

Karen Caeyenberghs

List of Publications by Year in descending order

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Version: 2024-02-01

124
papers

5,290
citations

71102

41
h-index

114465

63
g-index

131
all docs

131
docs citations

131
times ranked

8089
citing authors

#	ARTICLE	IF	CITATIONS
1	ENIGMA and global neuroscience: A decade of large-scale studies of the brain in health and disease across more than 40 countries. <i>Translational Psychiatry</i> , 2020, 10, 100.	4.8	365
2	Brain networks under attack: robustness properties and the impact of lesions. <i>Brain</i> , 2016, 139, 3063-3083.	7.6	244
3	Cognitive and neuroimaging findings in developmental coordination disorder: new insights from a systematic review of recent research. <i>Developmental Medicine and Child Neurology</i> , 2017, 59, 1117-1129.	2.1	156
4	Altered structural networks and executive deficits in traumatic brain injury patients. <i>Brain Structure and Function</i> , 2014, 219, 193-209.	2.3	143
5	What do randomized controlled trials say about virtual rehabilitation in stroke? A systematic literature review and meta-analysis of upper-limb and cognitive outcomes. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 29.	4.6	138
6	Overcoming the effects of false positives and threshold bias in graph theoretical analyses of neuroimaging data. <i>NeuroImage</i> , 2015, 118, 313-333.	4.2	131
7	Disruption of cerebral networks and cognitive impairment in Alzheimer disease. <i>Neurology</i> , 2013, 80, 1370-1377.	1.1	125
8	Graph analysis of functional brain networks for cognitive control of action in traumatic brain injury. <i>Brain</i> , 2012, 135, 1293-1307.	7.6	117
9	Fixel-based Analysis of Diffusion MRI: Methods, Applications, Challenges and Opportunities. <i>NeuroImage</i> , 2021, 241, 118417.	4.2	117
10	Task complexity and location specific changes of cortical thickness in executive and salience networks after working memory training. <i>NeuroImage</i> , 2016, 130, 48-62.	4.2	105
11	Motor Imagery Development in Primary School Children. <i>Developmental Neuropsychology</i> , 2009, 34, 103-121.	1.4	98
12	Neural underpinnings of impaired predictive motor timing in children with Developmental Coordination Disorder. <i>Research in Developmental Disabilities</i> , 2013, 34, 1478-1487.	2.2	93
13	Mapping the functional connectome in traumatic brain injury: What can graph metrics tell us?. <i>NeuroImage</i> , 2017, 160, 113-123.	4.2	93
14	Relations Between Brain Alterations and Clinical Pain Measures in Chronic Musculoskeletal Pain: A Systematic Review. <i>Journal of Pain</i> , 2016, 17, 949-962.	1.4	91
15	Longitudinal assessment of chemotherapy-induced changes in brain and cognitive functioning: A systematic review. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 92, 304-317.	6.1	91
16	Brain-behavior relationships in young traumatic brain injury patients: DTI metrics are highly correlated with postural control. <i>Human Brain Mapping</i> , 2010, 31, 992-1002.	3.6	87
17	Brain connectivity and postural control in young traumatic brain injury patients: A diffusion MRI based network analysis. <i>NeuroImage: Clinical</i> , 2012, 1, 106-115.	2.7	84
18	Dynamics of the Human Structural Connectome Underlying Working Memory Training. <i>Journal of Neuroscience</i> , 2016, 36, 4056-4066.	3.6	82

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19	Gray Matter Abnormalities in Idiopathic Parkinson's Disease: Evaluation by Diffusional Kurtosis Imaging and Neurite Orientation Dispersion and Density Imaging. <i>Human Brain Mapping</i> , 2017, 38, 3704-3722.	3.6	78
20	Topological correlations of structural and functional networks in patients with traumatic brain injury. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 726.	2.0	77
21	Hemispheric lateralization of topological organization in structural brain networks. <i>Human Brain Mapping</i> , 2014, 35, 4944-4957.	3.6	77
22	Brain-behavior relationships in young traumatic brain injury patients: Fractional anisotropy measures are highly correlated with dynamic visuomotor tracking performance. <i>Neuropsychologia</i> , 2010, 48, 1472-1482.	1.6	72
23	Schizophrenia-like topological changes in the structural connectome of individuals with subclinical psychotic experiences. <i>Human Brain Mapping</i> , 2015, 36, 2629-2643.	3.6	66
24	Motor learning-induced changes in functional brain connectivity as revealed by means of graph-theoretical network analysis. <i>NeuroImage</i> , 2012, 61, 633-650.	4.2	65
25	Bimanual motor deficits in older adults predicted by diffusion tensor imaging metrics of corpus callosum subregions. <i>Brain Structure and Function</i> , 2015, 220, 273-290.	2.3	64
26	Increasing convergence between imagined and executed movement across development: evidence for the emergence of movement representations. <i>Developmental Science</i> , 2009, 12, 474-483.	2.4	63
27	Subcortical volume analysis in traumatic brain injury: The importance of the fronto-striato-thalamic circuit in task switching. <i>Cortex</i> , 2014, 51, 67-81.	2.4	62
28	Dynamics of White Matter Plasticity Underlying Working Memory Training: Multimodal Evidence from Diffusion MRI and Relaxometry. <i>Journal of Cognitive Neuroscience</i> , 2017, 29, 1509-1520.	2.3	61
29	Motor imagery training enhances motor skill in children with DCD: A replication study. <i>Research in Developmental Disabilities</i> , 2016, 57, 54-62.	2.2	59
30	Bimanual Coordination and Corpus Callosum Microstructure in Young Adults with Traumatic Brain Injury: A Diffusion Tensor Imaging Study. <i>Journal of Neurotrauma</i> , 2011, 28, 897-913.	3.4	58
31	Diffusion tensor imaging metrics of the corpus callosum in relation to bimanual coordination: Effect of task complexity and sensory feedback. <i>Human Brain Mapping</i> , 2013, 34, 241-252.	3.6	57
32	Hyperconnectivity in juvenile myoclonic epilepsy: A network analysis. <i>NeuroImage: Clinical</i> , 2015, 7, 98-104.	2.7	56
33	Correlations Between White Matter Integrity and Motor Function in Traumatic Brain Injury Patients. <i>Neurorehabilitation and Neural Repair</i> , 2011, 25, 492-502.	2.9	55
34	The structural connectome in traumatic brain injury: A meta-analysis of graph metrics. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 99, 128-137.	6.1	54
35	Neural signature of developmental coordination disorder in the structural connectome independent of comorbid autism. <i>Developmental Science</i> , 2016, 19, 599-612.	2.4	52
36	Microstructural organization of corpus callosum projections to prefrontal cortex predicts bimanual motor learning. <i>Learning and Memory</i> , 2012, 19, 351-357.	1.3	51

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37	Training-induced improvements in postural control are accompanied by alterations in cerebellar white matter in brain injured patients. <i>NeuroImage: Clinical</i> , 2015, 7, 240-251.	2.7	50
38	Differential activation of brain areas in children with developmental coordination disorder during tasks of manual dexterity: An ALE meta-analysis. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 86, 77-84.	6.1	50
39	Resting-State Functional Connectivity of the Sensorimotor Network in Individuals with Nonspecific Low Back Pain and the Association with the Sit-to-Stand-to-Sit Task. <i>Brain Connectivity</i> , 2015, 5, 303-311.	1.7	49
40	Neural correlates of motor dysfunction in children with traumatic brain injury: exploration of compensatory recruitment patterns. <i>Brain</i> , 2009, 132, 684-694.	7.6	46
41	Testing Multiple Coordination Constraints with a Novel Bimanual Visuomotor Task. <i>PLoS ONE</i> , 2011, 6, e23619.	2.5	46
42	Brain Connectomics of Visual-Motor Deficits in Children with Developmental Coordination Disorder. <i>Journal of Pediatrics</i> , 2016, 169, 21-27.e2.	1.8	46
43	Bimanual Motor Coordination in Older Adults Is Associated with Increased Functional Brain Connectivity – A Graph-Theoretical Analysis. <i>PLoS ONE</i> , 2013, 8, e62133.	2.5	43
44	Disturbed cortico-subcortical interactions during motor task switching in traumatic brain injury. <i>Human Brain Mapping</i> , 2013, 34, 1254-1271.	3.6	39
45	Abnormal wiring of the connectome in adults with high-functioning autism spectrum disorder. <i>Molecular Autism</i> , 2015, 6, 65.	4.9	38
46	The Vulnerability to Suicidal Behavior is Associated with Reduced Connectivity Strength. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 632.	2.0	38
47	Evidence for Training-Dependent Structural Neuroplasticity in Brain-Injured Patients: A Critical Review. <i>Neurorehabilitation and Neural Repair</i> , 2018, 32, 99-114.	2.9	35
48	Task switching in traumatic brain injury relates to cortico-subcortical integrity. <i>Human Brain Mapping</i> , 2014, 35, 2459-2469.	3.6	34
49	Longitudinal Neuroimaging in Pediatric Traumatic Brain Injury: Current State and Consideration of Factors That Influence Recovery. <i>Frontiers in Neurology</i> , 2019, 10, 1296.	2.4	34
50	Impaired rich club and increased local connectivity in children with traumatic brain injury: Local support for the rich?. <i>Human Brain Mapping</i> , 2018, 39, 2800-2811.	3.6	33
51	Association Between Sensorimotor Impairments and Functional Brain Changes in Patients With Low Back Pain. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2018, 97, 200-211.	1.4	33
52	<scp>ENIGMA</scp> brain injury: Framework, challenges, and opportunities. <i>Human Brain Mapping</i> , 2022, 43, 149-166.	3.6	33
53	Microstructural Integrity of the Superior Cerebellar Peduncle Is Associated with an Impaired Proprioceptive Weighting Capacity in Individuals with Non-Specific Low Back Pain. <i>PLoS ONE</i> , 2014, 9, e100666.	2.5	32
54	Whole-brain structural topology in adult attention-deficit/hyperactivity disorder: Preserved global – disturbed local network organization. <i>NeuroImage: Clinical</i> , 2015, 9, 506-512.	2.7	31

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55	Regional volumes in brain stem and cerebellum are associated with postural impairments in young brain-injured patients. <i>Human Brain Mapping</i> , 2015, 36, 4897-4909.	3.6	31
56	Differences in white matter structure and cortical thickness between patients with traumatic and idiopathic chronic neck pain: Associations with cognition and pain modulation?. <i>Human Brain Mapping</i> , 2018, 39, 1721-1742.	3.6	31
57	Development of Feedforward Control in a Dynamic Manual Tracking Task. <i>Child Development</i> , 2008, 79, 852-865.	3.0	30
58	The Motor Profile of Primary School-Age Children with a 22q11.2 Deletion Syndrome (22q11.2DS) and an Age- and IQ-Matched Control Group. <i>Child Neuropsychology</i> , 2009, 15, 532-542.	1.3	30
59	Coupling of online control and inhibitory systems in children with atypical motor development: A growth curve modelling study. <i>Brain and Cognition</i> , 2016, 109, 84-95.	1.8	30
60	Network diffusion modeling predicts neurodegeneration in traumatic brain injury. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 270-279.	3.7	29
61	Coupling online control and inhibitory systems in children with Developmental Coordination Disorder: Goal-directed reaching. <i>Research in Developmental Disabilities</i> , 2015, 36, 244-255.	2.2	28
62	Deficits in executed and imagined aiming performance in brain-injured children. <i>Brain and Cognition</i> , 2009, 69, 154-161.	1.8	27
63	How to Train an Injured Brain? A Pilot Feasibility Study of Home-Based Computerized Cognitive Training. <i>Games for Health Journal</i> , 2017, 6, 28-38.	2.0	27
64	Toward a Hybrid Model of Developmental Coordination Disorder. <i>Current Developmental Disorders Reports</i> , 2017, 4, 64-71.	2.1	26
65	Functional Connectivity Density and Balance in Young Patients with Traumatic Axonal Injury. <i>Brain Connectivity</i> , 2015, 5, 423-432.	1.7	25
66	Dynamic changes in hippocampal diffusion and kurtosis metrics following experimental mTBI correlate with glial reactivity. <i>NeuroImage: Clinical</i> , 2019, 21, 101669.	2.7	25
67	Keeping an eye on imagery: the role of eye movements during motor imagery training. <i>Neuroscience</i> , 2011, 195, 37-44.	2.3	24
68	Reduced motor competence in children with obesity is associated with structural differences in the cerebellar peduncles. <i>Brain Imaging and Behavior</i> , 2018, 12, 1000-1010.	2.1	24
69	Cognitive Training in Young Patients With Traumatic Brain Injury: A Fixel-Based Analysis. <i>Neurorehabilitation and Neural Repair</i> , 2019, 33, 813-824.	2.9	24
70	Dynamics of the connectome in Huntington's disease: A longitudinal diffusion MRI study. <i>NeuroImage: Clinical</i> , 2015, 9, 32-43.	2.7	23
71	Revealing hot executive function in children with motor coordination problems: What's the go?. <i>Brain and Cognition</i> , 2016, 106, 55-64.	1.8	23
72	Navigating the link between processing speed and network communication in the human brain. <i>Brain Structure and Function</i> , 2021, 226, 1281-1302.	2.3	23

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73	Prospective control abilities during visuo-manual tracking in children with 22q11.2 Deletion syndrome compared to age- and IQ-matched controls. <i>Research in Developmental Disabilities</i> , 2010, 31, 634-641.	2.2	22
74	Associations between brain morphology and motor performance in chronic neck pain: A whole-brain surface-based morphometry approach. <i>Human Brain Mapping</i> , 2019, 40, 4266-4278.	3.6	21
75	Differences in brain processing of proprioception related to postural control in patients with recurrent non-specific low back pain and healthy controls. <i>NeuroImage: Clinical</i> , 2019, 23, 101881.	2.7	21
76	Associations between Muscle Strength Asymmetry and Impairments in Gait and Posture in Young Brain-Injured Patients. <i>Journal of Neurotrauma</i> , 2015, 32, 1324-1332.	3.4	20
77	Accelerated intermittent theta burst stimulation in major depression induces decreases in modularity: A connectome analysis. <i>Network Neuroscience</i> , 2019, 3, 157-172.	2.6	20
78	What is the Nature of Motor Impairments in Autism, Are They Diagnostically Useful, and What Are the Implications for Intervention?. <i>Current Developmental Disorders Reports</i> , 2017, 4, 19-27.	2.1	19
79	Do Active Video Games Improve Motor Function in People With Developmental Disabilities? A Meta-analysis of Randomized Controlled Trials. <i>Archives of Physical Medicine and Rehabilitation</i> , 2019, 100, 769-781.	0.9	19
80	Role of Motor Competence and Executive Functioning in Weight Loss: A Study in Children with Obesity. <i>Journal of Developmental and Behavioral Pediatrics</i> , 2018, 39, 642-651.	1.1	18
81	Hub disruption in patients with chronic neck pain: a graph analytical approach. <i>Pain</i> , 2020, 161, 729-741.	4.2	18
82	White matter organization in relation to upper limb motor control in healthy subjects: exploring the added value of diffusion kurtosis imaging. <i>Brain Structure and Function</i> , 2014, 219, 1627-1638.	2.3	17
83	Test-Retest Reliability and Concurrent Validity of an fMRI-Compatible Pneumatic Vibrator to Stimulate Muscle Proprioceptors. <i>Multisensory Research</i> , 2016, 29, 465-492.	1.1	17
84	Regional Gray Matter Volume Loss Is Associated with Gait Impairments in Young Brain-Injured Individuals. <i>Journal of Neurotrauma</i> , 2017, 34, 1022-1034.	3.4	17
85	Impulsivity and body fat accumulation are linked to cortical and subcortical brain volumes among adolescents and adults. <i>Scientific Reports</i> , 2019, 9, 2580.	3.3	17
86	Integrating New Technologies into the Treatment of CP and DCD. <i>Current Developmental Disorders Reports</i> , 2016, 3, 138-151.	2.1	16
87	White matter organization in developmental coordination disorder: A pilot study exploring the added value of constrained spherical deconvolution. <i>NeuroImage: Clinical</i> , 2019, 21, 101625.	2.7	16
88	Weight loss, behavioral change, and structural neuroplasticity in children with obesity through a multidisciplinary treatment program. <i>Human Brain Mapping</i> , 2019, 40, 137-150.	3.6	16
89	The Impact of Traumatic Injury to the Immature Human Brain: A Scoping Review with Insights from Advanced Structural Neuroimaging. <i>Journal of Neurotrauma</i> , 2020, 37, 724-738.	3.4	16
90	Toward a global and reproducible science for brain imaging in neurotrauma: the ENIGMA adult moderate/severe traumatic brain injury working group. <i>Brain Imaging and Behavior</i> , 2021, 15, 526-554.	2.1	16

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91	Resonance: An Interactive Tabletop Artwork for Co-located Group Rehabilitation and Play. Lecture Notes in Computer Science, 2015, , 420-431.	1.3	16
92	Indirect frontocingulate structural connectivity predicts clinical response to accelerated rTMS in major depressive disorder. Journal of Psychiatry and Neuroscience, 2020, 45, 243-252.	2.4	15
93	White Matter Disruption in Pediatric Traumatic Brain Injury. Neurology, 2021, 97, .	1.1	14
94	Static and Dynamic Visuomotor Task Performance in Children With Acquired Brain Injury. Journal of Head Trauma Rehabilitation, 2009, 24, 363-373.	1.7	13
95	Alterations in brain white matter contributing to age-related slowing of task switching performance: The role of radial diffusivity and magnetization transfer ratio. Human Brain Mapping, 2016, 37, 4084-4098.	3.6	12
96	Associations between Measures of Structural Morphometry and Sensorimotor Performance in Individuals with Nonspecific Low Back Pain. American Journal of Neuroradiology, 2017, 38, 183-191.	2.4	12
97	Longitudinal voxel-based analysis reveals restoration of white matter alterations following balance training in young brain-injured patients. NeuroImage: Clinical, 2021, 30, 102621.	2.7	12
98	Multivariate neurocognitive and emotional profile of a mannosidosis murine model for therapy assessment. Neurobiology of Disease, 2006, 23, 422-432.	4.4	11
99	Structural Brain Connectivity and the Sit-to-Stand-to-Sit Performance in Individuals with Nonspecific Low Back Pain: A Diffusion Magnetic Resonance Imaging-Based Network Analysis. Brain Connectivity, 2016, 6, 795-803.	1.7	11
100	Structural connectivity and weight loss in children with obesity: a study of the "connectobese". International Journal of Obesity, 2019, 43, 2309-2321.	3.4	11
101	Is diffuse axonal injury on susceptibility weighted imaging a biomarker for executive functioning in adolescents with traumatic brain injury?. European Journal of Paediatric Neurology, 2019, 23, 525-536.	1.6	11
102	Decreased Regional Grey Matter Volume in Women with Chronic Whiplash-Associated Disorders: Relationships with Cognitive Deficits and Disturbed Pain Processing. Pain Physician, 2017, 20, E1025-E1051.	0.4	11
103	Associations of cardiorespiratory fitness and exercise with brain white matter in healthy adults: A systematic review and meta-analysis. Brain Imaging and Behavior, 2022, 16, 2402-2425.	2.1	11
104	Cognitive training benefit depends on brain injury location in adolescents with traumatic brain injury: a pilot study. European Journal of Physical and Rehabilitation Medicine, 2019, 55, 585-594.	2.2	10
105	Exploratory relationships between cognitive improvements and training induced plasticity in hippocampus and cingulum in a rat model of mild traumatic brain injury: a diffusion MRI study. Brain Imaging and Behavior, 2020, 14, 2281-2294.	2.1	10
106	International Mind, Activities and Urban Places (iMAP) study: methods of a cohort study on environmental and lifestyle influences on brain and cognitive health. BMJ Open, 2020, 10, e036607.	1.9	9
107	Repetitive transcranial magnetic stimulation (rTMS) in autism spectrum disorder: protocol for a multicentre randomised controlled clinical trial. BMJ Open, 2021, 11, e046830.	1.9	9
108	Deficient motor timing in children with neurofibromatosis type 1. Research in Developmental Disabilities, 2014, 35, 3131-3138.	2.2	8

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109	Focal application of accelerated iTBS results in global changes in graph measures. <i>Human Brain Mapping</i> , 2019, 40, 432-450.	3.6	8
110	Challenges and opportunities for neuroimaging in young patients with traumatic brain injury: a coordinated effort towards advancing discovery from the ENIGMA pediatric moderate/severe TBI group. <i>Brain Imaging and Behavior</i> , 2021, 15, 555-575.	2.1	8
111	Kinematic movement strategies in primary school children with 22q11.2 Deletion Syndrome compared to age- and IQ-matched controls during visuo-manual tracking. <i>Research in Developmental Disabilities</i> , 2010, 31, 768-776.	2.2	7
112	Does <i>fMRI</i> repetition suppression reveal mirror neuron activity in the human brain? Insights from univariate and multivariate analysis. <i>European Journal of Neuroscience</i> , 2019, 50, 2877-2892.	2.6	7
113	Children with a learning disorder show prospective control impairments during visuomanual tracking. <i>Research in Developmental Disabilities</i> , 2010, 31, 195-202.	2.2	5
114	The association between mental rotation capacity and motor impairment in children with obesity – an exploratory study. <i>PeerJ</i> , 2019, 7, e8150.	2.0	5
115	Is Traumatic and Non-Traumatic Neck Pain Associated with Brain Alterations? - A Systematic Review. <i>Pain Physician</i> , 2017, 20, 245-260.	0.4	5
116	Apolipoprotein E4 Mediates the Association Between Midlife Dyslipidemia and Cerebral Amyloid in Aging Women. <i>Journal of Alzheimer's Disease</i> , 2019, 68, 105-114.	2.6	4
117	Individual differences in attentional lapses are associated with fiber-specific white matter microstructure in healthy adults. <i>Psychophysiology</i> , 2021, 58, e13871.	2.4	4
118	Mapping cognitive deficits in cancer patients after chemotherapy: An Activation Likelihood Estimation meta-analysis of task-related fMRI studies. <i>Brain Imaging and Behavior</i> , 2022, 16, 2320-2334.	2.1	4
119	Hybrid is not a dirty word: Commentary on Wade and Kazeck (2017). <i>Human Movement Science</i> , 2018, 57, 510-515.	1.4	3
120	Prefrontal and temporal cortical thickness in adolescents with traumatic brain injury. <i>Developmental Medicine and Child Neurology</i> , 2019, 61, 672-679.	2.1	3
121	Longitudinal data on cortical thickness before and after working memory training. <i>Data in Brief</i> , 2016, 7, 1143-1147.	1.0	2
122	Association between Motor Planning and the Frontoparietal Network in Children: An Exploratory Multimodal Study. <i>Journal of the International Neuropsychological Society</i> , 2022, 28, 926-936.	1.8	2
123	Co-located (multi-user) virtual rehabilitation of acquired brain injury: feasibility of the Resonance system for upper-limb training. <i>Virtual Reality</i> , 2021, 25, 719-730.	6.1	1
124	Second generation system development and multi-centre studies of the Elements VR-rehab system. , 2015, , .		0