John R Eisenbrey

List of Publications by Year
in descending order

123	1,975	257450 24	330143 37
papers	citations	h-index	g-index

123	123	123	1773
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Doxorubicin and paclitaxel loaded microbubbles for ultrasound triggered drug delivery. International Journal of Pharmaceutics, 2011, 414, 161-170.	5.2	138
2	Chronic Liver Disease: Noninvasive Subharmonic Aided Pressure Estimation of Hepatic Venous Pressure Gradient. Radiology, 2013, 268, 581-588.	7.3	81
3	Sensitization of Hypoxic Tumors to Radiation Therapy Using Ultrasound-Sensitive Oxygen Microbubbles. International Journal of Radiation Oncology Biology Physics, 2018, 101, 88-96.	0.8	78
4	Subharmonic Contrast Microbubble Signals for Noninvasive Pressure Estimation under Static and Dynamic Flow Conditions. Ultrasonic Imaging, 2011, 33, 153-164.	2.6	68
5	Development of an ultrasound sensitive oxygen carrier for oxygen delivery to hypoxic tissue. International Journal of Pharmaceutics, 2015, 478, 361-367.	5.2	66
6	Noninvasive LV Pressure Estimation Using Subharmonic Emissions From Microbubbles. JACC: Cardiovascular Imaging, 2012, 5, 87-92.	5.3	62
7	Disposition of Ultrasound Sensitive Polymeric Drug Carrier in a Rat Hepatocellular Carcinoma Model. Academic Radiology, 2011, 18, 1341-1348.	2.5	57
8	Monitoring Neoadjuvant Chemotherapy for Breast Cancer by Using Three-dimensional Subharmonic Aided Pressure Estimation and Imaging with US Contrast Agents: Preliminary Experience. Radiology, 2017, 285, 53-62.	7.3	39
9	Three-Dimensional Subharmonic Ultrasound Imaging InÂVitro and InÂVivo. Academic Radiology, 2012, 19, 732-739.	2.5	38
10	Localized microbubble cavitation-based antivascular therapy for improving HCC treatment response to radiotherapy. Cancer Letters, 2017, 411, 100-105.	7.2	38
11	Diagnosing Portal Hypertension with Noninvasive Subharmonic Pressure Estimates from a US Contrast Agent. Radiology, 2021, 298, 104-111.	7.3	38
12	US-triggered Microbubble Destruction for Augmenting Hepatocellular Carcinoma Response to Transarterial Radioembolization: A Randomized Pilot Clinical Trial. Radiology, 2021, 298, 450-457.	7.3	38
13	Nanoparticle Loaded Polymeric Microbubbles as Contrast Agents for Multimodal Imaging. Langmuir, 2015, 31, 11858-11867.	3.5	37
14	Parametric Imaging Using Subharmonic Signals From Ultrasound Contrast Agents in Patients With Breast Lesions. Journal of Ultrasound in Medicine, 2011, 30, 85-92.	1.7	35
15	Investigating the Efficacy of Subharmonic Aided Pressure Estimation for Portal Vein Pressures and Portal Hypertension Monitoring. Ultrasound in Medicine and Biology, 2012, 38, 1784-1798.	1.5	34
16	Contrastâ€Enhanced Ultrasound Evaluation of Residual Blood Flow to Hepatocellular Carcinoma After Treatment With Transarterial Chemoembolization Using Drugâ€Eluting Beads. Journal of Ultrasound in Medicine, 2015, 34, 859-867.	1.7	33
17	Perfusion Estimation Using Contrast-Enhanced 3-dimensional Subharmonic Ultrasound Imaging. Investigative Radiology, 2013, 48, 654-660.	6.2	32
18	Tumor Vascular Networks Depicted in Contrast-Enhanced Ultrasound Images as a Predictor for Transarterial Chemoembolization Treatment Response. Ultrasound in Medicine and Biology, 2020, 46, 2276-2286.	1.5	31

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19	Making waves: how ultrasound-targeted drug delivery is changing pharmaceutical approaches. Materials Advances, 2022, 3, 3023-3040.	5.4	31
20	Recent technological advancements in cardiac ultrasound imaging. Ultrasonics, 2018, 84, 329-340.	3.9	30
21	Ultrasound-triggered antibiotic release from PEEK clips to prevent spinal fusion infection: Initial evaluations. Acta Biomaterialia, 2019, 93, 12-24.	8.3	30
22	Subharmonic microbubble emissions for noninvasively tracking right ventricular pressures. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 303, H126-H132.	3.2	29
23	Contrast-enhanced ultrasound (CEUS) in HCC diagnosis and assessment of tumor response to locoregional therapies. Abdominal Radiology, 2021, 46, 3579-3595.	2.1	28
24	Comparison of Photoacoustically Derived Hemoglobin and Oxygenation Measurements with Contrast-Enhanced Ultrasound Estimated Vascularity and Immunohistochemical Staining in a Breast Cancer Model. Ultrasonic Imaging, 2015, 37, 42-52.	2.6	27
25	Effects of Needle and Catheter Size on Commercially Available Ultrasound Contrast Agents. Journal of Ultrasound in Medicine, 2015, 34, 1961-1968.	1.7	27
26	Breast Cancer Brain Metastasis Response to Radiation After Microbubble Oxygen Delivery in a Murine Model. Journal of Ultrasound in Medicine, 2019, 38, 3221-3228.	1.7	26
27	Machine Learning by Ultrasonography for Genetic Risk Stratification of Thyroid Nodules. JAMA Otolaryngology - Head and Neck Surgery, 2020, 146, 36.	2.2	25
28	New Image Processing Technique for Evaluating Breast Microcalcifications. Journal of Ultrasound in Medicine, 2012, 31, 885-893.	1.7	24
29	Quantitative analysis of vascular heterogeneity in breast lesions using contrast-enhanced 3-D harmonic and subharmonic ultrasound imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 502-510.	3.0	24
30	Recent technological advancements in breast ultrasound. Ultrasonics, 2016, 70, 183-190.	3.9	24
31	Effect of Pulse Shaping on Subharmonic Aided Pressure Estimation In Vitro and In Vivo. Journal of Ultrasound in Medicine, 2017, 36, 3-11.	1.7	23
32	Subdermal Ultrasound Contrast Agent Injection for Sentinel Lymph Node Identification: An Analysis of Safety and Contrast Agent Dose in Healthy Volunteers. Journal of Ultrasound in Medicine, 2018, 37, 1611-1620.	1.7	21
33	Gemcitabine-loaded microbubble system for ultrasound imaging and therapy. Acta Biomaterialia, 2021, 130, 385-394.	8.3	21
34	Balancing stealth and echogenic properties in an ultrasound contrast agent with drug delivery potential. Biomaterials, 2016, 103, 197-206.	11.4	20
35	Contrast-enhanced ultrasonography in interventional oncology. Abdominal Radiology, 2018, 43, 3166-3175.	2.1	20
36	Photoacoustic Oxygenation Quantification in Patients with Raynaud's: First-in-Human Results. Ultrasound in Medicine and Biology, 2018, 44, 2081-2088.	1.5	19

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37	Quantitative Nonlinear Contrast-Enhanced Ultrasound of the Breast. American Journal of Roentgenology, 2016, 207, 274-281.	2.2	18
38	Evaluation of hepatocellular carcinoma transarterial chemoembolization using quantitative analysis of 2D and 3D real-time contrast enhanced ultrasound. Biomedical Physics and Engineering Express, 2018, 4, 035039.	1.2	18
39	Perfusion-guided sonopermeation of neuroblastoma: a novel strategy for monitoring and predicting liposomal doxorubicin uptake in vivo. Theranostics, 2020, 10, 8143-8161.	10.0	17
40	Emerging Applications of Ultrasound-Contrast Agents in Radiation Therapy. Ultrasound in Medicine and Biology, 2021, 47, 1465-1474.	1.5	17
41	Interpretable Machine Learning for Characterization of Focal Liver Lesions by Contrast-Enhanced Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1670-1681.	3.0	17
42	Assessing algorithms for defining vascular architecture in subharmonic images of breast lesions. Physics in Medicine and Biology, 2011, 56, 919-930.	3.0	16
43	Recent Experiences and Advances in Contrast-Enhanced Subharmonic Ultrasound. BioMed Research International, 2015, 2015, 1-6.	1.9	16
44	Sentinel Lymph Node Characterization with a Dual-Targeted Molecular Ultrasound Contrast Agent. Molecular Imaging and Biology, 2018, 20, 221-229.	2.6	16
45	Preserving the Integrity of Surfactant-Stabilized Microbubble Membranes for Localized Oxygen Delivery. Langmuir, 2019, 35, 10068-10078.	3.5	16
46	Processing of Subharmonic Signals from Ultrasound Contrast Agents to Determine Ambient Pressures. Ultrasonic Imaging, 2012, 34, 81-92.	2.6	15
47	Contrastâ€Enhanced Sonography for Detection of Secondary Lymph Nodes in a Melanoma Tumor Animal Model. Journal of Ultrasound in Medicine, 2014, 33, 939-947.	1.7	14
48	Microcalcifications Versus Artifacts: Initial Evaluation of a New Ultrasound Image Processing Technique to Identify Breast Microcalcifications in a Screening Population. Ultrasound in Medicine and Biology, 2014, 40, 2321-2324.	1.5	14
49	Subharmonic-Aided Pressure Estimation for Monitoring Interstitial Fluid Pressure in Tumors: Calibration and Treatment with Paclitaxel in Breast Cancer Xenografts. Ultrasound in Medicine and Biology, 2017, 43, 1401-1410.	1.5	14
50	On Factors Affecting Subharmonic-aided Pressure Estimation (SHAPE). Ultrasonic Imaging, 2019, 41, 35-48.	2.6	14
51	Plasma Sterilization of Poly Lactic Acid Ultrasound Contrast Agents: Surface Modification and Implications for Drug Delivery. Ultrasound in Medicine and Biology, 2009, 35, 1854-1862.	1.5	13
52	Cellular signal transduction can be induced by TRAIL conjugated to microcapsules. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2602-2611.	4.0	13
53	Correlation of ultrasound contrast agent derived blood flow parameters with immunohistochemical angiogenesis markers in murine xenograft tumor models. Ultrasonics, 2013, 53, 1384-1391.	3.9	13
54	Superb Microvascular Imaging Improves Detection of Vascularity in Indeterminate Renal Masses. Journal of Ultrasound in Medicine, 2020, 39, 1947-1955.	1.7	13

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55	Contrast-Enhanced Subharmonic and Harmonic Ultrasound of Renal Masses Undergoing Percutaneous Cryoablation. Academic Radiology, 2015, 22, 820-826.	2.5	12
56	Shell effects on acoustic performance of a drugâ€delivery system activated by ultrasound. Journal of Biomedical Materials Research - Part A, 2017, 105, 3189-3196.	4.0	12
57	Influence of contrast-enhanced ultrasound administration setups on microbubble enhancement: a focus on pediatric applications. Pediatric Radiology, 2018, 48, 101-108.	2.0	12
58	Ultrasound Detection of Microcalcifications in Surgical Breast Specimens. Ultrasound in Medicine and Biology, 2018, 44, 1286-1290.	1.5	12
59	Incorporation of a Machine Learning Algorithm With Object Detection Within the Thyroid Imaging Reporting and Data System Improves the Diagnosis of Genetic Risk. Frontiers in Oncology, 2020, 10, 591846.	2.8	12
60	Selecting the optimal parameters for sonoporation of pancreatic cancer in a pre-clinical model. Cancer Biology and Therapy, 2021, 22, 204-215.	3.4	12
61	Long Term Surveillance of Renal Cell Carcinoma Recurrence Following Ablation using 2D and 3D Contrast-Enhanced Ultrasound. Urology, 2018, 121, 189-196.	1.0	11
62	Characterization of Breast Microcalcifications Using a New Ultrasound Imageâ€Processing Technique. Journal of Ultrasound in Medicine, 2019, 38, 1733-1738.	1.7	11
63	Ultrasound contrast agents: microbubbles made simple for the pediatric radiologist. Pediatric Radiology, 2021, 51, 2117-2127.	2.0	11
64	Network Meta-Analysis: Noninvasive Imaging Modalities for Identifying Clinically Significant Portal Hypertension. Digestive Diseases and Sciences, 2022, 67, 3313-3326.	2.3	11
65	Assessment of Axillary Lymph Nodes for Metastasis on Ultrasound Using Artificial Intelligence. Ultrasonic Imaging, 2021, 43, 329-336.	2.6	11
66	Targeted binding of PEGâ€lipid modified polymer ultrasound contrast agents with tiered surface architecture. Biotechnology and Bioengineering, 2010, 106, 501-506.	3.3	10
67	Delineation of Atherosclerotic Plaque Using Subharmonic Imaging Filtering Techniques and a Commercial Intravascular Ultrasound System. Ultrasonic Imaging, 2013, 35, 30-44.	2.6	10
68	Characterizing Breast Lesions Using Quantitative Parametric 3D Subharmonic Imaging: A Multicenter Study. Academic Radiology, 2020, 27, 1065-1074.	2.5	10
69	A Narrative Review on Contrast-Enhanced Ultrasound in Aortic Endograft Endoleak Surveillance. Ultrasound Quarterly, 2018, 34, 170-175.	0.8	9
70	Hepatic Vein Contrast-Enhanced Ultrasound Subharmonic Imaging Signal as a Screening Test for Portal Hypertension. Digestive Diseases and Sciences, 2021, 66, 4354-4360.	2.3	9
71	Meta-analysis and systematic review of contrast-enhanced ultrasound in evaluating the treatment response after locoregional therapy of hepatocellular carcinoma. Abdominal Radiology, 2021, 46, 5162-5179.	2.1	9
72	Subharmonic and Endoscopic Contrast Imaging of Pancreatic Masses: A Pilot Study. Journal of Ultrasound in Medicine, 2018, 37, 123-129.	1.7	8

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73	Contrast-enhanced Ultrasound Identifies Patent Feeding Vessels in Transarterial Chemoembolization Patients With Residual Tumor Vascularity. Ultrasound Quarterly, 2020, 36, 218-223.	0.8	8
74	Parametric Subharmonic Imaging Using a Commercial Intravascular Ultrasound Scanner. Journal of Ultrasound in Medicine, 2012, 31, 361-371.	1.7	7
75	The Diagnostic Value of Contrast-Enhanced Ultrasound for Monitoring Complications After Kidney Transplantationâ€"A Systematic Review and Meta-Analysis. Academic Radiology, 2021, 28, 1086-1093.	2.5	6
76	Contrast-Enhanced Ultrasound and Shear Wave Elastography: Novel Methods for the Evaluation of Urethral Stricture Disease. Journal of Urology, 2022, 207, 152-160.	0.4	6
77	Contrast-Enhanced Subharmonic Aided Pressure Estimation (SHAPE) using Ultrasound Imaging with a Focus on Identifying Portal Hypertension. Journal of Visualized Experiments, 2020, , .	0.3	6
78	High and low frequency subharmonic imaging of angiogenesis in a murine breast cancer model. Ultrasonics, 2015, 62, 50-55.	3.9	5
79	Multiscale quantification of tumor microarchitecture for predicting therapy response using dynamic contrast-enhanced ultrasound imaging. , 2019, , .		5
80	Diagnostic Value of TI-RADS Classification System and Next Generation Genetic Sequencing in Indeterminate Thyroid Nodules. Academic Radiology, 2021, 28, 1685-1691.	2.5	5
81	Shaping the synthesis of surfactant-stabilized oxygen microbubbles to accommodate encapsulated drug. Colloids and Surfaces B: Biointerfaces, 2021, 208, 112049.	5.0	5
82	<scp>3D</scp> Harmonic and Subharmonic Imaging for Characterizing Breast Lesions. Journal of Ultrasound in Medicine, 2022, 41, 1667-1675.	1.7	5
83	Comparing Quantitative Immunohistochemical Markers of Angiogenesis to Contrastâ€Enhanced Subharmonic Imaging. Journal of Ultrasound in Medicine, 2016, 35, 1839-1847.	1.7	4
84	Threeâ€Dimensional Subharmonic Aided Pressure Estimation for Assessing Arterial Plaques in a Rabbit Model. Journal of Ultrasound in Medicine, 2019, 38, 1865-1873.	1.7	4
85	Predicting Long-Term Hepatocellular Carcinoma Response to Transarterial Radioembolization Using Contrast-Enhanced Ultrasound: Initial Experiences. Ultrasound in Medicine and Biology, 2021, 47, 2523-2531.	1.5	4
86	Monitoring Progression of Ductal Carcinoma In Situ Using Photoacoustics and Contrast-Enhanced Ultrasound. Translational Oncology, 2019, 12, 973-980.	3.7	3
87	Performance of Molecular Lymphosonography for Detection and Quantification of Metastatic Involvement in Sentinel Lymph Nodes. Journal of Ultrasound in Medicine, 2019, 38, 2103-2110.	1.7	3
88	A Noninvasive Ultrasound Based Technique to Identify Treatment Responders in Patients with Portal Hypertension. Academic Radiology, 2021, 28, S128-S137.	2.5	3
89	Effects of Contrastâ€Enhanced Ultrasound of Indeterminate Renal Masses on Patient Clinical Management. Journal of Ultrasound in Medicine, 2021, 40, 131-139.	1.7	3
90	Effect of a poloxamer 407-based thermosensitive gel on minimization of thermal injury to diaphragm during microwave ablation of the liver. World Journal of Gastroenterology, 2017, 23, 2141.	3.3	3

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91	Acute portal hypertension models in dogs: low- and high-flow approaches. Comparative Medicine, 2012, 62, 419-26.	1.0	3
92	Ultrasound Pressure Estimation for Diagnosing Portal Hypertension in Patients Undergoing Dialysis for Chronic Kidney Disease. Journal of Ultrasound in Medicine, 2022, 41, 2181-2189.	1.7	3
93	Development of a Dual Drug-Loaded, Surfactant-Stabilized Contrast Agent Containing Oxygen. Polymers, 2022, 14, 1568.	4.5	3
94	Contrast-enhanced ultrasound-guided Sentinel lymph node biopsy of the ocular conjunctiva. Laryngoscope, 2014, 124, 2531-2536.	2.0	2
95	Preservation of imaging capability in sensitive ultrasound contrast agents after indirect plasma sterilization. International Journal of Pharmaceutics, 2015, 494, 146-151.	5.2	2
96	Contrast-enhanced ultrasound identifies early extrahepatic collateral contributing to residual hepatocellular tumor viability after transarterial chemoembolization. Radiology Case Reports, 2018, 13, 713-718.	0.6	2
97	Contrastâ€Enhanced Ultrasound in Small Intestinal Ischemia. Journal of Ultrasound in Medicine, 2021, , .	1.7	2
98	Oncologic Applications of Magnetic Resonance Guided Focused Ultrasound. Cancer Treatment and Research, 2017, , 69-108.	0.5	2
99	Characterization of indeterminate breast lesions on B-mode ultrasound using automated machine learning models. Journal of Medical Imaging, 2020, 7, .	1.5	2
100	Improved Sensitivity of <scp>Ultrasoundâ€Based</scp> Subharmonic Aided Pressure Estimation Using Monodisperse Microbubbles. Journal of Ultrasound in Medicine, 2022, 41, 1781-1789.	1.7	2
101	Faster motion correction of clinical contrast-enhanced ultrasound imaging using deep learning. , 2020, , .		2
102	Contrastâ€Enhanced Sonography and Fusion Technology for Assessment of an Embolized Renal Angiomyolipoma. Journal of Ultrasound in Medicine, 2016, 35, 2292-2295.	1.7	1
103	Contrast-enhanced nonlinear 3D ultrasound imaging of breast lesions in a clinical population. , 2016, , .		1
104	Ultrasound microbubble targeted gemcitabine delivery for pancreatic cancer treatment. , 2017, , .		1
105	Predicting Long Term HCC Response to Radioembolization Using Contrast-Enhanced Ultrasound 1-2 Weeks Post Treatment. , 2019, , .		1
106	Imaging appearance of residual HCC following incomplete trans-arterial chemoembolization on contrast-enhanced imaging. Abdominal Radiology, 2021, , 1.	2.1	1
107	Evaluation of suspected small bowel ischemia using contrast-enhanced ultrasound with computed tomography fusion. Journal of Emergencies, Trauma and Shock, 2022, 15, 60.	0.7	1
108	Activation of Phase Change Contrast Agents Using Ionizing Radiation. Journal of Ultrasound in Medicine, 2021, , .	1.7	1

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109	Breast lesion characterization by parametric imaging of subharmonic signals from ultrasound contrast agents. , 2010, , .		0
110	Multimodal imaging: Nanocrystal loaded PLA-shelled contrast agents. , 2015, , .		0
111	2088359 Photoacoustic Imaging Of Vascular Oxygenation Following Dielectric Barrier Discharge Plasma Wound Treatment. Ultrasound in Medicine and Biology, 2015, 41, S13-S14.	1.5	0
112	2091785 Development Of A Small Animal Model Of Onchocerciasis: Verification With High-Frequency Ultrasound Imaging. Ultrasound in Medicine and Biology, 2015, 41, S12-S13.	1.5	0
113	2089031 Parametric Volumes For Visualizing Breast Lesion Vascularity Using 3D Subharmonic Imaging. Ultrasound in Medicine and Biology, 2015, 41, S76-S77.	1.5	0
114	2090059 Subharmonic and Endoscopic Contrast Imaging of Pancreatic Masses. Ultrasound in Medicine and Biology, 2015, 41, S99-S100.	1.5	0
115	On factors impacting subharmonic aided pressure estimation (SHAPE). , 2017, , .		0
116	Quantitative 3D subharmonic imaging for characterizing breast lesions. , 2017, , .		0
117	AUTHOR REPLY. Urology, 2018, 121, 196.	1.0	0
118	Characterization of Ultrasound-Triggered Bulk Antibiotic Release from Novel Spinal Hardware. , 2019, , .		0
119	Influence of Data Parsing on Contrast Enhanced Ultrasound Exams. Academic Radiology, 2019, 26, 1030-1039.	2.5	0
120	Incubation Method for Loading Lonidamine in Oxygen Microbubbles for Targeted Drug Delivery. , 2020, , .		0
121	Ultrasound Triggered Microbubble Destruction for Disrupting Biofilms in Synovial Fluid. , 2020, , .		0
122	State of the Art: Contrast Enhanced 4D Ultrasound to Monitor or Assess Locoregional Therapies. Digestive Disease Interventions, 2022, 06, 003-012.	0.2	0
123	Contrast-Enhanced Ultrasound and Shear Wave Elastography: Novel Methods for the Evaluation of Urethral Stricture Disease.Reply.. Journal of Urology, 0, , .	0.4	0