

Stefano Iotti

List of Publications by Year in descending order

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citations

236925

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44
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76
all docs

76
docs citations

76
times ranked

2748
citing authors

#	ARTICLE	IF	CITATIONS
1	The relevance of magnesium homeostasis in COVID-19. European Journal of Nutrition, 2022, 61, 625-636.	3.9	42
2	Survey of MRI Usefulness for the Clinical Assessment of Bone Microstructure. International Journal of Molecular Sciences, 2021, 22, 2509.	4.1	15
3	Imbalance of Mg Homeostasis as a Potential Biomarker in Colon Cancer. Diagnostics, 2021, 11, 727.	2.6	5
4	Assessment and Imaging of Intracellular Magnesium in SaOS-2 Osteosarcoma Cells and Its Role in Proliferation. Nutrients, 2021, 13, 1376.	4.1	3
5	Calcite as a Precursor of Hydroxyapatite in the Early Biomineralization of Differentiating Human Bone-Marrow Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2021, 22, 4939.	4.1	8
6	Multifaceted activity of polycyclic MDR revertant agents in drug-resistant leukemic cells: Role of the spacer. Bioorganic Chemistry, 2021, 106, 104460.	4.1	5
7	Chemical and biochemical thermodynamics reunification (IUPAC Technical Report). Pure and Applied Chemistry, 2021, 93, 243-252.	1.9	2
8	Magnesium favors the capacity of vitamin D3 to induce the monocyte differentiation of U937 cells. Magnesium Research, 2021, 34, 114-129.	0.5	1
9	The COVID-19 pandemic: is there a role for magnesium? Hypotheses and perspectives. Magnesium Research, 2020, 33, 21-27.	0.5	55
10	Going to the roots of reduced magnesium dietary intake: A tradeoff between climate changes and sources. Heliyon, 2020, 6, e05390.	3.2	34
11	Analysis of Intracellular Magnesium and Mineral Depositions during Osteogenic Commitment of 3D Cultured Saos2 Cells. International Journal of Molecular Sciences, 2020, 21, 2368.	4.1	16
12	The assessment of intracellular magnesium: different strategies to answer different questions. Magnesium Research, 2020, 33, 1-11.	0.5	5
13	Chemical Fingerprint of Zn-Hydroxyapatite in the Early Stages of Osteogenic Differentiation. ACS Central Science, 2019, 5, 1449-1460.	11.3	26
14	3D Quantitative and Ultrastructural Analysis of Mitochondria in a Model of Doxorubicin Sensitive and Resistant Human Colon Carcinoma Cells. Cancers, 2019, 11, 1254.	3.7	14
15	Magnesium Is a Key Regulator of the Balance between Osteoclast and Osteoblast Differentiation in the Presence of Vitamin D3. International Journal of Molecular Sciences, 2019, 20, 385.	4.1	63
16	Dansyl acetyl trehalose: a novel tool to investigate the cellular fate of trehalose. RSC Advances, 2019, 9, 15350-15356.	3.6	2
17	Fluorescence lifetime imaging of intracellular magnesium content in live cells. Analyst, The, 2019, 144, 1876-1880.	3.5	2
18	Nanoscale quantification of intracellular element concentration by X-ray fluorescence microscopy combined with X-ray phase contrast nanotomography. Applied Physics Letters, 2018, 112, .	3.3	32

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19	Single cell versus large population analysis: cell variability in elemental intracellular concentration and distribution. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 337-348.	3.7	17
20	Overexpression of the mitochondrial Mg channel MRS2 increases total cellular Mg concentration and influences sensitivity to apoptosis. <i>Metallomics</i> , 2018, 10, 917-928.	2.4	21
21	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.	2.9	1
22	Magnesium Deprivation Potentiates Human Mesenchymal Stem Cell Transcriptional Remodeling. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1410.	4.1	21
23	The different expression of TRPM7 and MagT1 impacts on the proliferation of colon carcinoma cells sensitive or resistant to doxorubicin. <i>Scientific Reports</i> , 2017, 7, 40538.	3.3	16
24	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.	12.0	43
25	Actomyosin interaction at low ATP concentrations. <i>European Biophysics Journal</i> , 2017, 46, 195-202.	2.2	1
26	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.	5.5	56
27	Chemical and biochemical thermodynamics: Is it time for a reunification?. <i>Biophysical Chemistry</i> , 2017, 221, 49-57.	2.8	6
28	Where is it and how much? Mapping and quantifying elements in single cells. <i>Analyst</i> , 2016, 141, 5221-5235.	3.5	23
29	Human CNNM2 is not a Mg ²⁺ transporter per se. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 1223-1240.	2.8	38
30	Magnesium homeostasis in colon carcinoma LoVo cells sensitive or resistant to doxorubicin. <i>Scientific Reports</i> , 2015, 5, 16538.	3.3	45
31	Effects of supplementation with different Mg salts in cells: is there a clue?. <i>Magnesium Research</i> , 2014, 27, 25-34.	0.5	16
32	Magnesium intracellular content and distribution map in drug-resistant and -sensitive whole cells. <i>Journal of Biological Research (Italy)</i> , 2014, 87, .	0.1	0
33	Intracellular magnesium content changes during mitochondria-mediated apoptosis: in depth study of early events on mitochondrial membrane potential. <i>Journal of Biological Research (Italy)</i> , 2014, 87, .	0.1	3
34	New perspective in the assessment of total intracellular magnesium. <i>Journal of Biological Research (Italy)</i> , 2014, 87, .	0.1	0
35	Monitoring magnesium efflux cyclic AMP-induced in HL60 cells by using a new hydroxyquinoline fluorescent chemosensor. <i>Journal of Biological Research (Italy)</i> , 2014, 87, .	0.1	0
36	Substituted E-3-(3-indolylmethylene)1,3-dihydroindol-2-ones with antiproliferative activity. Study of the effects on HL-60 leukemia cells. <i>European Journal of Medicinal Chemistry</i> , 2014, 79, 382-390.	5.5	4

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37	A novel fluorescent chemosensor allows the assessment of intracellular total magnesium in small samples. <i>Analyst</i> , The, 2014, 139, 1201-1207.	3.5	24
38	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.	6.5	32
39	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.	2.8	42
40	Expanding the targets of the diaza-18-crown-6 hydroxyquinoline derivatives family to Zn(II) ions for intracellular sensing. <i>Supramolecular Chemistry</i> , 2013, 25, 7-15.	1.2	7
41	Diaza-18-crown-6 hydroxyquinoline derivatives as flexible tools for the assessment and imaging of total intracellular magnesium. <i>Chemical Science</i> , 2012, 3, 727-734.	7.4	25
42	Balanced Biochemical Reactions: A New Approach to Unify Chemical and Biochemical Thermodynamics. <i>PLoS ONE</i> , 2012, 7, e29529.	2.5	5
43	Intracellular magnesium content decreases during mitochondria-mediated apoptosis induced by a new indole-derivative in human colon cancer cells. <i>Magnesium Research</i> , 2012, 25, 104-111.	0.5	14
44	Intracellular concentration map of magnesium in whole cells by combined use of X-ray fluorescence microscopy and atomic force microscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 834-840.	2.9	20
45	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.	1.0	3
46	Characterization of the cell growth inhibitory effects of a novel DNA-intercalating bipyridyl-thiourea-Pt(II) complex in cisplatin-sensitive and -resistant human ovarian cancer cells. <i>Investigational New Drugs</i> , 2011, 29, 73-86.	2.6	23
47	Oscillations in energy metabolism. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1353-1361.	1.0	31
48	Chemical and Biochemical Thermodynamics: From ATP Hydrolysis to a General Reassessment. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1985-1993.	2.6	25
49	Novel Approach Applied to IVMA to Study the Modulation of the Actomyosin Interaction by MgATP In Fast Skeletal Muscle. <i>Biophysical Journal</i> , 2010, 98, 145a.	0.5	1
50	Intracellular magnesium detection: imaging a brighter future. <i>Analyst</i> , The, 2010, 135, 1855.	3.5	75
51	Microwave Assisted Synthesis of a Small Library of Substituted N,N'-Bis((8-hydroxy-7-quinolinyl)methyl)-1,10-diaza-18-crown-6 Ethers. <i>Journal of Organic Chemistry</i> , 2010, 75, 6275-6278.	3.2	23
52	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.	0.5	15
53	Pitfalls and advantages of different strategies for the absolute quantification of ¹ H-NMR of acetyl aspartate, creatine and choline in white and grey matter by ¹ H-MRS. <i>NMR in Biomedicine</i> , 2009, 22, 1003-1013.	2.8	15
54	A Simple Spectrofluorometric Assay to Measure Total Intracellular Magnesium by a Hydroxyquinoline Derivative. <i>Journal of Fluorescence</i> , 2009, 19, 11-19.	2.5	27

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55	In vivo assessment of Mg ²⁺ in human brain and skeletal muscle by ³¹ P-MRS. Magnesium Research, 2008, 21, 157-62.	0.5	22
56	8-Hydroxyquinoline Derivatives as Fluorescent Sensors for Magnesium in Living Cells. Journal of the American Chemical Society, 2006, 128, 344-350.	13.7	273
57	Increase of free Mg ²⁺ in the skeletal muscle of chronic fatigue syndrome patients. Dynamic Medicine: DM, 2006, 5, 1.	2.8	18
58	Assessment of glutamate and glutamine contribution to in vivo N-acetylaspartate quantification in human brain by ¹ H-magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2005, 54, 1333-1339.	3.0	14
59	Free Mg ²⁺ concentration in the calf muscle of glycogen phosphorylase and phosphofructokinase deficiency patients assessed in different metabolic conditions by ³¹ P MRS. Dynamic Medicine: DM, 2005, 4, 7.	2.8	8
60	Quantitative mathematical expressions for accurate in vivo assessment of cytosolic [ADP] and ³¹ P of ATP hydrolysis in the human brain and skeletal muscle. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 164-177.	1.0	36
61	Deficit of in vivo mitochondrial ATP production in OPA1-related dominant optic atrophy. Annals of Neurology, 2004, 56, 719-723.	5.3	132
62	Complex formation equilibria of phosphocreatine with sodium, potassium and magnesium ions. Polyhedron, 2002, 21, 1481-1484.	2.2	9
63	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.	3.0	103
64	Low Brain Intracellular Free Magnesium in Mitochondrial Cytopathies. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 528-532.	4.3	39
65	Improved brain and muscle mitochondrial respiration with CoQ. An <i>in vivo</i> study by ³¹ P-MR spectroscopy in patients with mitochondrial cytopathies. BioFactors, 1999, 9, 253-260.	5.4	46
66	Aspects of human bioenergetics as studied in vivo by magnetic resonance spectroscopy. Biochimie, 1998, 80, 847-853.	2.6	14
67	Clinical and brain bioenergetics improvement with idebenone in a patient with Leber's hereditary optic neuropathy: a clinical and ³¹ P-MRS study. Journal of the Neurological Sciences, 1997, 148, 25-31.	0.6	76
68	Failure of muscle energy metabolism in a patient with adenylosuccinate lyase deficiency. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1997, 1360, 271-276.	3.8	18
69	In vivo assessment of human skeletal muscle mitochondria respiration in health and disease. Molecular and Cellular Biochemistry, 1997, 174, 11-15.	3.1	8
70	Influence of cytosolic pH on in vivo assessment of human muscle mitochondrial respiration by phosphorus magnetic resonance spectroscopy. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1997, 5, 165-171.	2.0	40
71	Deficit of Brain and Skeletal Muscle Bioenergetics and Low Brain Magnesium in Juvenile Migraine: An In Vivo ³¹ P Magnetic Resonance Spectroscopy Interictal Study. Pediatric Research, 1997, 42, 866-871.	2.3	64
72	Defective Brain Energy Metabolism Shown by in vivo ³¹ P MR Spectroscopy in 28 Patients with Mitochondrial Cytopathies. Journal of Cerebral Blood Flow and Metabolism, 1993, 13, 469-474.	4.3	105

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73	Interactions of nucleic acids with distamycins. Binding of Dst-3 to d(CGTTTAAACG)2and d(CGTACGTACG)2. Nucleic Acids Research, 1991, 19, 1695-1698.	14.5	8