

Emmanuel W Cherin

List of Publications by Year in descending order

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59
papers

2,086
citations

279487

23
h-index

264894

42
g-index

61
all docs

61
docs citations

61
times ranked

1711
citing authors

#	ARTICLE	IF	CITATIONS
1	A new ultrasound instrument for in vivo microimaging of mice. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 1165-1172.	0.7	329
2	High frequency nonlinear B-scan imaging of microbubble contrast agents. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 65-79.	1.7	141
3	Characterization of Submicron Phase-change Perfluorocarbon Droplets for Extravascular Ultrasound Imaging of Cancer. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 475-489.	0.7	140
4	Evaluation of Acoustical Parameter Sensitivity to Age-Related and Osteoarthritic Changes in Articular Cartilage Using 50-MHz Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 341-354.	0.7	122
5	Ultrahigh frame rate retrospective ultrasound microimaging and blood flow visualization in mice in vivo. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 683-691.	0.7	115
6	Quantification of Microvascular Tortuosity during Tumor Evolution Using Acoustic Angiography. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1896-1904.	0.7	104
7	High-resolution, high-contrast ultrasound imaging using a prototype dual-frequency transducer: In vitro and in vivo studies. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 1772-1781.	1.7	97
8	Fabrication and Performance of a 40-MHz Linear Array Based on a 1-3 Composite with Geometric Elevation Focusing. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 1888-1894.	1.7	94
9	Assessment of Articular Cartilage and Subchondral Bone: Subtle and Progressive Changes in Experimental Osteoarthritis Using 50 MHz Echography In Vitro. <i>Journal of Bone and Mineral Research</i> , 1997, 12, 1378-1386.	3.1	82
10	Noninvasive Ultrasonic Measurement of Regional and Local Pulse-Wave Velocity in Mice. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 1368-1375.	0.7	75
11	Performance and Characterization of New Micromachined High-Frequency Linear Arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 1719-1729.	1.7	71
12	Investigating the Subharmonic Response of Individual Phospholipid Encapsulated Microbubbles at High Frequencies: A Comparative Study of Five Agents. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 846-863.	0.7	61
13	Assessment of rat articular cartilage maturation using 50-MHz quantitative ultrasonography. <i>Osteoarthritis and Cartilage</i> , 2001, 9, 178-186.	0.6	60
14	Acoustic Behavior of Halobacterium salinarum Gas Vesicles in the High-Frequency Range: Experiments and Modeling. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1016-1030.	0.7	50
15	Investigating perfluorohexane particles with high-frequency ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 73-82.	0.7	49
16	Experimental characterization of fundamental and second harmonic beams for a high-frequency ultrasound transducer. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 635-646.	0.7	46
17	Radial Modulation Imaging of Microbubble Contrast Agents at High Frequency. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 949-962.	0.7	35
18	High-Frequency Subharmonic Pulsed-Wave Doppler and Color Flow Imaging of Microbubble Contrast Agents. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1139-1151.	0.7	32

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19	Image-Guided Ultrasound Characterization of Volatile Sub-Micron Phase-Shift Droplets in the 20–40 MHz Frequency Range. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 795-807.	0.7	29
20	Acoustic and Kinetic Behaviour of Definity in Mice Exposed to High Frequency Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 296-307.	0.7	27
21	Nonlinear Emission from Individual Bound Microbubbles at High Frequencies. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 313-324.	0.7	27
22	Development of a 3 French Dual-Frequency Intravascular Ultrasound Catheter. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 251-266.	0.7	27
23	Superharmonic Ultrasound for Motion-Independent Localization Microscopy: Applications to Microvascular Imaging From Low to High Flow Rates. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 957-967.	1.7	26
24	Developmental changes in integrated ultrasound backscatter from embryonic blood in vivo in mice at high US frequency. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 1307-1319.	0.7	23
25	In Vitro Superharmonic Contrast Imaging Using a Hybrid Dual-Frequency Probe. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 2525-2539.	0.7	22
26	Fabrication and performance of high-frequency composite transducers with triangular-pillar geometry. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 827-836.	1.7	21
27	Automatic three-dimensional reconstruction and characterization of articular cartilage from high-resolution ultrasound acquisitions. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 1369-1381.	0.7	20
28	The Effect of Binding on the Subharmonic Emissions from Individual Lipid-Encapsulated Microbubbles at Transmit Frequencies of 11 and 25 MHz. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 345-359.	0.7	20
29	A model for reflectivity enhancement due to surface bound submicrometer particles. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1247-1255.	0.7	18
30	High frequency ultrasound nonlinear scattering from porphyrin nanobubbles. <i>Ultrasonics</i> , 2021, 110, 106245.	2.1	17
31	Nonlinear ultrasound propagation through layered liquid and tissue-equivalent media: computational and experimental results at high frequency. <i>Physics in Medicine and Biology</i> , 2006, 51, 5809-5824.	1.6	15
32	Reflection from bound microbubbles at high ultrasound frequencies. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 536-545.	1.7	13
33	Hybrid dual frequency transducer and Scanhead for micro-ultrasound imaging. , 2009, , .		11
34	Effect of triangular pillar geometry on high- frequency piezocomposite transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 957-968.	1.7	11
35	Characterization of an Array-Based Dual-Frequency Transducer for Superharmonic Contrast Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2419-2431.	1.7	11
36	30/80 MHz Bidirectional Dual-Frequency IVUS Feasibility Evaluated In Vivo and for Stent Imaging. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 2104-2112.	0.7	8

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37	Implementation of a Novel 288-Element Dual-Frequency Array for Acoustic Angiography: In Vitro and <i>In Vivo</i> Characterization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2657-2666.	1.7	8
38	Femtosecond photoacoustics: integrated two-photon fluorescence and photoacoustic microscopy. Proceedings of SPIE, 2010, , .	0.8	5
39	Design of a Subtarsal Ultrasonic Transducer for Mild Hyperthermia Treatment of Dry Eye Disease. Ultrasound in Medicine and Biology, 2016, 42, 232-242.	0.7	4
40	Beamforming and Imaging Approaches for Array-Based Dual-Frequency Acoustic Angiography. , 2019, , .		4
41	High-Frequency Array-Based Nanobubble Nonlinear Imaging in a Phantom and <i>In Vivo</i> . IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2059-2074.	1.7	3
42	Fine Pitch Flexible Printed Circuit Board Patterning for Miniaturized Endoscopic MicroUltrasound Arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2785-2797.	1.7	3
43	High frequency piezo-composite transducer with hexagonal pillars. , 2009, , .		2
44	Adaptive processing on transmit and receive for high frequency composite transducers. , 2010, , .		1
45	A new transducer receive transfer function calibration method: application to microbubble backscattering cross-section measurements at high frequency. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1159-1168.	1.7	1
46	Image-guided characterization of phase-shift droplets at pre-clinical frequencies in vitro and in vivo. , 2015, , .		1
47	Characterization of a prototype transmit 2 MHz receive 21 MHz array for superharmonic imaging. , 2017, , .		1
48	Enhanced Depth of Field Acoustic Angiography with a Prototype 288-element Dual-Frequency Array. , 2019, , .		1
49	A new photoacoustic imaging platform for potential applications in prostate cancer. , 2020, , .		1
50	High-Frequency Endoscopic Linear Arrays for Intraluminal Imaging. , 2020, , .		1
51	Acoustic characterisation of individual targeted microbubbles with high-frequency ultrasound. , 2008, , .		0
52	The influence of attachment on the nonlinear behaviour of lipid encapsulated microbubbles at high frequencies. , 2011, , .		0
53	Acoustic angiography: a new high frequency contrast ultrasound technique for biomedical imaging. Proceedings of SPIE, 2016, , .	0.8	0
54	Notice of Removal: Hybrid dual frequency transducer / array probe for super-harmonic imaging. , 2017, , .		0

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55	Characterization of a prototype transmit 2 MHz receive 21 MHz array for superharmonic imaging. , 2017, , .		0
56	Notice of Removal: Dual frequency imaging of microbubbles using 1.7-MHz transmit stacks parallel to a 21-MHz receive array. , 2017, , .		0
57	Dual frequency contrast ultrasound angiography. Ultrasound in Medicine and Biology, 2019, 45, S19.	0.7	0
58	Super Harmonic Ultrasound Localization Microscopy. , 2019, , .		0
59	Intraoperative vascular detection and three-dimensional reconstruction using statistical variance and infrared optical tracking methods in high frequency ultrasound imaging. , 2019, , .		0