Prasanna Hariharan

List of Publications by Year
in descending order

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22	732	567281 15	713466 21
papers	citations	h-index	g-index

22	22	22	948
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A computational model for predicting changes in infection dynamics due to leakage through N95 respirators. Scientific Reports, 2021, 11, 10690.	3.3	7
2	Assessing Computational Model Credibility Using a Risk-Based Framework: Application to Hemolysis in Centrifugal Blood Pumps. ASAIO Journal, 2019, 65, 349-360.	1.6	40
3	Modeling the Effectiveness of Respiratory Protective Devices in Reducing Influenza Outbreak. Risk Analysis, 2019, 39, 647-661.	2.7	34
4	Inter-Laboratory Characterization of the Velocity Field in the FDA Blood Pump Model Using Particle Image Velocimetry (PIV). Cardiovascular Engineering and Technology, 2018, 9, 623-640.	1.6	32
5	Model for Porosity Changes Occurring during Ultrasound-Enhanced Transcorneal Drug Delivery. Ultrasound in Medicine and Biology, 2017, 43, 1223-1236.	1.5	10
6	FDA Benchmark Medical Device Flow Models for CFD Validation. ASAIO Journal, 2017, 63, 150-160.	1.6	95
7	Quantification of leakage of sub-micron aerosols through surgical masks and facemasks for pediatric use. Journal of Occupational and Environmental Hygiene, 2017, 14, 214-223.	1.0	23
8	Use of the FDA nozzle model to illustrate validation techniques in computational fluid dynamics (CFD) simulations. PLoS ONE, 2017, 12, e0178749.	2.5	22
9	Analysis of Transitional and Turbulent Flow Through the FDA Benchmark Nozzle Model Using Laser Doppler Velocimetry. Cardiovascular Engineering and Technology, 2016, 7, 191-209.	1.6	17
10	Characterization of Focal Location During High-Intensity Focused Ultrasound Ablation in a Tissue Phantom Using Remote Thermocouple Arrays1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	3
11	Time-Resolved Particle Image Velocimetry Measurements with Wall Shear Stress and Uncertainty Quantification for the FDA Nozzle Model. Cardiovascular Engineering and Technology, 2016, 7, 7-22.	1.6	15
12	Verification Benchmarks to Assess the Implementation of Computational Fluid Dynamics Based Hemolysis Prediction Models. Journal of Biomechanical Engineering, 2015, 137, .	1.3	20
13	Localization of focused-ultrasound beams in a tissue phantom, using remote thermocouple arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 2019-2031.	3.0	11
14	Enhancement of ICRP's Lung Deposition Model for Pathogenic Bioaerosols. Aerosol Science and Technology, 2014, 48, 1226-1235.	3.1	43
15	Results of FDAâ€™s First Interlaboratory Computational Study of a Nozzle with a Sudden Contraction and Conical Diffuser. Cardiovascular Engineering and Technology, 2013, 4, 374-391.	1.6	44
16	Assessment of CFD Performance in Simulations of an Idealized Medical Device: Results of FDAâ€™s First Computational Interlaboratory Study. Cardiovascular Engineering and Technology, 2012, 3, 139-160.	1.6	122
17	Beam localization in HIFU temperature measurements using thermocouples, with application to cooling by large blood vessels. Ultrasonics, 2011, 51, 171-180.	3.9	38
18	Multilaboratory Particle Image Velocimetry Analysis of the FDA Benchmark Nozzle Model to Support Validation of Computational Fluid Dynamics Simulations. Journal of Biomechanical Engineering, 2011, 133, 041002.	1.3	94

#	Article	IF	Citations
19	Characterization of high intensity focused ultrasound transducers using acoustic streaming. Journal of the Acoustical Society of America, 2008, 123, 1706-1719.	1.1	37
20	Direct methods for characterizing high-intensity focused ultrasound transducers using acoustic streaming. Journal of the Acoustical Society of America, 2008, 124, 1790-1802.	1.1	10
21	Effect of Rate of Blood Flow Through Large Blood Vessels on HIFU Temperature Rise. , 2008, , .		0
22	Radio-Frequency Ablation in a Realistic Reconstructed Hepatic Tissue. Journal of Biomechanical Engineering, 2007, 129, 354-364.	1.3	15