

Oliver D Kripfgans

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109
papers

2,816
citations

25
h-index

51
g-index

136
ext. papers

3,396
ext. citations

4.3
avg, IF

4.96
L-index

#	Paper	IF	Citations
109	Acoustic droplet vaporization for therapeutic and diagnostic applications. <i>Ultrasound in Medicine and Biology</i> , 2000 , 26, 1177-89	3.5	405
108	Gravity-driven microfluidic particle sorting device with hydrodynamic separation amplification. <i>Analytical Chemistry</i> , 2007 , 79, 1369-76	7.8	228
107	On the acoustic vaporization of micrometer-sized droplets. <i>Journal of the Acoustical Society of America</i> , 2004 , 116, 272-81	2.2	171
106	The role of inertial cavitation in acoustic droplet vaporization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 1006-17	3.2	162
105	Interlaboratory comparison of ultrasonic backscatter, attenuation, and speed measurements. <i>Journal of Ultrasound in Medicine</i> , 1999 , 18, 615-31	2.9	141
104	Delivery of chlorambucil using an acoustically-triggered perfluoropentane emulsion. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 1364-75	3.5	114
103	Delivery of water-soluble drugs using acoustically triggered perfluorocarbon double emulsions. <i>Pharmaceutical Research</i> , 2010 , 27, 2753-65	4.5	105
102	Acoustic droplet vaporization threshold: effects of pulse duration and contrast agent. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 933-46	3.2	99
101	In vivo droplet vaporization for occlusion therapy and phase aberration correction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 726-38	3.2	99
100	Initial investigation of acoustic droplet vaporization for occlusion in canine kidney. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 1691-703	3.5	95
99	Acoustic droplet vaporization for enhancement of thermal ablation by high intensity focused ultrasound. <i>Academic Radiology</i> , 2011 , 18, 1123-32	4.3	82
98	Acoustic droplet vaporization for temporal and spatial control of tissue occlusion: a kidney study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 1101-10	3.2	81
97	Bubble evolution in acoustic droplet vaporization at physiological temperature via ultra-high speed imaging. <i>Soft Matter</i> , 2011 , 7, 4009	3.6	71
96	Towards aberration correction of transcranial ultrasound using acoustic droplet vaporization. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 435-45	3.5	66
95	Controlled release of basic fibroblast growth factor for angiogenesis using acoustically-responsive scaffolds. <i>Biomaterials</i> , 2017 , 140, 26-36	15.6	50
94	Initial nucleation site formation due to acoustic droplet vaporization. <i>Applied Physics Letters</i> , 2014 , 104, 063703	3.4	43
93	Cavitation nucleation agents for nonthermal ultrasound therapy. <i>Journal of the Acoustical Society of America</i> , 2000 , 107, 3480-6	2.2	38

92	Spatial control of gas bubbles and their effects on acoustic fields. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 95-106	3.5	36
91	Non-ionizing real-time ultrasonography in implant and oral surgery: A feasibility study. <i>Clinical Oral Implants Research</i> , 2017 , 28, 341-347	4.8	33
90	In vitro and in vivo assessment of controlled release and degradation of acoustically responsive scaffolds. <i>Acta Biomaterialia</i> , 2016 , 46, 221-233	10.8	30
89	Vector Doppler imaging of a spinning disc ultrasound Doppler phantom. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1037-46	3.5	29
88	Design and Characterization of Fibrin-Based Acoustically Responsive Scaffolds for Tissue Engineering Applications. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 257-71	3.5	28
87	Non-invasive evaluation of facial crestal bone with ultrasonography. <i>PLoS ONE</i> , 2017 , 12, e0171237	3.7	27
86	Nucleation pressure threshold in acoustic droplet vaporization. <i>Journal of Applied Physics</i> , 2016 , 120, 034903	2.5	26
85	Acceleration of ultrasound thermal therapy by patterned acoustic droplet vaporization. <i>Journal of the Acoustical Society of America</i> , 2014 , 135, 537-44	2.2	25
84	Measurement of volumetric flow. <i>Journal of Ultrasound in Medicine</i> , 2006 , 25, 1305-11	2.9	24
83	Ultrasonography for chairside evaluation of periodontal structures: A pilot study. <i>Journal of Periodontology</i> , 2020 , 91, 890-899	4.6	21
82	Updates on ultrasound research in implant dentistry: a systematic review of potential clinical indications. <i>Dentomaxillofacial Radiology</i> , 2018 , 47, 20180076	3.9	20
81	Ultrasonography for noninvasive and real-time evaluation of peri-implant tissue dimensions. <i>Journal of Clinical Periodontology</i> , 2018 , 45, 986-995	7.7	20
80	Sequential Payload Release from Acoustically-Responsive Scaffolds Using Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 2323-2335	3.5	18
79	A 32 x 32 capacitive micromachined ultrasonic transducer array manufactured in standard CMOS. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 1521-36	3.2	18
78	Controlled delivery of basic fibroblast growth factor (bFGF) using acoustic droplet vaporization stimulates endothelial network formation. <i>Acta Biomaterialia</i> , 2019 , 97, 409-419	10.8	17
77	Optimization of ultrasound parameters of myocardial cavitation microlesions for therapeutic application. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 1228-36	3.5	17
76	Ultrasonographic characterization of lingual structures pertinent to oral, periodontal, and implant surgery. <i>Clinical Oral Implants Research</i> , 2020 , 31, 352-359	4.8	16
75	Patterning expression of regenerative growth factors using high intensity focused ultrasound. <i>Tissue Engineering - Part C: Methods</i> , 2014 , 20, 769-79	2.9	16

74	Parametric Study of Acoustic Droplet Vaporization Thresholds and Payload Release From Acoustically-Responsive Scaffolds. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 2471-2484	3.5	15
73	Ultrasonography for diagnosis of peri-implant diseases and conditions: a detailed scanning protocol and case demonstration. <i>Dentomaxillofacial Radiology</i> , 2020 , 49, 20190445	3.9	15
72	Mean volume flow estimation in pulsatile flow conditions. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 1880-91	3.5	15
71	A tissue-mimicking ultrasound test object using droplet vaporization to create point targets. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 2013-25	3.2	14
70	CMUT-in-CMOS ultrasonic transducer arrays with on-chip electronics 2009 ,		13
69	Use of Theranostic Strategies in Myocardial Cavitation-Enabled Therapy. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1865-75	3.5	12
68	Assessment of the biodistribution of an [(18) F]FDG-loaded perfluorocarbon double emulsion using dynamic micro-PET in rats. <i>Contrast Media and Molecular Imaging</i> , 2013 , 8, 366-74	3.2	12
67	Volumetric blood flow in transjugular intrahepatic portosystemic shunt revision using 3-dimensional Doppler sonography. <i>Journal of Ultrasound in Medicine</i> , 2015 , 34, 257-66	2.9	11
66	Three-dimensional sonographic measurement of blood volume flow in the umbilical cord. <i>Journal of Ultrasound in Medicine</i> , 2012 , 31, 1927-34	2.9	11
65	Automated Breast Ultrasound: Dual-Sided Compared with Single-Sided Imaging. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 2072-82	3.5	11
64	Three-dimensional US Fractional Moving Blood Volume: Validation of Renal Perfusion Quantification. <i>Radiology</i> , 2019 , 293, 460-468	20.5	10
63	Standing wave-assisted acoustic droplet vaporization for single and dual payload release in acoustically-responsive scaffolds. <i>Ultrasonics Sonochemistry</i> , 2020 , 66, 105109	8.9	10
62	Spatiotemporally-controlled transgene expression in hydroxyapatite-fibrin composite scaffolds using high intensity focused ultrasound. <i>Biomaterials</i> , 2019 , 194, 14-24	15.6	10
61	Spatially-directed cell migration in acoustically-responsive scaffolds through the controlled delivery of basic fibroblast growth factor. <i>Acta Biomaterialia</i> , 2020 , 113, 217-227	10.8	9
60	Formation of toroidal bubbles from acoustic droplet vaporization. <i>Applied Physics Letters</i> , 2014 , 104, 063706	3.4	9
59	Preliminary Clinical Experience with a Combined Automated Breast Ultrasound and Digital Breast Tomosynthesis System. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 734-742	3.5	8
58	Acoustic Droplet Vaporization in Acoustically Responsive Scaffolds: Effects of Frequency of Excitation, Volume Fraction and Threshold Determination Method. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 3246-3260	3.5	8
57	Characterization of macrolesions induced by myocardial cavitation-enabled therapy. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 717-27	5	8

56	Ultrasound of the fingers for human identification using biometrics. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 392-9	3.5	8
55	Stable and transient bubble formation in acoustically-responsive scaffolds by acoustic droplet vaporization: theory and application in sequential release. <i>Ultrasonics Sonochemistry</i> , 2021 , 72, 105430	8.9	8
54	Spatiotemporal control of micromechanics and microstructure in acoustically-responsive scaffolds using acoustic droplet vaporization. <i>Soft Matter</i> , 2020 , 16, 6501-6513	3.6	7
53	Ultrasonic Cavitation-Enabled Treatment for Therapy of Hypertrophic Cardiomyopathy: Proof of Principle. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 1439-1450	3.5	7
52	2015 ,		7
51	Quantitative assessment of damage during MCET: a parametric study in a rodent model. <i>Journal of Therapeutic Ultrasound</i> , 2015 , 3, 18		6
50	CMUT-in-CMOS 2D arrays with advanced multiplexing and time-gain control 2014 ,		6
49	Acoustic attenuation imaging of tissue bulk properties with a priori information. <i>Journal of the Acoustical Society of America</i> , 2016 , 140, 2113	2.2	6
48	Ultrasonographic tissue perfusion analysis at implant and palatal donor sites following soft tissue augmentation: A clinical pilot study. <i>Journal of Clinical Periodontology</i> , 2021 , 48, 602-614	7.7	6
47	Timing of high-intensity pulses for myocardial cavitation-enabled therapy. <i>Journal of Therapeutic Ultrasound</i> , 2014 , 2, 20		5
46	High volume rate, high resolution 3D plane wave imaging 2014 ,		5
45	Generalized shot noise model for time-reversal in multiple-scattering media allowing for arbitrary inputs and windowing. <i>Journal of the Acoustical Society of America</i> , 2009 , 125, 3129-40	2.2	5
44	Evaluation of Umbilical Vein Blood Volume Flow in Preeclampsia by Angle-Independent 3D Sonography. <i>Journal of Ultrasound in Medicine</i> , 2018 , 37, 1633-1640	2.9	5
43	Low-Cost 3-D Flow Estimation of Blood With Clutter. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 772-784	3.2	3
42	Multiple ultrasound cavitation-enabled treatments for myocardial reduction. <i>Journal of Therapeutic Ultrasound</i> , 2017 , 5, 29		3
41	Adaptive optimization on ultrasonic transmission tomography-based temperature image for biomedical treatment. <i>Chinese Physics B</i> , 2017 , 26, 064301	1.2	3
40	Initial growth and coalescence of acoustically vaporized perfluorocarbon microdroplets 2008 ,		3
39	Acoustic Droplet Vaporization for the Enhancement of Ultrasound Thermal Therapy. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2010 , 2010, 221-224		3

38	High-Volume-Rate 3-D Ultrasound Imaging Based on Synthetic Aperture Sequential Beamforming With Chirp-Coded Excitation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 1346-1358	3.2	3
37	Tetris 2019 ,		2
36	Three-dimensional US for Quantification of Volumetric Blood Flow: Multisite Multisystem Results from within the Quantitative Imaging Biomarkers Alliance. <i>Radiology</i> , 2020 , 296, 662-670	20.5	2
35	Maturation of Lesions Induced by Myocardial Cavitation-Enabled Therapy. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 1541-50	3.5	2
34	Improved digital breast tomosynthesis images using automated ultrasound. <i>Medical Physics</i> , 2014 , 41, 061911	4.4	2
33	High throughput production of uniformly-sized fluorocarbon emulsions for ultrasonic therapy using a silicon-based microfluidic system 2014 ,		2
32	Functional imaging with intraoperative ultrasound: detection of somatosensory cortex in dogs with color-duplex sonography. <i>Neurosurgery</i> , 2005 , 56, 355-63; discussion 355-63	3.2	2
31	Prevalence and risk indicators of midfacial peri-implant soft tissue dehiscence at single site in the esthetic zone: A cross-sectional clinical and ultrasonographic study. <i>Journal of Periodontology</i> , 2021 ,	4.6	2
30	Comprehensive peri-implant tissue evaluation with ultrasonography and cone-beam computed tomography: A pilot study. <i>Clinical Oral Implants Research</i> , 2021 , 32, 777-785	4.8	2
29	Low Complexity 3D Ultrasound Imaging Using Synthetic Aperture Sequential Beamforming 2016 ,		2
28	Release of basic fibroblast growth factor from acoustically-responsive scaffolds promotes therapeutic angiogenesis in the hind limb ischemia model. <i>Journal of Controlled Release</i> , 2021 , 338, 773-783	11.7	2
27	Temperature imaging with ultrasonic transmission tomography for treatment control 2017 ,		1
26	Limited angle breast ultrasound tomography with a priori information and artifact removal 2017 ,		1
25	Partial Volume Effect and Correction for 3-D Color Flow Acquisition of Volumetric Blood Flow. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019 , 66, 1749-1759	3.2	1
24	Passive Microlesion Detection and Mapping for Treatment of Hypertrophic Cardiomyopathy. <i>AIP Conference Proceedings</i> , 2017 , 1816,	0	1
23	Characterization of acoustic droplet vaporization and inertial cavitation thresholds in acoustically-responsive tissue scaffolds 2014 ,		1
22	2010 ,		1
21	2010 ,		1

20	Ultrasound-induced hyperthermia for the spatio-temporal control of gene expression in bone repair 2012 ,		1
19	The role of inertial cavitation in acoustic droplet vaporization 2008 ,		1
18	Ultrasonic Imaging: Physics and Mechanism 2021 , 1-38		1
17	Multi-class deep learning segmentation and automated measurements in periodontal sonograms of a porcine model. <i>Dentomaxillofacial Radiology</i> , 2021 , 20210363	3.9	1
16	Image Processing and Registration of Opposed View 3D Breast Ultrasound. <i>Lecture Notes in Computer Science</i> , 2012 , 666-672	0.9	1
15	Acoustic beam anomalies in automated breast imaging. <i>Journal of Medical Imaging</i> , 2017 , 4, 045001	2.6	1
14	Comparison of Variations Between Spectral Doppler and Gaussian Surface Integration Methods for Umbilical Vein Blood Volume Flow. <i>Journal of Ultrasound in Medicine</i> , 2021 , 40, 369-376	2.9	1
13	Ultrasonographic evaluation of edentulous crestal bone topography: A proof-of-principle retrospective study. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2021 ,	2	1
12	Facial mucosal level of single immediately placed implants with either immediate provisionalization or delayed restoration: An intermediate-term study. <i>Journal of Periodontology</i> , 2021 , 92, 1213-1221	4.6	1
11	Error analysis of speed of sound reconstruction in ultrasound limited angle transmission tomography. <i>Ultrasonics</i> , 2018 , 88, 174-184	3.5	0
10	Ultrasonic Imaging for Evaluating Peri-Implant Diseases 2021 , 161-175		0
9	Tetris: Using Software/Hardware Co-Design to Enable Handheld, Physics-Limited 3D Plane-Wave Ultrasound Imaging. <i>IEEE Transactions on Computers</i> , 2020 , 69, 1209-1220	2.5	0
8	Ultrasonography for noninvasive and real-time evaluation of peri-implant soft and hard tissue: a case series. <i>International Journal of Implant Dentistry</i> , 2021 , 7, 95	2.8	0
7	Temperature imaging with speed of ultrasonic transmission tomography for medical treatment control: A physical model-based method. <i>Chinese Physics B</i> , 2015 , 24, 104303	1.2	
6	Ultrasound Indications in Implant Related and Other Oral Surgery 2021 , 143-160		
5	Ultrasonography for Wound Healing Evaluation of Implant-Related Surgeries 2021 , 177-196		
4	SU-GG-J-196: Vascular Occlusion by Acoustically Vaporized Droplets for Potential Targeted Enhancement of Thermal Therapies. <i>Medical Physics</i> , 2008 , 35, 2724-2725	4.4	
3	WE-E-220-08: Image Based Microwave Focusing for Transcutaneous Therapy in Combination with Focused Ultrasound Heating. <i>Medical Physics</i> , 2011 , 38, 3825-3825	4.4	

- 2 Front-End Architecture Design for Low-Complexity 3-D Ultrasound Imaging Based on Synthetic Aperture Sequential Beamforming. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2021**, 29, 333-346 2.6
- 1 Three-Dimensional Ultrasound Imaging of the Jawbone for Ridge Width Determination: A Pre-clinical Ex-Vivo Porcine Study. *Journal of Dentistry*, **2022**, 104167 4.8