

RenÃ©e Lampe

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

289
citations

933447

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40
all docs

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docs citations

40
times ranked

278
citing authors

#	ARTICLE	IF	CITATIONS
1	Model-Based Radiation-Free Assessment of Scoliosis: A Principle Validation Study. Journal of Medical and Biological Engineering, 2022, 42, 107-114.	1.8	2
2	Accounting for arterial and capillary blood gases for calculation of cerebral blood flow in preterm infants. European Journal of Pediatrics, 2022, , 1.	2.7	0
3	Modeling of Cerebral Blood Flow Autoregulation Using Mathematical Control Theory. Mathematics, 2022, 10, 2060.	2.2	3
4	Modeling of the cerebral blood circulation in a capillary network accounting for the influence of the endothelial surface layer. Computer Methods and Programs in Biomedicine, 2022, 224, 107008.	4.7	2
5	Assessment of adolescent idiopathic scoliosis from body scanner image by finite element simulations. PLoS ONE, 2021, 16, e0243736.	2.5	10
6	Non-Stationary Model of Cerebral Oxygen Transport with Unknown Sources. Mathematics, 2021, 9, 910.	2.2	1
7	An inverse problem for equations of cerebral oxygen transport. Applied Mathematics and Computation, 2021, 402, 126154.	2.2	2
8	Modeling the pressure distribution in a spatially averaged cerebral capillary network. Mathematical Control and Related Fields, 2021, 11, 643.	1.1	2
9	Mathematical modeling of the hematocrit influence on cerebral blood flow in preterm infants. PLoS ONE, 2021, 16, e0261819.	2.5	1
10	Automatic analysis method of 3D images in patients with scoliosis by quantifying asymmetry in transverse contours. Biocybernetics and Biomedical Engineering, 2020, 40, 1486-1498.	5.9	8
11	Nonstationary Model of Oxygen Transport in Brain Tissue. Computational and Mathematical Methods in Medicine, 2020, 2020, 1-9.	1.3	8
12	Assessing haemorrhage-critical values of cerebral blood flow by modelling biomechanical stresses on capillaries in the immature brain. Scientific Reports, 2020, 10, 14196.	3.3	1
13	Breath indeed carries significant information about a disease: Potential biomarkers of cerebral palsy. Journal of Biophotonics, 2020, 13, e202000125.	2.3	11
14	Assessing key clinical parameters before and after intraventricular hemorrhage in very preterm infants. European Journal of Pediatrics, 2020, 179, 929-937.	2.7	14
15	Accounting for Tube Hematocrit in Modeling of Blood Flow in Cerebral Capillary Networks. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-10.	1.3	6
16	Postnatal Paraclinical Parameters Associated to Occurrence of Intracerebral Hemorrhage in Preterm Infants. Neuropediatrics, 2019, 50, 103-110.	0.6	3
17	A Noninvasive 3D Body Scanner and Software Tool towards Analysis of Scoliosis. BioMed Research International, 2019, 2019, 1-15.	1.9	12
18	Continuum model of oxygen transport in brain. Journal of Mathematical Analysis and Applications, 2019, 474, 1352-1363.	1.0	10

#	ARTICLE	IF	CITATIONS
19	An iterative algorithm for solving an initial boundary value problem of oxygen transport in brain. , 2019, , .		1
20	Piano jacket for perceiving and playing music for patients with cerebral palsy. Disability and Rehabilitation: Assistive Technology, 2019, 14, 221-225.	2.2	4
21	Direct modeling of blood flow through the vascular network of the germinal matrix. Computers in Biology and Medicine, 2018, 92, 147-155.	7.0	16
22	Mobile communication jacket for people with severe speech impairment. Disability and Rehabilitation: Assistive Technology, 2018, 13, 280-286.	2.2	3
23	Modeling of Muscle Activation from Electromyography Recordings in Patients with Cerebral Palsy. Applied Sciences (Switzerland), 2018, 8, 2345.	2.5	3
24	Modeling Cerebral Blood Flow Dependence on Carbon Dioxide and Mean Arterial Blood Pressure in the Immature Brain With Accounting for the Germinal Matrix. Frontiers in Neurology, 2018, 9, 812.	2.4	11
25	Analysis of a mathematical model of oxygen transport in brain. , 2018, , .		3
26	Characteristics of Lower Leg Muscle Activity in Patients with Cerebral Palsy during Cycling on an Ergometer. BioMed Research International, 2018, 2018, 1-8.	1.9	5
27	Development of congenital clubfoot during growth: a long-term study on the basis of pedobarography, biomechanics, and magnetic resonance imaging measurements of muscle volumes. Journal of Pediatric Orthopaedics Part B, 2017, 26, 122-132.	0.6	6
28	Implicit Learning of a Finger Motor Sequence by Patients with Cerebral Palsy After Neurofeedback. Applied Psychophysiology Biofeedback, 2017, 42, 27-37.	1.7	8
29	Modeling Autoregulation of Cerebral Blood Flow Using Viability Approach. Annals of the International Society of Dynamic Games, 2017, , 345-363.	0.3	1
30	Altered lower leg muscle activation patterns in patients with cerebral palsy during cycling on an ergometer. Neuropsychiatric Disease and Treatment, 2016, 12, 1445.	2.2	9
31	The Case for Musical Instrument Training in Cerebral Palsy for Neurorehabilitation. Neural Plasticity, 2016, 2016, 1-9.	2.2	16
32	Sensorimotor Piano System for People with Disabilities. Journal of Sensors, 2016, 2016, 1-7.	1.1	2
33	Piano training in youths with hand motor impairments after damage to the developing brain. Neuropsychiatric Disease and Treatment, 2015, 11, 1929.	2.2	19
34	Sensory Feedback Training for Improvement of Finger Perception in Cerebral Palsy. Rehabilitation Research and Practice, 2015, 2015, 1-7.	0.6	4
35	fMRI assessment of neuroplasticity in youths with neurodevelopmental-associated motor disorders after piano training. European Journal of Paediatric Neurology, 2015, 19, 15-28.	1.6	25
36	Lung vital capacity and oxygen saturation in adults with cerebral palsy. Patient Preference and Adherence, 2014, 8, 1691.	1.8	14

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37	Optimization of electric bicycle for youths with disabilities. SpringerPlus, 2014, 3, 646.	1.2	13
38	Mathematical Modelling of Cerebral Blood Circulation and Cerebral Autoregulation: Towards Preventing Intracranial Hemorrhages in Preterm Newborns. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-9.	1.3	21
39	Plantar pressure distribution during and after pregnancy. European Orthopaedics and Traumatology, 2013, 4, 229-236.	0.1	8
40	Towards simulation of germinal matrix hemorrhage as a complication of premature birth. Open Journal of Obstetrics and Gynecology, 2013, 03, 61-63.	0.2	1