

Milos Kojic

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

1,121
citations

17
h-index

32
g-index

82
ext. papers

1,323
ext. citations

4.4
avg, IF

4.11
L-index

#	Paper	IF	Citations
73	A finite element model of cell deformation during magnetic bead twisting. <i>Journal of Applied Physiology</i> , 2002 , 93, 1429-36	3.7	173
72	Studies of finite element procedures—stress solution of a closed elastic strain path with stretching and shearing using the updated Lagrangian Jaumann formulation. <i>Computers and Structures</i> , 1987 , 26, 175-179	4.5	91
71	The effective-stress-function algorithm for thermo-elasto-plasticity and creep. <i>International Journal for Numerical Methods in Engineering</i> , 1987 , 24, 1509-1532	2.4	79
70	A robust nanofluidic membrane with tunable zero-order release for implantable dose specific drug delivery. <i>Lab on A Chip</i> , 2010 , 10, 3074-83	7.2	71
69	An implicit algorithm within the arbitrary Lagrangian-Eulerian formulation for solving incompressible fluid flow with large boundary motions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 6347-6361	5.7	58
68	Capillary-wall collagen as a biophysical marker of nanotherapeutic permeability into the tumor microenvironment. <i>Cancer Research</i> , 2014 , 74, 4239-46	10.1	56
67	Ion Electrodiffusion Governs Silk Electrogelation. <i>Soft Matter</i> , 2012 , 8, 2897-2905	3.6	55
66	Engineering multi-stage nanovectors for controlled degradation and tunable release kinetics. <i>Biomaterials</i> , 2013 , 34, 8469-77	15.6	54
65	Polymer Nanoparticles Encased in a Cyclodextrin Complex Shell for Potential Site- and Sequence-Specific Drug Release. <i>Advanced Functional Materials</i> , 2014 , 24, 4753-4761	15.6	32
64	Solvent removal during synthetic and Nephila fiber spinning. <i>Biomacromolecules</i> , 2004 , 5, 1698-707	6.9	27
63	Derivation of a finite-element model of lingual deformation during swallowing from the mechanics of mesoscale myofiber tracts obtained by MRI. <i>Journal of Applied Physiology</i> , 2010 , 109, 1500-14	3.7	25
62	Liposomal doxorubicin extravasation controlled by phenotype-specific transport properties of tumor microenvironment and vascular barrier. <i>Journal of Controlled Release</i> , 2015 , 217, 293-9	11.7	24
61	A mesoscopic bridging scale method for fluids and coupling dissipative particle dynamics with continuum finite element method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013 , 197, 821-833	5.7	24
60	Preparation and modeling of three-layered PCL/PLGA/PCL fibrous scaffolds for prolonged drug release. <i>Scientific Reports</i> , 2020 , 10, 11126	4.9	22
59	A finite element formulation for the doublet mechanics modeling of microstructural materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 1446-1454	5.7	21
58	Physicochemical properties affect the synthesis, controlled delivery, degradation and pharmacokinetics of inorganic nanoporous materials. <i>Nanomedicine</i> , 2015 , 10, 3057-3075	5.6	20
57	Thermo-elastic-plastic and creep analysis of shell structures. <i>Computers and Structures</i> , 1987 , 26, 135-143	4.5	19

56	A computational study of circulating large tumor cells traversing microvessels. <i>Computers in Biology and Medicine</i> , 2015 , 63, 187-95	7	17
55	Hemodynamic flow modeling through an abdominal aorta aneurysm using data mining tools. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011 , 15, 189-94		17
54	Mass partitioning effects in diffusion transport. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 20630-5	3.6	15
53	Computer simulations of blood flow with mass transport through the carotid artery bifurcation. <i>Theoretical and Applied Mechanics</i> , 2004 , 31, 1-33	0.4	14
52	Enhanced 8-node three-dimensional solid and 4-node shell elements with incompatible generalized displacements. <i>Communications in Numerical Methods in Engineering</i> , 1994 , 10, 699-709		14
51	Computational analysis of drug transport in tumor microenvironment as a critical compartment for nanotherapeutic pharmacokinetics. <i>Drug Delivery</i> , 2016 , 23, 2524-2531	7	13
50	A finite element solution procedure for porous medium with fluid flow and electromechanical coupling. <i>Communications in Numerical Methods in Engineering</i> , 1998 , 14, 381-392		13
49	Extension of the composite smeared finite element (CSFE) to include lymphatic system in modeling mass transport in capillary systems and biological tissue. <i>Journal of the Serbian Society for Computational Mechanics</i> , 2017 , 11, 108-119	3	13
48	A Computational Model for Drug Release from PLGA Implant. <i>Materials</i> , 2018 , 11,	3.5	12
47	Coupling tumor growth and bio distribution models. <i>Biomedical Microdevices</i> , 2019 , 21, 33	3.7	11
46	Dissipative particle dynamics simulation of circular and elliptical particles motion in 2D laminar shear flow. <i>Microfluidics and Nanofluidics</i> , 2011 , 10, 1127-1134	2.8	11
45	A comparative numerical study between dissipative particle dynamics and smoothed particle hydrodynamics when applied to simple unsteady flows in microfluidics. <i>Microfluidics and Nanofluidics</i> , 2009 , 7, 227-235	2.8	10
44	Implicit stress integration procedure for small and large strains of the Gurson material model. <i>International Journal for Numerical Methods in Engineering</i> , 2002 , 53, 2701-2720	2.4	10
43	SMEARED CONCEPT AS A GENERAL METHODOLOGY IN FINITE ELEMENT MODELING OF PHYSICAL FIELDS AND MECHANICAL PROBLEMS IN COMPOSITE MEDIA. <i>Journal of the Serbian Society for Computational Mechanics</i> , 2018 , 12, 1-16	3	10
42	Tumor progression effects on drug vector access to tumor-associated capillary bed. <i>Journal of Controlled Release</i> , 2017 , 261, 216-222	11.7	10
41	A large strain finite element analysis of cartilage deformation with electrokinetic coupling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001 , 190, 2447-2464	5.7	9
40	Mapping cyclic stretch in the postpneumonectomy murine lung. <i>Journal of Applied Physiology</i> , 2013 , 115, 1370-8	3.7	8
39	Smeared Multiscale Finite Element Models for Mass Transport and Electrophysiology Coupled to Muscle Mechanics. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 381	5.8	8

38	Capillary collagen as the physical transport barrier in drug delivery to tumor microenvironment. <i>Tissue Barriers</i> , 2015 , 3, e1037418	4.3	7
37	Stress integration procedures for a biaxial isotropic material model of biological membranes and for hysteretic models of muscle fibres and surfactant. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 68, 893-909	2.4	7
36	A RADIAL 1D FINITE ELEMENT FOR DRUG RELEASE FROM DRUG LOADED NANOFIBERS. <i>Journal of the Serbian Society for Computational Mechanics</i> , 2017 , 11, 82-93	3	7
35	Tumor Site-Dependent Transport Properties Determine Nanotherapeutics Delivery and Its Efficacy. <i>Translational Oncology</i> , 2019 , 12, 1196-1205	4.9	6
34	Elastic-plastic orthotropic multilayered pipe deformation under external load and internal pressure. <i>AIAA Journal</i> , 1995 , 33, 2354-2358	2.1	5
33	Computer simulation of flow and mixing at the duodenal stump after gastric resection. <i>World Journal of Gastroenterology</i> , 2009 , 15, 1990-8	5.6	5
32	THE EFFECT OF ASYMMETRY AND AXIAL PRESTRAINING ON THE AMPLITUDE OF MECHANICAL STRESSES IN ABDOMINAL AORTIC ANEURYSM. <i>Journal of Mechanics in Medicine and Biology</i> , 2012 , 12, 1250089	0.7	4
31	In vitro and in silico testing of partially and fully bioresorbable vascular scaffold. <i>Journal of Biomechanics</i> , 2021 , 115, 110158	2.9	4
30	An extension of 3-D procedure to large strain analysis of shells. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002 , 191, 2447-2462	5.7	3
29	Transport Phenomena: Computational Models for Convective and Diffusive Transport in Capillaries and Tissue 2015 , 131-156		3
28	Multiscale models for transport and biodistribution of therapeutics in cancer. <i>Computer Aided Chemical Engineering</i> , 2018 , 209-237	0.6	2
27	Application of Platform for the Development and Optimization of Fully Bioresorbable Vascular Scaffold Designs.. <i>Frontiers in Medical Technology</i> , 2021 , 3, 724062	1.9	1
26	Attenuated Microcirculation in Small Metastatic Tumors in Murine Liver. <i>Pharmaceutics</i> , 2021 , 13,	6.4	1
25	Heart Mechanical Model Based on Holzapfel Experiments. <i>Learning and Analytics in Intelligent Systems</i> , 2020 , 12-21	0.3	0
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5 Application of Composite Smeared Finite Element Model in Drug Delivery Inside Organs. *Learning and Analytics in Intelligent Systems, 2020, 44-52* 0.3

4 Composite Smeared Finite Element Application to Electrical Field. *Learning and Analytics in Intelligent Systems, 2020, 35-43* 0.3

3 Modeling of blood flow in the human aorta with use of an orthotropic nonlinear material model for the walls 2003, 1751-1754

- 2 Finite Element Models with Smeared Fields Within Tissue \square A Review of the Current Developments.
Learning and Analytics in Intelligent Systems, **2020**, 22-34 0.3
- 1 Advances in Finite Element Methods for Elasto-Plastic and Creep Analysis **1991**, 461-468