

# RenÃ©e Lampe

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

289  
citations

933447

10  
h-index

1058476

14  
g-index

40  
all docs

40  
docs citations

40  
times ranked

278  
citing authors

#	ARTICLE	IF	CITATIONS
1	fMRI assessment of neuroplasticity in youths with neurodevelopmental-associated motor disorders after piano training. <i>European Journal of Paediatric Neurology</i> , 2015, 19, 15-28.	1.6	25
2	Mathematical Modelling of Cerebral Blood Circulation and Cerebral Autoregulation: Towards Preventing Intracranial Hemorrhages in Preterm Newborns. <i>Computational and Mathematical Methods in Medicine</i> , 2014, 2014, 1-9.	1.3	21
3	Piano training in youths with hand motor impairments after damage to the developing brain. <i>Neuropsychiatric Disease and Treatment</i> , 2015, 11, 1929.	2.2	19
4	The Case for Musical Instrument Training in Cerebral Palsy for Neurorehabilitation. <i>Neural Plasticity</i> , 2016, 2016, 1-9.	2.2	16
5	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
6	Lung vital capacity and oxygen saturation in&nbsp;adults&nbsp;with cerebral palsy. <i>Patient Preference and Adherence</i> , 2014, 8, 1691.	1.8	14
7	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
8	Optimization of electric bicycle for youths with disabilities. <i>SpringerPlus</i> , 2014, 3, 646.	1.2	13
9	A Noninvasive 3D Body Scanner and Software Tool towards Analysis of Scoliosis. <i>BioMed Research International</i> , 2019, 2019, 1-15.	1.9	12
10	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
11	Breath indeed carries significant information about a disease: Potential biomarkers of cerebral palsy. <i>Journal of Biophotonics</i> , 2020, 13, e202000125.	2.3	11
12	Continuum model of oxygen transport in brain. <i>Journal of Mathematical Analysis and Applications</i> , 2019, 474, 1352-1363.	1.0	10
13	Assessment of adolescent idiopathic scoliosis from body scanner image by finite element simulations. <i>PLoS ONE</i> , 2021, 16, e0243736.	2.5	10
14	Altered lower leg muscle activation patterns in patients with cerebral palsy during cycling on an ergometer. <i>Neuropsychiatric Disease and Treatment</i> , 2016, 12, 1445.	2.2	9
15	Plantar pressure distribution during and after pregnancy. <i>European Orthopaedics and Traumatology</i> , 2013, 4, 229-236.	0.1	8
16	Implicit Learning of a Finger Motor Sequence by Patients with Cerebral Palsy After Neurofeedback. <i>Applied Psychophysiology Biofeedback</i> , 2017, 42, 27-37.	1.7	8
17	Automatic analysis method of 3D images in patients with scoliosis by quantifying asymmetry in transverse contours. <i>Biocybernetics and Biomedical Engineering</i> , 2020, 40, 1486-1498.	5.9	8
18	Nonstationary Model of Oxygen Transport in Brain Tissue. <i>Computational and Mathematical Methods in Medicine</i> , 2020, 2020, 1-9.	1.3	8

#	ARTICLE	IF	CITATIONS
19	Development of congenital clubfoot during growth: a long-term study on the basis of pedobarography, biomechanics, and magnetic resonance imaging measurements of muscle volumes. <i>Journal of Pediatric Orthopaedics Part B</i> , 2017, 26, 122-132.	0.6	6
20	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
21	Characteristics of Lower Leg Muscle Activity in Patients with Cerebral Palsy during Cycling on an Ergometer. <i>BioMed Research International</i> , 2018, 2018, 1-8.	1.9	5
22	Sensory Feedback Training for Improvement of Finger Perception in Cerebral Palsy. <i>Rehabilitation Research and Practice</i> , 2015, 2015, 1-7.	0.6	4
23	Piano jacket for perceiving and playing music for patients with cerebral palsy. <i>Disability and Rehabilitation: Assistive Technology</i> , 2019, 14, 221-225.	2.2	4
24	Mobile communication jacket for people with severe speech impairment. <i>Disability and Rehabilitation: Assistive Technology</i> , 2018, 13, 280-286.	2.2	3
25	Modeling of Muscle Activation from Electromyography Recordings in Patients with Cerebral Palsy. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2345.	2.5	3
26	Analysis of a mathematical model of oxygen transport in brain. , 2018, , .		3
27	Postnatal Paraclinical Parameters Associated to Occurrence of Intracerebral Hemorrhage in Preterm Infants. <i>Neuropediatrics</i> , 2019, 50, 103-110.	0.6	3
28	Modeling of Cerebral Blood Flow Autoregulation Using Mathematical Control Theory. <i>Mathematics</i> , 2022, 10, 2060.	2.2	3
29	Sensorimotor Piano System for People with Disabilities. <i>Journal of Sensors</i> , 2016, 2016, 1-7.	1.1	2
30	An inverse problem for equations of cerebral oxygen transport. <i>Applied Mathematics and Computation</i> , 2021, 402, 126154.	2.2	2
31	Modeling the pressure distribution in a spatially averaged cerebral capillary network. <i>Mathematical Control and Related Fields</i> , 2021, 11, 643.	1.1	2
32	Model-Based Radiation-Free Assessment of Scoliosis: A Principle Validation Study. <i>Journal of Medical and Biological Engineering</i> , 2022, 42, 107-114.	1.8	2
33	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
34	An iterative algorithm for solving an initial boundary value problem of oxygen transport in brain. , 2019, , .		1
35	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
36	Non-Stationary Model of Cerebral Oxygen Transport with Unknown Sources. <i>Mathematics</i> , 2021, 9, 910.	2.2	1

#	ARTICLE	IF	CITATIONS
37	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
38	Modeling Autoregulation of Cerebral Blood Flow Using Viability Approach. Annals of the International Society of Dynamic Games, 2017, , 345-363.	0.3	1
39	Mathematical modeling of the hematocrit influence on cerebral blood flow in preterm infants. PLoS ONE, 2021, 16, e0261819.	2.5	1
40	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