Dmitry Grishenkov

List of Publications by Year in Descending Order

28 papers	428 citations	14 h-index	20 g-index
35 ext. papers	521 ext. citations	4.4 avg, IF	3.54 L-index

#	Paper	IF	Citations
28	Chemical effects in hydrodynamic cavitation on a chip—The role of cavitating flow patterns. *Chemical Engineering Journal*, **2022**, 445, 136734	14.7	2
27	On the Development of a Novel Contrast Pulse Sequence for Polymer-Shelled Microbubbles. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2021**, 68, 1569-1579	3.2	0
26	Design and fabrication of a vigorous "cavitation-on-a-chip" device with a multiple microchannel configuration. *Microsystems and Nanoengineering*, **2021**, 7, 44	7.7	4
25	A Study on the Acoustic Response of Pickering Perfluoropentane Droplets in Different Media. *ACS Omega*, **2021**, 6, 5670-5678	3.9	1
24	Deriving acoustic properties for perfluoropentane droplets with viscoelastic cellulose nanofiber shell via numerical simulations. *Journal of the Acoustical Society of America*, **2021**, 150, 1750	2.2	0
23	Effect of intensified cavitation using poly(vinyl alcohol) microbubbles on spray atomization characteristics in microscale. *AIP Advances*, **2020**, 10, 025318	1.5	4
22	Facile hydrodynamic cavitation ON CHIP via cellulose nanofibers stabilized perfluorodroplets inside layer-by-layer assembled SLIPS surfaces. *Chemical Engineering Journal*, **2020**, 382, 122809	14.7	15
21	Review on Acoustic Droplet Vaporization in Ultrasound Diagnostics and Therapeutics. *BioMed Research International*, **2019**, 2019, 9480193	3	23
20	Unravelling the Acoustic and Thermal Responses of Perfluorocarbon Liquid Droplets Stabilized with Cellulose Nanofibers. *Langmuir*, **2019**, 35, 13090-13099	4	7
19	Energy harvesting with micro scale hydrodynamic cavitation-thermoelectric generation coupling. *AIP Advances*, **2019**, 9, 105012	1.5	14
18	Intensifying cavitating flows in microfluidic devices with poly(vinyl alcohol) (PVA) microbubbles. *Physics of Fluids*, **2018**, 30, 102001	4.4	19
17	MicroBubble activated acoustic cell sorting. *Biomedical Microdevices*, **2017**, 19, 23	3.7	27
16	Graphene Meets Microbubbles: A Superior Contrast Agent for Photoacoustic Imaging. *ACS Applied Materials & Interfaces*, **2016**, 8, 16465-75	9.5	38
15	Modeling and parametric investigation of thick encapsulated microbubble's nonspherical oscillations. *Journal of the Acoustical Society of America*, **2016**, 140, 3884	2.2	4
14	Investigation of polymer-shelled microbubble motions in acoustophoresis. *Ultrasonics*, **2016**, 70, 275-83	3.5	12
13	Unique pumping-out fracturing mechanism of a polymer-shelled contrast agent: an acoustic characterization and optical visualization. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2015**, 62, 451-62	3.2	7
12	In Search of the Optimal Heart Perfusion Ultrasound Imaging Platform. *Journal of Ultrasound in Medicine*, **2015**, 34, 1599-605	2.9	0

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11	Ultrasound contrast agent loaded with nitric oxide as a theranostic microdevice. *Drug Design, Development and Therapy*, **2015**, 9, 2409-19	4.4	14
10	On the interplay of shell structure with low- and high-frequency mechanics of multifunctional magnetic microbubbles. *Soft Matter*, **2014**, 10, 214-26	3.6	38
9	Assessment of the viscoelastic and oscillation properties of a nano-engineered multimodality contrast agent. *Ultrasound in Medicine and Biology*, **2014**, 40, 2476-87	3.5	7
8	A general strategy for obtaining biodegradable polymer shelled microbubbles as theranostic devices. *Chemical Communications*, **2013**, 49, 5763-5	5.8	17
7	Acoustic characterization and contrast imaging of microbubbles encapsulated by polymeric shells coated or filled with magnetic nanoparticles. *Journal of the Acoustical Society of America*, **2013**, 134, 3918-30	2.3	14
6	Magnetite nanoparticles can be coupled to microbubbles to support multimodal imaging. *Biomacromolecules*, **2012**, 13, 1390-9	6.9	64
5	In vitro contrast-enhanced ultrasound measurements of capillary microcirculation: comparison between polymer- and phospholipid-shelled microbubbles. *Ultrasonics*, **2011**, 51, 40-8	3.5	24
4	Characterization of Acoustic Properties of PVA-Shelled Ultrasound Contrast Agents **2010**, 99-108		1
3	Characterization of acoustic properties of PVA-shelled ultrasound contrast agents: linear properties (part I). *Ultrasound in Medicine and Biology*, **2009**, 35, 1127-38	3.5	36
2	Characterization of acoustic properties of PVA-shelled ultrasound contrast agents: ultrasound-induced fracture (part II). *Ultrasound in Medicine and Biology*, **2009**, 35, 1139-47	3.5	23
1	Characterization of ultrasound-induced fracture of polymer-shelled ultrasonic contrast agents by correlation analysis. *Journal of the Acoustical Society of America*, **2007**, 122, 2425-30	2.2	12