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	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
2	Circumventing the curse of dimensionality in magnetic resonance fingerprinting through a deep learning approach. NMR in Biomedicine, 2022, 35, e4670.	1.6	6
3	COVID-19 and the Brain: The Neuropathological Italian Experience on 33 Adult Autopsies. Biomolecules, 2022, 12, 629.	1.8	12
4	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
5	Machine learning in neuro-oncology: toward novel development fields. Journal of Neuro-Oncology, 2022, 159, 333-346.	1.4	5
6	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
7	Clinical efficacy of immune checkpoint inhibitors in patients with brain metastases. Immunotherapy, 2021, 13, 419-432.	1.0	9
8	Brain MRS correlates with mitochondrial dysfunction biomarkers in MELASâ€associated mtDNA mutations. Annals of Clinical and Translational Neurology, 2021, 8, 1200-1211.	1.7	10
9	Meningioma: not always a benign tumor. A review of advances in the treatment of meningiomas. CNS Oncology, 2021, 10, CNS72.	1.2	54
10	Glioblastoma: Emerging Treatments and Novel Trial Designs. Cancers, 2021, 13, 3750.	1.7	16
11	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
12	Is Molecular Tailored-Therapy Changing the Paradigm for CNS Metastases in Breast Cancer?. Clinical Drug Investigation, 2021, 41, 757-773.	1.1	1
13	Brain functional MRI responses to blue light stimulation in Leberâ€™s hereditary optic neuropathy. Biochemical Pharmacology, 2021, 191, 114488.	2.0	5
14	Discovering the Molecular Landscape of Meningioma: The Struggle to Find New Therapeutic Targets. Diagnostics, 2021, 11, 1852.	1.3	11
15	Evaluation of a New Criterion for Detecting Prion Disease With Diffusion Magnetic Resonance Imaging. JAMA Neurology, 2020, 77, 1141.	4.5	46
16	Calcium mishandling in absence of primary mitochondrial dysfunction drives cellular pathology in Wolfram Syndrome. Scientific Reports, 2020, 10, 4785.	1.6	33
17	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
18	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

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19	Stridor-related gray matter alterations in multiple system atrophy: A pilot study. Parkinsonism and Related Disorders, 2019, 62, 226-230.	1.1	6
20	Cerebral Mitochondrial Microangiopathy Leads to Leukoencephalopathy in Mitochondrial Neurogastrointestinal Encephalopathy. American Journal of Neuroradiology, 2018, 39, 427-434.	1.2	18
21	Brain functional connectivity in sleep-related hypermotor epilepsy. NeuroImage: Clinical, 2018, 17, 873-881.	1.4	15
22	Mitochondrial dysfunction in myotonic dystrophy type 1. Neuromuscular Disorders, 2018, 28, 144-149.	0.3	29
23	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
24	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
25	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
26	Combined Cerebellar Proton MR Spectroscopy and DWI Study of Patients with Friedreichâ€™s Ataxia. Cerebellum, 2017, 16, 82-88.	1.4	12
27	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
28	Is mitochondrial oxidative metabolism the right therapy target in early Huntington disease?. Neurology, 2017, 88, 116-117.	1.5	0
29	White matter and cortical changes in atypical parkinsonisms: A multimodal quantitative MR study. Parkinsonism and Related Disorders, 2017, 39, 44-51.	1.1	26
30	Proton MR Spectroscopy in Patients With Sleep-Related Hypermotor Epilepsy (SHE): Evidence of Altered Cingulate Cortex Metabolism. Sleep, 2017, 40, .	0.6	2
31	Metabolic Imaging in Prostate Cancer: Where We Are. Frontiers in Oncology, 2016, 6, 225.	1.3	21
32	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
33	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
34	Accuracy of MR markers for differentiating Progressive Supranuclear Palsy from Parkinson's disease. NeuroImage: Clinical, 2016, 11, 736-742.	1.4	46
35	Liver transplantation for mitochondrial neurogastrointestinal encephalomyopathy. Annals of Neurology, 2016, 80, 448-455.	2.8	81
36	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

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37	â€˜Behr syndromeâ€™ with OPA1 compound heterozygote mutations. Brain, 2015, 138, e321-e321.	3.7	50
38	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
39	Binary and Multi-class Parkinsonian Disorders Classification Using Support Vector Machines. Lecture Notes in Computer Science, 2015, , 379-386.	1.0	2
40	Mutations in SLC25A46, encoding a UGO1-like protein, cause an optic atrophy spectrum disorder. Nature Genetics, 2015, 47, 926-932.	9.4	166
41	Syndromic parkinsonism and dementia associated with <scp>OPA</scp>1 missense mutations. Annals of Neurology, 2015, 78, 21-38.	2.8	154
42	Brain magnetic resonance metabolic and microstructural changes in adult-onset autosomal dominant leukodystrophy. Brain Research Bulletin, 2015, 117, 24-31.	1.4	12
43	Narcolepsy is a common phenotype in HSAN IE and ADCA-DN. Brain, 2014, 137, 1643-1655.	3.7	49
44	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
45	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
46	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
47	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
48	Imaging Brain Functional and Metabolic Changes in Restless Legs Syndrome. Current Neurology and Neuroscience Reports, 2013, 13, 372.	2.0	21
49	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
50	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
51	Low brain iron content in idiopathic restless legs syndrome patients detected by phase imaging. Movement Disorders, 2013, 28, 1886-1890.	2.2	98
52	Abnormal medial thalamic metabolism in patients with idiopathic restless legs syndrome. Brain, 2012, 135, 3712-3720.	3.7	59
53	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
54	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

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55	Magnetic resonance imaging and spectroscopy in the evaluation of neuromuscular disorders and fatigue. Neuromuscular Disorders, 2012, 22, S187-S191.	0.3	7
56	Metabolites and Migraine. , 2012, , 251-273.		3
57	Secondary Post-Geniculate Involvement in Leberâ€™s Hereditary Optic Neuropathy. PLoS ONE, 2012, 7, e50230.	1.1	33
58	Brain diffusionâ€weighted imaging in Friedreich's ataxia. Movement Disorders, 2011, 26, 705-712.	2.2	52
59	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
60	A clinically complex form of dominant optic atrophy (OPA8) maps on chromosome 16. Human Molecular Genetics, 2011, 20, 1893-1905.	1.4	36
61	A new case of idiopathic hemiplegia hemiconvulsion syndrome. Neurological Sciences, 2010, 31, 799-805.	0.9	5
62	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
63	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
64	Spinocerebellar ataxia type 12 identified in two Italian families may mimic sporadic ataxia. Movement Disorders, 2010, 25, 1269-1273.	2.2	25
65	Narcolepsy with cataplexy associated with holoprosencephaly misdiagnosed as epileptic drop attacks. Movement Disorders, 2010, 25, 788-790.	2.2	13
66	Visual system involvement in patients with Friedreich's ataxia. Brain, 2009, 132, 116-123.	3.7	146
67	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
68	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
69	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
70	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
71	Narcolepsy-like syndrome in multiple sclerosis. Sleep Medicine, 2009, 10, 389-391.	0.8	20
72	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

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73	Randomized, placeboâ€controlled, doubleâ€blind pilot trial of ramipril in McArdle's disease. Muscle and Nerve, 2008, 37, 350-357.	1.0	33
74	Idebenone in Friedreich's ataxia. Expert Opinion on Pharmacotherapy, 2008, 9, 2327-2337.	0.9	36
75	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
76	Prostate Cancer: Sextant Localization with MR Imaging, MR Spectroscopy, and¹¹C-Choline PET/CT. Radiology, 2007, 244, 797-806.	3.6	193
77	Diffusion-weighted imaging study of patients with essential tremor. Movement Disorders, 2007, 22, 1182-1185.	2.2	67
78	Friedreich's Ataxia: From Disease Mechanisms to Therapeutic Interventions. Antioxidants and Redox Signaling, 2006, 8, 438-443.	2.5	71
79	Energy metabolism in migraine. Neurological Sciences, 2006, 27, s82-s85.	0.9	9
80	A case of fragile X premutation tremor/ataxia syndrome with evidence of mitochondrial dysfunction. Movement Disorders, 2006, 21, 1541-1542.	2.2	9
81	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
82	Study of hypothalamic metabolism in cluster headache by proton MR spectroscopy. Neurology, 2006, 66, 1264-1266.	1.5	69
83	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
84	Antioxidant Treatment of Patients With Friedreich Ataxia. Archives of Neurology, 2005, 62, 621.	4.9	211
85	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
86	Oxidative stress, mitochondrial dysfunction and cellular stress response in Friedreich's ataxia. Journal of the Neurological Sciences, 2005, 233, 145-162.	0.3	361
87	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
88	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
89	Deficit of in vivo mitochondrial ATP production in OPA1-related dominant optic atrophy. Annals of Neurology, 2004, 56, 719-723.	2.8	132
90	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

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91	Cardiac bioenergetics in Friedreich's ataxia. Annals of Neurology, 2003, 54, 552-552.	2.8	4
92	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
93	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
94	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
95	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
96	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
97	Antioxidant treatment improves in vivo cardiac and skeletal muscle bioenergetics in patients with Friedreich's ataxia. , 2001, 49, 590.		4
98	Very low levels of the mtDNA A3243G mutation associated with mitochondrial dysfunction in vivo. Annals of Neurology, 2000, 47, 381-384.	2.8	63
99	Magnetic resonance spectroscopy of episodic ataxia type 2 and migraine. Annals of Neurology, 2000, 47, 838-839.	2.8	9
100	Very low levels of the mtDNA A3243G mutation associated with mitochondrial dysfunction in vivo. , 2000, 47, 381.		1
101	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
102	Low Brain Intracellular Free Magnesium in Mitochondrial Cytopathies. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 528-532.	2.4	39
103	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
104	Phosphorus magnetic resonance spectroscopy in multiple system atrophy and Parkinson's disease. Movement Disorders, 1999, 14, 430-435.	2.2	64
105	Aspects of human bioenergetics as studied in vivo by magnetic resonance spectroscopy. Biochimie, 1998, 80, 847-853.	1.3	14
106	Heterogeneity in chronic fatigue syndrome: evidence from magnetic resonance spectroscopy of muscle. Neuromuscular Disorders, 1998, 8, 204-209.	0.3	59
107	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
108	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

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109	In vivo assessment of human skeletal muscle mitochondria respiration in health and disease. Molecular and Cellular Biochemistry, 1997, 174, 11-15.	1.4	8
110	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
111	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
112	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
113	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
114	Epilepsia partialis continua associated with NADH-coenzyme Q reductase deficiency. Journal of the Neurological Sciences, 1995, 129, 152-161.	0.3	25
115	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