

Mario L Fabiilli

List of Publications by Year in descending order

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82
papers

1,996
citations

346980

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286692

43
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93
docs citations

93
times ranked

1814
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatiotemporal control of myofibroblast activation in acoustically-responsive scaffolds via ultrasound-induced matrix stiffening. <i>Acta Biomaterialia</i> , 2022, 138, 133-143.	4.1	10
2	Micropatterning of acoustic droplet vaporization in acoustically-responsive scaffolds using extrusion-based bioprinting. <i>Bioprinting</i> , 2022, 25, e00188.	2.9	7
3	Ultrasound-Induced Mechanical Compaction in Acoustically Responsive Scaffolds Promotes Spatiotemporally Modulated Signaling in Triple Negative Breast Cancer. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101672.	3.9	4
4	Slow-Flow Ultrasound Localization Microscopy Using Recondensation of Perfluoropentane Nanodroplets. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 743-759.	0.7	10
5	Multi-time scale characterization of acoustic droplet vaporization and payload release of phase-shift emulsions using high-speed microscopy. <i>Ultrasonics Sonochemistry</i> , 2022, 88, 106090.	3.8	8
6	Stable and transient bubble formation in acoustically-responsive scaffolds by acoustic droplet vaporization: theory and application in sequential release. <i>Ultrasonics Sonochemistry</i> , 2021, 72, 105430.	3.8	21
7	Spatially-directed angiogenesis using ultrasound-controlled release of basic fibroblast growth factor from acoustically-responsive scaffolds. <i>Acta Biomaterialia</i> , 2021, 129, 73-83.	4.1	20
8	Release of basic fibroblast growth factor from acoustically-responsive scaffolds promotes therapeutic angiogenesis in the hind limb ischemia model. <i>Journal of Controlled Release</i> , 2021, 338, 773-783.	4.8	24
9	Flow-Independent Microbubble Isolation by Rapid Recondensation of Phase-Change Nanodrops after Acoustic Droplet Vaporization. , 2021, , .		0
10	Spatiotemporal control of micromechanics and microstructure in acoustically-responsive scaffolds using acoustic droplet vaporization. <i>Soft Matter</i> , 2020, 16, 6501-6513.	1.2	16
11	Spatially-directed cell migration in acoustically-responsive scaffolds through the controlled delivery of basic fibroblast growth factor. <i>Acta Biomaterialia</i> , 2020, 113, 217-227.	4.1	16
12	Local delivery of bone morphogenetic protein-2 from near infrared-responsive hydrogels for bone tissue regeneration. <i>Biomaterials</i> , 2020, 241, 119909.	5.7	45
13	Standing wave-assisted acoustic droplet vaporization for single and dual payload release in acoustically-responsive scaffolds. <i>Ultrasonics Sonochemistry</i> , 2020, 66, 105109.	3.8	19
14	Controlled Release of Basic Fibroblast Growth Factor (bFGF) using Therapeutic Ultrasound Enhances Angiogenesis and Reperfusion in Ischemic Muscle. , 2020, , .		0
15	Controlled delivery of basic fibroblast growth factor (bFGF) using acoustic droplet vaporization stimulates endothelial network formation. <i>Acta Biomaterialia</i> , 2019, 97, 409-419.	4.1	30
16	Minimally invasive gas embolization using acoustic droplet vaporization in a rodent model of hepatocellular carcinoma. <i>Scientific Reports</i> , 2019, 9, 11040.	1.6	13
17	Capillary Hemorrhage Induced by Contrast-Enhanced Diagnostic Ultrasound in Rat Intestine. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 2133-2139.	0.7	10
18	Acoustic Droplet Vaporization in Acoustically Responsive Scaffolds: Effects of Frequency of Excitation, Volume Fraction and Threshold Determination Method. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 3246-3260.	0.7	16

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19	LED-Based Photoacoustic Imaging for Monitoring Angiogenesis in Fibrin Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 523-531.	1.1	15
20	Parametric Study of Acoustic Droplet Vaporization Thresholds and Payload Release From Acoustically-Responsive Scaffolds. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 2471-2484.	0.7	23
21	Hepatocyte Injury Induced by Contrast-Enhanced Diagnostic Ultrasound. <i>Journal of Ultrasound in Medicine</i> , 2019, 38, 1855-1864.	0.8	3
22	Spatiotemporally-controlled transgene expression in hydroxyapatite-fibrin composite scaffolds using high intensity focused ultrasound. <i>Biomaterials</i> , 2019, 194, 14-24.	5.7	15
23	Influence of Microbubble Size and Pulse Amplitude on Hepatocyte Injury Induced by Contrast-Enhanced Diagnostic Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 170-176.	0.7	7
24	The Dependence of Glomerular Capillary Hemorrhage Induced by Contrast Enhanced Diagnostic Ultrasound on Microbubble Diameter. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 613-621.	0.7	10
25	Individual Perfluorocarbon Nanodrop Vaporization with 18-MHz Plane Waves. , 2018, , .		0
26	Gas Embolization in a Rodent Model of Hepatocellular Carcinoma Using Acoustic Droplet Vaporization. , 2018, 2018, 6048-6051.		4
27	In vitro evaluation of lysophosphatidic acid delivery via reverse perfluorocarbon emulsions to enhance alveolar epithelial repair. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 411-417.	2.5	2
28	Sequential Payload Release from Acoustically-Responsive Scaffolds Using Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 2323-2335.	0.7	33
29	Ultrasonic Cavitation-Enabled Treatment for Therapy of Hypertrophic Cardiomyopathy: Proof of Principle. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 1439-1450.	0.7	12
30	Molecular, dynamic, and structural origin of inhomogeneous magnetization transfer in lipid membranes. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1318-1328.	1.9	42
31	Controlled release of basic fibroblast growth factor for angiogenesis using acoustically-responsive scaffolds. <i>Biomaterials</i> , 2017, 140, 26-36.	5.7	68
32	Effects of fluorosurfactant structure and concentration on drug availability and biocompatibility in water-in-perfluorocarbon emulsions for pulmonary drug delivery. <i>Colloid and Polymer Science</i> , 2017, 295, 2413-2422.	1.0	7
33	Multiple ultrasound cavitation-enabled treatments for myocardial reduction. <i>Journal of Therapeutic Ultrasound</i> , 2017, 5, 29.	2.2	3
34	Effects of Fluorosurfactant Structure and Concentration on Drug Availability and Biocompatibility in Water-in-Perfluorocarbon Emulsions for Pulmonary Drug Delivery. <i>Colloid and Polymer Science</i> , 2017, 295, 2413-2422.	1.0	3
35	In Situ Transfection by Controlled Release of Lipoplexes Using Acoustic Droplet Vaporization. <i>Advanced Healthcare Materials</i> , 2016, 5, 1764-1774.	3.9	11
36	In vitro and in vivo assessment of controlled release and degradation of acoustically responsive scaffolds. <i>Acta Biomaterialia</i> , 2016, 46, 221-233.	4.1	32

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37	Maturation of Lesions Induced by Myocardial Cavitation-Enabled Therapy. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 1541-1550.	0.7	5
38	Frequency Dependence of Petechial Hemorrhage and Cardiomyocyte Injury Induced during Myocardial Contrast Echocardiography. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 1929-1941.	0.7	6
39	Effects of Emulsion Composition on Pulmonary Tobramycin Delivery During Antibacterial Perfluorocarbon Ventilation. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2016, 29, 251-259.	0.7	10
40	Do Anesthetic Techniques Influence the Threshold for Glomerular Capillary Hemorrhage Induced in Rats by Contrast-Enhanced Diagnostic Ultrasound?. <i>Journal of Ultrasound in Medicine</i> , 2016, 35, 373-380.	0.8	6
41	Use of Hydroxyapatite Doping to Enhance Responsiveness of Heat-Inducible Gene Switches to Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 824-830.	0.7	3
42	Design and Characterization of Fibrin-Based Acoustically Responsive Scaffolds for Tissue Engineering Applications. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 257-271.	0.7	33
43	Imaging and sensing based on dual-pulse nonlinear photoacoustic contrast: a preliminary study on fatty liver. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
44	Use of Theranostic Strategies in Myocardial Cavitation-Enabled Therapy. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1865-1875.	0.7	14
45	Dual-pulse nonlinear photoacoustic technique: a practical investigation. <i>Biomedical Optics Express</i> , 2015, 6, 2923.	1.5	27
46	Imaging and sensing based on dual-pulse nonlinear photoacoustic contrast: a preliminary study on fatty liver. <i>Optics Letters</i> , 2015, 40, 2253.	1.7	47
47	Patterning Expression of Regenerative Growth Factors Using High Intensity Focused Ultrasound. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 769-779.	1.1	20
48	Characterization of a Reverse-Phase Perfluorocarbon Emulsion for the Pulmonary Delivery of Tobramycin. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2014, 27, 392-399.	0.7	9
49	Acceleration of ultrasound thermal therapy by patterned acoustic droplet vaporization. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 537-544.	0.5	28
50	Formation of toroidal bubbles from acoustic droplet vaporization. <i>Applied Physics Letters</i> , 2014, 104, 063706.	1.5	10
51	High throughput production of uniformly-sized fluorocarbon emulsions for ultrasonic therapy using a silicon-based microfluidic system. , 2014, , .		2
52	Characterization of acoustic droplet vaporization and inertial cavitation thresholds in acoustically-responsive tissue scaffolds. , 2014, , .		1
53	Initial nucleation site formation due to acoustic droplet vaporization. <i>Applied Physics Letters</i> , 2014, 104, 063703.	1.5	51
54	Acoustic droplet-hydrogel composites for spatial and temporal control of growth factor delivery and scaffold stiffness. <i>Acta Biomaterialia</i> , 2013, 9, 7399-7409.	4.1	68

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55	Ultrafast dynamics of the acoustic vaporization of phase-change microdroplets. Journal of the Acoustical Society of America, 2013, 134, 1610-1621.	0.5	57
56	Viewing individual cells and ambient microvasculature using two molecular contrasts. Proceedings of SPIE, 2013, , .	0.8	0
57	Treatment of murine tumors using acoustic droplet vaporization-enhanced high intensity focused ultrasound. Physics in Medicine and Biology, 2013, 58, 6179-6191.	1.6	23
58	Assessment of the biodistribution of an [¹⁸ F]FDG-loaded perfluorocarbon double emulsion using dynamic microPET in rats. Contrast Media and Molecular Imaging, 2013, 8, 366-374.	0.4	14
59	Simultaneous Viewing of Individual Cells and Ambient Microvasculature Using Optical Absorption and Fluorescence Contrasts. Molecular Imaging, 2013, 12, 7290.2013.00064.	0.7	0
60	Numerical Study of Temperature Profile During ADV Enhanced HIFU Thermal Ablation of Tumor. , 2013, , .		0
61	Ultrafast dynamics of the acoustic vaporization of phase-change microdroplets. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
62	Ultrasound thermal ablation system and methods for treatment of breast cancer. , 2012, , .		0
63	Acoustic droplet vaporization-induced cellular sonoporation. , 2012, , .		0
64	Drug delivery monitoring by photoacoustic tomography with an ICG encapsulated double emulsion. Proceedings of SPIE, 2012, , .	0.8	0
65	<i>In Vivo</i> Microscopy of Targeted Vessel Occlusion Employing Acoustic Droplet Vaporization. Microcirculation, 2012, 19, 501-509.	1.0	52
66	Acoustic Droplet Vaporization for Enhancement of Thermal Ablation by High Intensity Focused Ultrasound. Academic Radiology, 2011, 18, 1123-1132.	1.3	97
67	Drug delivery monitoring by photoacoustic tomography with an ICG encapsulated double emulsion. Optics Express, 2011, 19, 14335.	1.7	52
68	Delivery of Water-Soluble Drugs Using Acoustically Triggered Perfluorocarbon Double Emulsions. Pharmaceutical Research, 2010, 27, 2753-2765.	1.7	130
69	Delivery of Chlorambucil Using an Acoustically-Triggered Perfluoropentane Emulsion. Ultrasound in Medicine and Biology, 2010, 36, 1364-1375.	0.7	136
70	Initial Investigation of Acoustic Droplet Vaporization for Occlusion in Canine Kidney. Ultrasound in Medicine and Biology, 2010, 36, 1691-1703.	0.7	113
71	Acoustic droplet vaporization for the enhancement of ultrasound thermal therapy. , 2010, , .		1
72	Development of an Acoustic Droplet Vaporization, Ultrasound Drug Delivery Emulsion. , 2010, , .		0

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73	The release of thrombin, using acoustic droplet vaporization (ADV), from perfluoropentane double emulsions. , 2010, , .		1
74	Acoustic Droplet Vaporization for the Enhancement of Ultrasound Thermal Therapy. Proceedings IEEE Ultrasonics Symposium, 2010, 2010, 221-224.	0.0	3
75	The role of inertial cavitation in acoustic droplet vaporization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1006-1017.	1.7	196
76	Ultrasonic delivery of a chemotherapeutic agent using acoustic droplet vaporization (ADV). , 2009, , .		0
77	The role of inertial cavitation in acoustic droplet vaporization. , 2008, , .		2
78	Mean echo power as a measure of flow reduction for bubble occlusion therapy. , 2008, , .		0
79	Subcutaneous Vascular Occlusion by Acoustically Vaporized Droplets for Potential Targeted Enhancement of Thermal Therapies. Medical Physics, 2008, 35, 2724-2725.	1.6	0
80	Rapid, Nondestructive Near-Infrared Assay for Water in Sealed Dimethyl Sulfoxide Compound Repository Containers. Applied Spectroscopy, 2007, 61, 935-939.	1.2	1
81	On-Line Analysis of a Continuous-Flow Ozonolysis Reaction Using Raman Spectroscopy. Applied Spectroscopy, 2007, 61, 1107-1115.	1.2	20
82	On the acoustic vaporization of micrometer-sized droplets. Journal of the Acoustical Society of America, 2004, 116, 272-281.	0.5	197