

Costas D Arvanitis

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

2,716
citations

361045

20
h-index

580395

25
g-index

30
all docs

30
docs citations

30
times ranked

3596
citing authors

#	ARTICLE	IF	CITATIONS
1	The blood-brain barrier and blood-tumour barrier in brain tumours and metastases. <i>Nature Reviews Cancer</i> , 2020, 20, 26-41.	12.8	908
2	Temporary Disruption of the Blood-Brain Barrier by Use of Ultrasound and Microbubbles: Safety and Efficacy Evaluation in Rhesus Macaques. <i>Cancer Research</i> , 2012, 72, 3652-3663.	0.4	474
3	Ultrasound-mediated blood-brain barrier disruption for targeted drug delivery in the central nervous system. <i>Advanced Drug Delivery Reviews</i> , 2014, 72, 94-109.	6.6	332
4	Mechanisms of enhanced drug delivery in brain metastases with focused ultrasound-induced blood-tumor barrier disruption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8717-E8726.	3.3	159
5	Controlled Ultrasound-Induced Blood-Brain Barrier Disruption Using Passive Acoustic Emissions Monitoring. <i>PLoS ONE</i> , 2012, 7, e45783.	1.1	150
6	Combined ultrasound and MR imaging to guide focused ultrasound therapies in the brain. <i>Physics in Medicine and Biology</i> , 2013, 58, 4749-4761.	1.6	88
7	Passive Acoustic Mapping with the Angular Spectrum Method. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 983-993.	5.4	64
8	Integrated ultrasound and magnetic resonance imaging for simultaneous temperature and cavitation monitoring during focused ultrasound therapies. <i>Medical Physics</i> , 2013, 40, 112901.	1.6	61
9	Cavitation-enhanced delivery of a replicating oncolytic adenovirus to tumors using focused ultrasound. <i>Journal of Controlled Release</i> , 2013, 169, 40-47.	4.8	56
10	Localized blood-brain barrier opening in infiltrating gliomas with MRI-guided acoustic emissions-controlled focused ultrasound. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	53
11	Cavitation-enhanced nonthermal ablation in deep brain targets: feasibility in a large animal model. <i>Journal of Neurosurgery</i> , 2016, 124, 1450-1459.	0.9	52
12	Single-cell analysis reveals effective siRNA delivery in brain tumors with microbubble-enhanced ultrasound and cationic nanoparticles. <i>Science Advances</i> , 2021, 7, .	4.7	47
13	Towards controlled drug delivery in brain tumors with microbubble-enhanced focused ultrasound. <i>Advanced Drug Delivery Reviews</i> , 2022, 180, 114043.	6.6	41
14	Transcranial Assessment and Visualization of Acoustic Cavitation: Modeling and Experimental Validation. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1270-1281.	5.4	35
15	Targeted, noninvasive blockade of cortical neuronal activity. <i>Scientific Reports</i> , 2015, 5, 16253.	1.6	34
16	Controlled Drug Release and Chemotherapy Response in a Novel Acoustofluidic 3D Tumor Platform. <i>Small</i> , 2016, 12, 2616-2626.	5.2	33
17	Closed-loop trans-skull ultrasound hyperthermia leads to improved drug delivery from thermosensitive drugs and promotes changes in vascular transport dynamics in brain tumors. <i>Theranostics</i> , 2021, 11, 7276-7293.	4.6	26
18	Emerging strategies for delivering antiangiogenic therapies to primary and metastatic brain tumors. <i>Advanced Drug Delivery Reviews</i> , 2017, 119, 159-174.	6.6	25

#	ARTICLE	IF	CITATIONS
19	Closed-Loop Spatial and Temporal Control of Cavitation Activity With Passive Acoustic Mapping. IEEE Transactions on Biomedical Engineering, 2019, 66, 2022-2031.	2.5	25
20	Heterogeneous Angular Spectrum Method for Trans-Skull Imaging and Focusing. IEEE Transactions on Medical Imaging, 2020, 39, 1605-1614.	5.4	21
21	Experimental Demonstration of Trans-Skull Volumetric Passive Acoustic Mapping With the Heterogeneous Angular Spectrum Approach. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 534-542.	1.7	8
22	Morphological Reconstruction Improves Microvessel Mapping in Super-Resolution Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2141-2149.	1.7	7
23	The roles of thermal and mechanical stress in focused ultrasound-mediated immunomodulation and immunotherapy for central nervous system tumors. Journal of Neuro-Oncology, 2022, 157, 221-236.	1.4	5
24	Acoustic source localization with the angular spectrum approach in continuously stratified media. Journal of the Acoustical Society of America, 2020, 148, EL333-EL339.	0.5	4
25	Effect of incidence angle and wave mode conversion on transcranial ultrafast Doppler imaging. , 2020, , .		4
26	Simultaneous temperature and cavitation activity mapping. , 2011, , .		2
27	Dual mode CMUT Array Operation for Skull Imaging and Passive Acoustic Monitoring in Transcranial Ultrasound. , 2021, , .		1