Ravishekar Ravi Kannan

List of Publications by Year
in descending order

15	197	1307594 7	1199594 12
papers	citations	h-index	g-index

15	15	15	220
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pharmaceutical aerosols deposition patterns from a Dry Powder Inhaler: Euler Lagrangian prediction and validation. Medical Engineering and Physics, 2017, 42, 35-47.	1.7	43
2	Particle transport in the human respiratory tract: formulation of a nodal inverse distance weighted Eulerianâ€“Lagrangian transport and implementation of the Windâ€“Kessel algorithm for an oral delivery. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02746.	2.1	32
3	A quasiâ€3D wire approach to model pulmonary airflow in human airways. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2838.	2.1	28
4	Overset Adaptive Cartesian/Prism Grid Method for Stationary and Moving-Boundary Flow Problems. AIAA Journal, 2007, 45, 1774-1779.	2.6	22
5	A compartmentâ€“quasiâ€<scp>3D</scp> multiscale approach for drug absorption, transport, and retention in the human lungs. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2955.	2.1	20
6	A Quasiâ€3D compartmental multiâ€scale approach to detect and quantify diseased regional lung constriction using spirometry data. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2973.	2.1	15
7	An Overset Adaptive Cartesian/Prism Grid Method for Moving Boundary Flow Problems. , 2005, , .		7
8	An implicit LU-SGS spectral volume method for moment models in device simulations II: Accuracy studies and performance enhancements using the penalty and BR2 formulations. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 650-665.	2.1	7
9	An implicit LUâ€SGS spectral volume method for the moment models in device simulations: Formulation in 1D and application to a pâ€multigrid algorithm. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 1362-1375.	2.1	6
10	A multiscale absorption and transit model for oral drug delivery: Formulation and applications during fasting conditions. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3317.	2.1	5
11	A multiscale absorption and transit model for oral delivery of hydroxychloroquine: Pharmacokinetic modeling and intestinal concentration prediction to assess toxicity and drugâ€induced damage in healthy subjects. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3403.	2.1	4
12	A quasi-3D model of the whole lung: airway extension to the tracheobronchial limit using the constrained constructive optimization and alveolar modeling, using a sacâ€“trumpet model. Journal of Computational Design and Engineering, 2021, 8, 691-704.	3.1	4
13	Anthropometryâ€based generation of personalized and populationâ€specific human airway models. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3324.	2.1	3
14	A Nonlinear Reduced Order Method with Overset Adaptive Cartesian/Unstructured Grid for Moving Body Simulation. , 2012, , .		1
15	Evaluating Drug Deposition Patterns from TurbuhalerÂ® in Healthy and Diseased Lung Models of Preschool Children.. , 2022, 4, .		0