced tissue plasminogen activator thrombolysis in an in vitro porcine clot model. <i>Thrombosis Research</i> , 2008, 121, 663-673.	1.7	98
17	Venous stenosis in a pig arteriovenous fistula model—anatomy, mechanisms and cellular phenotypes. <i>Nephrology Dialysis Transplantation</i> , 2007, 23, 525-533.	0.7	94
18	Ultrasound-Enhanced rt-PA Thrombolysis in an ex Vivo Porcine Carotid Artery Model. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 1240-1251.	1.5	93

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19	In vitro measurements of inertial cavitation thresholds in human blood. <i>Ultrasound in Medicine and Biology</i> , 1996, 22, 939-948.	1.5	92
20	Characterization of Ultrasound Propagation Through Ex-vivo Human Temporal Bone. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1578-1589.	1.5	90
21	Lower extremity volumetric arterial blood flow in normal subjects. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 1079-1086.	1.5	83
22	Clot Retraction Affects the Extent of Ultrasound-Enhanced Thrombolysis in an Ex Vivo Porcine Thrombosis Model. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 813-824.	1.5	80
23	Destruction Thresholds of Echogenic Liposomes with Clinical Diagnostic Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 797-809.	1.5	75
24	Ultrasound-mediated drug delivery for cardiovascular disease. <i>Expert Opinion on Drug Delivery</i> , 2013, 10, 573-592.	5.0	74
25	Ultrasound-Assisted Thrombolysis for Stroke Therapy. <i>Stroke</i> , 2010, 41, S50-3.	2.0	73
26	Ultrasound-Triggered Release of Recombinant Tissue-Type Plasminogen Activator from Echogenic Liposomes. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 145-157.	1.5	72
27	Thrombolytic efficacy of tissue plasminogen activator-loaded echogenic liposomes in a rabbit thrombus model. <i>Thrombosis Research</i> , 2012, 130, 629-635.	1.7	71
28	Ultrasound-enhanced delivery of targeted echogenic liposomes in a novel ex vivo mouse aorta model. <i>Journal of Controlled Release</i> , 2010, 144, 288-295.	9.9	69
29	Broadband Attenuation Measurements of Phospholipid-Shelled Ultrasound Contrast Agents. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 410-421.	1.5	68
30	In Vivo Therapeutic Gas Delivery for Neuroprotection With Echogenic Liposomes. <i>Circulation</i> , 2010, 122, 1578-1587.	1.6	65
31	Ultrasound-Mediated Release of Hydrophilic and Lipophilic Agents From Echogenic Liposomes. <i>Journal of Ultrasound in Medicine</i> , 2008, 27, 1597-1606.	1.7	61
32	Acousto-mechanical and thermal properties of clotted blood. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 3766-3772.	1.1	57
33	Acoustic characterization of echogenic liposomes: Frequency-dependent attenuation and backscatter. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 3472-3481.	1.1	55
34	Sonobactericide: An Emerging Treatment Strategy for Bacterial Infections. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 193-215.	1.5	52
35	Sonothrombolysis. <i>Advances in Experimental Medicine and Biology</i> , 2016, 880, 339-362.	1.6	51
36	In vitro characterization of liposomes and Optison® by acoustic scattering at 3.5 MHz. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 181-190.	1.5	50

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37	Duty Cycle Dependence of Ultrasound Enhanced Thrombolysis in a Human Clot Model. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 576-583.	1.5	48
38	Efficacy of histotripsy combined with rt-PA<i>in vitro</i>. <i>Physics in Medicine and Biology</i> , 2016, 61, 5253-5274.	3.0	48
39	Delivery of Stem Cells to Porcine Arterial Wall with Echogenic Liposomes Conjugated to Antibodies against CD34 and Intercellular Adhesion Molecule-1. <i>Molecular Pharmaceutics</i> , 2010, 7, 3-11.	4.6	47
40	Acoustic Emissions During 3.1 MHz Ultrasound Bulk Ablation In Vitro. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1434-1448.	1.5	46
41	Relationship between cavitation and loss of echogenicity from ultrasound contrast agents. <i>Physics in Medicine and Biology</i> , 2013, 58, 6541-6563.	3.0	46
42	Ultrasound-Enhanced Thrombolytic Effect of Tissue Plasminogen Activatorâ€œLoaded Echogenic Liposomes in an In Vivo Rabbit Aorta Thrombus Modelâ€œ Brief Report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 1357-1359.	2.4	45
43	Validation of volume flow measurements with cine phase-contrast MR imaging for peripheral arterial waveforms. <i>Journal of Magnetic Resonance Imaging</i> , 1995, 5, 663-668.	3.4	42
44	Effect of Temperature on the Size Distribution, Shell Properties, and Stability of DefinityÂ®. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 434-446.	1.5	40
45	Plasmin-Loaded Echogenic Liposomes for Ultrasound-Mediated Thrombolysis. <i>Translational Stroke Research</i> , 2015, 6, 78-87.	4.2	39
46	<i>Post Hoc</i> Analysis of Passive Cavitation Imaging for Classification of Histotripsy-Induced Liquefaction <i>in Vitro</i>. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 106-115.	8.9	39
47	Acoustic Techniques for Assessing the Optison Destruction Threshold. <i>Journal of Ultrasound in Medicine</i> , 2006, 25, 1519-1529.	1.7	37
48	Arrhenius temperature dependence of in vitro tissue plasminogen activator thrombolysis. <i>Physics in Medicine and Biology</i> , 2007, 52, 2953-2967.	3.0	36
49	Using Passive Cavitation Images to Classify High-Intensity Focused Ultrasound Lesions. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 2420-2434.	1.5	35
50	Effect of Clot Stiffness on Recombinant Tissue Plasminogen Activator Lytic Susceptibility in Vitro. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 2710-2727.	1.5	35
51	Nitric oxide-loaded echogenic liposomes for treatment of vasospasm following subarachnoid hemorrhage. <i>International Journal of Nanomedicine</i> , 2014, 9, 155.	6.7	32
52	Pulsed ultrasound enhances the delivery of nitric oxide from bubble liposomes to ex vivo porcine carotid tissue. <i>International Journal of Nanomedicine</i> , 2014, 9, 4671.	6.7	32
53	Inertial cavitation produced by pulsed ultrasound in controlled host media. <i>Journal of the Acoustical Society of America</i> , 1996, 100, 1199-1208.	1.1	30
54	Scavenging dissolved oxygen via acoustic droplet vaporization. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 394-403.	8.2	30

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55	Tissue Plasminogen Activator Concentration Dependence of 120 kHz Ultrasound-Enhanced Thrombolysis. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1783-1792.	1.5	28
56	Trans-Stent B-Mode Ultrasound and Passive Cavitation Imaging. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 518-527.	1.5	27
57	Acoustic noise characteristics of a 4 Telsa MRI scanner. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 23, 388-397.	3.4	26
58	Liposomal modular complexes for simultaneous targeted delivery of bioactive gases and therapeutics. <i>Journal of Controlled Release</i> , 2010, 142, 326-331.	9.9	26
59	Ultrasound-mediated delivery of echogenic immunoliposomes to porcine vascular smooth muscle cells <i>in vivo</i> . <i>Journal of Liposome Research</i> , 2010, 20, 160-167.	3.3	26
60	Predicting the growth of nanoscale nuclei by histotripsy pulses. <i>Physics in Medicine and Biology</i> , 2016, 61, 2947-2966.	3.0	26
61	<i>In vitro</i> thrombolytic efficacy of echogenic liposomes loaded with tissue plasminogen activator and octafluoropropane gas. <i>Physics in Medicine and Biology</i> , 2017, 62, 517-538.	3.0	26
62	In Vitro Thrombolytic Efficacy of Single- and Five-Cycle Histotripsy Pulses and rt-PA. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 336-349.	1.5	26
63	Effect of low frequency ultrasound on combined rt-PA and eptifibatide thrombolysis in human clots. <i>Thrombosis Research</i> , 2009, 123, 528-536.	1.7	25
64	Effect of Frequency-Dependent Attenuation on Predicted Histotripsy Waveforms in Tissue-Mimicking Phantoms. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 1701-1705.	1.5	25
65	Volumetric flow estimation <i>in vivo</i> and <i>in vitro</i> using pulsed-Doppler ultrasound. <i>Ultrasound in Medicine and Biology</i> , 1996, 22, 591-603.	1.5	24
66	In vitromicroscopic imaging of enhanced thrombolysis with 120-kHz ultrasound in a human clot model. <i>Acoustics Research Letters Online: ARLO</i> , 2005, 6, 25-29.	0.7	24
67	Characterization and Imaging of Lipid-Shelled Microbubbles for Ultrasound-Triggered Release of Xenon. <i>Neurotherapeutics</i> , 2019, 16, 878-890.	4.4	24
68	Cavitation thresholds of contrast agents in an <i>in vitro</i> human clot model exposed to 120-kHz ultrasound. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 646-653.	1.1	23
69	Thrombolytic efficacy and enzymatic activity of rt-PA-loaded echogenic liposomes. <i>Journal of Thrombosis and Thrombolysis</i> , 2015, 40, 144-155.	2.1	23
70	In vitro characterization of sonothrombolysis and echocontrast agents to treat ischemic stroke. <i>Scientific Reports</i> , 2019, 9, 9902.	3.3	23
71	Stability of Echogenic Liposomes as a Blood Pool Ultrasound Contrast Agent in a Physiologic Flow Phantom. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 1970-1981.	1.5	22
72	Experimental validation of a finite-difference model for the prediction of transcranial ultrasound fields based on CT images. <i>Physics in Medicine and Biology</i> , 2012, 57, 8005-8022.	3.0	22

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73	Ultrasound-Induced Thermal Elevation in Clotted Blood and Cranial Bone. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 1285-1295.	1.5	21
74	The impact of bubbles on measurement of drug release from echogenic liposomes. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 1121-1130.	8.2	21
75	Synthesis, Acoustic Stability, and Pharmacologic Activities of Papaverine-Loaded Echogenic Liposomes for Ultrasound Controlled Drug Delivery. <i>Journal of Liposome Research</i> , 2008, 18, 263-277.	3.3	20
76	Making the right choice: Optimizing rt-PA and eptifibatid lysis, an in vitro study. <i>Thrombosis Research</i> , 2010, 126, e305-e311.	1.7	18
77	Calibration of the 1-MHz Sonitron Ultrasound System. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 1762-1766.	1.5	17
78	In silico Study of Low-Frequency Transcranial Ultrasound Fields in Acute Ischemic Stroke Patients. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 1154-1166.	1.5	17
79	An in vitro proof-of-principle study of sonobactericide. <i>Scientific Reports</i> , 2018, 8, 3411.	3.3	16
80	Microfluidic manufacture of rt-PA -loaded echogenic liposomes. <i>Biomedical Microdevices</i> , 2016, 18, 48.	2.8	14
81	Ultrasound-enhanced bevacizumab release from echogenic liposomes for inhibition of atheroma progression. <i>Journal of Liposome Research</i> , 2016, 26, 47-56.	3.3	14
82	Accelerated sonothrombolysis with Definity in a xenographic porcine cerebral thromboembolism model. <i>Scientific Reports</i> , 2021, 11, 3987.	3.3	12
83	Endovaginal pulsed and color doppler in first-trimester pregnancy. <i>Ultrasound in Medicine and Biology</i> , 1993, 19, 517-525.	1.5	11
84	Impulse response method for characterization of echogenic liposomes. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 1693-1703.	1.1	11
85	Mechanical properties and fibrin characteristics of endovascular coil-clot complexes: relevance to endovascular cerebral aneurysm repair paradigms. <i>Journal of NeuroInterventional Surgery</i> , 2015, 7, 291-296.	3.3	11
86	Combination Treatment with rt-PA is More Effective than rt-PA Alone in an in Vitro Human Clot Model. <i>Current Neurovascular Research</i> , 2011, 8, 305-312.	1.1	10
87	Stabilizing Peri-Stent Restenosis Using a Novel Therapeutic Carrier. <i>JACC Basic To Translational Science</i> , 2020, 5, 1-11.	4.1	10
88	Bactericidal Activity of Lipid-Shelled Nitric Oxide-Loaded Microbubbles. <i>Frontiers in Pharmacology</i> , 2019, 10, 1540.	3.5	10
89	Comparative lytic efficacy of rt-PA and ultrasound in porcine versus human clots. <i>PLoS ONE</i> , 2017, 12, e0177786.	2.5	10
90	Loss of gas from echogenic liposomes exposed to pulsed ultrasound. <i>Physics in Medicine and Biology</i> , 2016, 61, 8321-8339.	3.0	9

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91	Clot Degradation Under the Action of Histotripsy Bubble Activity and a Lytic Drug. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2942-2952.	3.0	9
92	Loss of Echogenicity and Onset of Cavitation from Echogenic Liposomes: Pulse Repetition Frequency Independence. Ultrasound in Medicine and Biology, 2015, 41, 208-221.	1.5	8
93	The effect of 220kHz insonation scheme on rt-PA thrombolytic efficacy in vitro. Physics in Medicine and Biology, 2019, 64, 165015.	3.0	8
94	Cavitation Emissions Nucleated by Definity Infused through an EkoSonic Catheter in a Flow Phantom. Ultrasound in Medicine and Biology, 2021, 47, 693-709.	1.5	8
95	Acoustic droplet vaporization-mediated dissolved oxygen scavenging in blood-mimicking fluids, plasma, and blood. Ultrasonics Sonochemistry, 2019, 56, 114-124.	8.2	7
96	ECHOGENIC LIPSOMES FOR TARGETED DRUG DELIVERY. Proceedings, 2009, 2009, 755-758.	0.0	7
97	Characterization of cavitation-radiated acoustic power using diffraction correction. Journal of the Acoustical Society of America, 2018, 144, 3563-3574.	1.1	6
98	Seizing the science of ultrasound. Journal of the American College of Cardiology, 2003, 41, 1628-1630.	2.8	5
99	Passive imaging of cavitation acoustic emissions with ultrasound arrays. AIP Conference Proceedings, 2009, , .	0.4	4
100	Spatial specificity and sensitivity of passive cavitation imaging for monitoring high-intensity focused ultrasound thermal ablation in ex vivo bovine liver. Proceedings of Meetings on Acoustics, 2013, 19, 075022.	0.3	4
101	(More than) doubling down: Effective fibrinolysis at a reduced rt-PA dose for catheter-directed thrombolysis combined with histotripsy. PLoS ONE, 2022, 17, e0261567.	2.5	4
102	Echogenic liposomes for targeted drug delivery. , 2009, , .		3
103	Dissolved oxygen scavenging by acoustic droplet vaporization using intravascular ultrasound. , 2017, 2017, .		3
104	Effect of Thrombin and Incubation Time on Porcine Whole Blood Clot Elasticity and Recombinant Tissue Plasminogen Activator Susceptibility. Ultrasound in Medicine and Biology, 2022, 48, 1567-1578.	1.5	3
105	Measurements of Cavitation Dose, Echogenicity, and Temperature during Ultrasound Ablation. AIP Conference Proceedings, 2007, , .	0.4	2
106	Aortic Pseudothrombus. Journal of Diagnostic Medical Sonography, 2006, 22, 131-134.	0.3	1
107	Image-guided ex vivo liver ablation by unfocused ultrasound using passive cavitation detection. , 2007, , .		1
108	Online review facilitates rapid publishing. Ultrasound in Medicine and Biology, 2007, 33, 1-2.	1.5	1

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109	Role of Cavitation in Bulk Ultrasound Ablation: A Histologic Study. , 2009, , .		1
110	Lipid-shelled microbubbles for ultrasound-triggered release of bioactive gases to treat stroke and cardiovascular disease. , 2019, , .		1
111	Effect of Overpressure on Acoustic Emissions and Treated Tissue Histology in ex Vivo Bulk Ultrasound Ablation. Ultrasound in Medicine and Biology, 2021, 47, 2360-2376.	1.5	1
112	Guest Editorial: Sono et Gravitas - The Legacy of Robert Edmund Apfel. Acoustics Research Letters Online: ARLO, 2005, 6, i-iii.	0.7	0
113	Development of a hybrid finite difference solution of the Westervelt equation using the fast nearfield method as a boundary condition for focused sources: or microbubble nuclei interaction with histotripsy shockwaves. AIP Conference Proceedings, 2015, , .	0.4	0
114	ACOUSTICAL NEWS“USA. Journal of the Acoustical Society of America, 2016, 140, 4111-4114.	1.1	0
115	Sonothrombolysis: Effect of 220kHz insonation scheme. Ultrasound in Medicine and Biology, 2019, 45, S39.	1.5	0
116	Vascular Remodeling of Arteriovenous Fistula. , 2009, , .		0