Paul S Sheeran

List of Publications by Year
in descending order

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47 papers	2,382 citations	257357 24 h-index	330025 37 g-index
49 all docs	49 docs citations	49 times ranked	1691 citing authors

#	Article	IF	Citations
1	Formulation and Acoustic Studies of a New Phase-Shift Agent for Diagnostic and Therapeutic Ultrasound. Langmuir, 2011, 27, 10412-10420.	1.6	264
2	Design of ultrasonically-activatable nanoparticles using low boiling point perfluorocarbons. Biomaterials, 2012, 33, 3262-3269.	5.7	217
3	Decafluorobutane as a Phase-Change Contrast Agent for Low-Energy Extravascular Ultrasonic Imaging. Ultrasound in Medicine and Biology, 2011, 37, 1518-1530.	0.7	208
4	Phase-Change Contrast Agents for Imaging and Therapy. Current Pharmaceutical Design, 2012, 18, 2152-2165.	0.9	205
5	Targeted drug delivery with focused ultrasound-induced blood-brain barrier opening using acoustically-activated nanodroplets. Journal of Controlled Release, 2013, 172, 795-804.	4.8	121
6	Phase-Change Nanoparticles Using Highly Volatile Perfluorocarbons: Toward a Platform for Extravascular Ultrasound Imaging. Theranostics, 2012, 2, 1185-1198.	4.6	114
7	Contrast-Enhanced Ultrasound Imaging and inÂVivo Circulatory Kinetics with Low-Boiling-Point Nanoscale Phase-Change Perfluorocarbon Agents. Ultrasound in Medicine and Biology, 2015, 41, 814-831.	0.7	100
8	Imaging Methods for Ultrasound Contrast Agents. Ultrasound in Medicine and Biology, 2020, 46, 498-517.	0.7	93
9	Phase-transition thresholds and vaporization phenomena for ultrasound phase-change nanoemulsions assessed via high-speed optical microscopy. Physics in Medicine and Biology, 2013, 58, 4513-4534.	1.6	81
10	High-intensity focused ultrasound ablation enhancement in vivo via phase-shift nanodroplets compared to microbubbles. Journal of Therapeutic Ultrasound, 2015, 3, 7.	2.2	77
11	Phase-shift perfluorocarbon agents enhance high intensity focused ultrasound thermal delivery with reduced near-field heating. Journal of the Acoustical Society of America, 2013, 134, 1473-1482.	0.5	73
12	Phase change events of volatile liquid perfluorocarbon contrast agents produce unique acoustic signatures. Physics in Medicine and Biology, 2014, 59, 379-401.	1.6	71
13	Dynamic contrast enhanced ultrasound for therapy monitoring. European Journal of Radiology, 2015, 84, 1650-1657.	1.2	65
14	Methods of Generating Submicrometer Phase-Shift Perfluorocarbon Droplets for Applications in Medical Ultrasonography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 252-263.	1.7	62
15	Intracellular delivery and ultrasonic activation of folate receptor-targeted phase-change contrast agents in breast cancer cells in vitro. Journal of Controlled Release, 2016, 243, 69-77.	4.8	60
16	Improving the Performance of Phase-Change Perfluorocarbon Droplets for Medical Ultrasonography: Current Progress, Challenges, and Prospects. Scientifica, 2014, 2014, 1-24.	0.6	54
17	Vaporization dynamics of volatile perfluorocarbon droplets: A theoretical model and in vitro validation. Medical Physics, 2014, 41, 102901.	1.6	51
18	Flow-focusing regimes for accelerated production of monodisperse drug-loadable microbubbles toward clinical-scale applications. Lab on A Chip, 2013, 13, 4816.	3.1	48

#	Article	IF	Citations
19	Precision Manufacture of Phase-Change Perfluorocarbon Droplets Using Microfluidics. Ultrasound in Medicine and Biology, 2011, 37, 1952-1957.	0.7	47
20	Toward Ultrasound Molecular Imaging With Phase-Change Contrast Agents: An InÂVitro Proof of Principle. Ultrasound in Medicine and Biology, 2013, 39, 893-902.	0.7	47
21	High-speed, clinical-scale microfluidic generation of stable phase-change droplets for gas embolotherapy. Lab on A Chip, 2011, 11, 3990.	3.1	46
22	More Than Bubbles: Creating Phase-Shift Droplets from Commercially Available Ultrasound Contrast Agents. Ultrasound in Medicine and Biology, 2017, 43, 531-540.	0.7	41
23	Microfluidic Generation of Acoustically Active Nanodroplets. Small, 2012, 8, 1876-1879.	5.2	36
24	Image-Guided Ultrasound Characterization of Volatile Sub-Micron Phase-Shift Droplets in the 20â€“40ÂMHz Frequency Range. Ultrasound in Medicine and Biology, 2016, 42, 795-807.	0.7	29
25	Impact of Encapsulation on in vitro and in vivo Performance of Volatile Nanoscale Phase-Shift Perfluorocarbon Droplets. Ultrasound in Medicine and Biology, 2018, 44, 1836-1852.	0.7	22
26	Analysis of Multi-Layer Immiscible Fluid Flow in a Microchannel. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	0.8	20
27	The Role of Microbubble Echo Phase Lag in Multipulse Contrast-Enhanced Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1389-1401.	1.7	20
28	Dual-frequency acoustic droplet vaporization detection for medical imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1623-1633.	1.7	19
29	Optimization of Phase-Change Contrast Agents for Targeting MDA-MB-231 Breast Cancer Cells. Ultrasound in Medicine and Biology, 2018, 44, 2728-2738.	0.7	15
30	Improved Contrast-Enhanced Power Doppler Using a Coherence-Based Estimator. IEEE Transactions on Medical Imaging, 2017, 36, 1901-1911.	5.4	14
31	Investigating the Accumulation of Submicron Phase-Change Droplets in Tumors. Ultrasound in Medicine and Biology, 2020, 46, 2861-2870.	0.7	14
32	Concepts and Tradeoffs in Velocity Estimation With Plane-Wave Contrast-Enhanced Doppler. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1890-1905.	1.7	13
33	Cavitation Therapy Monitoring of Commercial Microbubbles With a Clinical Scanner. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1144-1154.	1.7	11
34	In vitro parameter optimization for spatial control of focused ultrasound ablation when using low boiling point phase-change nanoemulsions. Journal of Therapeutic Ultrasound, 2013, 1, 16.	2.2	7
35	3-D Perfusion Imaging Using Principal Curvature Detection Rendering. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2286-2295.	1.7	4
36	Submicron decafluorobutane phase-change contrast agents generated by microbubble condensation. , 2011, , .		2

#	Article	IF	Citations
37	Binary apodization schemes for plane wave transmits. , 2012, , .		2
38	Ultrasonic analysis of precision-engineered acoustically active lipospheres produced by microfluidic. , 2009, , .		1
39	Ultrasound molecular imaging with customizable nanoscale phase-change contrast agents: An in-vitro feasibility study. , 2012, , .		1
40	Targeted drug delivery with focus ultrasound-induced blood-brain barrier opening Using acoustically-activated nanodroplets. , 2013, , .		1
41	Enhanced in vivo and in vitro high intensity focused ultrasound ablation via phase-shift nanodroplets compared to microbubbles. , 2013, , .		1
42	Image-guided characterization of phase-shift droplets at pre-clinical frequencies in vitro and in vivo. , 2015, , .		1
43	Efficacy of perfluorobutane as a phase-change contrast agent for low-energy ultrasonic imaging. , 2010, , .		0
44	Vaporization phenomena for ultrasound phase-change contrast agents assessed via high-speed optical microscopy. , 2013, , .		0
45	Dynamics of volatile phase-change contrast agents: Theoretical model and experimental measurements. , 2014, , .		0
46	In vivo quantification of image enhancement and circulation kinetics for phase change perfluorocarbon agents using custom pulse sequences. , 2014, , .		0
47	Visualizing tumour perfusion with plane-wave contrast-enhanced Doppler: Concepts and trade-offs. , 2015, , .		0