

# Andrzej Przekwas

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,174  
citations

759233

12  
h-index

677142

22  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1361  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative prediction of human pharmacokinetic responses to drugs via fluidically coupled vascularized organ chips. <i>Nature Biomedical Engineering</i> , 2020, 4, 421-436.	22.5	280
2	Robotic fluidic coupling and interrogation of multiple vascularized organ chips. <i>Nature Biomedical Engineering</i> , 2020, 4, 407-420.	22.5	256
3	A multi-organ chip with matured tissue niches linked by vascular flow. <i>Nature Biomedical Engineering</i> , 2022, 6, 351-371.	22.5	162
4	Physiologically Based Pharmacokinetic and Pharmacodynamic Analysis Enabled by Microfluidically Linked Organs-on-Chips. <i>Annual Review of Pharmacology and Toxicology</i> , 2018, 58, 37-64.	9.4	133
5	Mathematical Models of Blast-Induced TBI: Current Status, Challenges, and Prospects. <i>Frontiers in Neurology</i> , 2013, 4, 59.	2.4	85
6	Synaptic Mechanisms of Blast-Induced Brain Injury. <i>Frontiers in Neurology</i> , 2016, 7, 2.	2.4	44
7	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. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2016, 32, e02746.	2.1	32
8	Washing hands and the face may reduce COVID-19 infection. <i>Medical Hypotheses</i> , 2020, 144, 110261.	1.5	29
9	A quasi-3D wire approach to model pulmonary airflow in human airways. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2838.	2.1	28
10	A compartmental-quasi-3D multiscale approach for drug absorption, transport, and retention in the human lungs. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2955.	2.1	20
11	Computational modeling of drug transport across the in vitro cornea. <i>Computers in Biology and Medicine</i> , 2018, 92, 139-146.	7.0	16
12	A Quasi-3D compartmental multi-scale approach to detect and quantify diseased regional lung constriction using spirometry data. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2973.	2.1	15
13	Computational approaches for modeling and analysis of human-on-chip systems for drug testing and characterization. <i>Drug Discovery Today</i> , 2016, 21, 1859-1862.	6.4	11
14	A musculoskeletal fatigue model for prediction of aviator neck manoeuvring loadings. <i>International Journal of Human Factors Modelling and Simulation</i> , 2014, 4, 191.	0.2	10
15	Biomechanics of Blast TBI With Time-Resolved Consecutive Primary, Secondary, and Tertiary Loads. <i>Military Medicine</i> , 2019, 184, 195-205.	0.8	9
16	A fast and robust whole-body control algorithm for running. <i>International Journal of Human Factors Modelling and Simulation</i> , 2011, 2, 127.	0.2	8
17	Computational pharmacokinetic modeling of organ-on-chip devices and microphysiological systems. , 2020, , 311-361.		6
18	A multiscale absorption and transit model for oral drug delivery: Formulation and applications during fasting conditions. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3317.	2.1	5

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19	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. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3403.	2.1	4
20	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. <i>Journal of Computational Design and Engineering</i> , 2021, 8, 691-704.	3.1	4
21	Multi-Scale Visual Analysis of Trauma Injury. <i>Information Visualization</i> , 2006, 5, 279-289.	1.9	3
22	Anthropometryâ€“based generation of personalized and populationâ€“specific human airway models. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3324.	2.1	3
23	Fast-Running Tools for Personalized Monitoring of Blast Exposure in Military Training and Operations. <i>Military Medicine</i> , 2021, 186, 529-536.	0.8	3
24	Evaluating Drug Deposition Patterns from TurbuhalerÂ® in Healthy and Diseased Lung Models of Preschool Children.. , 2022, 4, .		0