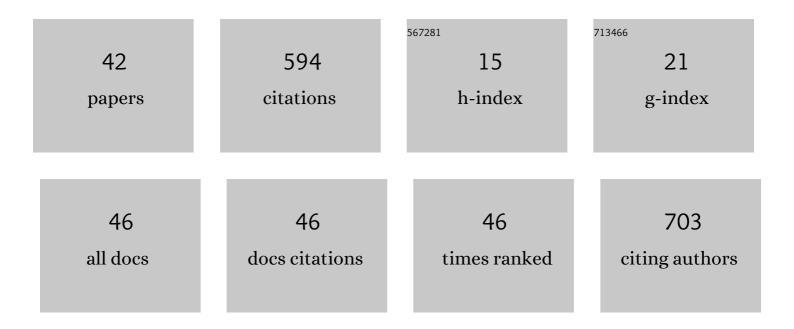
## Vasileios Vavourakis

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	BioDynaMo: a modular platform for high-performance agent-based simulation. Bioinformatics, 2022, 38, 453-460.	4.1	23
2	Interrogating an <i>in silico</i> model to determine helium plasma jet and chemotherapy efficacy against B16F10 melanoma cells. Applied Physics Letters, 2022, 120, .	3.3	6
3	Multimodal Structural Analysis of the Human Aorta: From Valve to Bifurcation. European Journal of Vascular and Endovascular Surgery, 2022, 63, 721-730.	1.5	5
4	Interrogating and Quantifying In Vitro Cancer Drug Pharmacodynamics via Agent-Based and Bayesian Monte Carlo Modelling. Pharmaceutics, 2022, 14, 749.	4.5	8
5	Should the Proximal Part of a Bifurcated Aortic Graft be Kept as Short as Possible? A Computational Study Elucidates on Aortic Graft Hemodynamics for Various Main Body Lengths. Annals of Vascular Surgery, 2022, 84, 344-353.	0.9	4
6	Convection-Enhanced Delivery In Silico Study for Brain Cancer Treatment. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	4.1	5
7	From tumour perfusion to drug delivery and clinical translation of in silico cancer models. Methods, 2021, 185, 82-93.	3.8	22
8	An in silico hybrid continuum-/agent-based procedure to modelling cancer development: Interrogating the interplay amongst glioma invasion, vascularity and necrosis. Methods, 2021, 185, 94-104.	3.8	19
9	Breast cancer surgery with augmented reality. Breast, 2021, 56, 14-17.	2.2	34
10	Investigating the reference domain influence in personalised models of cardiac mechanics. Biomechanics and Modeling in Mechanobiology, 2021, 20, 1579-1597.	2.8	8
11	Biomechanical modelling of spinal tumour anisotropic growth. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190364.	2.1	9
12	Decompressive craniectomy of post-traumatic brain injury: an in silico modelling approach for intracranial hypertension management. Scientific Reports, 2020, 10, 18673.	3.3	7
13	Engineered magnetoactive collagen hydrogels with tunable and predictable mechanical response. Materials Science and Engineering C, 2020, 114, 111089.	7.3	9
14	A quantitative in silico platform for simulating cytotoxic and nanoparticle drug delivery to solid tumours. Interface Focus, 2019, 9, 20180063.	3.0	21
15	Radiation-induced fibrosis in breast cancer: A protocol for an observational cross-sectional pilot study for personalised risk estimation and objective assessment. International Journal of Surgery Protocols, 2019, 14, 9-13.	1.1	10
16	In-silico dynamic analysis of cytotoxic drug administration to solid tumours: Effect of binding affinity and vessel permeability. PLoS Computational Biology, 2018, 14, e1006460.	3.2	18
17	Tapering analysis of airways with bronchiectasis. , 2018, , .		4
18	Multiscale biphasic modelling of peritumoural collagen microstructure: The effect of tumour growth on permeability and fluid flow. PLoS ONE, 2017, 12, e0184511.	2.5	10

#	Article	IF	CITATIONS
19	A Validated Multiscale In-Silico Model for Mechano-sensitive Tumour Angiogenesis and Growth. PLoS Computational Biology, 2017, 13, e1005259.	3.2	45
20	Multiscale Mechano-Biological Finite Element Modelling of Oncoplastic Breast Surgery—Numerical Study towards Surgical Planning and Cosmetic Outcome Prediction. PLoS ONE, 2016, 11, e0159766.	2.5	37
21	A review of biomechanically informed breast image registration. Physics in Medicine and Biology, 2016, 61, R1-R31.	3.0	55
22	Symmetric Biomechanically Guided Prone-to-Supine Breast Image Registration. Annals of Biomedical Engineering, 2016, 44, 154-173.	2.5	24
23	Surface driven biomechanical breast image registration. , 2016, , .		5
24	Numerical modeling of non-Newtonian biomagnetic fluid flow. Computers and Fluids, 2016, 126, 170-180.	2.5	14
25	Multiscale modelling of solid tumour growth: the effect of collagen micromechanics. Biomechanics and Modeling in Mechanobiology, 2016, 15, 1079-1090.	2.8	16
26	An Inverse Finite Element u/p-Formulation to Predict the Unloaded State of In Vivo Biological Soft Tissues. Annals of Biomedical Engineering, 2016, 44, 187-201.	2.5	21
27	Breast Conserving Surgery Outcome Prediction: A Patient-Specific, Integrated Multi-modal Imaging and Mechano-Biological Modelling Framework. Lecture Notes in Computer Science, 2016, , 274-281.	1.3	1
28	The influence of intraluminal thrombus on noninvasive abdominal aortic aneurysm wall distensibility measurement. Medical and Biological Engineering and Computing, 2015, 53, 299-308.	2.8	11
29	A numerical investigation of flow around octopus-like arms: near-wake vortex patterns and force development. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1321-1339.	1.6	10
30	Breast deformation modelling: comparison of methods to obtain a patient specific unloaded configuration. Proceedings of SPIE, 2014, , .	0.8	8
31	A nonlinear dynamic finite element approach for simulating muscular hydrostats. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 917-931.	1.6	12
32	A robust finite element approach for large deformation elastoplastic plane-strain problems. Finite Elements in Analysis and Design, 2013, 77, 1-15.	3.2	18
33	Assessment of remeshing and remapping strategies for large deformation elastoplastic Finite Element analysis. Computers and Structures, 2013, 114-115, 133-146.	4.4	21
34	Abdominal Aortic Aneurysm Rupture Risk Assessment Exploiting Dynamic (4D) CT Based Wall Motion Data and Finite Element Analysis. , 2013, , .		0
35	Hydrodynamic analysis of octopus-like robotic arms. , 2012, , .		17
36	Generation of primitive behaviors for non-linear hyperelastic octopus-inspired robotic arm. , 2012, , .		10

#	Article	IF	CITATIONS
37	Coupled fluid–structure interaction hemodynamics in a zero-pressure state corrected arterial geometry. Journal of Biomechanics, 2011, 44, 2453-2460.	2.1	18
38	Numerical determination of modal dispersion and AE signal characterization in waveguides through LBIE/BEM and time–frequency analysis. Computational Mechanics, 2009, 43, 431-441.	4.0	6
39	A meshless local boundary integral equation method for two-dimensional steady elliptic problems. Computational Mechanics, 2009, 44, 777-790.	4.0	5
40	A MLPG(LBIE) numerical method for solving 2D incompressible and nearly incompressible elastostatic problems. Communications in Numerical Methods in Engineering, 2006, 24, 281-296.	1.3	10
41	A NUMERICAL STUDY ON THE PROPAGATION OF TRANSIENT ELASTIC WAVES IN AXISYMMETRIC VESSELS. , 2006, , .		1
42	WAVE PROPAGATION IN PLATES WITH MICROSTRUCTURE 2004		0