

Emil Malucelli

List of Publications by Year in descending order

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54
papers

1,844
citations

279487

23
h-index

264894

42
g-index

57
all docs

57
docs citations

57
times ranked

3106
citing authors

#	ARTICLE	IF	CITATIONS
1	Apparent diffusion coefficient measurements of the middle cerebellar peduncle differentiate the Parkinson variant of MSA from Parkinson's disease and progressive supranuclear palsy. <i>Brain</i> , 2006, 129, 2679-2687.	3.7	206
2	Diffusion tensor MRI changes in cerebellar structures of patients with familial essential tremor. <i>Neurology</i> , 2010, 74, 988-994.	1.5	134
3	Deficit of in vivo mitochondrial ATP production in OPA1-related dominant optic atrophy. <i>Annals of Neurology</i> , 2004, 56, 719-723.	2.8	132
4	Diffusion-weighted brain imaging study of patients with clinical diagnosis of corticobasal degeneration, progressive supranuclear palsy and Parkinson's disease. <i>Brain</i> , 2008, 131, 2690-2700.	3.7	131
5	Low brain iron content in idiopathic restless legs syndrome patients detected by phase imaging. <i>Movement Disorders</i> , 2013, 28, 1886-1890.	2.2	98
6	Apparent diffusion coefficient of the superior cerebellar peduncle differentiates progressive supranuclear palsy from Parkinson's disease. <i>Movement Disorders</i> , 2008, 23, 2370-2376.	2.2	96
7	Pathologic correlates of diffusion MRI changes in Creutzfeldt-Jakob disease. <i>Neurology</i> , 2009, 72, 1425-1431.	1.5	81
8	Abnormal medial thalamic metabolism in patients with idiopathic restless legs syndrome. <i>Brain</i> , 2012, 135, 3712-3720.	3.7	59
9	Coumarin derivatives as potential antitumor agents: Growth inhibition, apoptosis induction and multidrug resistance reverting activity. <i>European Journal of Medicinal Chemistry</i> , 2017, 127, 577-585.	2.6	56
10	Prognostic value of brain proton MR spectroscopy and diffusion tensor imaging in newborns with hypoxic-ischemic encephalopathy treated by brain cooling. <i>Neuroradiology</i> , 2013, 55, 1017-1025.	1.1	54
11	Brain diffusion-weighted imaging in Friedreich's ataxia. <i>Movement Disorders</i> , 2011, 26, 705-712.	2.2	52
12	Synthesis of a highly Mg ²⁺ -selective fluorescent probe and its application to quantifying and imaging total intracellular magnesium. <i>Nature Protocols</i> , 2017, 12, 461-471.	5.5	43
13	Magnetic resonance diagnostic markers in clinically sporadic prion disease: a combined brain magnetic resonance imaging and spectroscopy study. <i>Brain</i> , 2009, 132, 2669-2679.	3.7	42
14	Effects of exercise-induced intracellular acidosis on the phosphocreatine recovery kinetics: a ³¹ P MRS study in three muscle groups in humans. <i>NMR in Biomedicine</i> , 2013, 26, 1403-1411.	1.6	42
15	Combined brain voxel-based morphometry and diffusion tensor imaging study in idiopathic Restless Legs Syndrome patients. <i>European Journal of Neurology</i> , 2012, 19, 1045-1049.	1.7	41
16	Defective Mitochondrial Adenosine Triphosphate Production in Skeletal Muscle From Patients With Dominant Optic Atrophy Due to OPA1 Mutations. <i>Archives of Neurology</i> , 2011, 68, 67-73.	4.9	36
17	Randomized, placebo-controlled, double-blind pilot trial of ramipril in McArdle's disease. <i>Muscle and Nerve</i> , 2008, 37, 350-357.	1.0	33
18	Secondary Post-Geniculate Involvement in Leber's Hereditary Optic Neuropathy. <i>PLoS ONE</i> , 2012, 7, e50230.	1.1	33

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19	Quantitative Chemical Imaging of the Intracellular Spatial Distribution of Fundamental Elements and Light Metals in Single Cells. <i>Analytical Chemistry</i> , 2014, 86, 5108-5115.	3.2	32
20	Nanoscale quantification of intracellular element concentration by X-ray fluorescence microscopy combined with X-ray phase contrast nanotomography. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	32
21	Diffusion Tensor Imaging Mapping of Brain White Matter Pathology in Mitochondrial Optic Neuropathies. <i>American Journal of Neuroradiology</i> , 2015, 36, 1259-1265.	1.2	28
22	Chemical Fingerprint of Zn ²⁺ -Hydroxyapatite in the Early Stages of Osteogenic Differentiation. <i>ACS Central Science</i> , 2019, 5, 1449-1460.	5.3	26
23	A novel fluorescent chemosensor allows the assessment of intracellular total magnesium in small samples. <i>Analyst</i> , 2014, 139, 1201-1207.	1.7	24
24	Design, synthesis and biological profile of new inhibitors of multidrug resistance associated proteins carrying a polycyclic scaffold. <i>European Journal of Medicinal Chemistry</i> , 2015, 92, 471-480.	2.6	24
25	Where is it and how much? Mapping and quantifying elements in single cells. <i>Analyst</i> , 2016, 141, 5221-5235.	1.7	23
26	Overexpression of the mitochondrial Mg channel MRS2 increases total cellular Mg concentration and influences sensitivity to apoptosis. <i>Metallomics</i> , 2018, 10, 917-928.	1.0	21
27	Magnesium Deprivation Potentiates Human Mesenchymal Stem Cell Transcriptional Remodeling. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1410.	1.8	21
28	Clinical and neuroimaging evidence of interictal cerebellar dysfunction in FHM2. <i>Cephalalgia</i> , 2010, 30, 552-559.	1.8	20
29	Increase of free Mg ²⁺ in the skeletal muscle of chronic fatigue syndrome patients. <i>Dynamic Medicine: DM</i> , 2006, 5, 1.	2.7	18
30	Single cell versus large population analysis: cell variability in elemental intracellular concentration and distribution. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 337-348.	1.9	17
31	Analysis of Intracellular Magnesium and Mineral Depositions during Osteogenic Commitment of 3D Cultured Saos2 Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2368.	1.8	16
32	The complex relationship between magnesium and serum parathyroid hormone: a study in patients with chronic intestinal failure. <i>Magnesium Research</i> , 2009, 22, 37-43.	0.4	15
33	Pitfalls and advantages of different strategies for the absolute quantification of ¹⁵ N-acetyl aspartate, creatine and choline in white and grey matter by ¹ H-MRS. <i>NMR in Biomedicine</i> , 2009, 22, 1003-1013.	1.6	15
34	Antitumor Potential and Phytochemical Profile of Plants from Sardinia (Italy), a Hotspot for Biodiversity in the Mediterranean Basin. <i>Plants</i> , 2020, 9, 26.	1.6	15
35	Survey of MRI Usefulness for the Clinical Assessment of Bone Microstructure. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2509.	1.8	15
36	Assessment of glutamate and glutamine contribution to in vivo N-acetylaspartate quantification in human brain by ¹ H-magnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1333-1339.	1.9	14

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37	3D Quantitative and Ultrastructural Analysis of Mitochondria in a Model of Doxorubicin Sensitive and Resistant Human Colon Carcinoma Cells. <i>Cancers</i> , 2019, 11, 1254.	1.7	14
38	Cytosolic pH buffering during exercise and recovery in skeletal muscle of patients with McArdle's disease. <i>European Journal of Applied Physiology</i> , 2009, 105, 687-694.	1.2	12
39	X-ray fluorescence microscopy of light elements in cells: self-absorption correction by integration of compositional and morphological measurements. <i>Journal of Physics: Conference Series</i> , 2013, 463, 012022.	0.3	12
40	Analysis of <i>Artemisia annua</i> extracts and related products by high performance liquid chromatography-tandem mass spectrometry coupled to sample treatment miniaturisation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 174, 81-88.	1.4	10
41	p53-dependent and p53-independent anticancer activity of a new indole derivative in human osteosarcoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2015, 467, 348-353.	1.0	9
42	Free Mg ²⁺ concentration in the calf muscle of glycogen phosphorylase and phosphofructokinase deficiency patients assessed in different metabolic conditions by ³¹ P MRS. <i>Dynamic Medicine: DM</i> , 2005, 4, 7.	2.7	8
43	Calcite as a Precursor of Hydroxyapatite in the Early Biomineralization of Differentiating Human Bone-Marrow Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4939.	1.8	8
44	Multifaceted activity of polycyclic MDR revertant agents in drug-resistant leukemic cells: Role of the spacer. <i>Bioorganic Chemistry</i> , 2021, 106, 104460.	2.0	5
45	The assessment of intracellular magnesium: different strategies to answer different questions. <i>Magnesium Research</i> , 2020, 33, 1-11.	0.4	5
46	The role of pH on the thermodynamics and kinetics of muscle biochemistry: An in vivo study by ³¹ P-MRS in patients with myo-phosphorylase deficiency. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 1244-1249.	0.5	3
47	Assessment and Imaging of Intracellular Magnesium in SaOS-2 Osteosarcoma Cells and Its Role in Proliferation. <i>Nutrients</i> , 2021, 13, 1376.	1.7	3
48	Fluorescence lifetime imaging of intracellular magnesium content in live cells. <i>Analyst, The</i> , 2019, 144, 1876-1880.	1.7	2
49	Repeatability and reproducibility of intracellular molar concentration assessed by synchrotron-based x-ray fluorescence microscopy. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
50	Implementation of an iterative approach to optimize synchrotron X-ray fluorescence quantification of light elements in single cell. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 149, 132-142.	1.5	1
51	Concentration and distribution of silica nanoparticles in colon cancer cells assessed by synchrotron based X-ray techniques. <i>Talanta</i> , 2019, 202, 251-258.	2.9	1
52	Natural-like Chalcones with Antitumor Activity on Human MG63 Osteosarcoma Cells. <i>Molecules</i> , 2022, 27, 3751.	1.7	1
53	Free magnesium concentration in human brain. , 0, , 3-12.		0
54	Magnesium intracellular content and distribution map in drug-resistant and -sensitive whole cells. <i>Journal of Biological Research (Italy)</i> , 2014, 87, .	0.0	0