Maria Grazia Tozzi

List of Publications by Year
in descending order

91 papers	2,275 citations	257101 24 h-index	243296 44 g-index
91 all docs	91 docs citations	91 times ranked	2516 citing authors

#	Article	IF	Citations
1	Local Delivery of Human Tissue Kallikrein Gene Accelerates Spontaneous Angiogenesis in Mouse Model of Hindlimb Ischemia. Circulation, 2001, 103, 125-132.	1.6	186
2	Dilated and Failing Cardiomyopathy in Bradykinin B2Receptor Knockout Mice. Circulation, 1999, 100, 2359-2365.	1.6	168
3	Pentose phosphates in nucleoside interconversion and catabolism. FEBS Journal, 2006, 273, 1089-1101.	2.2	138
4	5â€²-aminoimidazole-4-carboxamide riboside induces apoptosis in human neuroblastoma cells. Neuroscience, 2003, 117, 811-820.	1.1	106
5	Neurological Disorders of Purine and Pyrimidine Metabolism. Current Topics in Medicinal Chemistry, 2011, 11, 923-947.	1.0	92
6	Metabolic Network of Nucleosides in the Brain. Current Topics in Medicinal Chemistry, 2011, 11, 909-922.	1.0	79
7	The Bifunctional Cytosolic 5â€²-Nucleotidase: Regulation of the Phosphotransferase and Nucleotidase Activities. Archives of Biochemistry and Biophysics, 1994, 312, 75-80.	1.4	72
8	Pediatric neurological syndromes and inborn errors of purine metabolism. Neurochemistry International, 2010, 56, 367-378.	1.9	70
9	Bovine Cytosolic 5â€²-Nucleotidase Acts through the Formation of an Aspartate 52-Phosphoenzyme Intermediate. Journal of Biological Chemistry, 2001, 276, 33526-33532.	1.6	59
10	Nucleoside phosphotransferase activity of human colon carcinoma cytosolic 5â€²-nucleotidase. Archives of Biochemistry and Biophysics, 1991, 291, 212-217.	1.4	55
11	Purine-Metabolising Enzymes and Apoptosis in Cancer. Cancers, 2019, 11, 1354.	1.7	54
12	The Inside Story of Adenosine. International Journal of Molecular Sciences, 2018, 19, 784.	1.8	52
13	Cytosolic 5â€²-nucleotidase hyperactivity in erythrocytes of Leschâ€“Nyhan syndrome patients. NeuroReport, 2000, 11, 1827-1831.	0.6	50
14	Emerging Role of Purine Metabolizing Enzymes in Brain Function and Tumors. International Journal of Molecular Sciences, 2018, 19, 3598.	1.8	48
15	Purine and pyrimidine nucleosides preserve human astrocytoma cell adenylate energy charge under ischemic conditions. Neurochemistry International, 2007, 50, 517-523.	1.9	44
16	Bovine lens aldose reductase: Tight binding of the pyridine coenzyme. Archives of Biochemistry and Biophysics, 1990, 283, 512-518.	1.4	43
17	Bovine cytosolic IMP/GMP-specific 5â€²-nucleotidase: cloning and expression of active enzyme in Escherichia coli. Biochemical Journal, 1997, 328, 483-487.	1.7	40
18	Knockdown of cytosolic 5â€²-nucleotidase II (cN-II) reveals that its activity is essential for survival in astrocytoma cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1529-1535.	1.9	39

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19	The phosphotransferase activity of cytosolic 5â€²-nucleotidase; a purine analog phosphorylating enzyme. International Journal of Biochemistry and Cell Biology, 1996, 28, 711-720.	1.2	35
20	Purine and Pyrimidine Salvage in Whole Rat Brain. Journal of Biological Chemistry, 2002, 277, 9865-9869.	1.6	35
21	Cell-specific pattern of berberine pleiotropic effects on different human cell lines. Scientific Reports, 2018, 8, 10599.	1.6	34
22	Interplay between adenylate metabolizing enzymes and AMPâ€activated protein kinase. FEBS Journal, 2018, 285, 3337-3352.	2.2	32
23	On the Physiological Role of Cytosolic 5â€™-nucleotidase II (cN-II): Pathological and Therapeutical Implications.. Current Medicinal Chemistry, 2013, 20, 4285-4291.	1.2	32
24	Metabolic Aspects of Adenosine Functions in the Brain. Frontiers in Pharmacology, 2021, 12, 672182.	1.6	27
25	Channelling of Deoxyribose Moiety of Exogenous DNA into Carbohydrate Metabolism: Role of Deoxyriboaldolase. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1997, 117, 253-257.	0.7	25
26	Mechanistic studies on bovine cytosolic 5'-nucleotidase II, an enzyme belonging to the HAD superfamily. FEBS Journal, 2004, 271, 4881-4891.	0.2	24
27	Purine enzyme profile in human colon-carcinoma cell lines and differential sensitivity to deoxycoformycin and 2â€²-deoxyadenosine in combination. International Journal of Cancer, 1995, 62, 176-183.	2.3	22
28	By Releasing ADP, Acanthamoeba castellanii Causes an Increase in the Cytosolic Free Calcium Concentration and Apoptosis in Wish Cells. Infection and Immunity, 2001, 69, 4134-4140.	1.0	22
29	Induction and repression of enzymes involved in exogenous purine compound utilization in Bacillus cereus. Biochimica Et Biophysica Acta - General Subjects, 1981, 678, 460-466.	1.1	21
30	Uptake and utilization of nucleosides for energy repletion. International Journal of Biochemistry and Cell Biology, 2005, 37, 797-808.	1.2	21
31	Mechanism of the reaction catalysed by cytosolic 5â€²-nucleotidase/phosphotransferase: formation of a phosphorylated intermediate. Biochemical Journal, 1996, 317, 797-801.	1.7	20
32	Molecular mechanisms of nucleoside recycling in the brain. International Journal of Biochemistry and Cell Biology, 2011, 43, 140-145.	1.2	19
33	Partial purification and characterization of a proteolytic activity of alfalfa juice. Journal of Agricultural and Food Chemistry, 1981, 29, 1075-1078.	2.4	18
34	Recent advances in structure and function of cytosolic IMP-GMP specific 5â€²nucleotidase II (cN-II). Purinergic Signalling, 2006, 2, 669-675.	1.1	18
35	The purine analog fludarabine acts as a cytosolic 5â€²-nucleotidase II inhibitor. Biochemical Pharmacology, 2015, 94, 63-68.	2.0	18
36	Cell proliferation and drug sensitivity of human glioblastoma cells are altered by the stable modulation of cytosolic 5â€²-nucleotidase II. International Journal of Biochemistry and Cell Biology, 2015, 65, 222-229.	1.2	18

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37	5Ââ€²-Amino-4-Imidazolecarboxamide Riboside Induces Apoptosis in Human Neuroblastoma Cells Via the Mitochondrial Pathway. Nucleosides, Nucleotides and Nucleic Acids, 2006, 25, 1265-1270.	0.4	17
38	Metabolic interplay between intra- and extra-cellular uridine metabolism via an ATP driven uridineâ€“UTP cycle in brain. International Journal of Biochemistry and Cell Biology, 2010, 42, 932-937.	1.2	17
39	Cytosolic 5â€™-Nucleotidase II Interacts with the Leucin Rich Repeat of NLR Family Member Ipaf. PLoS ONE, 2015, 10, e0121525.	1.1	17
40	The druggability of intracellular nucleotide-degrading enzymes. Cancer Chemotherapy and Pharmacology, 2016, 77, 883-893.	1.1	16
41	Deoxyribose 5-phosphate aldolase of Bacillus cereus: purification and properties. BBA - Proteins and Proteomics, 1992, 1118, 130-133.	2.1	15
42	Active and regulatory sites of cytosolic 5â€²â€nucleotidase. FEBS Journal, 2010, 277, 4863-4872.	2.2	15
43	Novel metabolic aspects related to adenosine deaminase inhibition in a human astrocytoma cell line. Neurochemistry International, 2012, 60, 523-532.	1.9	15
44	IMPâ€“GMP specific cytosolic 5â€²-nucleotidase regulates nucleotide pool and prodrug metabolism. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1354-1361.	1.1	15
45	Cytosolic 5â€²-Nucleotidase II Silencing in a Human Lung Carcinoma Cell Line Opposes Cancer Phenotype with a Concomitant Increase in p53 Phosphorylation. International Journal of Molecular Sciences, 2018, 19, 2115.	1.8	13
46	Expression of Bovine Cytosolic 5â€²-Nucleotidase (cN-II) in Yeast: Nucleotide Pools Disturbance and Its Consequences on Growth and Homologous Recombination. PLoS ONE, 2013, 8, e63914.	1.1	13
47	The cytosolic 5â€²-nucleotidase cN-II lowers the adaptability to glucose deprivation in human breast cancer cells. Oncotarget, 2017, 8, 67380-67393.	0.8	13
48	Induction of phosphoribomutase in Bacillus cereus growing on nucleosides. Biochimica Et Biophysica Acta - General Subjects, 1983, 755, 253-256.	1.1	12
49	Deoxyadenosine metabolism in a human colon-carcinoma cell line (LoVo) in relation to its cytotoxic effect in combination with deoxycoformycin. , 1998, 75, 713-720.		12
50	Structural basis of the substrate specificity ofBacillus cereusadenosine phosphorylase. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 239-248.	2.5	12
51	A coupled optical enzyme assay for phosphopentomutase. Analytical Biochemistry, 1982, 123, 265-269.	1.1	11
52	Synergistic action of ADP and 2,3-bisphosphoglycerate on the modulation of cytosolic 5â€²-nucleotidase. BBA - Proteins and Proteomics, 1996, 1294, 191-194.	2.1	11
53	Identification of the Nucleotidase Responsible for the AMP Hydrolysing Hyperactivity Associated with Neurological and Developmental Disorders. Neurochemical Research, 2008, 33, 59-65.	1.6	11
54	Fat globule membranes in ewes' milk: The main enzyme activities during lactation. International Dairy Journal, 2013, 28, 36-39.	1.5	11

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55	Cytosolic 5â€²-nucleotidase/nucleoside phosphotransferase: A nucleoside analog activating enzyme?. Journal of Biochemical Toxicology, 1994, 9, 51-57.	0.5	10
56	Deoxyribose 1-phosphate: radioenzymatic and spectrophotometric assays. Journal of Proteomics, 1984, 9, 343-350.	2.4	9
57	Purine salvage as a metabolite and energy saving mechanism in the ocular lens. Current Eye Research, 1992, 11, 435-444.	0.7	9
58	2?-Deoxyadenosine causes apoptotic cell death in a human colon carcinoma cell line. Journal of Biochemical and Molecular Toxicology, 2003, 17, 329-337.	1.4	9
59	The combination of adenosine deaminase inhibition and deoxyadenosine induces apoptosis in a human astrocytoma cell line. Neurochemistry International, 2015, 80, 14-22.	1.9	9
60	Mechanisms of Exogenous Purine Nucleotide Utilization in Bacillus cereus. Current Topics in Cellular Regulation, 1985, 26, 419-432.	9.6	9
61	In vitro 5-phosphoribosyl 1-pyrophosphate-independent salvage biosynthesis of ribo- and deoxyriboadenine nucleotides in Bacillus cereus. Biochimica Et Biophysica Acta - General Subjects, 1985, 842, 84-89.	1.1	8
62	Catabolism of exogenous deoxyinosine in cultured epithelial amniotic cells. Biochimica Et Biophysica Acta - General Subjects, 2001, 1528, 74-80.	1.1	8
63	Role of the phosphorolysis of deoxyadenosine in the cytotoxic effect of the combination of deoxyadenosine and deoxycoformycin on a human colon carcinoma cell line (LoVo). Journal of Cellular Biochemistry, 2001, 80, 241-247.	1.2	8
64	Purine nucleoside phosphorylase from bovine lens: purification and properties. BBA - Proteins and Proteomics, 1992, 1160, 163-170.	2.1	7
65	Identification, Separation and Characterisation of Two Forms of Cytosolic 5â€²-Nucleotidase/Nucleoside Phosphotransferase in Calf Thymus. Biological Chemistry, 1998, 379, 699-704.	1.2	7
66	Methods for the determination of intracellular levels of ribose phosphates. Journal of Proteomics, 2006, 68, 145-154.	2.4	7
67	Relationship between activity of some fat globule membrane enzymes and the lipidic fraction in ewes' milk: Preliminary studies. International Dairy Journal, 2010, 20, 61-64.	1.5	7
68	Characterization of the adenine nucleoside specific phosphorylase of Bacillus cereus. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 1498-1505.	1.1	6
69	Initial Studies to Define the Physiologic Role of cN-II. Nucleosides, Nucleotides and Nucleic Acids, 2011, 30, 1155-1160.	0.4	6
70	Cytosolic 5â€²-Nucleotidase II Is a Sensor of Energy Charge and Oxidative Stress: A Possible Function as Metabolic Regulator. Cells, 2021, 10, 182.	1.8	6
71	Evidence for a Cross-Talk Between Cytosolic 5â€²-Nucleotidases and AMP-Activated Protein Kinase. Frontiers in Pharmacology, 2020, 11, 609849.	1.6	6
72	Succinic semialdehyde dehydrogenase of wheat grain. Planta, 1978, 142, 175-180.	1.6	5

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73	Glucose 1,6-bisphosphate decline in human erythrocytes: possible involvement of phosphoglucomutase PGM2 isoenzymes. Canadian Journal of Biochemistry and Cell Biology, 1985, 63, 162-166.	1.3	5
74	Identification and purification of a calcium-binding protein from Bacillus subtilis. BBA - Proteins and Proteomics, 1991, 1080, 160-164.	2.1	5
75	Occurrence of Inosine Kinase as a Distinct Enzyme in Spirulina platensis. Biochemical and Biophysical Research Communications, 1995, 209, 547-553.	1.0	5
76	6-thioguanine resistance in a human colon carcinoma cell line with unaltered levels of hypoxanthine guanine phosphoribosyltransferase activity. , 1999, 82, 556-561.		5
77	Brain nucleoside recycling. Metabolomics, 2013, 9, 271-279.	1.4	5
78	Enhanced migration of breast and lung cancer cells deficient for cN-II and CD73 via COX-2/PGE2/AKT axis regulation. Cellular Oncology (Dordrecht), 2021, 44, 151-165.	2.1	5
79	8-Azaguanosine-5â€²-monophosphate synthesis via nucleoside kinase in cultured chinese hamster lung fibroblasts. Biochemical and Biophysical Research Communications, 1989, 159, 854-861.	1.0	4
80	Mitochondrial Damage and Apoptosis Induced by Adenosine Deaminase Inhibition and Deoxyadenosine in Human Neuroblastoma Cell Lines. Journal of Cellular Biochemistry, 2016, 117, 1671-1679.	1.2	4
81	Cytosolic 5â€²-Nucleotidase II Silencing in Lung Tumor Cells Regulates Metabolism through Activation of the p53/AMPK Signaling Pathway. International Journal of Molecular Sciences, 2021, 22, 7004.	1.8	4
82	Enzymatic synthesis of [ribose-U-14C]8-azaguanosine. Journal of Labelled Compounds and Radiopharmaceuticals, 1989, 27, 533-538.	0.5	3
83	A native electrophoretic technique to study oligomerization and activity of cytosolic 5â€²-nucleotidase II. Analytical and Bioanalytical Chemistry, 2013, 405, 8951-8954.	1.9	3
84	Membrane-bound 5â€²-nucleotidase/nucleoside phosphotransferase from Bacillus cereus. International Journal of Biochemistry & Cell Biology, 1993, 25, 1625-1629.	0.8	2
85	Editorial:Metabolic, Pathological, and Therapeutic Perspectives Intracellular 5â€™-Nucleotidases.. Current Medicinal Chemistry, 2013, 20, 4203-4204.	1.2	2
86	Transcriptional and Metabolic Investigation in 5â€²-Nucleotidase Deficient Cancer Cell Lines. Cells, 2021, 10, 2918.	1.8	2
87	Lens aldo-keto reductase of Camelus dromedarius: purification and properties. Biochimica Et Biophysica Acta - General Subjects, 1989, 993, 116-120.	1.1	1
88	Cytosolic 5â€²-nucleotidase/nucleoside phosphotransferase: a single assay for a bifunctional enzyme. Journal of Proteomics, 1993, 27, 293-299.	2.4	1
89	Identification of the 5â€²â€Nucleotidase Activity Altered in Neurological Syndromes. Nucleosides, Nucleotides and Nucleic Acids, 2004, 23, 1257-1259.	0.4	1
90	Substrates and/or Inhibitors of IMP-GMP Specific Cytosolic 5â€²-Nucleotidase (cN-II). Expert Opinion on Therapeutic Targets, 1997, 1, 191-194.	1.0	0

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91	Spent mushroom substrate from the industrial cultivation of P. ostreatus for discoloring complex chromo-baths for the textile industry: white rot fungi for a sustainable approach to wastewater treatment. , 2010, , .		0