

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 structural changes in obstructive sleep apnea. <i>Sleep</i> , 2008, 31, 967-77. | 1.1 | 267 |
| 2 | Clinical neurocardiology defining the value of neuroscience-based cardiovascular therapeutics. <i>Journal of Physiology</i> , 2016, 594, 3911-3954. | 2.9 | 222 |
| 3 | 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 |
| 4 | 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 |
| 5 | Brain axonal and myelin evaluation in heart failure. <i>Journal of the Neurological Sciences</i> , 2011, 307, 106-113. | 0.6 | 93 |
| 6 | Diffusion Tensor Imaging Demonstrates Brainstem and Cerebellar Abnormalities in Congenital Central Hypoventilation Syndrome. <i>Pediatric Research</i> , 2008, 64, 275-280. | 2.3 | 87 |
| 7 | Mammillary bodies and fornix fibers are injured in heart failure. <i>Neurobiology of Disease</i> , 2009, 33, 236-242. | 4.4 | 85 |
| 8 | Neuroanatomic deficits in congenital central hypoventilation syndrome. <i>Journal of Comparative Neurology</i> , 2005, 487, 361-371. | 1.6 | 83 |
| 9 | Regional brain axial and radial diffusivity changes during development. <i>Journal of Neuroscience Research</i> , 2012, 90, 346-355. | 2.9 | 83 |
| 10 | Reduced mammillary body volume in patients with obstructive sleep apnea. <i>Neuroscience Letters</i> , 2008, 438, 330-334. | 2.1 | 81 |
| 11 | Differential responses of the insular cortex gyri to autonomic challenges. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2012, 168, 72-81. | 2.8 | 76 |
| 12 | Reduced regional cerebral blood flow in patients with heart failure. <i>European Journal of Heart Failure</i> , 2017, 19, 1294-1302. | 7.1 | 75 |
| 13 | Neural alterations and depressive symptoms in obstructive sleep apnea patients. <i>Sleep</i> , 2008, 31, 1103-9. | 1.1 | 75 |
| 14 | Abnormal Myelin and Axonal Integrity in Recently Diagnosed Patients with Obstructive Sleep Apnea. <i>Sleep</i> , 2014, 37, 723-732. | 1.1 | 74 |
| 15 | Sex Differences in White Matter Alterations Accompanying Obstructive Sleep Apnea. <i>Sleep</i> , 2012, 35, 1603-1613. | 1.1 | 70 |
| 16 | Reduced Regional Grey Matter Volumes in Pediatric Obstructive Sleep Apnea. <i>Scientific Reports</i> , 2017, 7, 44566. | 3.3 | 66 |
| 17 | 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 |
| 18 | Functional Imaging of Autonomic Regulation: Methods and Key Findings. <i>Frontiers in Neuroscience</i> , 2015, 9, 513. | 2.8 | 65 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | Neural alterations associated with anxiety symptoms in obstructive sleep apnea syndrome. <i>Depression and Anxiety</i> , 2009, 26, 480-491. | 4.1 | 63 |
| 21 | Regional hippocampal damage in heart failure. <i>European Journal of Heart Failure</i> , 2015, 17, 494-500. | 7.1 | 63 |
| 22 | Brain axial and radial diffusivity changes with age and gender in healthy adults. <i>Brain Research</i> , 2013, 1512, 22-36. | 2.2 | 62 |
| 23 | Regional brain gray and white matter changes in perinatally HIV-infected adolescents. <i>NeuroImage: Clinical</i> , 2014, 4, 29-34. | 2.7 | 58 |
| 24 | Disrupted functional brain network organization in patients with obstructive sleep apnea. <i>Brain and Behavior</i> , 2016, 6, e00441. | 2.2 | 58 |
| 25 | Obstructive sleep apnea and cortical thickness in females and males. <i>PLoS ONE</i> , 2018, 13, e0193854. | 2.5 | 58 |
| 26 | Sleep-disordered breathing: Effects on brain structure and function. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 383-391. | 1.6 | 54 |
| 27 | Brain putamen volume changes in newly-diagnosed patients with obstructive sleep apnea. <i>NeuroImage: Clinical</i> , 2014, 4, 383-391. | 2.7 | 52 |
| 28 | Rostral brain axonal injury in congenital central hypoventilation syndrome. <i>Journal of Neuroscience Research</i> , 2010, 88, 2146-2154. | 2.9 | 51 |
| 29 | Regional cerebral blood flow alterations in obstructive sleep apnea. <i>Neuroscience Letters</i> , 2013, 555, 159-164. | 2.1 | 51 |
| 30 | Heart Rate Responses to Autonomic Challenges in Obstructive Sleep Apnea. <i>PLoS ONE</i> , 2013, 8, e76631. | 2.5 | 51 |
| 31 | 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 |
| 32 | Sex-specific hippocampus volume changes in obstructive sleep apnea. <i>NeuroImage: Clinical</i> , 2018, 20, 305-317. | 2.7 | 49 |
| 33 | Age-related regional brain T2-relaxation changes in healthy adults. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 300-308. | 3.4 | 47 |
| 34 | Aberrant Insular Functional Network Integrity in Patients with Obstructive Sleep Apnea. <i>Sleep</i> , 2016, 39, 989-1000. | 1.1 | 47 |
| 35 | 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 |
| 36 | Reduced Regional Brain Cortical Thickness in Patients with Heart Failure. <i>PLoS ONE</i> , 2015, 10, e0126595. | 2.5 | 42 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | Regional cortical thickness changes accompanying generalized tonic-clonic seizures. <i>NeuroImage: Clinical</i> , 2018, 20, 205-215. | 2.7 | 39 |
| 39 | Insular Cortex Metabolite Changes in Obstructive Sleep Apnea. <i>Sleep</i> , 2014, 37, 951-958. | 1.1 | 38 |
| 40 | 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 |
| 41 | Altered Regional Brain Cortical Thickness in Pediatric Obstructive Sleep Apnea. <i>Frontiers in Neurology</i> , 2018, 9, 4. | 2.4 | 38 |
| 42 | Aberrant Central Nervous System Responses to the Valsalva Maneuver in Heart Failure. <i>Congestive Heart Failure</i> , 2007, 13, 29-35. | 2.0 | 36 |
| 43 | Affective Brain Areas and Sleep-Disordered Breathing. <i>Progress in Brain Research</i> , 2014, 209, 275-293. | 1.4 | 36 |
| 44 | Regional Brain Gray Matter Changes in Patients with Type 2 Diabetes Mellitus. <i>Scientific Reports</i> , 2020, 10, 9925. | 3.3 | 36 |
| 45 | 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 |
| 46 | Development of T2-relaxation values in regional brain sites during adolescence. <i>Magnetic Resonance Imaging</i> , 2011, 29, 185-193. | 1.8 | 32 |
| 47 | 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 |
| 48 | Mammillary Body and Fornix Injury in Congenital Central Hypoventilation Syndrome. <i>Pediatric Research</i> , 2009, 66, 429-434. | 2.3 | 29 |
| 49 | Hippocampal Volume Reduction in Congenital Central Hypoventilation Syndrome. <i>PLoS ONE</i> , 2009, 4, e6436. | 2.5 | 29 |
| 50 | Global Brain Blood-Oxygen Level Responses to Autonomic Challenges in Obstructive Sleep Apnea. <i>PLoS ONE</i> , 2014, 9, e105261. | 2.5 | 28 |
| 51 | Impaired Cerebellar and Limbic Responses to the Valsalva Maneuver in Heart Failure. <i>Cerebellum</i> , 2012, 11, 931-938. | 2.5 | 27 |
| 52 | 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 |
| 53 | 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 |
| 54 | Progressive gray matter changes in patients with congenital central hypoventilation syndrome. <i>Pediatric Research</i> , 2012, 71, 701-706. | 2.3 | 26 |

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|----|--|------|-----------|
| 55 | Non-Invasive Electrical Impedance Tomography for Multi-Scale Detection of Liver Fat Content. <i>Theranostics</i> , 2018, 8, 1636-1647. | 10.0 | 26 |
| 56 | 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 |
| 57 | Regional brain tissue changes and associations with disease severity in children with sleep-disordered breathing. <i>Sleep</i> , 2018, 41, . | 1.1 | 25 |
| 58 | 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 |
| 59 | Correlations Between Waist and Neck Circumferences and Obstructive Sleep Apnea Characteristics. <i>Sleep and Vigilance</i> , 2018, 2, 111-118. | 0.8 | 23 |
| 60 | 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 |
| 61 | 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 |
| 62 | Sex Differences in Insular Cortex Gyri Responses to the Valsalva Maneuver. <i>Frontiers in Neurology</i> , 2016, 7, 87. | 2.4 | 20 |
| 63 | Regional brain tissue integrity in pediatric obstructive sleep apnea. <i>Neuroscience Letters</i> , 2018, 682, 118-123. | 2.1 | 20 |
| 64 | 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 |
| 65 | Brain metabolites in autonomic regulatory insular sites in heart failure. <i>Journal of the Neurological Sciences</i> , 2014, 346, 271-275. | 0.6 | 16 |
| 66 | 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 |
| 67 | Dilated basilar arteries in patients with congenital central hypoventilation syndrome. <i>Neuroscience Letters</i> , 2009, 467, 139-143. | 2.1 | 14 |
| 68 | 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 |
| 69 | Regional brain gray matter changes in adolescents with single ventricle heart disease. <i>Neuroscience Letters</i> , 2018, 665, 156-162. | 2.1 | 13 |
| 70 | Reduced hippocampal volumes and memory deficits in adolescents with single ventricle heart disease. <i>Brain and Behavior</i> , 2021, 11, e01977. | 2.2 | 12 |
| 71 | Lateralized Resting-State Functional Brain Network Organization Changes in Heart Failure. <i>PLoS ONE</i> , 2016, 11, e0155894. | 2.5 | 12 |
| 72 | 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 |

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|----|--|-----|-----------|
| 73 | Regional brain tissue changes in patients with cystic fibrosis. <i>Journal of Translational Medicine</i> , 2021, 19, 419. | 4.4 | 11 |
| 74 | Altered brain diffusion tensor imaging indices in adolescents with the Fontan palliation. <i>Neuroradiology</i> , 2019, 61, 811-824. | 2.2 | 10 |
| 75 | 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 |
| 76 | Mammillary body volume abnormalities in anorexia nervosa. <i>International Journal of Eating Disorders</i> , 2016, 49, 920-929. | 4.0 | 8 |
| 77 | 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 |
| 78 | 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 |
| 79 | 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 |
| 80 | Functional organization of the insula in men and women with obstructive sleep apnea during Valsalva. <i>Sleep</i> , 2021, 44, . | 1.1 | 5 |
| 81 | 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 |
| 82 | Insular functional organization during handgrip in females and males with obstructive sleep apnea. <i>PLoS ONE</i> , 2021, 16, e0246368. | 2.5 | 4 |
| 83 | 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 |
| 84 | 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 |
| 85 | Brain Structural Changes in Patients with Pulmonary Arterial Hypertension. <i>Journal of Neuroimaging</i> , 2021, 31, 524-531. | 2.0 | 1 |
| 86 | Abstract 13543: Brain Injury in Adolescents With Single Ventricle Heart Disease Compared to Healthy Controls. <i>Circulation</i> , 2015, 132, . | 1.6 | 1 |
| 87 | Functional Neuroanatomy and Sleep-Disordered Breathing: Implications for Autonomic Regulation. <i>Anatomical Record</i> , 2012, 295, C1-C1. | 1.4 | 0 |
| 88 | Response to Latorraca and Palli. <i>Pediatric Research</i> , 2012, 72, 439-440. | 2.3 | 0 |
| 89 | 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 |