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	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
2	Performance benchmarking of microbubble-localization algorithms for ultrasound localization microscopy. Nature Biomedical Engineering, 2022, 6, 605-616.	11.6	70
3	Freeze-Dried Microfluidic Monodisperse Microbubbles as a New Generation of Ultrasound Contrast Agents. Ultrasound in Medicine and Biology, 2022, , .	0.7	2
4	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
5	Robust PCA-Based Clutter Filtering Method for Super-Resolution Ultrasound Localization Microscopy. , 2021, , .		3
6	Ultrafast Radial Modulation Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 598-611.	1.7	11
7	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
8	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
9	Super-resolution Ultrasound Imaging. Ultrasound in Medicine and Biology, 2020, 46, 865-891.	0.7	253
10	Ultrafast 3D Ultrasound Localization Microscopy Using a 32 $imes$ 32 Matrix Array. IEEE Transactions on Medical Imaging, 2019, 38, 2005-2015.	5.4	89
11	Microvascular flow dictates the compromise between spatial resolution and acquisition time in Ultrasound Localization Microscopy. Scientific Reports, 2019, 9, 2456.	1.6	106
12	Functionalized polymer microbubbles as new molecular ultrasound contrast agent to target P-selectin in thrombus. Biomaterials, 2019, 194, 139-150.	5.7	50
13	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
14	Novel Perfluorinated Triblock Amphiphilic Copolymers for Lipid-Shelled Microbubble Stabilization. Langmuir, 2018, 34, 9744-9753.	1.6	7
15	Comb-Like Fluorophilic-Lipophilic-Hydrophilic Polymers for Nanocapsules as Ultrasound Contrast Agents. Biomacromolecules, 2018, 19, 3244-3256.	2.6	18
16	Subwavelength motion-correction for ultrafast ultrasound localization microscopy. Ultrasonics, 2017, 77, 17-21.	2.1	102
17	End-chain fluorination of polyesters favors perfluorooctyl bromide encapsulation into echogenic PEGylated nanocapsules. Polymer Chemistry, 2017, 8, 2559-2570.	1.9	14
18	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

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19	Contrast enhanced ultrasound by real-time spatiotemporal filtering of ultrafast images. Physics in Medicine and Biology, 2017, 62, 31-42.	1.6	63
20	Echogenicity enhancement by end-fluorinated polylactide perfluorohexane nanocapsules: Towards ultrasound-activable nanosystems. Acta Biomaterialia, 2017, 64, 313-322.	4.1	17
21	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
22	Notice of Removal: Volumetric ultrafast ultrasound localization microscopy using a 32Ã—32 matrix array. , 2017, , .		0
23	Notice of Removal: Subwavelength motion-correction for ultrafast Ultrasound Localization Microscopy. , 2017, , .		0
24	Notice of Removal: Subwavelength far-field ultrasound targeted drug-delivery. , 2017, , .		0
25	Notice of Removal: Microbubbles kinetics in ultrafast ultrasound localization microscopy. , 2017, , .		0
26	Subwavelength far-field ultrasound drug-delivery. Applied Physics Letters, 2016, 109, .	1.5	12
27	Transcranial functional ultrasound imaging of the brain using microbubble-enhanced ultrasensitive Doppler. NeuroImage, 2016, 124, 752-761.	2.1	118
28	A fast and switchable microfluidic mixer based on ultrasound-induced vaporization of perfluorocarbon. Lab on A Chip, 2015, 15, 2025-2029.	3.1	19
29	Ultrafast ultrasound localization microscopy for deep super-resolution vascular imaging. Nature, 2015, 527, 499-502.	13.7	884
30	Resolution limits of ultrafast ultrasound localization microscopy. Physics in Medicine and Biology, 2015, 60, 8723-8740.	1.6	117
31	High Spatiotemporal Control of Spontaneous Reactions Using Ultrasound-Triggered Composite Droplets. Journal of the American Chemical Society, 2014, 136, 7205-7208.	6.6	19
32	Sono-activated ultrasound localization microscopy. Applied Physics Letters, 2013, 103, .	1.5	144
33	Ultrasound contrast plane wave imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2676-83.	1.7	149
34	In vivo targeted delivery of large payloads with an ultrasound clinical scanner. Medical Physics, 2012, 39, 5229-5237.	1.6	25
35	Tumor Delivery of Ultrasound Contrast Agents Using Shiga Toxin B Subunit. Molecular Imaging, 2011, 10, 7290.2010.00030.	0.7	27
36	Ultrasound internal tattooing. Medical Physics, 2011, 38, 1116-1123.	1.6	60

#	Article	IF	Citations
37	Microbubble ultrasound super-localization imaging (MUSLI). , 2011, , .		84
38	Time-reversal focusing of therapeutic ultrasound on targeted microbubbles. Applied Physics Letters, 2009, 94, .	1.5	11
39	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
40	Ultrafast Imaging of Ultrasound Contrast Agents. Ultrasound in Medicine and Biology, 2009, 35, 1908-1916.	0.7	106
41	Reflection from bound microbubbles at high ultrasound frequencies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 536-545.	1.7	13
42	Suppression of tissue harmonics for pulse-inversion contrast imaging using time reversal. Physics in Medicine and Biology, 2008, 53, 5469-5480.	1.6	27
43	Tissue harmonics cancellation using time-reversal. , 2008, , .		2
44	Molecular focusing of high-intensity ultrasound: Time-reversal focusing applied to targeted ultrasound contrast agents. , 2008, , .		2
45	A model for reflectivity enhancement due to surface bound submicrometer particles. Ultrasound in Medicine and Biology, 2006, 32, 1247-1255.	0.7	18
46	Investigating perfluorohexane particles with high-frequency ultrasound. Ultrasound in Medicine and Biology, 2006, 32, 73-82.	0.7	49