Natasha Lepore

List of Publications by Year
in descending order

53 papers	437 citations	933447 10 h-index	839539 18 g-index
53 all docs	53 docs citations	53 times ranked	929 citing authors

#	Article	IF	Citations
1	Fiber estimation and tractography in diffusion MRI: Development of simulated brain images and comparison of multi-fiber analysis methods at clinical b-values. NeuroImage, 2015, 109, 341-356.	4.2	85
2	Mapping the basal ganglia alterations in children chronically exposed to manganese. Scientific Reports, 2017, 7, 41804.	3.3	34
3	A Multivariate Surface-Based Analysis of the Putamen in Premature Newborns: Regional Differences within the Ventral Striatum. PLoS ONE, 2013, 8, e66736.	2.5	33
4	White matter has impaired resting oxygen delivery in sickle cell patients. American Journal of Hematology, 2019, 94, 467-474.	4.1	31
5	Thalamic alterations in preterm neonates and their relation to ventral striatum disturbances revealed by a combined shape and pose analysis. Brain Structure and Function, 2016, 221, 487-506.	2.3	28
6	Feature selective temporal prediction of Alzheimer's disease progression using hippocampus surface morphometry. Brain and Behavior, 2017, 7, e00733.	2.2	20
7	A study of brain white matter plasticity in early blinds using tract-based spatial statistics and tract statistical analysis. NeuroReport, 2015, 26, 1151-1154.	1.2	16
8	Impact of Early and Late Visual Deprivation on the Structure of the Corpus Callosum: A Study Combining Thickness Profile with Surface Tensor-Based Morphometry. Neuroinformatics, 2015, 13, 321-336.	2.8	15
9	MRI Restoration Using Edge-Guided Adversarial Learning. IEEE Access, 2020, 8, 83858-83870.	4.2	15
10	A T1 and DTI fused 3D corpus callosum analysis in pre- vs. post-season contact sports players. Proceedings of SPIE, 2015, 9287, .	0.8	11
11	Orchestral fully convolutional networks for small lesion segmentation in brain MRI. , 2018, 2018, 889-892.		11
12	A T1 and DTI fused 3D corpus callosum analysis in MCI subjects with high and low cardiovascular risk profile. NeuroImage: Clinical, 2017, 14, 298-307.	2.7	10
13	Graph Lasso-Based Test for Evaluating Functional Brain Connectivity in Sickle Cell Disease. Brain Connectivity, 2017, 7, 443-453.	1.7	10
14	A Tetrahedron-Based Heat Flux Signature for Cortical Thickness Morphometry Analysis. Lecture Notes in Computer Science, 2018, 11072, 420-428.	1.3	9
15	Integrating Convolutional Neural Networks and Multi-Task Dictionary Learning for Cognitive Decline Prediction with Longitudinal Images. Journal of Alzheimer's Disease, 2020, 75, 971-992.	2.6	9
16	Image Postprocessing Adoption Trends in Clinical Medical Imaging. Journal of the American College of Radiology, 2019, 16, 945-951.	1.8	7
17	Neurocranium thickness mapping in early childhood. Scientific Reports, 2020, 10, 16651.	3.3	7
18	Tract€specific analysis and neurocognitive functioning in sickle cell patients without history of overt stroke. Brain and Behavior, 2021, 11, e01978.	2.2	7

#	ARTICLE	IF	CITATIONS
19	Transient Hypoxia Model Revealed Cerebrovascular Impairment in Anemia Using <scp>BOLD MRI</scp> and <scp>Near‐Infrared</scp> Spectroscopy. Journal of Magnetic Resonance Imaging, 2020, 52, 1400-1412.	3.4	6
20	Federated Morphometry Feature Selection for Hippocampal Morphometry Associated Beta-Amyloid and Tau Pathology. Frontiers in Neuroscience, 2021, 15, 762458.	2.8	5
21	Mapping of ApoE4 related white matter damage using diffusion MRI. Proceedings of SPIE, 2014, 9039, 90390H.	0.8	4
22	Tract specific analysis in patients with sickle cell disease. Proceedings of SPIE, 2015, 9681, .	0.8	4
23	Functional connectivity analysis for thalassemia disease based on a graphical lasso model. , 2016, 2016, 1295-1298.		4
24	Putamen development in children 12 to 21 months old. Proceedings of SPIE, 2017, 10160, .	0.8	4
25	Extending PACS functionality: towards facilitating the conversion of clinical necessities into research-derived applications. , 2017, 10160, .		4
26	Brain biomarkers and neuropsychological outcomes of pediatric posterior fossa brain tumor survivors treated with surgical resection with or without adjuvant chemotherapy. Pediatric Blood and Cancer, 2021, 68, e28817.	1.5	4
27	Statistical Analysis of Relative Pose of the Thalamus in Preterm Neonates. Lecture Notes in Computer Science, 2014, 8361, 1-9.	1.3	4
28	Patch-based surface morphometry feature selection with federated group lasso regression. , 2020, 11583, .		4
29	Radiation-free quantification of head malformations in craniosynostosis patients from 3D photography. , 2018, 10575, .		4
30	Cerebral blood flow and predictors of white matter lesions in adults with Tetralogy of Fallot. , 2018, 2018, 1309-1312.		3
31	Fetal neurodevelopmental recovery in donors after laser surgery for twin‐twin transfusion syndrome. Prenatal Diagnosis, 2021, 41, 190-199.	2.3	3
32	Quantitative evaluation of local head malformations from 3 dimensional photography: application to craniosynostosis. , 2019, 10950, .		3
33	Morphometric Gaussian process for landmarking on grey matter tetrahedral models. , 2020, 11330, .		3
34	Surface fluid registration and multivariate tensor-based morphometry in newborns - the effects of prematurity on the putamen. , 2012, 2012, .		3
35	Evaluating the predictive power of multivariate tensor-based morphometry in Alzheimer's disease progression via convex fused sparse group Lasso. Proceedings of SPIE, 2014, 9034, 90342L.	0.8	2
36	Discriminating lung adenocarcinoma from lung squamous cell carcinoma using respiration-induced tumor shape changes. Physics in Medicine and Biology, 2018, 63, 215027.	3.0	2

#	Article	IF	Citations
37	Developmental changes of the central sulcus morphology in young children. Brain Structure and Function, 2021, 226, 1841-1853.	2.3	2
38	Effect of Data Acquisition and Analysis Method on Fiber Orientation Estimation in Diffusion MRI. Mathematics and Visualization, 2014, 2013, 13-24.	0.6	2
39	Multidimensional Interactive Radiology Report and Analysis: standardization of workflow and reporting for renal mass tracking and quantification. , 2015, 9681, .		1
40	Changes in neurocranium thickness in early childhood. , 2015, , .		1
41	Abnormal ventricular development in preterm neonates with visually normal MRIs. Proceedings of SPIE, 2015, 9681, .	0.8	1
42	An experimental investigation of labeling efficiency for pseudo-continuous arterial spin labeling. , 2016, , .		1
43	Contribution to speech development of the right anterior putamen revealed with multivariate tensor-based morphometry. , 2017, 2017, 3085-3087.		1
44	EdgeRunner: a novel shape-based pipeline for tumours analysis and characterisation. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 84-92.	1.9	1
45	Down syndrome with co-occurring Marfan syndrome. BMJ Case Reports, 2020, 13, e235988.	0.5	1
46	A Univariate Persistent Brain Network Feature Based on the Aggregated Cost of Cycles from the Nested Filtration Networks. , 2020, 2020, .		1
47	Cranial thickness changes in early childhood. , 2017, 10572, .		1
48	The power of hybrid / fusion imaging metrics in future PACS systems: a case study into the white matter hyperintensity prenumbra using FLAIR and diffusion MR. Proceedings of SPIE, 2014, 9039, 90390I.	0.8	0
49	Multivariate surface-based analysis of corpus callosum in patients with sickle cell disease. , 2017, 10160, .		0
50	Structural neuroimaging. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 174, 251-264.	1.8	0
51	Bayesian automated cortical segmentation for neonatal MRI. , 2017, 10572, .		0
52	NCOG-72. DIFFERENTIAL EFFECTS OF SURGERY AND CHEMOTHERAPY ON CHILDREN WITH POSTERIOR FOSSA BRAIN TUMORS. Neuro-Oncology, 2020, 22, ii145-ii145.	1.2	0
53	Altered hippocampal morphometry in infants born very preterm. , 2021, , .		0