

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	(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
2	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
3	Accelerated sonothrombolysis with Definity in a xenographic porcine cerebral thromboembolism model. Scientific Reports, 2021, 11, 3987.	3.3	12
4	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
5	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
6	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
7	Sonobactericide: An Emerging Treatment Strategy for Bacterial Infections. Ultrasound in Medicine and Biology, 2020, 46, 193-215.	1.5	52
8	Stabilizing Peri-Stent Restenosis Using a Novel Therapeutic Carrier. JACC Basic To Translational Science, 2020, 5, 1-11.	4.1	10
9	In Vitro Thrombolytic Efficacy of Single- and Five-Cycle Histotripsy Pulses and rt-PA. Ultrasound in Medicine and Biology, 2020, 46, 336-349.	1.5	26
10	Ultrasound-Responsive Cavitation Nuclei for Therapy and Drug Delivery. Ultrasound in Medicine and Biology, 2020, 46, 1296-1325.	1.5	193
11	In vitro characterization of sonothrombolysis and echocontrast agents to treat ischemic stroke. Scientific Reports, 2019, 9, 9902.	3.3	23
12	The effect of 220kHz insonation scheme on rt-PA thrombolytic efficacy in vitro. Physics in Medicine and Biology, 2019, 64, 165015.	3.0	8
13	Characterization and Imaging of Lipid-Shelled Microbubbles for Ultrasound-Triggered Release of Xenon. Neurotherapeutics, 2019, 16, 878-890.	4.4	24
14	Acoustic droplet vaporization-mediated dissolved oxygen scavenging in blood-mimicking fluids, plasma, and blood. Ultrasonics Sonochemistry, 2019, 56, 114-124.	8.2	7
15	Lipid-shelled microbubbles for ultrasound-triggered release of bioactive gases to treat stroke and cardiovascular disease. , 2019, , .		1
16	Sonothrombolysis: Effect of 220kHz insonation scheme. Ultrasound in Medicine and Biology, 2019, 45, S39.	1.5	0
17	Bactericidal Activity of Lipid-Shelled Nitric Oxide-Loaded Microbubbles. Frontiers in Pharmacology, 2019, 10, 1540.	3.5	10
18	An in vitro proof-of-principle study of sonobactericide. Scientific Reports, 2018, 8, 3411.	3.3	16

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19	Effect of Temperature on the Size Distribution, Shell Properties, and Stability of Definity [®] . <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 434-446.	1.5	40
20	<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
21	Characterization of cavitation-radiated acoustic power using diffraction correction. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 3563-3574.	1.1	6
22	Effect of Clot Stiffness on Recombinant Tissue Plasminogen Activator Lytic Susceptibility <i>in Vitro</i> . <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 2710-2727.	1.5	35
23	<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
24	Quantitative Frequency-Domain Passive Cavitation Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 177-191.	3.0	113
25	Dissolved oxygen scavenging by acoustic droplet vaporization using intravascular ultrasound. , 2017, .		3
26	Comparative lytic efficacy of rt-PA and ultrasound in porcine versus human clots. <i>PLoS ONE</i> , 2017, 12, e0177786.	2.5	10
27	Predicting the growth of nanoscale nuclei by histotripsy pulses. <i>Physics in Medicine and Biology</i> , 2016, 61, 2947-2966.	3.0	26
28	ACOUSTICAL NEWS“USA. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 4111-4114.	1.1	0
29	Loss of gas from echogenic liposomes exposed to pulsed ultrasound. <i>Physics in Medicine and Biology</i> , 2016, 61, 8321-8339.	3.0	9
30	Scavenging dissolved oxygen via acoustic droplet vaporization. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 394-403.	8.2	30
31	Microfluidic manufacture of rt-PA -loaded echogenic liposomes. <i>Biomedical Microdevices</i> , 2016, 18, 48.	2.8	14
32	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
33	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
34	Trans-Stent B-Mode Ultrasound and Passive Cavitation Imaging. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 518-527.	1.5	27
35	Sonothrombolysis. <i>Advances in Experimental Medicine and Biology</i> , 2016, 880, 339-362.	1.6	51
36	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

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37	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
38	Using Passive Cavitation Images to Classify High-Intensity Focused Ultrasound Lesions. Ultrasound in Medicine and Biology, 2015, 41, 2420-2434.	1.5	35
39	Impulse response method for characterization of echogenic liposomes. Journal of the Acoustical Society of America, 2015, 137, 1693-1703.	1.1	11
40	Thrombolytic efficacy and enzymatic activity of rt-PA-loaded echogenic liposomes. Journal of Thrombosis and Thrombolysis, 2015, 40, 144-155.	2.1	23
41	Plasmin-Loaded Echogenic Liposomes for Ultrasound-Mediated Thrombolysis. Translational Stroke Research, 2015, 6, 78-87.	4.2	39
42	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
43	Shaken and Stirred: Mechanisms of Ultrasound-Enhanced Thrombolysis. Ultrasound in Medicine and Biology, 2015, 41, 187-196.	1.5	105
44	Mechanical properties and fibrin characteristics of endovascular coil-clot complexes: relevance to endovascular cerebral aneurysm repair paradigms. Journal of NeuroInterventional Surgery, 2015, 7, 291-296.	3.3	11
45	Nitric oxide-loaded echogenic liposomes for treatment of vasospasm following subarachnoid hemorrhage. International Journal of Nanomedicine, 2014, 9, 155.	6.7	32
46	Pulsed ultrasound enhances the delivery of nitric oxide from bubble liposomes to ex vivo porcine carotid tissue. International Journal of Nanomedicine, 2014, 9, 4671.	6.7	32
47	Broadband Attenuation Measurements of Phospholipid-Shelled Ultrasound Contrast Agents. Ultrasound in Medicine and Biology, 2014, 40, 410-421.	1.5	68
48	In silico Study of Low-Frequency Transcranial Ultrasound Fields in Acute Ischemic Stroke Patients. Ultrasound in Medicine and Biology, 2014, 40, 1154-1166.	1.5	17
49	Cavitation thresholds of contrast agents in an <i>in vitro</i> human clot model exposed to 120-kHz ultrasound. Journal of the Acoustical Society of America, 2014, 135, 646-653.	1.1	23
50	Clot Retraction Affects the Extent of Ultrasound-Enhanced Thrombolysis in an Ex Vivo Porcine Thrombosis Model. Ultrasound in Medicine and Biology, 2013, 39, 813-824.	1.5	80
51	The impact of bubbles on measurement of drug release from echogenic liposomes. Ultrasonics Sonochemistry, 2013, 20, 1121-1130.	8.2	21
52	Gauging the likelihood of stable cavitation from ultrasound contrast agents. Physics in Medicine and Biology, 2013, 58, 127-144.	3.0	103
53	Ultrasound-mediated drug delivery for cardiovascular disease. Expert Opinion on Drug Delivery, 2013, 10, 573-592.	5.0	74
54	Relationship between cavitation and loss of echogenicity from ultrasound contrast agents. Physics in Medicine and Biology, 2013, 58, 6541-6563.	3.0	46

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55	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
56	Passive imaging with pulsed ultrasound insonations. Journal of the Acoustical Society of America, 2012, 132, 544-553.	1.1	101
57	Thrombolytic efficacy of tissue plasminogen activator-loaded echogenic liposomes in a rabbit thrombus model. Thrombosis Research, 2012, 130, 629-635.	1.7	71
58	Stability of Echogenic Liposomes as a Blood Pool Ultrasound Contrast Agent in a Physiologic Flow Phantom. Ultrasound in Medicine and Biology, 2012, 38, 1970-1981.	1.5	22
59	Experimental validation of a finite-difference model for the prediction of transcranial ultrasound fields based on CT images. Physics in Medicine and Biology, 2012, 57, 8005-8022.	3.0	22
60	Ultrasound-Enhanced Thrombolytic Effect of Tissue Plasminogen Activator-Loaded Echogenic Liposomes in an In Vivo Rabbit Aorta Thrombus Model—Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1357-1359.	2.4	45
61	Combination Treatment with rt-PA is More Effective than rt-PA Alone in an in Vitro Human Clot Model. Current Neurovascular Research, 2011, 8, 305-312.	1.1	10
62	Ultrasound-Enhanced rt-PA Thrombolysis in an ex Vivo Porcine Carotid Artery Model. Ultrasound in Medicine and Biology, 2011, 37, 1240-1251.	1.5	93
63	Acoustic characterization of echogenic liposomes: Frequency-dependent attenuation and backscatter. Journal of the Acoustical Society of America, 2011, 130, 3472-3481.	1.1	55
64	Liposomal modular complexes for simultaneous targeted delivery of bioactive gases and therapeutics. Journal of Controlled Release, 2010, 142, 326-331.	9.9	26
65	Ultrasound-enhanced delivery of targeted echogenic liposomes in a novel ex vivo mouse aorta model. Journal of Controlled Release, 2010, 144, 288-295.	9.9	69
66	Ultrasound-Triggered Release of Recombinant Tissue-Type Plasminogen Activator from Echogenic Liposomes. Ultrasound in Medicine and Biology, 2010, 36, 145-157.	1.5	72
67	Calibration of the 1-MHz Sonitron Ultrasound System. Ultrasound in Medicine and Biology, 2010, 36, 1762-1766.	1.5	17
68	In Vivo Therapeutic Gas Delivery for Neuroprotection With Echogenic Liposomes. Circulation, 2010, 122, 1578-1587.	1.6	65
69	Ultrasound-mediated delivery of echogenic immunoliposomes to porcine vascular smooth muscle cells in vivo. Journal of Liposome Research, 2010, 20, 160-167.	3.3	26
70	Ultrasound-Assisted Thrombolysis for Stroke Therapy. Stroke, 2010, 41, S50-3.	2.0	73
71	Delivery of Stem Cells to Porcine Arterial Wall with Echogenic Liposomes Conjugated to Antibodies against CD34 and Intercellular Adhesion Molecule-1. Molecular Pharmaceutics, 2010, 7, 3-11.	4.6	47
72	Making the right choice: Optimizing rt-PA and eptifibatid lysis, an in vitro study. Thrombosis Research, 2010, 126, e305-e311.	1.7	18

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73	Passive cavitation imaging with ultrasound arrays. Journal of the Acoustical Society of America, 2009, 126, 3071-3083.	1.1	159
74	Role of Cavitation in Bulk Ultrasound Ablation: A Histologic Study. , 2009, , .		1
75	Passive imaging of cavitation acoustic emissions with ultrasound arrays. AIP Conference Proceedings, 2009, , .	0.4	4
76	Effect of low frequency ultrasound on combined rt-PA and eptifibatid thrombolysis in human clots. Thrombosis Research, 2009, 123, 528-536.	1.7	25
77	Ultrasound-enhanced thrombolysis with tPA-loaded echogenic liposomes. Thrombosis Research, 2009, 124, 306-310.	1.7	119
78	Echogenic liposomes for targeted drug delivery. , 2009, , .		3
79	Vascular Remodeling of Arteriovenous Fistula. , 2009, , .		0
80	ECHOGENIC LIPSOMES FOR TARGETED DRUG DELIVERY. Proceedings, 2009, 2009, 755-758.	0.0	7
81	Ultrasound-Enhanced Thrombolysis Using Definity® as a Cavitation Nucleation Agent. Ultrasound in Medicine and Biology, 2008, 34, 1421-1433.	1.5	215
82	Characterization of Ultrasound Propagation Through Ex-vivo Human Temporal Bone. Ultrasound in Medicine and Biology, 2008, 34, 1578-1589.	1.5	90
83	Acoustic Emissions During 3.1 MHz Ultrasound Bulk Ablation In Vitro. Ultrasound in Medicine and Biology, 2008, 34, 1434-1448.	1.5	46
84	Tissue Plasminogen Activator Concentration Dependence of 120 kHz Ultrasound-Enhanced Thrombolysis. Ultrasound in Medicine and Biology, 2008, 34, 1783-1792.	1.5	28
85	Ultrasound-enhanced tissue plasminogen activator thrombolysis in an in vitro porcine clot model. Thrombosis Research, 2008, 121, 663-673.	1.7	98
86	Synthesis, Acoustic Stability, and Pharmacologic Activities of Papaverine-Loaded Echogenic Liposomes for Ultrasound Controlled Drug Delivery. Journal of Liposome Research, 2008, 18, 263-277.	3.3	20
87	A magnetic resonance imaging-based articulatory and acoustic study of "retroflex" and "bunched" American English /r/. Journal of the Acoustical Society of America, 2008, 123, 4466-4481.	1.1	118
88	Bioeffects Considerations for Diagnostic Ultrasound Contrast Agents. Journal of Ultrasound in Medicine, 2008, 27, 611-632.	1.7	213
89	Ultrasound-Mediated Release of Hydrophilic and Lipophilic Agents From Echogenic Liposomes. Journal of Ultrasound in Medicine, 2008, 27, 1597-1606.	1.7	61
90	Venous stenosis in a pig arteriovenous fistula model—anatomy, mechanisms and cellular phenotypes. Nephrology Dialysis Transplantation, 2007, 23, 525-533.	0.7	94

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91	Arrhenius temperature dependence of in vitro tissue plasminogen activator thrombolysis. <i>Physics in Medicine and Biology</i> , 2007, 52, 2953-2967.	3.0	36
92	Image-guided ex vivo liver ablation by unfocused ultrasound using passive cavitation detection. , 2007, , .		1
93	Ultrasound-facilitated thrombolysis using tissue-plasminogen activator-loaded echogenic liposomes. <i>Thrombosis Research</i> , 2007, 119, 777-784.	1.7	117
94	Measurements of Cavitation Dose, Echogenicity, and Temperature during Ultrasound Ablation. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	2
95	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
96	Online review facilitates rapid publishing. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 1-2.	1.5	1
97	Destruction Thresholds of Echogenic Liposomes with Clinical Diagnostic Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 797-809.	1.5	75
98	Ultrasound-Induced Thermal Elevation in Clotted Blood and Cranial Bone. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 1285-1295.	1.5	21
99	Acoustic Techniques for Assessing the Optison Destruction Threshold. <i>Journal of Ultrasound in Medicine</i> , 2006, 25, 1519-1529.	1.7	37
100	Correlation of cavitation with ultrasound enhancement of thrombolysis. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1257-1267.	1.5	257
101	Acoustic noise characteristics of a 4 Telsa MRI scanner. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 23, 388-397.	3.4	26
102	Acousto-mechanical and thermal properties of clotted blood. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 3766-3772.	1.1	57
103	Aortic Pseudothrombus. <i>Journal of Diagnostic Medical Sonography</i> , 2006, 22, 131-134.	0.3	1
104	Guest Editorial: Sono et Gravitas - The Legacy of Robert Edmund Apfel. <i>Acoustics Research Letters Online: ARLO</i> , 2005, 6, i-iii.	0.7	0
105	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
106	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
107	Seizing the science of ultrasound. <i>Journal of the American College of Cardiology</i> , 2003, 41, 1628-1630.	2.8	5
108	Lower extremity volumetric arterial blood flow in normal subjects. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 1079-1086.	1.5	83

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109	Inertial cavitation produced by pulsed ultrasound in controlled host media. Journal of the Acoustical Society of America, 1996, 100, 1199-1208.	1.1	30
110	Volumetric flow estimation in vivo and in vitro using pulsed-Doppler ultrasound. Ultrasound in Medicine and Biology, 1996, 22, 591-603.	1.5	24
111	Direct evidence of cavitation in vivo from diagnostic ultrasound. Ultrasound in Medicine and Biology, 1996, 22, 917-925.	1.5	140
112	In vitro measurements of inertial cavitation thresholds in human blood. Ultrasound in Medicine and Biology, 1996, 22, 939-948.	1.5	92
113	Validation of volume flow measurements with cine phase-contrast MR imaging for peripheral arterial waveforms. Journal of Magnetic Resonance Imaging, 1995, 5, 663-668.	3.4	42
114	Endovaginal pulsed and color doppler in first-trimester pregnancy. Ultrasound in Medicine and Biology, 1993, 19, 517-525.	1.5	11
115	Gauging the likelihood of cavitation from short-pulse, low-duty cycle diagnostic ultrasound. Ultrasound in Medicine and Biology, 1991, 17, 179-185.	1.5	600
116	Thresholds for transient cavitation produced by pulsed ultrasound in a controlled nuclei environment. Journal of the Acoustical Society of America, 1990, 88, 2059-2069.	1.1	280