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	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
2	FDA Benchmark Medical Device Flow Models for CFD Validation. ASAIO Journal, 2017, 63, 150-160.	1.6	95
3	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
4	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
5	Enhancement of ICRP's Lung Deposition Model for Pathogenic Bioaerosols. Aerosol Science and Technology, 2014, 48, 1226-1235.	3.1	43
6	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
7	Beam localization in HIFU temperature measurements using thermocouples, with application to cooling by large blood vessels. Ultrasonics, 2011, 51, 171-180.	3.9	38
8	Characterization of high intensity focused ultrasound transducers using acoustic streaming. Journal of the Acoustical Society of America, 2008, 123, 1706-1719.	1.1	37
9	Modeling the Effectiveness of Respiratory Protective Devices in Reducing Influenza Outbreak. Risk Analysis, 2019, 39, 647-661.	2.7	34
10	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
11	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
12	Use of the FDA nozzle model to illustrate validation techniques in computational fluid dynamics (CFD) simulations. PLoS ONE, 2017, 12, e0178749.	2.5	22
13	Verification Benchmarks to Assess the Implementation of Computational Fluid Dynamics Based Hemolysis Prediction Models. Journal of Biomechanical Engineering, 2015, 137, .	1.3	20
14	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
15	Radio-Frequency Ablation in a Realistic Reconstructed Hepatic Tissue. Journal of Biomechanical Engineering, 2007, 129, 354-364.	1.3	15
16	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
17	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
18	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

#	Article	IF	Citations
19	Model for Porosity Changes Occurring during Ultrasound-Enhanced Transcorneal Drug Delivery. Ultrasound in Medicine and Biology, 2017, 43, 1223-1236.	1.5	10
20	A computational model for predicting changes in infection dynamics due to leakage through N95 respirators. Scientific Reports, 2021, 11, 10690.	3.3	7
21	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
22	Effect of Rate of Blood Flow Through Large Blood Vessels on HIFU Temperature Rise. , 2008, , .		0