

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
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75
all docs

75
docs citations

75
times ranked

2253
citing authors

#	ARTICLE	IF	CITATIONS
1	CAPTURE ALS: the comprehensive analysis platform to understand, remedy and eliminate ALS. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2022, , 1-7.	1.7	3
2	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
3	Validating Automatic Diadochokinesis Analysis Methods Across Dysarthria Severity and Syllable Task in Amyotrophic Lateral Sclerosis. Journal of Speech, Language, and Hearing Research, 2022, 65, 940-953.	1.6	7
4	Longitudinal surface-based spatial Bayesian GLM reveals complex trajectories of motor neurodegeneration in ALS. NeuroImage, 2022, , 119180.	4.2	1
5	Distinct patterns of progressive gray and white matter degeneration in amyotrophic lateral sclerosis. Human Brain Mapping, 2022, 43, 1519-1534.	3.6	7
6	Functional alterations in large-scale resting-state networks of amyotrophic lateral sclerosis: A multi-site study across Canada and the United States. PLoS ONE, 2022, 17, e0269154.	2.5	8
7	Neuroanatomical associations of the Edinburgh cognitive and Behavioural ALS screen (ECAS). Brain Imaging and Behavior, 2021, 15, 1641-1654.	2.1	11
8	Amide signal intensities may be reduced in the motor cortex and the corticospinal tract of ALS patients. European Radiology, 2021, 31, 1401-1409.	4.5	4
9	The Canadian Neuromuscular Disease Registry 2010â€“2019: A Decade of Facilitating Clinical Research Through a Nationwide, Pan-Neuromuscular Disease Registry. Journal of Neuromuscular Diseases, 2021, 8, 53-61.	2.6	15
10	MRI Texture Analysis Reveals Brain Abnormalities in Medically Refractory Trigeminal Neuralgia. Frontiers in Neurology, 2021, 12, 626504.	2.4	4
11	Progressive Neurochemical Abnormalities in Cognitive and Motor Subgroups of Amyotrophic Lateral Sclerosis. Neurology, 2021, 97, e803-e813.	1.1	12
12	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
13	Lung volume recruitment improves volitional airway clearance in amyotrophic lateral sclerosis. Muscle and Nerve, 2021, 64, 676-682.	2.2	4
14	Mixed pathologies mimicking motor neuron disease: a case report and review of the literature. Folia Neuropathologica, 2021, 59, 403-408.	1.2	0
15	Reliability of 3D texture analysis: A multicenter MRI study of the brain. Journal of Magnetic Resonance Imaging, 2020, 51, 1200-1209.	3.4	17
16	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
17	Involvement of the dentate nucleus in the pathophysiology of amyotrophic lateral sclerosis: A multi-center and multi-modal neuroimaging study. NeuroImage: Clinical, 2020, 28, 102385.	2.7	25
18	Cerebral atrophy in amyotrophic lateral sclerosis parallels the pathological distribution of TDP43. Brain Communications, 2020, 2, fcaa061.	3.3	22

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19	A prospective harmonized multicenter DTI study of cerebral white matter degeneration in ALS. <i>Neurology</i> , 2020, 95, e943-e952.	1.1	45
20	Canadian best practice recommendations for the management of amyotrophic lateral sclerosis. <i>Cmaj</i> , 2020, 192, E1453-E1468.	2.0	44
21	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
22	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
23	Bingâ€Neel Syndrome Mimicking Lower Motor Neuron Predominant Amyotrophic Lateral Sclerosis. <i>Canadian Journal of Neurological Sciences</i> , 2020, 47, 419-421.	0.5	0
24	Magnetic Resonance Spectroscopy in ALS. <i>Frontiers in Neurology</i> , 2019, 10, 482.	2.4	37
25	Cerebral degeneration in amyotrophic lateral sclerosis. <i>Neurology: Clinical Practice</i> , 2019, 9, 400-407.	1.6	13
26	Quantifying changes on susceptibility weighted images in amyotrophic lateral sclerosis using MRI texture analysis. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2019, 20, 396-403.	1.7	10
27	Corticospinal tract degeneration in ALS unmasked in T1â€weighted images using texture analysis. <i>Human Brain Mapping</i> , 2019, 40, 1174-1183.	3.6	22
28	Provincial Differences in the Diagnosis and Care of Amyotrophic Lateral Sclerosis. <i>Canadian Journal of Neurological Sciences</i> , 2018, 45, 652-659.	0.5	15
29	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
30	Alzheimer's disease: 3â€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
31	Texture Analysis to Detect Cerebral Degeneration in Amyotrophic Lateral Sclerosis. <i>Canadian Journal of Neurological Sciences</i> , 2018, 45, 533-539.	0.5	7
32	Utility of the Addenbrookeâ€™s Cognitive Examination in Amyotrophic Lateral Sclerosis. <i>Canadian Journal of Neurological Sciences</i> , 2018, 45, 527-532.	0.5	5
33	White matter structural network abnormalities underlie executive dysfunction in amyotrophic lateral sclerosis. <i>Human Brain Mapping</i> , 2017, 38, 1249-1268.	3.6	22
34	Hair product artifact in magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2017, 35, 1-3.	1.8	7
35	Cerebral Degeneration in Amyotrophic Lateral Sclerosis Revealed by 3-Dimensional Texture Analysis. <i>Frontiers in Neuroscience</i> , 2016, 10, 120.	2.8	25
36	Fatigue in Multiple Sclerosis: Assessing Pontine Involvement Using Proton MR Spectroscopic Imaging. <i>PLoS ONE</i> , 2016, 11, e0149622.	2.5	16

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37	Investigating Default Mode and Sensorimotor Network Connectivity in Amyotrophic Lateral Sclerosis. PLoS ONE, 2016, 11, e0157443.	2.5	85
38	A REVIEW OF TEXTURE CLASSIFICATION METHODS AND THEIR APPLICATIONS IN MEDICAL IMAGE ANALYSIS OF THE BRAIN. , 2016, , 351-369.		1
39	Voxel-Based Texture Analysis of the Brain. PLoS ONE, 2015, 10, e0117759.	2.5	45
40	Robust Edge Aware Descriptor for Image Matching. Lecture Notes in Computer Science, 2015, , 553-568.	1.3	2
41	Robust Volumetric Texture Classification of Magnetic Resonance Images of the Brain Using Local Frequency Descriptor. IEEE Transactions on Image Processing, 2014, 23, 4625-4636.	9.8	18
42	Screening for frontal lobe and general cognitive impairment in patients with amyotrophic lateral sclerosis. Journal of the Neurological Sciences, 2014, 336, 191-196.	0.6	48
43	Diagnostic Accuracy of Diffusion Tensor Imaging in Amyotrophic Lateral Sclerosis. Academic Radiology, 2013, 20, 1099-1106.	2.5	70
44	Rotation Invariant Local Frequency Descriptors for Texture Classification. IEEE Transactions on Image Processing, 2013, 22, 2409-2419.	9.8	37
45	Noise robust rotation invariant features for texture classification. Pattern Recognition, 2013, 46, 2103-2116.	8.1	51
46	The effects of lung volume recruitment on coughing and pulmonary function in patients with ALS. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2013, 14, 111-115.	1.7	30
47	Familial amyotrophic lateral sclerosis in Alberta, Canada. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2013, 14, 273-277.	1.7	10
48	The CNDR: Collaborating to Translate New Therapies for Canadians. Canadian Journal of Neurological Sciences, 2013, 40, 698-704.	0.5	16
49	Establishing a Canadian Registry of Patients with Amyotrophic Lateral Sclerosis. Canadian Journal of Neurological Sciences, 2013, 40, 29-35.	0.5	11
50	Towards a neuroimaging biomarker for amyotrophic lateral sclerosis. Lancet Neurology, The, 2011, 10, 400-403.	10.2	156
51	Degeneration of the Mid-Cingulate Cortex in Amyotrophic Lateral Sclerosis Detected In Vivo with MR Spectroscopy. American Journal of Neuroradiology, 2011, 32, 403-407.	2.4	26
52	Mesial Prefrontal Cortex Degeneration in Amyotrophic Lateral Sclerosis: A High-Field Proton MR Spectroscopy Study. American Journal of Neuroradiology, 2011, 32, 1677-1680.	2.4	18
53	Inclusion Body Myositis Masquerading as Amyotrophic Lateral Sclerosis. Canadian Journal of Neurological Sciences, 2010, 37, 687-691.	0.5	3
54	EFNS guidelines on the use of neuroimaging in the management of motor neuron diseases. European Journal of Neurology, 2010, 17, 526.	3.3	75

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55	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
56	Measurement of glutathione in human brain at 3T using an improved double quantum filter in vivo. <i>Journal of Magnetic Resonance</i> , 2009, 198, 160-166.	2.1	14
57	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
58	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
59	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
60	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
61	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
62	Unilateral Atrophy of Fungiform Papillae Associated with Lingual Nerve Injury. <i>Canadian Journal of Neurological Sciences</i> , 2006, 33, 428-429.	0.5	1
63	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
64	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
65	T2 measurement and quantification of glutamate in human brain in vivo. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 971-977.	3.0	77
66	Uncontrollable movements in patient with diabetes mellitus. <i>Cmaj</i> , 2006, 175, 871-871.	2.0	9
67	Cerebral degeneration predicts survival in amyotrophic lateral sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2006, 77, 1253-1255.	1.9	37
68	Magnetic Resonance Spectroscopy for Monitoring Neuronal Integrity in Amyotrophic Lateral Sclerosis. , 2006, 576, 275-282.		8
69	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
70	Neuroimaging in amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases, 2003, 4, 243-248.	1.2	29
71	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
72	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

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73	Gabapentin therapy for amyotrophic lateral sclerosis: lack of improvement in neuronal integrity shown by MR spectroscopy. American Journal of Neuroradiology, 2003, 24, 476-80.	2.4	40
74	Recovery of N-acetylaspartate in corticomotor neurons of patients with ALS after riluzole therapy. NeuroReport, 1998, 9, 1757-1761.	1.2	179