

Irina N Sidorenko

List of Publications by Year in descending order

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37
papers

235
citations

1040056

9
h-index

996975

15
g-index

37
all docs

37
docs citations

37
times ranked

250
citing authors

#	ARTICLE	IF	CITATIONS
1	Accounting for arterial and capillary blood gases for calculation of cerebral blood flow in preterm infants. <i>European Journal of Pediatrics</i> , 2022, , 1.	2.7	0
2	Modeling of the cerebral blood circulation in a capillary network accounting for the influence of the endothelial surface layer. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 224, 107008.	4.7	2
3	Non-Stationary Model of Cerebral Oxygen Transport with Unknown Sources. <i>Mathematics</i> , 2021, 9, 910.	2.2	1
4	An inverse problem for equations of cerebral oxygen transport. <i>Applied Mathematics and Computation</i> , 2021, 402, 126154.	2.2	2
5	Modeling the pressure distribution in a spatially averaged cerebral capillary network. <i>Mathematical Control and Related Fields</i> , 2021, 11, 643.	1.1	2
6	Mathematical modeling of the hematocrit influence on cerebral blood flow in preterm infants. <i>PLoS ONE</i> , 2021, 16, e0261819.	2.5	1
7	Nonstationary Model of Oxygen Transport in Brain Tissue. <i>Computational and Mathematical Methods in Medicine</i> , 2020, 2020, 1-9.	1.3	8
8	Assessing haemorrhage-critical values of cerebral blood flow by modelling biomechanical stresses on capillaries in the immature brain. <i>Scientific Reports</i> , 2020, 10, 14196.	3.3	1
9	Machine learning models for identifying preterm infants at risk of cerebral hemorrhage. <i>PLoS ONE</i> , 2020, 15, e0227419.	2.5	17
10	Assessing key clinical parameters before and after intraventricular hemorrhage in very preterm infants. <i>European Journal of Pediatrics</i> , 2020, 179, 929-937.	2.7	14
11	Accounting for Tube Hematocrit in Modeling of Blood Flow in Cerebral Capillary Networks. <i>Computational and Mathematical Methods in Medicine</i> , 2019, 2019, 1-10.	1.3	6
12	Postnatal Paraclinical Parameters Associated to Occurrence of Intracerebral Hemorrhage in Preterm Infants. <i>Neuropediatrics</i> , 2019, 50, 103-110.	0.6	3
13	Continuum model of oxygen transport in brain. <i>Journal of Mathematical Analysis and Applications</i> , 2019, 474, 1352-1363.	1.0	10
14	Extended model of impaired cerebral autoregulation in preterm infants: Heuristic feedback control. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 2334-2352.	1.9	1
15	Direct modeling of blood flow through the vascular network of the germinal matrix. <i>Computers in Biology and Medicine</i> , 2018, 92, 147-155.	7.0	16
16	Modeling Cerebral Blood Flow Dependence on Carbon Dioxide and Mean Arterial Blood Pressure in the Immature Brain With Accounting for the Germinal Matrix. <i>Frontiers in Neurology</i> , 2018, 9, 812.	2.4	11
17	The PAMONO-Sensor Enables Quantification of Individual Microvesicles and Estimation of Nanoparticle Size Distribution. <i>Proceedings (mdpi)</i> , 2017, 1, 744.	0.2	0
18	Application of the PAMONO-Sensor for Quantification of Microvesicles and Determination of Nano-Particle Size Distribution. <i>Sensors</i> , 2017, 17, 244.	3.8	23

#	ARTICLE	IF	CITATIONS
19	Computer assisted detection and quantification of single adsorbing nanoparticles by differential surface plasmon microscopy. <i>Mikrochimica Acta</i> , 2016, 183, 101-109.	5.0	31
20	Prediction of bone strength by μ CT and MDCT-based finite-element-models: How much spatial resolution is needed?. <i>European Journal of Radiology</i> , 2014, 83, e36-e42.	2.6	36
21	Scaling relations between trabecular bone volume fraction and microstructure at different skeletal sites. <i>Bone</i> , 2013, 57, 377-383.	2.9	9
22	Application of anisotropic structure measures for the classification of μ -CT images of human trabecular bone. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
23	Similarities and differences in the mass-structure scaling relations of the trabecular bone taken from different locations in the femur. , 2012, , .		0
24	Assessment of global morphological and topological changes in trabecular structure under the bone resorption process. , 2012, , .		0
25	Reproducibility of Trabecular Bone Structure Measurements of the Distal Radius at 1.5 and 3.0 T Magnetic Resonance Imaging. <i>Journal of Computer Assisted Tomography</i> , 2012, 36, 623-626.	0.9	15
26	Simulating Bone Atrophy and Its Effects on the Structure and Stability of the Trabecular Bone. , 2012, , .		1
27	Structure based classification of μ -CT images of human trabecular bone using local Minkowski Functionals. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
28	Scaling relations between bone volume and bone structure as found using 3D μ CT images of the trabecular bone taken from different skeletal sites. , 2010, , .		0
29	Assessing texture measures with respect to their sensitivity to scale-dependent higher order correlations in medical images using surrogates. , 2010, , .		1
30	Advantage of topological texture measures derived from Minkowski functionals (MF) and scaling index method (SIM) in comparison with biomechanical finite elements method (FEM) for the prediction of osteoporosis. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
31	Assessment of the human trabecular bone structure using Minkowski Functionals. <i>Proceedings of SPIE</i> , 2009, , .	0.8	10
32	Role of trabecular microfractures in failure of human vertebrae estimated by the finite element method. , 2009, , .		3
33	Comparing the sensitivity of wavelets, Minkowski functionals, and scaling indices to higher order correlations in MR images of the trabecular bone using surrogates. , 2009, , .		1
34	Comparison and combination of scaling index method and Minkowski functionals in the analysis of high resolution magnetic resonance images of the distal radius in vitro. , 2008, , .		3
35	Studying the effect of noise on the performance of 2D and 3D texture measures for quantifying the trabecular bone structure as obtained with high resolution MR imaging at 3 tesla. , 2008, , .		2
36	The Locally Adapted Scaling Vector Method: A New Tool for Quantifying Anisotropic Structures in Bone Images. , 0, , .		1

#	ARTICLE	IF	CITATIONS
37	Scaling Index Method (SIM): A Novel Technique for Assessment of Local Topological Properties of Porous and Irregular Structures. , 0 , , .		0