Raffaele Lodi

List of Publications by Year
in descending order

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115 papers	5,187 citations	81743 39 h-index	95083 68 g-index
116 all docs	116 docs citations	116 times ranked	6429 citing authors

#	Article	IF	Citations
1	Oxidative stress, mitochondrial dysfunction and cellular stress response in Friedreich's ataxia. Journal of the Neurological Sciences, 2005, 233, 145-162.	0.3	361
2	Antioxidant treatment improves in vivo cardiac and skeletal muscle bioenergetics in patients with Friedreich's ataxia. Annals of Neurology, 2001, 49, 590-596.	2.8	246
3	Antioxidant Treatment of Patients With Friedreich Ataxia. Archives of Neurology, 2005, 62, 621.	4.9	211
4	Apparent diffusion coefficient measurements of the middle cerebellar peduncle differentiate the Parkinson variant of MSA from Parkinson's disease and progressive supranuclear palsy. Brain, 2006, 129, 2679-2687.	3.7	206
5	Prostate Cancer: Sextant Localization with MR Imaging, MR Spectroscopy, and¹¹C-Choline PET/CT. Radiology, 2007, 244, 797-806.	3.6	193
6	Mutations in SLC25A46, encoding a UGO1-like protein, cause an optic atrophy spectrum disorder. Nature Genetics, 2015, 47, 926-932.	9.4	166
7	Syndromic parkinsonism and dementia associated with <scp>OPA</scp>1 missense mutations. Annals of Neurology, 2015, 78, 21-38.	2.8	154
8	Visual system involvement in patients with Friedreich's ataxia. Brain, 2009, 132, 116-123.	3.7	146
9	Deficit of in vivo mitochondrial ATP production in OPA1-related dominant optic atrophy. Annals of Neurology, 2004, 56, 719-723.	2.8	132
10	Diffusion-weighted brain imaging study of patients with clinical diagnosis of corticobasal degeneration, progressive supranuclear palsy and Parkinson's disease. Brain, 2008, 131, 2690-2700.	3.7	131
11	Defective Brain Energy Metabolism Shown by in vivo 31P MR Spectroscopy in 28 Patients with Mitochondrial Cytopathies. Journal of Cerebral Blood Flow and Metabolism, 1993, 13, 469-474.	2.4	105
12	Deficient energy metabolism is associated with low free magnesium in the brains of patients with migraine and cluster headache. Brain Research Bulletin, 2001, 54, 437-441.	1.4	103
13	The ND1 gene of complex I is a mutational hot spot for Leber's hereditary optic neuropathy. Annals of Neurology, 2004, 56, 631-641.	2.8	102
14	Low brain iron content in idiopathic restless legs syndrome patients detected by phase imaging. Movement Disorders, 2013, 28, 1886-1890.	2.2	98
15	Apparent diffusion coefficient of the superior cerebellar peduncle differentiates progressive supranuclear palsy from Parkinson's disease. Movement Disorders, 2008, 23, 2370-2376.	2.2	96
16	Cardiac energetics are abnormal in Friedreich ataxia patients in the absence of cardiac dysfunction and hypertrophy: An in vivo 31P magnetic resonance spectroscopy study. Cardiovascular Research, 2001, 52, 111-119.	1.8	93
17	Reduced oxidative phosphorylation and proton efflux suggest reduced capillary blood supply in skeletal muscle of patients with dermatomyositis and polymyositis: a quantitative 31P-magnetic resonance spectroscopy and MRI study. Brain, 2002, 125, 1635-1645.	3.7	91
18	Effects of Light Treatment on Sleep, Cognition, Mood, and Behavior in Alzheimerâ€™s Disease: A Systematic Review. Dementia and Geriatric Cognitive Disorders, 2018, 46, 371-384.	0.7	91

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19	Liver transplantation for mitochondrial neurogastrointestinal encephalomyopathy. Annals of Neurology, 2016, 80, 448-455.	2.8	81
20	Clinical and brain bioenergetics improvement with idebenone in a patient with Leber's hereditary optic neuropathy: a clinical and 31P-MRS study. Journal of the Neurological Sciences, 1997, 148, 25-31.	0.3	76
21	Friedreich's Ataxia: From Disease Mechanisms to Therapeutic Interventions. Antioxidants and Redox Signaling, 2006, 8, 438-443.	2.5	71
22	Study of hypothalamic metabolism in cluster headache by proton MR spectroscopy. Neurology, 2006, 66, 1264-1266.	1.5	69
23	Diffusion-weighted imaging study of patients with essential tremor. Movement Disorders, 2007, 22, 1182-1185.	2.2	67
24	Phosphorus magnetic resonance spectroscopy in multiple system atrophy and Parkinson's disease. Movement Disorders, 1999, 14, 430-435.	2.2	64
25	Deficit of Brain and Skeletal Muscle Bioenergetics and Low Brain Magnesium in Juvenile Migraine: An in Vivo 31P Magnetic Resonance Spectroscopy Interictal Study. Pediatric Research, 1997, 42, 866-871.	1.1	64
26	Very low levels of the mtDNA A3243G mutation associated with mitochondrial dysfunction in vivo. Annals of Neurology, 2000, 47, 381-384.	2.8	63
27	Heterogeneity in chronic fatigue syndrome: evidence from magnetic resonance spectroscopy of muscle. Neuromuscular Disorders, 1998, 8, 204-209.	0.3	59
28	Abnormal medial thalamic metabolism in patients with idiopathic restless legs syndrome. Brain, 2012, 135, 3712-3720.	3.7	59
29	Reduced cytosolic acidification during exercise suggests defective glycolytic activity in skeletal muscle of patients with Becker muscular dystrophy. Brain, 1999, 122, 121-130.	3.7	57
30	Relationship of white and gray matter abnormalities to clinical and genetic features in myotonic dystrophy type 1. NeuroImage: Clinical, 2016, 11, 678-685.	1.4	55
31	Meningioma: not always a benign tumor. A review of advances in the treatment of meningiomas. CNS Oncology, 2021, 10, CNS72.	1.2	54
32	Brain diffusionâ€weighted imaging in Friedreich's ataxia. Movement Disorders, 2011, 26, 705-712.	2.2	52
33	â€˜Behr syndromeâ€™ with OPA1 compound heterozygote mutations. Brain, 2015, 138, e321-e321.	3.7	50
34	Narcolepsy is a common phenotype in HSAN IE and ADCA-DN. Brain, 2014, 137, 1643-1655.	3.7	49
35	Homozygous <scp>NOTCH</scp> 3 null mutation and impaired <scp>NOTCH</scp> 3 signaling in recessive earlyâ€onset arteriopathy and cavitating leukoencephalopathy. EMBO Molecular Medicine, 2015, 7, 848-858.	3.3	48
36	Improved brain and muscle mitochondrial respiration with CoQ. An in vivo study by ³¹Pâ€MR spectroscopy in patients with mitochondrial cytopathies. BioFactors, 1999, 9, 253-260.	2.6	46

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37	Accuracy of MR markers for differentiating Progressive Supranuclear Palsy from Parkinson's disease. NeuroImage: Clinical, 2016, 11, 736-742.	1.4	46
38	Evaluation of a New Criterion for Detecting Prion Disease With Diffusion Magnetic Resonance Imaging. JAMA Neurology, 2020, 77, 1141.	4.5	46
39	Magnetic resonance diagnostic markers in clinically sporadic prion disease: a combined brain magnetic resonance imaging and spectroscopy study. Brain, 2009, 132, 2669-2679.	3.7	42
40	Influence of cytosolic pH onin vivo assessment of human muscle mitochondrial respiration by phosphorus magnetic resonance spectroscopy. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1997, 5, 165-171.	1.1	40
41	Low Brain Intracellular Free Magnesium in Mitochondrial Cytopathies. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 528-532.	2.4	39
42	Accuracy of MRI/MRSIâ€based transrectal ultrasound biopsy in peripheral and transition zones of the prostate gland in patients with prior negative biopsy. NMR in Biomedicine, 2010, 23, 1017-1026.	1.6	38
43	A Novel in-Frame 18-bp Microdeletion inMT-CYBCauses a Multisystem Disorder with Prominent Exercise Intolerance. Human Mutation, 2014, 35, 954-958.	1.1	38
44	Idebenone in Friedreich's ataxia. Expert Opinion on Pharmacotherapy, 2008, 9, 2327-2337.	0.9	36
45	Defective Mitochondrial Adenosine Triphosphate Production in Skeletal Muscle From Patients With Dominant Optic Atrophy Due to OPA1 Mutations. Archives of Neurology, 2011, 68, 67-73.	4.9	36
46	A clinically complex form of dominant optic atrophy (OPA8) maps on chromosome 16. Human Molecular Genetics, 2011, 20, 1893-1905.	1.4	36
47	A combined a-EEG and MR spectroscopy study in term newborns with hypoxicâ€“ischemic encephalopathy. Brain and Development, 2010, 32, 835-842.	0.6	35
48	Predicting conversion from mild cognitive impairment to Alzheimer's disease using brain 1H-MRS and volumetric changes: A two- year retrospective follow-up study. NeuroImage: Clinical, 2019, 23, 101843.	1.4	35
49	Randomized, placeboâ€controlled, doubleâ€blind pilot trial of ramipril in McArdle's disease. Muscle and Nerve, 2008, 37, 350-357.	1.0	33
50	Calcium mishandling in absence of primary mitochondrial dysfunction drives cellular pathology in Wolfram Syndrome. Scientific Reports, 2020, 10, 4785.	1.6	33
51	Secondary Post-Geniculate Involvement in Leberâ€™s Hereditary Optic Neuropathy. PLoS ONE, 2012, 7, e50230.	1.1	33
52	Diffusivity of Cerebellar Hemispheres Enables Discrimination of Cerebellar or Parkinsonian Multiple System Atrophy from Progressive Supranuclear Palsyâ€“Richardson Syndrome and Parkinson Disease. Radiology, 2013, 267, 843-850.	3.6	31
53	Subtype Diagnosis of Sporadic <scp>Creutzfeldtâ€“Jakob</scp> Disease with Diffusion <scp>Magnetic Resonance Imaging</scp>. Annals of Neurology, 2021, 89, 560-572.	2.8	30
54	Mitochondrial dysfunction in myotonic dystrophy type 1. Neuromuscular Disorders, 2018, 28, 144-149.	0.3	29

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55	Thalamic contribution to Sleep Slow Oscillation features in humans: A single case cross sectional EEG study in Fatal Familial Insomnia. Sleep Medicine, 2012, 13, 946-952.	0.8	28
56	Association of the mtDNA m.4171C>A/MT-ND1 mutation with both optic neuropathy and bilateral brainstem lesions. BMC Neurology, 2014, 14, 116.	0.8	28
57	Abnormal cardiac energetics in patients carrying the A3243G mtDNA mutation measured in vivo using phosphorus MR spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1657, 146-150.	0.5	27
58	The contribution of cerebellar proton magnetic resonance spectroscopy in the differential diagnosis among parkinsonian syndromes. Parkinsonism and Related Disorders, 2015, 21, 929-937.	1.1	26
59	White matter and cortical changes in atypical parkinsonisms: A multimodal quantitative MR study. Parkinsonism and Related Disorders, 2017, 39, 44-51.	1.1	26
60	Epilepsia partialis continua associated with NADH-coenzyme Q reductase deficiency. Journal of the Neurological Sciences, 1995, 129, 152-161.	0.3	25
61	Spinocerebellar ataxia type 12 identified in two Italian families may mimic sporadic ataxia. Movement Disorders, 2010, 25, 1269-1273.	2.2	25
62	Impairment of brain and muscle energy metabolism detected by magnetic resonance spectroscopy in hereditary spastic paraparesis type 28 patients with DDHD1 mutations. Journal of Neurology, 2014, 261, 1789-1793.	1.8	25
63	Assessment of <I>In Vitro</I> and <I>In Vivo</I> Mitochondrial Function in Friedreich's Ataxia and Huntington's Disease. , 2004, 277, 293-308.		22
64	L-Dopa Modulation of Brain Connectivity in Parkinsonâ€™s Disease Patients: A Pilot EEG-fMRI Study. Frontiers in Neuroscience, 2019, 13, 611.	1.4	22
65	Distribution of neurochemical abnormalities in patients with narcolepsy with cataplexy: An in vivo brain proton MR spectroscopy study. Brain Research Bulletin, 2009, 80, 147-150.	1.4	21
66	Imaging Brain Functional and Metabolic Changes in Restless Legs Syndrome. Current Neurology and Neuroscience Reports, 2013, 13, 372.	2.0	21
67	Metabolic Imaging in Prostate Cancer: Where We Are. Frontiers in Oncology, 2016, 6, 225.	1.3	21
68	Narcolepsy-like syndrome in multiple sclerosis. Sleep Medicine, 2009, 10, 389-391.	0.8	20
69	Failure of muscle energy metabolism in a patient with adenylosuccinate lyase deficiency. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1997, 1360, 271-276.	1.8	18
70	Cerebral Mitochondrial Microangiopathy Leads to Leukoencephalopathy in Mitochondrial Neurogastrointestinal Encephalopathy. American Journal of Neuroradiology, 2018, 39, 427-434.	1.2	18
71	Cybrid studies establish the causal link between the mtDNA m.3890G>A/MT-ND1 mutation and optic atrophy with bilateral brainstem lesions. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 445-452.	1.8	17
72	Myophosphorylase deficiency affects muscle mitochondrial respiration as shown by 31P-MR spectroscopy in a case with associated multifocal encephalopathy. Journal of the Neurological Sciences, 1995, 128, 84-91.	0.3	16

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73	Multi-class parkinsonian disorders classification with quantitative MR markers and graph-based features using support vector machines. Parkinsonism and Related Disorders, 2018, 47, 64-70.	1.1	16
74	Glioblastoma: Emerging Treatments and Novel Trial Designs. Cancers, 2021, 13, 3750.	1.7	16
75	Brain functional connectivity in sleep-related hypermotor epilepsy. NeuroImage: Clinical, 2018, 17, 873-881.	1.4	15
76	Aspects of human bioenergetics as studied in vivo by magnetic resonance spectroscopy. Biochimie, 1998, 80, 847-853.	1.3	14
77	Assessment of glutamate and glutamine contribution to in vivoN-acetylaspartate quantification in human brain by1H-magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2005, 54, 1333-1339.	1.9	14
78	Narcolepsy with cataplexy associated with holoprosencephaly misdiagnosed as epileptic drop attacks. Movement Disorders, 2010, 25, 788-790.	2.2	13
79	Cytosolic pH buffering during exercise and recovery in skeletal muscle of patients with McArdleâ€™s disease. European Journal of Applied Physiology, 2009, 105, 687-694.	1.2	12
80	Brain magnetic resonance metabolic and microstructural changes in adult-onset autosomal dominant leukodystrophy. Brain Research Bulletin, 2015, 117, 24-31.	1.4	12
81	Combined Cerebellar Proton MR Spectroscopy and DWI Study of Patients with Friedreichâ€™s Ataxia. Cerebellum, 2017, 16, 82-88.	1.4	12
82	COVID-19 and the Brain: The Neuropathological Italian Experience on 33 Adult Autopsies. Biomolecules, 2022, 12, 629.	1.8	12
83	Discovering the Molecular Landscape of Meningioma: The Struggle to Find New Therapeutic Targets. Diagnostics, 2021, 11, 1852.	1.3	11
84	A longitudinal study of a family with adult-onset autosomal dominant leukodystrophy: Clinical, autonomic and neuropsychological findings. Autonomic Neuroscience: Basic and Clinical, 2016, 195, 20-26.	1.4	10
85	Brain MRS correlates with mitochondrial dysfunction biomarkers in MELASâ€assosciated mtDNA mutations. Annals of Clinical and Translational Neurology, 2021, 8, 1200-1211.	1.7	10
86	Autosomal dominant limb girdle myopathy with ragged-red fibers and cardiomyopathy A pedigree study by in vivo 31P-MR spectroscopy indicating a multisystem mitochondrial defect. Journal of the Neurological Sciences, 1996, 137, 20-27.	0.3	9
87	Magnetic resonance spectroscopy of episodic ataxia type 2 and migraine. Annals of Neurology, 2000, 47, 838-839.	2.8	9
88	Energy metabolism in migraine. Neurological Sciences, 2006, 27, s82-s85.	0.9	9
89	A case of fragile X premutation tremor/ataxia syndrome with evidence of mitochondrial dysfunction. Movement Disorders, 2006, 21, 1541-1542.	2.2	9
90	Clinical efficacy of immune checkpoint inhibitors in patients with brain metastases. Immunotherapy, 2021, 13, 419-432.	1.0	9

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91	In vivo assessment of human skeletal muscle mitochondria respiration in health and disease. Molecular and Cellular Biochemistry, 1997, 174, 11-15.	1.4	8
92	Free Mg2+ concentration in the calf muscle of glycogen phosphorylase and phosphofructokinase deficiency patients assessed in different metabolic conditions by 31P MRS. Dynamic Medicine: DM, 2005, 4, 7.	2.7	8
93	Magnetic resonance imaging and spectroscopy in the evaluation of neuromuscular disorders and fatigue. Neuromuscular Disorders, 2012, 22, S187-S191.	0.3	7
94	Polysomnographic and neurometabolic features may mark preclinical autosomal dominant cerebellar ataxia, deafness, and narcolepsy due to a mutation in the DNA (cytosine-5-)-methyltransferase gene, DNMT1. Sleep Medicine, 2014, 15, 582-585.	0.8	6
95	Stridor-related gray matter alterations in multiple system atrophy: A pilot study. Parkinsonism and Related Disorders, 2019, 62, 226-230.	1.1	6
96	Circumventing the curse of dimensionality in magnetic resonance fingerprinting through a deep learning approach. NMR in Biomedicine, 2022, 35, e4670.	1.6	6
97	A new case of idiopathic hemiplegia hemiconvulsion syndrome. Neurological Sciences, 2010, 31, 799-805.	0.9	5
98	Along-tract analysis of the arcuate fasciculus using the Laplacian operator to evaluate different tractography methods. Magnetic Resonance Imaging, 2018, 54, 183-193.	1.0	5
99	The Combination of Metabolic Posterior Cingulate Cortical Abnormalities and Structural Asymmetries Improves the Differential Diagnosis Between Primary Progressive Aphasia and Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2021, 82, 1467-1473.	1.2	5
100	Brain functional MRI responses to blue light stimulation in Leberâ€™s hereditary optic neuropathy. Biochemical Pharmacology, 2021, 191, 114488.	2.0	5
101	Machine learning in neuro-oncology: toward novel development fields. Journal of Neuro-Oncology, 2022, 159, 333-346.	1.4	5
102	Cardiac bioenergetics in Friedreich's ataxia. Annals of Neurology, 2003, 54, 552-552.	2.8	4
103	Traumatic Intracystic Hemorrhage in a Case with Thalamo-Mesencephalic â€˜Expanding Lacunaeâ€™: An Uncommon Cause of Sudden-Onset Neurological Signs. Cerebrovascular Diseases, 2003, 16, 174-176.	0.8	4
104	Looking into the brain: How can conventional, morphometric and functional MRI help in diagnosing and understanding PD?. Basal Ganglia, 2012, 2, 175-182.	0.3	4
105	The effect of diffusion gradient direction number on corticospinal tractography in the human brain: an along-tract analysis. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 265-280.	1.1	4
106	Antioxidant treatment improves in vivo cardiac and skeletal muscle bioenergetics in patients with Friedreich's ataxia. , 2001, 49, 590.		4
107	Diffusion-weighted brain imaging study of patients with clinical diagnosis of corticobasal degeneration, progressive supranuclear palsy and Parkinson's disease. Brain, 2009, 132, e130-e130.	3.7	3
108	Metabolites and Migraine. , 2012, , 251-273.		3

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109	Molecular biomarkers correlate with brain grey and white matter changes in patients with mitochondrial m.3243AÂ>ÂG mutation. Molecular Genetics and Metabolism, 2022, 135, 72-81.	0.5	3
110	Multishell Diffusion MR Tractography Yields Morphological and Microstructural Information of the Anterior Optic Pathway: A Proof-of-Concept Study in Patients with Leberâ€™s Hereditary Optic Neuropathy. International Journal of Environmental Research and Public Health, 2022, 19, 6914.	1.2	3
111	Binary and Multi-class Parkinsonian Disorders Classification Using Support Vector Machines. Lecture Notes in Computer Science, 2015, , 379-386.	1.0	2
112	Proton MR Spectroscopy in Patients With Sleep-Related Hypermotor Epilepsy (SHE): Evidence of Altered Cingulate Cortex Metabolism. Sleep, 2017, 40, .	0.6	2
113	Is Molecular Tailored-Therapy Changing the Paradigm for CNS Metastases in Breast Cancer?. Clinical Drug Investigation, 2021, 41, 757-773.	1.1	1
114	Very low levels of the mtDNA A3243G mutation associated with mitochondrial dysfunction in vivo. , 2000, 47, 381.		1
115	Is mitochondrial oxidative metabolism the right therapy target in early Huntington disease?. Neurology, 2017, 88, 116-117.	1.5	0