Andrzej Przekwas

List of Publications by Year
in descending order

		759233	677142
24 papers	1,174 citations	12 h-index	22 g-index
27 all docs	27 docs citations	27 times ranked	1361 citing authors

#	Article	IF	Citations
1	Evaluating Drug Deposition Patterns from Turbuhaler® in Healthy and Diseased Lung Models of Preschool Children.. , 2022, 4, .		0
2	A multi-organ chip with matured tissue niches linked by vascular flow. Nature Biomedical Engineering, 2022, 6, 351-371.	22.5	162
3	Fast-Running Tools for Personalized Monitoring of Blast Exposure in Military Training and Operations. Military Medicine, 2021, 186, 529-536.	0.8	3
4	A quasi-3D model of the whole lung: airway extension to the tracheobronchial limit using the constrained constructive optimization and alveolar modeling, using a sac–trumpet model. Journal of Computational Design and Engineering, 2021, 8, 691-704.	3.1	4
5	Computational pharmacokinetic modeling of organ-on-chip devices and microphysiological systems. , 2020, , 311-361.		6
6	A multiscale absorption and transit model for oral delivery of hydroxychloroquine: Pharmacokinetic modeling and intestinal concentration prediction to assess toxicity and drug‐induced damage in healthy subjects. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3403.	2.1	4
7	Washing hands and the face may reduce COVID-19 infection. Medical Hypotheses, 2020, 144, 110261.	1.5	29
8	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
9	Anthropometry‐based generation of personalized and population‐specific human airway models. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3324.	2.1	3
10	Quantitative prediction of human pharmacokinetic responses to drugs via fluidically coupled vascularized organ chips. Nature Biomedical Engineering, 2020, 4, 421-436.	22.5	280
11	Robotic fluidic coupling and interrogation of multiple vascularized organ chips. Nature Biomedical Engineering, 2020, 4, 407-420.	22.5	256
12	Biomechanics of Blast TBI With Time-Resolved Consecutive Primary, Secondary, and Tertiary Loads. Military Medicine, 2019, 184, 195-205.	0.8	9
13	A Quasi‐3D compartmental multi‐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
14	A compartment–quasi‹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
15	Physiologically Based Pharmacokinetic and Pharmacodynamic Analysis Enabled by Microfluidically Linked Organs-on-Chips. Annual Review of Pharmacology and Toxicology, 2018, 58, 37-64.	9.4	133
16	Computational modeling of drug transport across the in vitro cornea. Computers in Biology and Medicine, 2018, 92, 139-146.	7.0	16
17	A quasi‐3D wire approach to model pulmonary airflow in human airways. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2838.	2.1	28
18	Synaptic Mechanisms of Blast-Induced Brain Injury. Frontiers in Neurology, 2016, 7, 2.	2.4	44

#	Article	IF	Citations
19	Particle transport in the human respiratory tract: formulation of a nodal inverse distance weighted Eulerian–Lagrangian transport and implementation of the Wind–Kessel algorithm for an oral delivery. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02746.	2.1	32
20	Computational approaches for modeling and analysis of human-on-chip systems for drug testing and characterization. Drug Discovery Today, 2016, 21, 1859-1862.	6.4	11
21	A musculoskeletal fatigue model for prediction of aviator neck manoeuvring loadings. International Journal of Human Factors Modelling and Simulation, 2014, 4, 191.	0.2	10
22	Mathematical Models of Blast-Induced TBI: Current Status, Challenges, and Prospects. Frontiers in Neurology, 2013, 4, 59.	2.4	85
23	A fast and robust whole-body control algorithm for running. International Journal of Human Factors Modelling and Simulation, 2011, 2, 127.	0.2	8
24	Multi-Scale Visual Analysis of Trauma Injury. Information Visualization, 2006, 5, 279-289.	1.9	3