Olivier Couture

List of Publications by Year
in descending order

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46	3,115	279487	315357
papers	citations	23 h-index	38 g-index

47	47	47	2057
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrafast ultrasound localization microscopy for deep super-resolution vascular imaging. Nature, 2015, 527, 499-502.	13.7	884
2	Super-resolution Ultrasound Imaging. Ultrasound in Medicine and Biology, 2020, 46, 865-891.	0.7	253
3	Ultrasound Localization Microscopy and Super-Resolution: A State of the Art. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1304-1320.	1.7	213
4	Ultrasound contrast plane wave imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2676-83.	1.7	149
5	Sono-activated ultrasound localization microscopy. Applied Physics Letters, 2013, 103, .	1.5	144
6	Transcranial functional ultrasound imaging of the brain using microbubble-enhanced ultrasensitive Doppler. NeuroImage, 2016, 124, 752-761.	2.1	118
7	Resolution limits of ultrafast ultrasound localization microscopy. Physics in Medicine and Biology, 2015, 60, 8723-8740.	1.6	117
8	Ultrafast Imaging of Ultrasound Contrast Agents. Ultrasound in Medicine and Biology, 2009, 35, 1908-1916.	0.7	106
9	Microvascular flow dictates the compromise between spatial resolution and acquisition time in Ultrasound Localization Microscopy. Scientific Reports, 2019, 9, 2456.	1.6	106
10	Subwavelength motion-correction for ultrafast ultrasound localization microscopy. Ultrasonics, 2017, 77, 17-21.	2.1	102
11	Ultrafast 3D Ultrasound Localization Microscopy Using a 32 $imes$ 32 Matrix Array. IEEE Transactions on Medical Imaging, 2019, 38, 2005-2015.	5.4	89
12	Microbubble ultrasound super-localization imaging (MUSLI). , 2011, , .		84
13	Performance benchmarking of microbubble-localization algorithms for ultrasound localization microscopy. Nature Biomedical Engineering, 2022, 6, 605-616.	11.6	70
14	Contrast enhanced ultrasound by real-time spatiotemporal filtering of ultrafast images. Physics in Medicine and Biology, 2017, 62, 31-42.	1.6	63
15	Ultrasound internal tattooing. Medical Physics, 2011, 38, 1116-1123.	1.6	60
16	Functionalized polymer microbubbles as new molecular ultrasound contrast agent to target P-selectin in thrombus. Biomaterials, 2019, 194, 139-150.	5.7	50
17	Investigating perfluorohexane particles with high-frequency ultrasound. Ultrasound in Medicine and Biology, 2006, 32, 73-82.	0.7	49
18	A Method for Differentiating Targeted Microbubbles in Real Time Using Subharmonic Micro-Ultrasound and Interframe Filtering. Ultrasound in Medicine and Biology, 2009, 35, 1564-1573.	0.7	48

#	Article	IF	Citations
19	3D Transcranial Ultrasound Localization Microscopy in the Rat Brain With a Multiplexed Matrix Probe. IEEE Transactions on Biomedical Engineering, 2022, 69, 2132-2142.	2.5	47
20	Cationic microbubbles and antibiotic-free miniplasmid for sustained ultrasoundâ€“mediated transgene expression in liver. Journal of Controlled Release, 2017, 262, 170-181.	4.8	35
21	Early Ultrafast Ultrasound Imaging of Cerebral Perfusion correlates with Ischemic Stroke outcomes and responses to treatment in Mice. Theranostics, 2020, 10, 7480-7491.	4.6	33
22	Large-scale functional ultrasound imaging of the spinal cord reveals in-depth spatiotemporal responses of spinal nociceptive circuits in both normal and inflammatory states. Pain, 2021, 162, 1047-1059.	2.0	32
23	Suppression of tissue harmonics for pulse-inversion contrast imaging using time reversal. Physics in Medicine and Biology, 2008, 53, 5469-5480.	1.6	27
24	Tumor Delivery of Ultrasound Contrast Agents Using Shiga Toxin B Subunit. Molecular Imaging, 2011, 10, 7290.2010.00030.	0.7	27
25	In vivo targeted delivery of large payloads with an ultrasound clinical scanner. Medical Physics, 2012, 39, 5229-5237.	1.6	25
26	High Spatiotemporal Control of Spontaneous Reactions Using Ultrasound-Triggered Composite Droplets. Journal of the American Chemical Society, 2014, 136, 7205-7208.	6.6	19
27	A fast and switchable microfluidic mixer based on ultrasound-induced vaporization of perfluorocarbon. Lab on A Chip, 2015, 15, 2025-2029.	3.1	19
28	A model for reflectivity enhancement due to surface bound submicrometer particles. Ultrasound in Medicine and Biology, 2006, 32, 1247-1255.	0.7	18
29	Comb-Like Fluorophilic-Lipophilic-Hydrophilic Polymers for Nanocapsules as Ultrasound Contrast Agents. Biomacromolecules, 2018, 19, 3244-3256.	2.6	18
30	Echogenicity enhancement by end-fluorinated polylactide perfluorohexane nanocapsules: Towards ultrasound-activable nanosystems. Acta Biomaterialia, 2017, 64, 313-322.	4.1	17
31	End-chain fluorination of polyesters favors perfluorooctyl bromide encapsulation into echogenic PEGylated nanocapsules. Polymer Chemistry, 2017, 8, 2559-2570.	1.9	14
32	Reflection from bound microbubbles at high ultrasound frequencies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 536-545.	1.7	13
33	Subwavelength far-field ultrasound drug-delivery. Applied Physics Letters, 2016, 109, .	1.5	12
34	Time-reversal focusing of therapeutic ultrasound on targeted microbubbles. Applied Physics Letters, 2009, 94, .	1.5	11
35	Ultrafast Radial Modulation Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 598-611.	1.7	11
36	In situ targeted activation of an anticancer agent using ultrasound-triggered release of composite droplets. European Journal of Medicinal Chemistry, 2017, 142, 2-7.	2.6	7

#	Article	IF	Citations
37	Novel Perfluorinated Triblock Amphiphilic Copolymers for Lipid-Shelled Microbubble Stabilization. Langmuir, 2018, 34, 9744-9753.	1.6	7
38	Flow Rate and Low Hematocrit Measurements for $In Vitro$ Blood Processing With Doppler Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1293-1302.	1.7	4
39	Robust PCA-Based Clutter Filtering Method for Super-Resolution Ultrasound Localization Microscopy. , 2021, , .		3
40	Tissue harmonics cancellation using time-reversal. , 2008, , .		2
41	Molecular focusing of high-intensity ultrasound: Time-reversal focusing applied to targeted ultrasound contrast agents. , 2008, , .		2
42	Freeze-Dried Microfluidic Monodisperse Microbubbles as a New Generation of Ultrasound Contrast Agents. Ultrasound in Medicine and Biology, 2022, , .	0.7	2
43	Notice of Removal: Volumetric ultrafast ultrasound localization microscopy using a 32Ã—32 matrix array. , 2017, , .		0
44	Notice of Removal: Subwavelength motion-correction for ultrafast Ultrasound Localization Microscopy. , 2017, , .		0
45	Notice of Removal: Subwavelength far-field ultrasound targeted drug-delivery. , 2017, , .		0
46	Notice of Removal: Microbubbles kinetics in ultrafast ultrasound localization microscopy. , 2017, , .		0