

Rajesh Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

3,798
citations

94433

37
h-index

144013

57
g-index

89
all docs

89
docs citations

89
times ranked

4190
citing authors

#	ARTICLE	IF	CITATIONS
1	Brain regional homogeneity changes after short-term positive airway pressure treatment in patients with obstructive sleep apnea. <i>Sleep Medicine</i> , 2022, 91, 12-20.	1.6	5
2	Functional organization of the insula in men and women with obstructive sleep apnea during Valsalva. <i>Sleep</i> , 2021, 44, .	1.1	5
3	Reduced hippocampal volumes and memory deficits in adolescents with single ventricle heart disease. <i>Brain and Behavior</i> , 2021, 11, e01977.	2.2	12
4	Brain Structural Changes in Patients with Pulmonary Arterial Hypertension. <i>Journal of Neuroimaging</i> , 2021, 31, 524-531.	2.0	1
5	Insular functional organization during handgrip in females and males with obstructive sleep apnea. <i>PLoS ONE</i> , 2021, 16, e0246368.	2.5	4
6	Poor Sleep Quality Linked to Decreased Brain Gray Matter Density in Adults with Type 2 Diabetes. <i>Sleep and Vigilance</i> , 2021, 5, 289-297.	0.8	2
7	Regional brain tissue changes in patients with cystic fibrosis. <i>Journal of Translational Medicine</i> , 2021, 19, 419.	4.4	11
8	Reduced brain mammillary body volumes and memory deficits in adolescents who have undergone the Fontan procedure. <i>Pediatric Research</i> , 2020, 87, 169-175.	2.3	16
9	Prefrontal cortex brain damage and glycemic control in patients with type 2 diabetes. <i>Journal of Diabetes</i> , 2020, 12, 465-473.	1.8	10
10	Regional Brain Gray Matter Changes in Patients with Type 2 Diabetes Mellitus. <i>Scientific Reports</i> , 2020, 10, 9925.	3.3	36
11	Caudate nuclei volume alterations and cognition and mood dysfunctions in adolescents with single ventricle heart disease. <i>Journal of Neuroscience Research</i> , 2020, 98, 1877-1888.	2.9	6
12	Aberrant Brain Functional Connectivity Dynamic Responses to the Valsalva Maneuver in Heart Failure. <i>Journal of Cardiac Failure</i> , 2019, 25, 757-766.	1.7	6
13	Altered brain diffusion tensor imaging indices in adolescents with the Fontan palliation. <i>Neuroradiology</i> , 2019, 61, 811-824.	2.2	10
14	Heart Failure Self-care Associated With Brain Injury in Executive Control Regions. <i>Journal of Cardiovascular Nursing</i> , 2019, 34, 433-439.	1.1	5
15	Aberrant left insular cortex response: A possible pathogenesis of reduced vagal nervous system activity in heart failure?â€”Reply. <i>Journal of Neuroscience Research</i> , 2019, 97, 114-115.	2.9	0
16	Regional brain tissue changes and associations with disease severity in children with sleep-disordered breathing. <i>Sleep</i> , 2018, 41, .	1.1	25
17	Brain abnormalities in cognition, anxiety, and depression regulatory regions in adolescents with single ventricle heart disease. <i>Journal of Neuroscience Research</i> , 2018, 96, 1104-1118.	2.9	27
18	Regional brain gray matter changes in adolescents with single ventricle heart disease. <i>Neuroscience Letters</i> , 2018, 665, 156-162.	2.1	13

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19	Cerebral blood flow in the central autonomic network: is there any effect of hemispheric lateralization in patients with heart failure? Reply. <i>European Journal of Heart Failure</i> , 2018, 20, 830-831.	7.1	1
20	Correlations Between Waist and Neck Circumferences and Obstructive Sleep Apnea Characteristics. <i>Sleep and Vigilance</i> , 2018, 2, 111-118.	0.8	23
21	Non-Invasive Electrical Impedance Tomography for Multi-Scale Detection of Liver Fat Content. <i>Theranostics</i> , 2018, 8, 1636-1647.	10.0	26
22	Brain structural changes associated with aberrant functional responses to the Valsalva maneuver in heart failure. <i>Journal of Neuroscience Research</i> , 2018, 96, 1610-1622.	2.9	11
23	Altered Regional Brain Cortical Thickness in Pediatric Obstructive Sleep Apnea. <i>Frontiers in Neurology</i> , 2018, 9, 4.	2.4	38
24	Regional cortical thickness changes accompanying generalized tonic-clonic seizures. <i>NeuroImage: Clinical</i> , 2018, 20, 205-215.	2.7	39
25	Altered resting-state hippocampal and caudate functional networks in patients with obstructive sleep apnea. <i>Brain and Behavior</i> , 2018, 8, e00994.	2.2	47
26	Sex-specific hippocampus volume changes in obstructive sleep apnea. <i>NeuroImage: Clinical</i> , 2018, 20, 305-317.	2.7	49
27	Regional brain tissue integrity in pediatric obstructive sleep apnea. <i>Neuroscience Letters</i> , 2018, 682, 118-123.	2.1	20
28	Obstructive sleep apnea and cortical thickness in females and males. <i>PLoS ONE</i> , 2018, 13, e0193854.	2.5	58
29	Reduced regional cerebral blood flow in patients with heart failure. <i>European Journal of Heart Failure</i> , 2017, 19, 1294-1302.	7.1	75
30	Reduced Regional Grey Matter Volumes in Pediatric Obstructive Sleep Apnea. <i>Scientific Reports</i> , 2017, 7, 44566.	3.3	66
31	Sex differences in insular cortex gyri responses to a brief static handgrip challenge. <i>Biology of Sex Differences</i> , 2017, 8, 13.	4.1	13
32	Epiglottis cross-sectional area and oropharyngeal airway length in male and female obstructive sleep apnea patients. <i>Nature and Science of Sleep</i> , 2016, Volume 8, 297-304.	2.7	17
33	Sex Differences in Insular Cortex Gyri Responses to the Valsalva Maneuver. <i>Frontiers in Neurology</i> , 2016, 7, 87.	2.4	20
34	Predictors of Memory Deficits in Adolescents and Young Adults with Congenital Heart Disease Compared to Healthy Controls. <i>Frontiers in Pediatrics</i> , 2016, 4, 117.	1.9	21
35	Global and Regional Brain Non-Gaussian Diffusion Changes in Newly Diagnosed Patients with Obstructive Sleep Apnea. <i>Sleep</i> , 2016, 39, 51-57.	1.1	21
36	Associations between brain white matter integrity and disease severity in obstructive sleep apnea. <i>Journal of Neuroscience Research</i> , 2016, 94, 915-923.	2.9	25

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37	Mamillary body volume abnormalities in anorexia nervosa. <i>International Journal of Eating Disorders</i> , 2016, 49, 920-929.	4.0	8
38	Aberrant Insular Functional Network Integrity in Patients with Obstructive Sleep Apnea. <i>Sleep</i> , 2016, 39, 989-1000.	1.1	47
39	Clinical neurocardiology defining the value of neuroscience-based cardiovascular therapeutics. <i>Journal of Physiology</i> , 2016, 594, 3911-3954.	2.9	222
40	Disrupted functional brain network organization in patients with obstructive sleep apnea. <i>Brain and Behavior</i> , 2016, 6, e00441.	2.2	58
41	Lateralized Resting-State Functional Brain Network Organization Changes in Heart Failure. <i>PLoS ONE</i> , 2016, 11, e0155894.	2.5	12
42	Water Exchange across the Blood-Brain Barrier in Obstructive Sleep Apnea: An MRI Diffusion-Weighted Pseudo-Continuous Arterial Spin Labeling Study. <i>Journal of Neuroimaging</i> , 2015, 25, 900-905.	2.0	51
43	Global and regional brain mean diffusivity changes in patients with heart failure. <i>Journal of Neuroscience Research</i> , 2015, 93, 678-685.	2.9	38
44	Impaired neural structure and function contributing to autonomic symptoms in congenital central hypoventilation syndrome. <i>Frontiers in Neuroscience</i> , 2015, 9, 415.	2.8	32
45	Reduced Regional Brain Cortical Thickness in Patients with Heart Failure. <i>PLoS ONE</i> , 2015, 10, e0126595.	2.5	42
46	Regional hippocampal damage in heart failure. <i>European Journal of Heart Failure</i> , 2015, 17, 494-500.	7.1	63
47	Functional Imaging of Autonomic Regulation: Methods and Key Findings. <i>Frontiers in Neuroscience</i> , 2015, 9, 513.	2.8	65
48	Abstract 13543: Brain Injury in Adolescents With Single Ventricle Heart Disease Compared to Healthy Controls. <i>Circulation</i> , 2015, 132, .	1.6	1
49	Global Brain Blood-Oxygen Level Responses to Autonomic Challenges in Obstructive Sleep Apnea. <i>PLoS ONE</i> , 2014, 9, e105261.	2.5	28
50	Affective Brain Areas and Sleep-Disordered Breathing. <i>Progress in Brain Research</i> , 2014, 209, 275-293.	1.4	36
51	Brain metabolites in autonomic regulatory insular sites in heart failure. <i>Journal of the Neurological Sciences</i> , 2014, 346, 271-275.	0.6	16
52	Regional brain gray and white matter changes in perinatally HIV-infected adolescents. <i>NeuroImage: Clinical</i> , 2014, 4, 29-34.	2.7	58
53	Brain putamen volume changes in newly-diagnosed patients with obstructive sleep apnea. <i>NeuroImage: Clinical</i> , 2014, 4, 383-391.	2.7	52
54	Abnormal Myelin and Axonal Integrity in Recently Diagnosed Patients with Obstructive Sleep Apnea. <i>Sleep</i> , 2014, 37, 723-732.	1.1	74

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55	Insular Cortex Metabolite Changes in Obstructive Sleep Apnea. <i>Sleep</i> , 2014, 37, 951-958.	1.1	38
56	Regional cerebral blood flow alterations in obstructive sleep apnea. <i>Neuroscience Letters</i> , 2013, 555, 159-164.	2.1	51
57	Brain axial and radial diffusivity changes with age and gender in healthy adults. <i>Brain Research</i> , 2013, 1512, 22-36.	2.2	62
58	Sleep-disordered breathing: Effects on brain structure and function. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 383-391.	1.6	54
59	Heart Rate Responses to Autonomic Challenges in Obstructive Sleep Apnea. <i>PLoS ONE</i> , 2013, 8, e76631.	2.5	51
60	Progressive gray matter changes in patients with congenital central hypoventilation syndrome. <i>Pediatric Research</i> , 2012, 71, 701-706.	2.3	26
61	Functional Neuroanatomy and Sleep-Disordered Breathing: Implications for Autonomic Regulation. <i>Anatomical Record</i> , 2012, 295, C1-C1.	1.4	0
62	Response to Latorraca and Palli. <i>Pediatric Research</i> , 2012, 72, 439-440.	2.3	0
63	Altered global and regional brain mean diffusivity in patients with obstructive sleep apnea. <i>Journal of Neuroscience Research</i> , 2012, 90, 2043-2052.	2.9	120
64	Differential responses of the insular cortex gyri to autonomic challenges. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2012, 168, 72-81.	2.8	76
65	Impaired Cerebellar and Limbic Responses to the Valsalva Maneuver in Heart Failure. <i>Cerebellum</i> , 2012, 11, 931-938.	2.5	27
66	Sex Differences in White Matter Alterations Accompanying Obstructive Sleep Apnea. <i>Sleep</i> , 2012, 35, 1603-1613.	1.1	70
67	Age-related regional brain T2-relaxation changes in healthy adults. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 300-308.	3.4	47
68	Regional brain axial and radial diffusivity changes during development. <i>Journal of Neuroscience Research</i> , 2012, 90, 346-355.	2.9	83
69	Global and regional putamen volume loss in patients with heart failure. <i>European Journal of Heart Failure</i> , 2011, 13, 651-655.	7.1	35
70	Brain axonal and myelin evaluation in heart failure. <i>Journal of the Neurological Sciences</i> , 2011, 307, 106-113.	0.6	93
71	Development of T2-relaxation values in regional brain sites during adolescence. <i>Magnetic Resonance Imaging</i> , 2011, 29, 185-193.	1.8	32
72	Congenital central hypoventilation syndrome and the PHOX2B gene: A model of respiratory and autonomic dysregulation. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 322-335.	1.6	65

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73	Rostral brain axonal injury in congenital central hypoventilation syndrome. <i>Journal of Neuroscience Research</i> , 2010, 88, 2146-2154.	2.9	51
74	Mammillary Body and Fornix Injury in Congenital Central Hypoventilation Syndrome. <i>Pediatric Research</i> , 2009, 66, 429-434.	2.3	29
75	Mammillary bodies and fornix fibers are injured in heart failure. <i>Neurobiology of Disease</i> , 2009, 33, 236-242.	4.4	85
76	Neural alterations associated with anxiety symptoms in obstructive sleep apnea syndrome. <i>Depression and Anxiety</i> , 2009, 26, 480-491.	4.1	63
77	Brain Injury in Autonomic, Emotional, and Cognitive Regulatory Areas in Patients With Heart Failure. <i>Journal of Cardiac Failure</i> , 2009, 15, 214-223.	1.7	148
78	Dilated basilar arteries in patients with congenital central hypoventilation syndrome. <i>Neuroscience Letters</i> , 2009, 467, 139-143.	2.1	14
79	Hippocampal Volume Reduction in Congenital Central Hypoventilation Syndrome. <i>PLoS ONE</i> , 2009, 4, e6436.	2.5	29
80	Reduced mammillary body volume in patients with obstructive sleep apnea. <i>Neuroscience Letters</i> , 2008, 438, 330-334.	2.1	81
81	Diffusion Tensor Imaging Demonstrates Brainstem and Cerebellar Abnormalities in Congenital Central Hypoventilation Syndrome. <i>Pediatric Research</i> , 2008, 64, 275-280.	2.3	87
82	Brain structural changes in obstructive sleep apnea. <i>Sleep</i> , 2008, 31, 967-77.	1.1	267
83	Neural alterations and depressive symptoms in obstructive sleep apnea patients. <i>Sleep</i> , 2008, 31, 1103-9.	1.1	75
84	Aberrant Central Nervous System Responses to the Valsalva Maneuver in Heart Failure. <i>Congestive Heart Failure</i> , 2007, 13, 29-35.	2.0	36
85	Elevated mean diffusivity in widespread brain regions in congenital central hypoventilation syndrome. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 1252-1258.	3.4	40
86	Neuroanatomic deficits in congenital central hypoventilation syndrome. <i>Journal of Comparative Neurology</i> , 2005, 487, 361-371.	1.6	83
87	Functional Abnormalities in Brain Areas That Mediate Autonomic Nervous System Control in Advanced Heart Failure. <i>Journal of Cardiac Failure</i> , 2005, 11, 437-446.	1.7	64
88	Magnetization transfer and T2 quantitation in normal appearing cortical gray matter and white matter adjacent to focal abnormality in patients with traumatic brain injury. <i>Magnetic Resonance Imaging</i> , 2003, 21, 893-899.	1.8	23
89	Global BOLD MRI changes to ventilatory challenges in congenital central hypoventilation syndrome. <i>Respiratory Physiology and Neurobiology</i> , 2003, 139, 41-50.	1.6	26