Christopher Hernandez

List of Publications by Year
in descending order

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31 papers	871 citations	687220 13 h-index	642610 23 g-index
36 all docs	36 docs citations	36 times ranked	916 citing authors

#	Article	IF	Citations
1	Ultrasound molecular imaging of ovarian cancer with CA-125 targeted nanobubble contrast agents. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2159-2168.	1.7	102
2	Contrast enhanced ultrasound imaging by nature-inspired ultrastable echogenic nanobubbles. Nanoscale, 2019, 11, 15647-15658.	2.8	86
3	Ultrasound imaging beyond the vasculature with new generation contrast agents. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2015, 7, 593-608.	3.3	79
4	Improving performance of nanoscale ultrasound contrast agents using N,N-diethylacrylamide stabilization. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 59-67.	1.7	79
5	Characterization of different bubble formulations for blood-brain barrier opening using a focused ultrasound system with acoustic feedback control. Scientific Reports, 2018, 8, 7986.	1.6	71
6	Sink or float? Characterization of shell-stabilized bulk nanobubbles using a resonant mass measurement technique. Nanoscale, 2019, 11, 851-855.	2.8	62
7	Nanobubble Ultrasound Contrast Agents for Enhanced Delivery of Thermal Sensitizer to Tumors Undergoing Radiofrequency Ablation. Pharmaceutical Research, 2014, 31, 1407-1417.	1.7	52
8	Cryo-EM Visualization of Lipid and Polymer-Stabilized Perfluorocarbon Gas Nanobubbles - A Step Towards Nanobubble Mediated Drug Delivery. Scientific Reports, 2017, 7, 13517.	1.6	52
9	Role of Surface Tension in Gas Nanobubble Stability Under Ultrasound. ACS Applied Materials & Interfaces, 2018, 10, 9949-9956.	4.0	52
10	Enhancing Tumor Drug Distribution With Ultrasound-Triggered Nanobubbles. Journal of Pharmaceutical Sciences, 2019, 108, 3091-3098.	1.6	52
11	Contrast-enhanced ultrasound with sub-micron sized contrast agents detects insulitis in mouse models of type1 diabetes. Nature Communications, 2020, 11, 2238.	5.8	37
12	Biomedical Imaging in Implantable Drug Delivery Systems. Current Drug Targets, 2015, 16, 672-682.	1.0	33
13	Macroporous acrylamide phantoms improve prediction of in vivo performance of in situ forming implants. Journal of Controlled Release, 2016, 243, 225-231.	4.8	27
14	Ultrasound-guided intratumoral delivery of doxorubicin from in situ forming implants in a hepatocellular carcinoma model. Therapeutic Delivery, 2016, 7, 201-212.	1.2	13
15	Increasing Distribution of Drugs Released from In Situ Forming PLGA Implants Using Therapeutic Ultrasound. Annals of Biomedical Engineering, 2017, 45, 2879-2887.	1.3	11
16	Nondestructive Characterization of Biodegradable Polymer Erosion in Vivo Using Ultrasound Elastography Imaging. ACS Biomaterials Science and Engineering, 2016, 2, 1005-1012.	2.6	8
17	Investigating the effect of transcutol on the physical properties of an O/W cream. Journal of Dispersion Science and Technology, 2020, 41, 600-606.	1.3	8
18	The dance of the nanobubbles: detecting acoustic backscatter from sub-micron bubbles using ultra-high frequency acoustic microscopy. Nanoscale, 2020, 12, 21420-21428.	2.8	8

#	Article	IF	Citations
19	Validation of Ultrasound Elastography Imaging for Nondestructive Characterization of Stiffer Biomaterials. Annals of Biomedical Engineering, 2016, 44, 1515-1523.	1.3	7
20	Predicting in vivo behavior of injectable, in situ-forming drug-delivery systems. Therapeutic Delivery, 2017, 8, 479-483.	1.2	6
21	Improving Treatment Efficacy of In Situ Forming Implants via Concurrent Delivery of Chemotherapeutic and Chemosensitizer. Scientific Reports, 2020, 10, 6587.	1.6	6
22	Ultrasound signal from sub-micron lipid-coated bubbles. , 2017, , .		4
23	Notice of Removal: On the fate of mesh-stabilized lipid nanobubbles after destruction with ultrasound. , 2017, , .		3
24	Effect of the surfactant pluronic on the stability of lipid-stabilized perfluorocarbon nanobubbles. , 2017, , .		2
25	Ultrasound-Enhanced Distribution and Treatment Efficacy of Dox-Loaded Intratumoral In Situ Forming Implants in Murine HCT-15 Tumors. , 2018, , .		2
26	Ultrasound signal from sub-micron lipid-coated bubbles. , 2017, , .		1
27	Enhancing fluorescein distribution from in situ forming PLGA implants using therapeutic ultrasound. , 2017, , .		1
28	Using ultrasound and photoacoustics to monitor in situ forming implant structure and drug release. , 2017, , .		1
29	Theoretical and experimental investigation of the nonlinear dynamics of nanobubbles excited at clinically relevant ultrasound frequencies and pressures: The role oflipid shell buckling. , 2017, , .		1
30	Ultrasound characterization of slow precipitating implants for vascular occlusion. , 2017, , .		0
31	Tunable Polymer Embolic Implant for Vascular Occlusion. ACS Biomaterials Science and Engineering, 2019, 5, 1849-1856.	2.6	0