Michel Versluis

List of Publications by Year
in descending order

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259	12,913	19657 61	29157 104
papers	citations	h-index	g-index

290	290	290	7880
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A model for large amplitude oscillations of coated bubbles accounting for buckling and rupture. Journal of the Acoustical Society of America, 2005, 118, 3499-3505.	1.1	587
2	Passive ultrasonic irrigation of the root canal: a review of the literature. International Endodontic Journal, 2007, 40, 415-426.	5.0	569
3	Vibrating microbubbles poking individual cells: Drug transfer into cells via sonoporation. Journal of Controlled Release, 2006, 112, 149-155.	9.9	529
4	Sonoporation from Jetting Cavitation Bubbles. Biophysical Journal, 2006, 91, 4285-4295.	0.5	420
5	How Snapping Shrimp Snap: Through Cavitating Bubbles. Science, 2000, 289, 2114-2117.	12.6	378
6	Microbubble spectroscopy of ultrasound contrast agents. Journal of the Acoustical Society of America, 2007, 121, 648-656.	1.1	312
7	Acoustic behavior of microbubbles and implications for drug delivery. Advanced Drug Delivery Reviews, 2014, 72, 28-48.	13.7	295
8	Laserâ€activated irrigation within root canals: cleaning efficacy and flow visualization. International Endodontic Journal, 2009, 42, 1077-1083.	5.0	222
9	Brandaris 128: A digital 25 million frames per second camera with 128 highly sensitive frames. Review of Scientific Instruments, 2003, 74, 5026-5034.	1.3	204
10	Role of the Channel Geometry on the Bubble Pinch-Off in Flow-Focusing Devices. Physical Review Letters, 2008, 100, 034504.	7.8	196
11	Impact on Soft Sand: Void Collapse and Jet Formation. Physical Review Letters, 2004, 93, 198003.	7.8	191
12	High-speed optical observations of contrast agent destruction. Ultrasound in Medicine and Biology, 2005, 31, 391-399.	1.5	184
13	â€œCompression-Onlyâ€•Behavior of Phospholipid-Coated Contrast Bubbles. Ultrasound in Medicine and Biology, 2007, 33, 653-656.	1.5	168
14	Evaluation of Irrigant Flow in the Root Canal Using Different Needle Types by an Unsteady Computational Fluid Dynamics Model. Journal of Endodontics, 2010, 36, 875-879.	3.1	167
15	Changes in microbubble dynamics near a boundary revealed by combined optical micromanipulation and high-speed imaging. Applied Physics Letters, 2007, 90, .	3.3	166
16	Acoustic droplet vaporization is initiated by superharmonic focusing. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1697-1702.	7.1	159
17	Ultrasonic characterization of ultrasound contrast agents. Medical and Biological Engineering and Computing, 2009, 47, 861-873.	2.8	155
18	Breakup of diminutive Rayleigh jets. Physics of Fluids, 2010, 22, .	4.0	147

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19	Nonlinear Shell Behavior of Phospholipid-Coated Microbubbles. Ultrasound in Medicine and Biology, 2010, 36, 2080-2092.	1.5	145
20	The Effect of Needle-insertion Depth on the Irrigant Flow in the Root Canal: Evaluation Using an Unsteady Computational Fluid Dynamics Model. Journal of Endodontics, 2010, 36, 1664-1668.	3.1	141
21	The Role of Ultrasound-Driven Microbubble Dynamics in Drug Delivery: From Microbubble Fundamentals to Clinical Translation. Langmuir, 2019, 35, 10173-10191.	3.5	140
22	Micromanipulation of endothelial cells: Ultrasound-microbubble-cell interaction. Ultrasound in Medicine and Biology, 2004, 30, 1255-1258.	1.5	135
23	Evaluation of a Sonic Device Designed to Activate Irrigant in the Root Canal. Journal of Endodontics, 2010, 36, 143-146.	3.1	135
24	Nonspherical Oscillations of Ultrasound Contrast Agent Microbubbles. Ultrasound in Medicine and Biology, 2008, 34, 1465-1473.	1.5	129
25	Microbubble shape oscillations excited through ultrasonic parametric driving. Physical Review E, 2010, 82, 026321.	2.1	127
26	High-speed imaging in fluids. Experiments in Fluids, 2013, 54, 1.	2.4	127
27	Evaporating pure, binary and ternary droplets: thermal effects and axial symmetry breaking. Journal of Fluid Mechanics, 2017, 823, 470-497.	3.4	126
28	The effect of apical preparation size on irrigant flow in root canals evaluated using an unsteady Computational Fluid Dynamics model. International Endodontic Journal, 2010, 43, 874-881.	5.0	124
29	20 years of ultrasound contrast agent modeling. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 7-20.	3.0	122
30	Microbubble Agents: New Directions. Ultrasound in Medicine and Biology, 2020, 46, 1326-1343.	1.5	118
31	Ultrasound Contrast Agent Modeling: A Review. Ultrasound in Medicine and Biology, 2020, 46, 2117-2144.	1.5	110
32	Oil-filled polymer microcapsules for ultrasound-mediated delivery of lipophilic drugs. Journal of Controlled Release, 2009, 133, 109-118.	9.9	109
33	Subharmonic behavior of phospholipid-coated ultrasound contrast agent microbubbles. Journal of the Acoustical Society of America, 2010, 128, 3239-3252.	1.1	107
34	The effect of root canal taper on the irrigant flow: evaluation using an unsteady Computational Fluid Dynamics model. International Endodontic Journal, 2010, 43, 909-916.	5.0	104
35	The Influence of the Ultrasonic Intensity on the Cleaning Efficacy of Passive Ultrasonic Irrigation. Journal of Endodontics, 2011, 37, 688-692.	3.1	99
36	Hysteretic clustering in granular gas. Europhysics Letters, 2001, 53, 328-334.	2.0	96

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37	Air entrapment in piezo-driven inkjet printheads. Journal of the Acoustical Society of America, 2006, 120, 1257-1265.	1.1	95
38	Harmonic chirp imaging method for ultrasound contrast agent. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 241-249.	3.0	93
39	Snapping shrimp make flashing bubbles. Nature, 2001, 413, 477-478.	27.8	92
40	Sonoprinting and the importance of microbubble loading for the ultrasound mediated cellular delivery of nanoparticles. Biomaterials, 2016, 83, 294-307.	11.4	89
41	The acceleration of solid particles subjected to cavitation nucleation. Journal of Fluid Mechanics, 2008, 610, 157-182.	3.4	88
42	Velocity Profile inside Piezoacoustic Inkjet Droplets in Flight: Comparison between Experiment and Numerical Simulation. Physical Review Applied, 2014, 1, .	3.8	85
43	Radiographic Healing after a Root Canal Treatment Performed in Single-rooted Teeth with and without Ultrasonic Activation of the Irrigant: A Randomized Controlled Trial. Journal of Endodontics, 2013, 39, 1218-1225.	3.1	84
44	The efficiency and stability of bubble formation by acoustic vaporization of submicron perfluorocarbon droplets. Ultrasonics, 2013, 53, 1368-1376.	3.9	83
45	High-speed imaging of an ultrasound-driven bubble in contact with a wall: â€œNarcissusâ€•effect and resolved acoustic streaming. Experiments in Fluids, 2006, 41, 147-153.	2.4	81
46	Influence of the Oscillation Direction of an Ultrasonic File on the Cleaning Efficacy of Passive Ultrasonic Irrigation. Journal of Endodontics, 2010, 36, 1372-1376.	3.1	79
47	Giant and explosive plasmonic bubbles by delayed nucleation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7676-7681.	7.1	76
48	Raman-Rayleigh-LIF measurements of temperature and species concentrations in the Delft piloted turbulent jet diffusion flame. Applied Physics B: Lasers and Optics, 2000, 71, 95-111.	2.2	75
49	Stability of Monodisperse Phospholipid-Coated Microbubbles Formed by Flow-Focusing at High Production Rates. Langmuir, 2016, 32, 3937-3944.	3.5	74
50	Uniform scattering and attenuation of acoustically sorted ultrasound contrast agents: Modeling and experiments. Journal of the Acoustical Society of America, 2016, 140, 2506-2517.	1.1	72
51	Lipid Shedding from Single Oscillating Microbubbles. Ultrasound in Medicine and Biology, 2014, 40, 1834-1846.	1.5	71
52	Gravitational Effect in Evaporating Binary Microdroplets. Physical Review Letters, 2019, 122, 114501.	7.8	71
53	â€œCompression-onlyâ€•behavior: A second-order nonlinear response of ultrasound contrast agent microbubbles. Journal of the Acoustical Society of America, 2011, 129, 1729-1739.	1.1	70
54	2-D absolute OH concentration profiles in atmospheric flames using planar LIF in a bi-directional laser beam configuration. Applied Physics B: Lasers and Optics, 1997, 65, 411-417.	2.2	67

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55	Biodegradable polymeric microcapsules for selective ultrasound-triggered drug release. Soft Matter, 2011, 7, 5417.	2.7	67
56	Characterizing the Subharmonic Response of Phospholipid-Coated Microbubbles for Carotid Imaging. Ultrasound in Medicine and Biology, 2011, 37, 958-970.	1.5	67
57	Microbubble formation and pinch-off scaling exponent in flow-focusing devices. Physics of Fluids, 2011, 23, .	4.0	67
58	The role of gas in ultrasonically driven vapor bubble growth. Physics in Medicine and Biology, 2013, 58, 2523-2535.	3.0	67
59	Nonspherical Shape Oscillations of Coated Microbubbles inÂContact With a Wall. Ultrasound in Medicine and Biology, 2011, 37, 935-948.	1.5	65
60	Nonspherical Vibrations of Microbubbles in Contact with a Wallâ€"A Pilot Study at Low Mechanical Index. Ultrasound in Medicine and Biology, 2008, 34, 685-688.	1.5	64
61	Three-year outcome of the covered endovascular reconstruction of the aortic bifurcation technique for aortoiliac occlusive disease. Journal of Vascular Surgery, 2018, 67, 1438-1447.	1.1	64
62	Acoustic bubble sorting for ultrasound contrast agent enrichment. Lab on A Chip, 2014, 14, 1705-1714.	6.0	63
63	Evaporation-Triggered Segregation of Sessile Binary Droplets. Physical Review Letters, 2018, 120, 224501.	7.8	63
64	A far infrared laser sideband spectrometer in the frequency region 550â€"2700 GHz. Review of Scientific Instruments, 1990, 61, 1612-1625.	1.3	62
65	Ultrasound-induced gas release from contrast agent microbubbles. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1035-1041.	3.0	59
66	Pressure-Dependent Attenuation and Scattering of Phospholipid-Coated Microbubbles at Low Acoustic Pressures. Ultrasound in Medicine and Biology, 2009, 35, 102-111.	1.5	59
67	Dynamics of Coated Microbubbles Adherent to a Wall. Ultrasound in Medicine and Biology, 2011, 37, 1500-1508.	1.5	59
68	Cavitation Measurement during Sonic and Ultrasonic Activated Irrigation. Journal of Endodontics, 2014, 40, 580-583.	3.1	59
69	Measurement and visualization of fileâ€toâ€wall contact during ultrasonically activated irrigation in simulated canals. International Endodontic Journal, 2013, 46, 1046-1055.	5.0	58
70	Ultrafast dynamics of the acoustic vaporization of phase-change microdroplets. Journal of the Acoustical Society of America, 2013, 134, 1610-1621.	1.1	57
71	Evaporating droplets on oil-wetted surfaces: Suppression of the coffee-stain effect. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16756-16763.	7.1	57
72	Irrigant flow in the root canal: experimental validation of an unsteady Computational Fluid Dynamics model using highâ€speed imaging. International Endodontic Journal, 2010, 43, 393-403.	5.0	56

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73	Irrigant Flow beyond the Insertion Depth of an Ultrasonically Oscillating File in Straight and Curved Root Canals: Visualization and Cleaning Efficacy. Journal of Endodontics, 2012, 38, 657-661.	3.1	55
74	High-efficiency ballistic electrostatic generator using microdroplets. Nature Communications, 2014, 5, 3575.	12.8	55
75	History force on coated microbubbles propelled by ultrasound. Physics of Fluids, 2009, 21, .	4.0	53
76	Formation and removal of apical vapor lock during syringe irrigation: a combined experimental and Computational Fluid Dynamics approach. International Endodontic Journal, 2014, 47, 191-201.	5.0	53
77	Monodisperse Versus Polydisperse Ultrasound Contrast Agents: Non-Linear Response, Sensitivity, and Deep Tissue Imaging Potential. Ultrasound in Medicine and Biology, 2018, 44, 1482-1492.	1.5	53
78	Brandaris 128 ultra-high-speed imaging facility: 10 years of operation, updates, and enhanced features. Review of Scientific Instruments, 2012, 83, 103706.	1.3	52
79	Entrapped air bubbles in piezo-driven inkjet printing: Their effect on the droplet velocity. Physics of Fluids, 2006, 18, 121511.	4.0	51
80	Acoustic characterization of single ultrasound contrast agent microbubbles. Journal of the Acoustical Society of America, 2008, 124, 4091-4097.	1.1	51
81	Non-linear Response and Viscoelastic Properties of Lipid-Coated Microbubbles: DSPC versus DPPC. Ultrasound in Medicine and Biology, 2015, 41, 1432-1445.	1.5	51
82	Radial Modulation of Microbubbles for Ultrasound Contrast Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2283-2290.	3.0	49
83	Mie scattering distinguishes the topological charge of an optical vortex: a homage to Gustav Mie. New Journal of Physics, 2009, 11, 013046.	2.9	49
84	Sonochemical and high-speed optical characterization of cavitation generated by an ultrasonically oscillating dental file in root canal models. Ultrasonics Sonochemistry, 2014, 21, 324-335.	8.2	47
85	Self-wrapping of an ouzo drop induced by evaporation on a superamphiphobic surface. Soft Matter, 2017, 13, 2749-2759.	2.7	47
86	Multicore Liquid Perfluorocarbonâ€Loaded Multimodal Nanoparticles for Stable Ultrasound and ¹⁹F MRI Applied to In Vivo Cell Tracking. Advanced Functional Materials, 2019, 29, 1806485.	14.9	47
87	Acoustical Properties of Individual Liposome-Loaded Microbubbles. Ultrasound in Medicine and Biology, 2012, 38, 2174-2185.	1.5	45
88	In vitro methods to study bubble-cell interactions: Fundamentals and therapeutic applications. Biomicrofluidics, 2016, 10, 011501.	2.4	45
89	Localized removal of layers of metal, polymer, or biomaterial by ultrasound cavitation bubbles. Biomicrofluidics, 2012, 6, 34114.	2.4	42
90	Far infrared laser sideband spectroscopy of H3O+: the pure inversion spectrum around 55 cm-1. Chemical Physics Letters, 1989, 161, 195-201.	2.6	41

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91	High-precision acoustic measurements of the nonlinear dilatational elasticity of phospholipid coated monodisperse microbubbles. Soft Matter, 2018, 14, 9550-9561.	2.7	41
92	Focused ultrasound for opening blood-brain barrier and drug delivery monitored with positron emission tomography. Journal of Controlled Release, 2020, 324, 303-316.	9.9	41
93	Universal Equations for the Coalescence Probability and Long-Term Size Stability of Phospholipid-Coated Monodisperse Microbubbles Formed by Flow Focusing. Langmuir, 2017, 33, 10329-10339.	3.5	40
94	Ultrasound microbubble induced endothelial cell permeability. Journal of Controlled Release, 2006, 116, e100-e102.	9.9	39
95	Unbinding of targeted ultrasound contrast agent microbubbles by secondary acoustic forces. Physics in Medicine and Biology, 2011, 56, 6161-6177.	3.0	39
96	Optical observations of acoustical radiation force effects on individual air bubbles. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 104-110.	3.0	38
97	Enhancing acoustic cavitation using artificial crevice bubbles. Ultrasonics, 2015, 56, 512-523.	3.9	38
98	Combined optical and acoustical detection of single microbubble dynamics. Journal of the Acoustical Society of America, 2011, 130, 3271-3281.	1.1	37
99	Role of the confinement of a root canal on jet impingement during endodontic irrigation. Experiments in Fluids, 2012, 53, 1841-1853.	2.4	37
100	Acoustic streaming induced by an ultrasonically oscillating endodontic file. Journal of the Acoustical Society of America, 2014, 135, 1717-1730.	1.1	37
101	Influence of refreshment/activation cycles and temperature rise on the reaction rate of sodium hypochlorite with bovine dentine during ultrasonic activated irrigation. International Endodontic Journal, 2014, 47, 147-154.	5.0	37
102	Oblique drop impact onto a deep liquid pool. Physical Review Fluids, 2017, 2, .	2.5	36
103	Secondary Bjerknes Forces Deform Targeted Microbubbles. Ultrasound in Medicine and Biology, 2013, 39, 490-506.	1.5	35
104	On the Acoustic Properties of Vaporized Submicron Perfluorocarbon Droplets. Ultrasound in Medicine and Biology, 2014, 40, 1379-1384.	1.5	35
105	Non-spherical oscillations drive the ultrasound-mediated release from targeted microbubbles. Communications Physics, 2018, 1, .	5.3	35
106	Ultra-fast bright field and fluorescence imaging of the dynamics of micrometer-sized objects. Review of Scientific Instruments, 2013, 84, 063701.	1.3	34
107	A novel methodology providing insights into removal of biofilmâ€mimicking hydrogel from lateral morphological features of the root canal during irrigation procedures. International Endodontic Journal, 2014, 47, 1040-1051.	5.0	34
108	Hemodynamic comparison of stent configurations used for aortoiliac occlusive disease. Journal of Vascular Surgery, 2017, 66, 251-260.e1.	1.1	34

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109	Radial modulation of single microbubbles. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 2370-2379.	3.0	33
110	Intravital microscopy of localized stem cell delivery using microbubbles and acoustic radiation force. Biotechnology and Bioengineering, 2015, 112, 220-227.	3.3	33
111	Spiraling Bubbles: How Acoustic and Hydrodynamic Forces Compete. Physical Review Letters, 2001, 86, 4819-4822.	7.8	32
112	Marangoni flow on an inkjet nozzle plate. Applied Physics Letters, 2007, 91, 204102.	3.3	32
113	InÂVivo Characterization of Ultrasound Contrast Agents: Microbubble Spectroscopy in a Chicken Embryo. Ultrasound in Medicine and Biology, 2012, 38, 1608-1617.	1.5	32
114	Ultrafast imaging method to measure surface tension and viscosity of inkjet-printed droplets in flight. Experiments in Fluids, 2017, 58, 1.	2.4	32
115	Sonoprinting liposomes on tumor spheroids by microbubbles and ultrasound. Journal of Controlled Release, 2019, 316, 79-92.	9.9	32
116	Ultrafast vapourization dynamics of laser-activated polymeric microcapsules. Nature Communications, 2014, 5, 3671.	12.8	31
117	Bubble sorting in pinched microchannels for ultrasound contrast agent enrichment. Lab on A Chip, 2015, 15, 3716-3722.	6.0	31
118	THE HEAT FLUX METHOD FOR PRODUCING BURNER STABILIZED ADIABATIC FLAMES: AN EVALUATION WITH CARS THERMOMETRY. Combustion Science and Technology, 2001, 169, 69-87.	2.3	30
119	An Evaluation of the Effect of Pulsed Ultrasound on the Cleaning Efficacy of Passive Ultrasonic Irrigation. Journal of Endodontics, 2010, 36, 1887-1891.	3.1	30
120	Ultrasound-Sensitive Liposomes for Triggered Macromolecular Drug Delivery: Formulation and In Vitro Characterization. Frontiers in Pharmacology, 2019, 10, 1463.	3.5	30
121	iLIF: illumination by Laser-Induced Fluorescence for single flash imaging on a nanoseconds timescale. Experiments in Fluids, 2011, 51, 1283-1289.	2.4	29
122	Droplets, Bubbles and Ultrasound Interactions. Advances in Experimental Medicine and Biology, 2016, 880, 157-174.	1.6	28
123	Cleaning lateral morphological features of the root canal: the role of streaming and cavitation. International Endodontic Journal, 2018, 51, e55-e64.	5.0	27
124	Sonoprinting of nanoparticle-loaded microbubbles: Unraveling the multi-timescale mechanism. Biomaterials, 2019, 217, 119250.	11.4	27
125	Acoustic measurement of bubble size in an inkjet printhead. Journal of the Acoustical Society of America, 2009, 126, 2184-2190.	1.1	26
126	Contrast agent response to chirp reversal: simulations, optical observations, and acoustical verification. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1199-1206.	3.0	26

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127	Ultrahigh-Speed Dynamics of Micrometer-Scale Inertial Cavitation from Nanoparticles. Physical Review Applied, 2016, 6, .	3.8	26
128	Flow and wall shear stress characterization after endovascular aneurysm repair and endovascular aneurysm sealing in an infrarenal aneurysm model. Journal of Vascular Surgery, 2017, 66, 1844-1853.	1.1	26
129	Effect of an entrained air bubble on the acoustics of an ink channel. Journal of the Acoustical Society of America, 2008, 123, 2496-2505.	1.1	24
130	Microfluidics control the ballistic energy of thermocavitation liquid jets for needle-free injections. Journal of Applied Physics, 2020, 127, .	2.5	24
131	Biofilm removal from a simulated isthmus and lateral canal during syringe irrigation at various flow rates: a combined experimental and Computational Fluid Dynamics approach. International Endodontic Journal, 2021, 54, 427-438.	5.0	23
132	Laser-induced fluorescence imaging in a 100 kW natural gas flame. Applied Physics B: Lasers and Optics, 1992, 55, 164-170.	2.2	22
133	Microdroplet nucleation by dissolution of a multicomponent drop in a host liquid. Journal of Fluid Mechanics, 2019, 870, 217-246.	3.4	22
134	Meta-analysis of Individual Patient Data After Kissing Stent Treatment for Aortoiliac Occlusive Disease. Journal of Endovascular Therapy, 2019, 26, 31-40.	1.5	22
135	The resonance frequency of SonoVue as observed by high-speed optical imaging. , 0, , .		20
136	Acoustic Sizing of an Ultrasound Contrast Agent. Ultrasound in Medicine and Biology, 2010, 36, 1713-1721.	1.5	20
137	Oscillation characteristics of endodontic files: numerical model and its validation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2448-59.	3.0	20
138	Foam-free monodisperse lipid-coated ultrasound contrast agent synthesis by flow-focusing through multi-gas-component microbubble stabilization. Applied Physics Letters, 2020, 116, .	3.3	20
139	Bubble size prediction in co-flowing streams. Europhysics Letters, 2011, 94, 64001.	2.0	19
140	Optical verification and in-vitro characterization of two commercially available acoustic bubble counters for cardiopulmonary bypass systems. Perfusion (United Kingdom), 2018, 33, 16-24.	1.0	19
141	Frequency calibration in the ArF excimer laser-tuning range using laser-induced fluorescence of NO. Applied Optics, 1991, 30, 5229.	2.1	18
142	Leaping shampoo and the stable Kaye effect. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P07007-P07007.	2.3	18
143	Infrared imaging and acoustic sizing of a bubble inside a micro-electro-mechanical system piezo ink channel. Journal of Applied Physics, 2011, 110, 034503.	2.5	18
144	Layered acoustofluidic resonators for the simultaneous optical and acoustic characterisation of cavitation dynamics, microstreaming, and biological effects. Biomicrofluidics, 2018, 12, 034109.	2.4	18

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145	High-Frame-Rate Contrast-enhanced US Particle Image Velocimetry in the Abdominal Aorta: First Human Results. Radiology, 2018, 289, 119-125.	7.3	18
146	High-Frame-Rate Contrast-Enhanced Ultrasound for Velocimetry in the Human Abdominal Aorta. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2245-2254.	3.0	18
147	Influence of the Dentinal Wall on the pH of Sodium Hypochlorite during Root Canal Irrigation. Journal of Endodontics, 2014, 40, 1005-1008.	3.1	17
148	Focal areas of increased lipid concentration on the coating of microbubbles during short tone-burst ultrasound insonification. PLoS ONE, 2017, 12, e0180747.	2.5	17
149	Correspondence - Nonlinear oscillations of deflating bubbles. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2818-24.	3.0	16
150	Acoustic Characterization of a Vessel-on-a-Chip Microfluidic System for Ultrasound-Mediated Drug Delivery. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 570-581.	3.0	16
151	Inkjet Nozzle Failure by Heterogeneous Nucleation: Bubble Entrainment, Cavitation, and Diffusive Growth. Physical Review Applied, 2019, 12, .	3.8	16
152	Feedback-controlled microbubble generator producing one million monodisperse bubbles per second. Review of Scientific Instruments, 2021, 92, 035110.	1.3	16
153	Rayleighâ€“Taylor instability by segregation in an evaporating multicomponent microdroplet. Journal of Fluid Mechanics, 2020, 899, .	3.4	15
154	Secondary Tail Formation and Breakup in Piezoacoustic Inkjet Printing: Femtoliter Droplets Captured in Flight. Physical Review Applied, 2020, 13, .	3.8	15
155	Temperature evolution of preheated irrigant injected into a root canal ex vivo. Clinical Oral Investigations, 2017, 21, 2841-2850.	3.0	13
156	Nonaxisymmetric Effects in Drop-On-Demand Piezoacoustic Inkjet Printing. Physical Review Applied, 2020, 13, .	3.8	13
157	The retraction of jetted slender viscoelastic liquid filaments. Journal of Fluid Mechanics, 2021, 929, .	3.4	13
158	Laser-activated microparticles for multimodal imaging: ultrasound and photoacoustics. Physics in Medicine and Biology, 2019, 64, 034001.	3.0	12
159	Evaporation-Induced Crystallization of Surfactants in Sessile Multicomponent Droplets. Langmuir, 2020, 36, 7545-7552.	3.5	12
160	Impulse response method for characterization of echogenic liposomes. Journal of the Acoustical Society of America, 2015, 137, 1693-1703.	1.1	11
161	Partial renal coverage in endovascular aneurysm repair causes unfavorable renal flow patterns in an infrarenal aneurysm model. Journal of Vascular Surgery, 2018, 67, 1585-1594.	1.1	11
162	Shortwave infrared imaging setup to study entrained air bubble dynamics in a MEMS-based piezo-acoustic inkjet printhead. Experiments in Fluids, 2019, 60, 1.	2.4	11

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163	Degenerate four-wave mixing with a tunable excimer laser. Applied Optics, 1994, 33, 3289.	2.1	10
164	Ballistic energy conversion: physical modeling and optical characterization. Nano Energy, 2016, 30, 252-259.	16.0	10
165	High-Frequency Acoustic Droplet Vaporization is Initiated by Resonance. Physical Review Letters, 2021, 126, 034501.	7.8	10
166	Microbubble surface modes. , 0, , .		9
167	Loss of gas from echogenic liposomes exposed to pulsed ultrasound. Physics in Medicine and Biology, 2016, 61, 8321-8339.	3.0	9
168	The laser induced fluorescence spectrum of SiF around 193 nm. Journal of Molecular Spectroscopy, 1991, 149, 329-340.	1.2	8
169	Intracavity C atom absorption in the tuning range of the ArF excimer laser. Journal of Chemical Physics, 1992, 96, 3350-3351.	3.0	8
170	Brandaris 128: a rotating-mirror digital camera with 128 frames at 25 Mfps. , 2003, 4948, 342.		8
171	Clinical relevance of pressure-dependent scattering at low acoustic pressures. Ultrasonics, 2007, 47, 74-77.	3.9	8
172	Study of the geometry in a 3D flow-focusing device. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	8
173	A novel roller pump for physiological flow. Artificial Organs, 2020, 44, 818-826.	1.9	8
174	Root Canal Irrigation. Springer Series on Biofilms, 2015, , 259-301.	0.1	8
175	9B-1 Coupled Dynamics of an Isolated UCA Microbubble Pair. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	7
176	High Speed Imaging of 1 MHz Driven Microbubbles in Contact with a Rigid Wall. Solid State Phenomena, 0, 145-146, 7-10.	0.3	7
177	Irrigant transport into dental microchannels. Microfluidics and Nanofluidics, 2013, 16, 1165.	2.2	7
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