

# Paolo Paoli

## List of Publications by Year in descending order

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101  
papers

3,782  
citations

147726

31  
h-index

143943

57  
g-index

103  
all docs

103  
docs citations

103  
times ranked

6124  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anoikis molecular pathways and its role in cancer progression. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 3481-3498.	1.9	840
2	Dietary polyphenols as antidiabetic agents: Advances and opportunities. <i>Food Frontiers</i> , 2020, 1, 18-44.	3.7	182
3	Morin: A Promising Natural Drug. <i>Current Medicinal Chemistry</i> , 2016, 23, 774-791.	1.2	164
4	Regulation of glucose metabolism by bioactive phytochemicals for the management of type 2 diabetes mellitus. <i>Critical Reviews in Food Science and Nutrition</i> , 2019, 59, 830-847.	5.4	123
5	Antidiabetic activity of some pentacyclic acid triterpenoids, role of PTP1B: In vitro, in silico, and in vivo approaches. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 2243-2251.	2.6	107
6	5-Arylidene-2,4-thiazolidinediones as inhibitors of protein tyrosine phosphatases. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 5137-5149.	1.4	104
7	5-Fluorouracil resistant colon cancer cells are addicted to OXPHOS to survive and enhance stem-like traits. <i>Oncotarget</i> , 2015, 6, 41706-41721.	0.8	103
8	The insulin-mimetic effect of Morin: A promising molecule in diabetes treatment. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 3102-3111.	1.1	97
9	5-Arylidene-2-phenylimino-4-thiazolidinones as PTP1B and LMW-PTP inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 1928-1937.	1.4	79
10	Cancer associated fibroblasts transfer lipids and proteins to cancer cells through cargo vesicles supporting tumor growth. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 3211-3223.	1.9	78
11	Protein N-Homocysteinylation Induces the Formation of Toxic Amyloid-Like Protofibrils. <i>Journal of Molecular Biology</i> , 2010, 400, 889-907.	2.0	75
12	PrP <sup>Sc</sup> activation induces neurite outgrowth and differentiation in PC12 cells: role for caveolin-1 in the signal transduction pathway. <i>Journal of Neurochemistry</i> , 2009, 110, 194-207.	2.1	63
13	Tumor Microenvironment and Metabolism in Prostate Cancer. <i>Seminars in Oncology</i> , 2014, 41, 267-280.	0.8	58
14	Metabolic Reprogramming in Anticancer Drug Resistance: A Focus on Amino Acids. <i>Trends in Cancer</i> , 2021, 7, 682-699.	3.8	56
15	Thermodynamics and Kinetics of Folding of Common-Type Acylphosphatase: A Comparison to the Highly Homologous Muscle Isoenzyme. <i>Biochemistry</i> , 1999, 38, 2135-2142.	1.2	51
16	Synthesis, biological activity and structure-activity relationships of new benzoic acid-based protein tyrosine phosphatase inhibitors endowed with insulinomimetic effects in mouse C2C12 skeletal muscle cells. <i>European Journal of Medicinal Chemistry</i> , 2014, 71, 112-127.	2.6	47
17	Liquid Crystalline Networks toward Regenerative Medicine and Tissue Repair. <i>Small</i> , 2017, 13, 1702677.	5.2	46
18	Human Acid Î²-Glucosidase Inhibition by Carbohydrate Derived Iminosugars: Towards New Pharmacological Chaperones for Gaucher Disease. <i>ChemBioChem</i> , 2015, 16, 2054-2064.	1.3	45

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19	Synthesis, activity and molecular modeling of a new series of chromones as low molecular weight protein tyrosine phosphatase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 2658-2672.	1.4	44
20	Development of Light-Responsive Liquid Crystalline Elastomers to Assist Cardiac Contraction. <i>Circulation Research</i> , 2019, 124, e44-e54.	2.0	44
21	Synthesis, in vitro and computational studies of protein tyrosine phosphatase 1B inhibition of a small library of 2-arylsulfonylaminobenzothiazoles with antihyperglycemic activity. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 3332-3341.	1.4	42
22	Effect of selected strains of lactobacilli on the antioxidant and anti-inflammatory properties of sourdough. <i>International Journal of Food Microbiology</i> , 2018, 286, 55-65.	2.1	40
23	Highly Charged Ruthenium(II) Polypyridyl Complexes as Effective Photosensitizer in Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2019, 25, 10606-10615.	1.7	39
24	uPAR-expressing melanoma exosomes promote angiogenesis by VE-Cadherin, EGFR and uPAR overexpression and rise of ERK1,2 signaling in endothelial cells. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 3057-3072.	2.4	38
25	An investigation on 4-thiazolidinone derivatives as dual inhibitors of aldose reductase and protein tyrosine phosphatase 1B, in the search for potential agents for the treatment of type 2 diabetes mellitus and its complications. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 3712-3720.	1.0	37
26	Liquid Crystalâ€Induced Myoblast Alignment. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801489.	3.9	36
27	Synthesis of oleanolic acid derivatives: InÂvitro, inÂvivo and in silico studies for PTP-1B inhibition. <i>European Journal of Medicinal Chemistry</i> , 2014, 87, 316-327.	2.6	35
28	New 4-[(5-arylidene-2-arylimino-4-oxo-3-thiazolidinyl)methyl]benzoic acids active as protein tyrosine phosphatase inhibitors endowed with insulinomimetic effect on mouse C2C12 skeletal muscle cells. <i>European Journal of Medicinal Chemistry</i> , 2012, 50, 332-343.	2.6	34
29	Protective effect of new S-acylglutathione derivatives against amyloid-induced oxidative stress. <i>Free Radical Biology and Medicine</i> , 2008, 44, 1624-1636.	1.3	33
30	Low molecular weight protein tyrosine phosphatase: Multifaceted functions of an evolutionarily conserved enzyme. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1339-1355.	1.1	33
31	Role of tyrosine phosphorylation in modulating cancer cell metabolism. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2020, 1874, 188442.	3.3	33
32	Structureâ€Based Optimization of Benzoic Acids as Inhibitors of Protein Tyrosine Phosphatase 1B and Low Molecular Weight Protein Tyrosine Phosphatase. <i>ChemMedChem</i> , 2009, 4, 957-962.	1.6	32
33	Dual targeting of PTP1B and glucosidases with new bifunctional iminosugar inhibitors to address type 2 diabetes. <i>Bioorganic Chemistry</i> , 2019, 87, 534-549.	2.0	32
34	Structure-activity relationships in a series of auranofin analogues showing remarkable antiproliferative properties. <i>Journal of Inorganic Biochemistry</i> , 2020, 208, 111079.	1.5	32
35	Discovery of 4-[(5-arylidene-4-oxothiazolidin-3-yl)methyl]benzoic acid derivatives active as novel potent allosteric inhibitors of protein tyrosine phosphatase 1B: In silico studies and inÂvitro evaluation as insulinomimetic and anti-inflammatory agents. <i>European Journal of Medicinal Chemistry</i> , 2017, 127, 840-858.	2.6	30
36	In depth study of phenolic profile and PTP-1B inhibitory power of cold-pressed grape seed oils of different varieties. <i>Food Chemistry</i> , 2019, 271, 380-387.	4.2	30

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37	Multiwalled carbon nanotubes for drug delivery: Efficiency related to length and incubation time. <i>International Journal of Pharmaceutics</i> , 2017, 521, 69-72.	2.6	27
38	Antioxidant and anti-inflammatory properties of sourdoughs containing selected <i>Lactobacilli</i> strains are retained in breads. <i>Food Chemistry</i> , 2020, 322, 126710.	4.2	27
39	Ursolic acid derivatives as potential antidiabetic agents: <i>in vitro</i> , <i>in vivo</i> , and <i>in silico</i> studies. <i>Drug Development Research</i> , 2018, 79, 70-80.	1.4	26
40	Does Fermentation Really Increase the Phenolic Content in Cereals? A Study on Millet. <i>Foods</i> , 2020, 9, 303.	1.9	26
41	Phenolic Extract from <i>Sonchus oleraceus</i> L. Protects Diabetes-related Liver Injury in Rats through TLR4/NF- $\kappa$ B Signaling Pathway. <i>EFood</i> , 2020, 1, 77-84.	1.7	25
42	Synthesis and evaluation of thiazolidine-2,4-dione/benzazole derivatives as inhibitors of protein tyrosine phosphatase 1B (PTP-1B): Antihyperglycemic activity with molecular docking study. <i>Biomedicine and Pharmacotherapy</i> , 2018, 107, 1302-1310.	2.5	24
43	Effect of IR laser on myoblasts: a proteomic study. <i>Molecular BioSystems</i> , 2013, 9, 1147.	2.9	22
44	Synthesis, <i>in vitro</i> and <i>in silico</i> screening of ethyl 2-(6-substituted) 1,2,4-triazole-5-carboxylate (benzo[d]thiazol-2-ylamino) derivatives. <i>Journal of Medicinal Chemistry</i> , 2012, 53, 346-355.	2.6	20
45	Evidence for a multivalent effect in inhibition of sulfatases involved in lysosomal storage disorders (LSDs). <i>RSC Advances</i> , 2016, 6, 64847-64851.	1.7	20
46	Multiwalled carbon nanotubes for combination therapy: a biodistribution and efficacy pilot study. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2678-2687.	2.9	20
47	Stereoselective Synthesis of C-2 Alkylated Trihydroxypiperidines: Novel Pharmacological Chaperones for Gaucher Disease. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 621-626.	1.3	20
48	Mechanism of acylphosphatase inactivation by Woodward's reagent K. <i>Biochemical Journal</i> , 1997, 328, 855-861.	1.7	19
49	<i>In vitro</i> and <i>in silico</i> PTP-1B inhibition and <i>in vivo</i> antidiabetic activity of semisynthetic moronic acid derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 2018-2022.	1.0	19
50	The "click-on-tube" approach for the production of efficient drug carriers based on oxidized multi-walled carbon nanotubes. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3823-3831.	2.9	19
51	The effects of CA IX catalysis products within tumor microenvironment. <i>Cell Communication and Signaling</i> , 2013, 11, 81.	2.7	18
52	Honey extracts inhibit PTP1B, upregulate insulin receptor expression, and enhance glucose uptake in human HepG2 cells. <i>Biomedicine and Pharmacotherapy</i> , 2019, 113, 108752.	2.5	18
53	Dihydromyricetin Attenuates Streptozotocin-induced Liver Injury and Inflammation in Rats via Regulation of NF- $\kappa$ B and AMPK Signaling Pathway. <i>EFood</i> , 2020, 1, 188-195.	1.7	18
54	Azido-substituted BODIPY Dyes for the Production of Fluorescent Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2015, 21, 15349-15353.	1.7	17

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55	Common-type acylphosphatase: steady-state kinetics and leaving-group dependence. <i>Biochemical Journal</i> , 1997, 327, 177-184.	1.7	16
56	Insulin Inhibits Platelet-derived Growth Factor-induced Cell Proliferation. <i>Molecular Biology of the Cell</i> , 2005, 16, 73-83.	0.9	16
57	Combined therapies with nanostructured carbon materials: there is room still available at the bottom. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2022-2035.	2.9	16
58	Glucocerebrosidase (GCase) activity modulation by 2-alkyl trihydroxypiperidines: Inhibition and pharmacological chaperoning. <i>Bioorganic Chemistry</i> , 2020, 98, 103740.	2.0	16
59	In Search for Multi-Target Ligands as Potential Agents for Diabetes Mellitus and Its Complications—A Structure-Activity Relationship Study on Inhibitors of Aldose Reductase and Protein Tyrosine Phosphatase 1B. <i>Molecules</i> , 2021, 26, 330.	1.7	16
60	Cloning of murine low molecular weight phosphotyrosine protein phosphatase cDNA: identification of a new isoform. <i>FEBS Letters</i> , 1998, 437, 263-266.	1.3	15
61	Targeting LMW-PTP to sensitize melanoma cancer cells toward chemo- and radiotherapy. <i>Cancer Medicine</i> , 2018, 7, 1933-1943.	1.3	14
62	Design and evaluation of non-carboxylate 5-arylidene-2-thioxo-4-imidazolidinones as novel non-competitive inhibitors of protein tyrosine phosphatase 1B. <i>Bioorganic Chemistry</i> , 2019, 92, 103211.	2.0	14
63	Morin-dependent inhibition of low molecular weight protein tyrosine phosphatase (LMW-PTP) restores sensitivity to apoptosis during colon carcinogenesis: Studies in vitro and in vivo, in an Apc-driven model of colon cancer. <i>Molecular Carcinogenesis</i> , 2019, 58, 686-698.	1.3	14
64	A single amino acid mutation affects elicitor and expansins-like activities of cerato-platanin, a non-catalytic fungal protein. <i>PLoS ONE</i> , 2017, 12, e0178337.	1.1	14
65	Activated fibroblasts enhance cancer cell migration by microvesicles-mediated transfer of Galectin-1. <i>Journal of Cell Communication and Signaling</i> , 2021, 15, 405-419.	1.8	13
66	Natural $\beta$ -Glucosidase and Protein Tyrosine Phosphatase 1B Inhibitors: A Source of Scaffold Molecules for Synthesis of New Multitarget Antidiabetic Drugs. <i>Molecules</i> , 2021, 26, 4818.	1.7	13
67	Acylphosphatase possesses nucleoside triphosphatase and nucleoside diphosphatase activities. <i>Biochemical Journal</i> , 2000, 349, 43-49.	1.7	12
68	Acylphosphatase Is a Strong Apoptosis Inducer in HeLa Cell Line. <i>Molecular Cell Biology Research Communications: MCBRC: Part B of Biochemical and Biophysical Research Communications</i> , 2000, 3, 264-270.	1.7	12
69	Hydrogen Peroxide Triggers the Formation of a Disulfide Dimer of Muscle Acylphosphatase and Modifies Some Functional Properties of the Enzyme. <i>Journal of Biological Chemistry</i> , 2001, 276, 41862-41869.	1.6	12
70	Low Molecular Weight Protein Tyrosine Phosphatase and Caveolin-1: Interaction and Isoenzyme-Dependent Regulation. <i>Biochemistry</i> , 2007, 46, 6383-6392.	1.2	12
71	LscI <sup>2</sup> and LscI <sup>3</sup> , two novel levansucrases of <i>Pseudomonas syringae</i> pv. <i>actinidiae</i> biovar 3, the causal agent of bacterial canker of kiwifruit, show different enzymatic properties. <i>International Journal of Biological Macromolecules</i> , 2021, 179, 279-291.	3.6	12
72	miR-210-3p mediates metabolic adaptation and sustains DNA damage repair of resistant colon cancer cells to treatment with 5-fluorouracil. <i>Molecular Carcinogenesis</i> , 2019, 58, 2181-2192.	1.3	11

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73	Study on a Fermented Whole Wheat: Phenolic Content, Activity on PTP1B Enzyme and In Vitro Prebiotic Properties. <i>Molecules</i> , 2019, 24, 1120.	1.7	11
74	Dual Targeting of PTP1B and Aldose Reductase with Marine Drug Phosphoeleganin: A Promising Strategy for Treatment of Type 2 Diabetes. <i>Marine Drugs</i> , 2021, 19, 535.	2.2	11
75	Porcine liver low Mr phosphotyrosine protein phosphatase: The amino acid sequence. <i>The Protein Journal</i> , 1994, 13, 107-115.	1.1	10
76	Acylphosphatase possesses nucleoside triphosphatase and nucleoside diphosphatase activities. <i>Biochemical Journal</i> , 2000, 349, 43.	1.7	10
77	Bioactive Properties of Breads Made with Sourdough of Hull-Less Barley or Conventional and Pigmented Wheat Flours. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3291.	1.3	10
78	Design, synthesis, in vitro, in vivo and in silico pharmacological characterization of antidiabetic N-Boc-L-tyrosine-based compounds. <i>Biomedicine and Pharmacotherapy</i> , 2018, 108, 670-678.	2.5	9
79	Photoswitchable inhibitors of human $\beta$ -glucocerebrosidase. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 1637-1641.	1.5	9
80	LMW-PTP modulates glucose metabolism in cancer cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2533-2544.	1.1	8
81	Oncogenic Tyrosine Phosphatases: Novel Therapeutic Targets for Melanoma Treatment. <i>Cancers</i> , 2020, 12, 2799.	1.7	8
82	Cell instructive Liquid Crystalline Networks for myotube formation. <i>IScience</i> , 2021, 24, 103077.	1.9	8
83	3,4,5-Trihydroxypiperidine Based Multivalent Glucocerebrosidase (GCase) Enhancers. <i>ChemBioChem</i> , 2022, 23, .	1.3	8
84	Metformin salts with oxidized multiwalled carbon nanotubes: In vitro biological activity and inhibition of CNT internalization. <i>Journal of Drug Delivery Science and Technology</i> , 2018, 47, 254-258.	1.4	7
85	Liquid Crystals: Liquid Crystal-Induced Myoblast Alignment (Adv. Healthcare Mater. 3/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970009.	3.9	7
86	LMW-PTP targeting potentiates the effects of drugs used in chronic lymphocytic leukemia therapy. <i>Cancer Cell International</i> , 2019, 19, 67.	1.8	7
87	2-Methoxybenzoyl phosphate: a new substrate for continuous fluorimetric and spectrophotometric acyl phosphatase assays. <i>Experientia</i> , 1995, 51, 57-62.	1.2	6
88	The Contribution of Acidic Residues to the Conformational Stability of Common-Type Acylphosphatase. <i>Archives of Biochemistry and Biophysics</i> , 1999, 363, 349-355.	1.4	6
89	The in vivo tyrosine phosphorylation level of yeast immunophilin Fpr3 is influenced by the LMW-PTP Ltp1. <i>Biochemical and Biophysical Research Communications</i> , 2004, 321, 424-431.	1.0	6
90	Site-directed mutagenesis of two aromatic residues lining the active site pocket of the yeast Ltp1. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 753-762.	1.1	6

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91	Insights into Cytotoxic Behavior of Lepadins and Structure Elucidation of the New Alkaloid Lepadine L from the Mediterranean Ascidian <i>Clavelina lepadiformis</i> . <i>Marine Drugs</i> , 2022, 20, 65.	2.2	6
92	Identifying Human PTP1B Enzyme Inhibitors from Marine Natural Products: Perspectives for Developing of Novel Insulin-Mimetic Drugs. <i>Pharmaceuticals</i> , 2022, 15, 325.	1.7	6
93	A Nucleophilic Catalysis Step is Involved in the Hydrolysis of Aryl Phosphate Monoesters by Human CT Acylphosphatase. <i>Journal of Biological Chemistry</i> , 2003, 278, 194-199.	1.6	5
94	S-Homocysteinylation effects on transthyretin: worsening of cardiomyopathy onset. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129453.	1.1	5
95	A chemoinformatics search for peroxisome proliferator-activated receptors ligands revealed a new pan-agonist able to reduce lipid accumulation and improve insulin sensitivity. <i>European Journal of Medicinal Chemistry</i> , 2022, 235, 114240.	2.6	5
96	Enzymatic Inhibitors from Natural Sources: A Huge Collection of New Potential Drugs. <i>Biomolecules</i> , 2021, 11, 133.	1.8	4
97	Catechol-Containing Hydroxylated Biomimetic 4-Thiaflavanes as Inhibitors of Amyloid Aggregation. <i>Biomimetics</i> , 2017, 2, 6.	1.5	2
98	Effect of Natural Compounds on Insulin Signaling. <i>Current Medicinal Chemistry</i> , 2014, 22, 80-111.	1.2	2
99	Differential impact of cold and hot tea extracts on tyrosine phosphatases regulating insulin receptor activity: a focus on PTP1B and LMW-PTP. <i>European Journal of Nutrition</i> , 2022, 61, 1905-1918.	1.8	2
100	Synthesis of a New Î²-Galactosidase Inhibitor Displaying Pharmacological Chaperone Properties for GM1 Gangliosidosis. <i>Molecules</i> , 2022, 27, 4008.	1.7	2
101	Design of Biocompatible Liquid Cristal Elastomers Reproducing the Mechanical Properties of Human Cardiac Muscle. <i>Biophysical Journal</i> , 2019, 116, 264a.	0.2	0