

Sanjay Kalra

List of Publications by Year in descending order

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74
papers

2,057
citations

218677

26
h-index

265206

42
g-index

75
all docs

75
docs citations

75
times ranked

2253
citing authors

#	ARTICLE	IF	CITATIONS
1	Recovery of N-acetylaspartate in corticomotor neurons of patients with ALS after riluzole therapy. <i>NeuroReport</i> , 1998, 9, 1757-1761.	1.2	179
2	Towards a neuroimaging biomarker for amyotrophic lateral sclerosis. <i>Lancet Neurology</i> , The, 2011, 10, 400-403.	10.2	156
3	Investigating Default Mode and Sensorimotor Network Connectivity in Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2016, 11, e0157443.	2.5	85
4	Detection of Cerebral Degeneration in Amyotrophic Lateral Sclerosis Using High-Field Magnetic Resonance Spectroscopy. <i>Archives of Neurology</i> , 2006, 63, 1144.	4.5	84
5	A prospective, randomized, placebo-controlled evaluation of corticoneuronal response to intrathecal BDNF therapy in ALS using magnetic resonance spectroscopy: feasibility and results. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases</i> , 2003, 4, 22-26.	1.2	81
6	T2 measurement and quantification of glutamate in human brain in vivo. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 971-977.	3.0	77
7	EFNS guidelines on the use of neuroimaging in the management of motor neuron diseases. <i>European Journal of Neurology</i> , 2010, 17, 526.	3.3	75
8	Diagnostic Accuracy of Diffusion Tensor Imaging in Amyotrophic Lateral Sclerosis. <i>Academic Radiology</i> , 2013, 20, 1099-1106.	2.5	70
9	Noise robust rotation invariant features for texture classification. <i>Pattern Recognition</i> , 2013, 46, 2103-2116.	8.1	51
10	Rapid improvement in cortical neuronal integrity in amyotrophic lateral sclerosis detected by proton magnetic resonance spectroscopic imaging. <i>Journal of Neurology</i> , 2006, 253, 1060-1063.	3.6	49
11	Combined structural and neurochemical evaluation of the corticospinal tract in amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2010, 11, 157-165.	2.1	48
12	Screening for frontal lobe and general cognitive impairment in patients with amyotrophic lateral sclerosis. <i>Journal of the Neurological Sciences</i> , 2014, 336, 191-196.	0.6	48
13	Voxel-Based Texture Analysis of the Brain. <i>PLoS ONE</i> , 2015, 10, e0117759.	2.5	45
14	A prospective harmonized multicenter DTI study of cerebral white matter degeneration in ALS. <i>Neurology</i> , 2020, 95, e943-e952.	1.1	45
15	Canadian best practice recommendations for the management of amyotrophic lateral sclerosis. <i>Cmaj</i> , 2020, 192, E1453-E1468.	2.0	44
16	Spatial Profiling of the Corticospinal Tract in Amyotrophic Lateral Sclerosis Using Diffusion Tensor Imaging. <i>Journal of Neuroimaging</i> , 2007, 17, 234-240.	2.0	40
17	Gabapentin therapy for amyotrophic lateral sclerosis: lack of improvement in neuronal integrity shown by MR spectroscopy. <i>American Journal of Neuroradiology</i> , 2003, 24, 476-80.	2.4	40
18	Alzheimer's disease: 3-dimensional MRI texture for prediction of conversion from mild cognitive impairment. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2018, 10, 755-763.	2.4	39

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19	Cerebral degeneration predicts survival in amyotrophic lateral sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2006, 77, 1253-1255.	1.9	37
20	Rotation Invariant Local Frequency Descriptors for Texture Classification. <i>IEEE Transactions on Image Processing</i> , 2013, 22, 2409-2419.	9.8	37
21	Magnetic Resonance Spectroscopy in ALS. <i>Frontiers in Neurology</i> , 2019, 10, 482.	2.4	37
22	Measurement of GABA and contaminants in gray and white matter in human brain in vivo. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 27-33.	3.0	35
23	Measurement of glycine in human brain by triple refocusing ¹ H-MRS in vivo at 3.0T. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 59-64.	3.0	32
24	The effects of lung volume recruitment on coughing and pulmonary function in patients with ALS. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2013, 14, 111-115.	1.7	30
25	Neuroimaging in amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases</i> , 2003, 4, 243-248.	1.2	29
26	Proton spectral editing for discrimination of lactate and threonine 1.31 ppm resonances in human brain in vivo. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 660-665.	3.0	29
27	Degeneration of the Mid-Cingulate Cortex in Amyotrophic Lateral Sclerosis Detected In Vivo with MR Spectroscopy. <i>American Journal of Neuroradiology</i> , 2011, 32, 403-407.	2.4	26
28	Reliability and validity of speech & pause measures during passage reading in ALS. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2020, 21, 42-50.	1.7	26
29	Cerebral Degeneration in Amyotrophic Lateral Sclerosis Revealed by 3-Dimensional Texture Analysis. <i>Frontiers in Neuroscience</i> , 2016, 10, 120.	2.8	25
30	Involvement of the dentate nucleus in the pathophysiology of amyotrophic lateral sclerosis: A multi-center and multi-modal neuroimaging study. <i>NeuroImage: Clinical</i> , 2020, 28, 102385.	2.7	25
31	White matter structural network abnormalities underlie executive dysfunction in amyotrophic lateral sclerosis. <i>Human Brain Mapping</i> , 2017, 38, 1249-1268.	3.6	22
32	Corticospinal tract degeneration in ALS unmasked in T1-weighted images using texture analysis. <i>Human Brain Mapping</i> , 2019, 40, 1174-1183.	3.6	22
33	Cerebral atrophy in amyotrophic lateral sclerosis parallels the pathological distribution of TDP43. <i>Brain Communications</i> , 2020, 2, fcaa061.	3.3	22
34	Evaluating the cerebral correlates of survival in amyotrophic lateral sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 1350-1361.	3.7	19
35	Mesial Prefrontal Cortex Degeneration in Amyotrophic Lateral Sclerosis: A High-Field Proton MR Spectroscopy Study. <i>American Journal of Neuroradiology</i> , 2011, 32, 1677-1680.	2.4	18
36	Robust Volumetric Texture Classification of Magnetic Resonance Images of the Brain Using Local Frequency Descriptor. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 4625-4636.	9.8	18

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37	Reliability of 3D texture analysis: A multicenter MRI study of the brain. Journal of Magnetic Resonance Imaging, 2020, 51, 1200-1209.	3.4	17
38	The CNDR: Collaborating to Translate New Therapies for Canadians. Canadian Journal of Neurological Sciences, 2013, 40, 698-704.	0.5	16
39	Fatigue in Multiple Sclerosis: Assessing Pontine Involvement Using Proton MR Spectroscopic Imaging. PLoS ONE, 2016, 11, e0149622.	2.5	16
40	Provincial Differences in the Diagnosis and Care of Amyotrophic Lateral Sclerosis. Canadian Journal of Neurological Sciences, 2018, 45, 652-659.	0.5	15
41	The Canadian Neuromuscular Disease Registry 2010â€“2019: A Decade of Facilitating Clinical Research Througha Nationwide, Pan-NeuromuscularDisease Registry. Journal of Neuromuscular Diseases, 2021, 8, 53-61.	2.6	15
42	Measurement of glutathione in human brain at 3T using an improved double quantum filter in vivo. Journal of Magnetic Resonance, 2009, 198, 160-166.	2.1	14
43	Cerebral degeneration in amyotrophic lateral sclerosis. Neurology: Clinical Practice, 2019, 9, 400-407.	1.6	13
44	Defining cognitive impairment in amyotrophic lateral sclerosis: an evaluation of empirical approaches. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2022, 23, 517-526.	1.7	13
45	MRS. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases, 2004, 5, 111-114.	1.2	12
46	Texture classification of MR images of the brain in ALS using M-CoHOG: A multi-center study. Computerized Medical Imaging and Graphics, 2020, 79, 101659.	5.8	12
47	Progressive Neurochemical Abnormalities in Cognitive and Motor Subgroups of Amyotrophic Lateral Sclerosis. Neurology, 2021, 97, e803-e813.	1.1	12
48	Establishing a Canadian Registry of Patients with Amyotrophic Lateral Sclerosis. Canadian Journal of Neurological Sciences, 2013, 40, 29-35.	0.5	11
49	Neuroanatomical associations of the Edinburgh cognitive and Behavioural ALS screen (ECAS). Brain Imaging and Behavior, 2021, 15, 1641-1654.	2.1	11
50	Familial amyotrophic lateral sclerosis in Alberta, Canada. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2013, 14, 273-277.	1.7	10
51	Quantifying changes on susceptibility weighted images in amyotrophic lateral sclerosis using MRI texture analysis. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2019, 20, 396-403.	1.7	10
52	Uncontrollable movements in patient with diabetes mellitus. Cmaj, 2006, 175, 871-871.	2.0	9
53	Genetic testing for amyotrophic lateral sclerosis in Canada â€“ an assessment of current practices. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2021, , 1-8.	1.7	9
54	Magnetic Resonance Spectroscopy for Monitoring Neuronal Integrity in Amyotrophic Lateral Sclerosis. , 2006, 576, 275-282.		8

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55	Functional alterations in large-scale resting-state networks of amyotrophic lateral sclerosis: A multi-site study across Canada and the United States. <i>PLoS ONE</i> , 2022, 17, e0269154.	2.5	8
56	Hair product artifact in magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2017, 35, 1-3.	1.8	7
57	Texture Analysis to Detect Cerebral Degeneration in Amyotrophic Lateral Sclerosis. <i>Canadian Journal of Neurological Sciences</i> , 2018, 45, 533-539.	0.5	7
58	Validating Automatic Diadochokinesis Analysis Methods Across Dysarthria Severity and Syllable Task in Amyotrophic Lateral Sclerosis. <i>Journal of Speech, Language, and Hearing Research</i> , 2022, 65, 940-953.	1.6	7
59	Distinct patterns of progressive gray and white matter degeneration in amyotrophic lateral sclerosis. <i>Human Brain Mapping</i> , 2022, 43, 1519-1534.	3.6	7
60	Spectroscopic markers of neurodegeneration in the mesial prefrontal cortex predict survival in ALS. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2020, 21, 246-251.	1.7	6
61	Utility of the Addenbrooke's Cognitive Examination in Amyotrophic Lateral Sclerosis. <i>Canadian Journal of Neurological Sciences</i> , 2018, 45, 527-532.	0.5	5
62	Amide signal intensities may be reduced in the motor cortex and the corticospinal tract of ALS patients. <i>European Radiology</i> , 2021, 31, 1401-1409.	4.5	4
63	MRI Texture Analysis Reveals Brain Abnormalities in Medically Refractory Trigeminal Neuralgia. <i>Frontiers in Neurology</i> , 2021, 12, 626504.	2.4	4
64	Lung volume recruitment improves volitional airway clearance in amyotrophic lateral sclerosis. <i>Muscle and Nerve</i> , 2021, 64, 676-682.	2.2	4
65	Inclusion Body Myositis Masquerading as Amyotrophic Lateral Sclerosis. <i>Canadian Journal of Neurological Sciences</i> , 2010, 37, 687-691.	0.5	3
66	CAPTURE ALS: the comprehensive analysis platform to understand, remedy and eliminate ALS. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2022, , 1-7.	1.7	3
67	Robust Edge Aware Descriptor for Image Matching. <i>Lecture Notes in Computer Science</i> , 2015, , 553-568.	1.3	2
68	A prospective, randomized, placebo-controlled evaluation of corticoneuronal response to intrathecal BDNF therapy in ALS using magnetic resonance spectroscopy: feasibility and results. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases</i> , 2003, 4, 22-26.	1.2	2
69	Unilateral Atrophy of Fungiform Papillae Associated with Lingual Nerve Injury. <i>Canadian Journal of Neurological Sciences</i> , 2006, 33, 428-429.	0.5	1
70	Motor Cortex and Spinal Degeneration in Multisystem Atrophy: A Multimodal Study. <i>Canadian Journal of Neurological Sciences</i> , 2008, 35, 658-660.	0.5	1
71	A REVIEW OF TEXTURE CLASSIFICATION METHODS AND THEIR APPLICATIONS IN MEDICAL IMAGE ANALYSIS OF THE BRAIN. , 2016, , 351-369.		1
72	Longitudinal surface-based spatial Bayesian GLM reveals complex trajectories of motor neurodegeneration in ALS. <i>NeuroImage</i> , 2022, , 119180.	4.2	1

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73	Bingâ€“Neel Syndrome Mimicking Lower Motor Neuron Predominant Amyotrophic Lateral Sclerosis. Canadian Journal of Neurological Sciences, 2020, 47, 419-421.	0.5	0
74	Mixed pathologies mimicking motor neuron disease: a case report and review of the literature. Folia Neuropathologica, 2021, 59, 403-408.	1.2	0