

# Massimiliano Perduca

## List of Publications by Year in descending order

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58  
papers

1,012  
citations

430874

18  
h-index

477307

29  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1299  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Antineoplastic Lectin of the Common Edible Mushroom ( <i>Agaricus bisporus</i> ) Has Two Binding Sites, Each Specific for a Different Configuration at a Single Epimeric Hydroxyl. <i>Journal of Biological Chemistry</i> , 2005, 280, 10614-10623.	3.4	83
2	Structure of a lectin with antitumoral properties in king bolete ( <i>Boletus edulis</i> ) mushrooms. <i>Glycobiology</i> , 2011, 21, 1000-1009.	2.5	65
3	Crystal Structure of Chicken Liver Basic Fatty Acid-Binding Protein Complexed with Cholic Acid. <i>Biochemistry</i> , 2004, 43, 14072-14079.	2.5	57
4	BEL- $\beta$ -trefoil: A novel lectin with antineoplastic properties in king bolete ( <i>Boletus edulis</i> ) mushrooms. <i>Glycobiology</i> , 2013, 23, 578-592.	2.5	50
5	Structural and biochemical characterization of a new type of lectin isolated from carp eggs. <i>Biochemical Journal</i> , 2003, 376, 433-440.	3.7	40
6	Structural and Biochemical Characterization of Toad Liver Fatty Acid-Binding Protein. <i>Biochemistry</i> , 2003, 42, 8192-8203.	2.5	35
7	Structure and Properties of the C-terminal Domain of Insulin-like Growth Factor-binding Protein-1 Isolated from Human Amniotic Fluid. <i>Journal of Biological Chemistry</i> , 2005, 280, 29812-29819.	3.4	35
8	Human plasma retinol-binding protein (RBP4) is also a fatty acid-binding protein. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 458-466.	2.4	35
9	The X-Ray Structure of Zebrafish ( <i>Danio rerio</i> ) Ileal Bile Acid-Binding Protein Reveals the Presence of Binding Sites on the Surface of the Protein Molecule. <i>Journal of Molecular Biology</i> , 2009, 385, 99-116.	4.2	33
10	Interactions of chicken liver basic fatty acid-binding protein with lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1611, 98-106.	2.6	29
11	Structural changes in the BH3 domain of SOUL protein upon interaction with the anti-apoptotic protein Bcl-xL. <i>Biochemical Journal</i> , 2011, 438, 291-301.	3.7	26
12	pH and Ionic Strength Dependence of Protein (Un)Folding and Ligand Binding to Bovine $\beta$ -Lactoglobulins A and B. <i>Biochemistry</i> , 2002, 41, 15415-15422.	2.5	25
13	Novel functionalization strategies of polymeric nanoparticles as carriers for brain medications. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 847-858.	4.0	24
14	Enzyme Storage and Recycling: Nanoassemblies of $\alpha$ -Amylase and Xylanase Immobilized on Biomimetic Magnetic Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4054-4063.	6.7	24
15	Properties of a stationary phase based on immobilised chicken liver basic fatty acid-binding protein. <i>Biomedical Applications</i> , 2001, 751, 117-130.	1.7	22
16	Binding and interactions of L-BABP to lipid membranes studied by molecular dynamic simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 1390-1397.	2.6	22
17	Clodronate as a Therapeutic Strategy against Osteoarthritis. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2696.	4.1	22
18	A Single Amino Acid Mutation in Zebrafish ( <i>Danio rerio</i> ) Liver Bile Acid-binding Protein Can Change the Stoichiometry of Ligand Binding. <i>Journal of Biological Chemistry</i> , 2007, 282, 31008-31018.	3.4	21

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19	The carbohydrates of the isoforms of three avian riboflavin-binding proteins. <i>FEBS Journal</i> , 1999, 263, 849-858.	0.2	19
20	Interaction of Chicken Liver Basic Fatty Acid-Binding Protein with Fatty Acids: $^{13}\text{C}$ NMR and Fluorescence Study. <i>Biochemistry</i> , 2001, 40, 12604-12611.	2.5	17
21	Capillary zone electrophoresis of ds-DNA in isoelectric buffers: Effect of adding of competing, nonamphoteric ions. <i>Electrophoresis</i> , 1998, 19, 1704-1710.	2.4	16
22	Behaviour of inorganic and organic cations in the Debye-Hückel layer of DNA. <i>Journal of Chromatography A</i> , 2001, 920, 309-316.	3.7	16
23	Solution structure of chicken liver basic fatty acid binding protein. <i>Journal of Biomolecular NMR</i> , 2003, 25, 157-160.	2.8	15
24	Improving the Cellular Uptake of Biomimetic Magnetic Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 766.	4.1	15
25	Crystal structure of axolotl ( <i>Ambystoma mexicanum</i> ) liver bile acid-binding protein bound to cholic and oleic acid. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 64, 79-88.	2.6	13
26	Crystal structure of human cellular retinol-binding protein II to 1.2 Å... resolution. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 1626-1630.	2.6	13
27	Biochemical characterization and structural insights into the high substrate affinity of a dimeric and $\text{Ca}^{2+}$ -independent <i>Bacillus subtilis</i> $\alpha$ -amylase. <i>Biotechnology Progress</i> , 2020, 36, e2964.	2.6	13
28	Near Infrared Circularly Polarized Luminescence From Water Stable Organic Nanoparticles Containing a Chiral Yb(III) Complex. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	13
29	Conformational changes of chicken liver bile acid-binding protein bound to anionic lipid membrane are coupled to the lipid phase transitions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1583-1591.	2.6	12
30	Encapsulation of Photosystem I in Organic Microparticles Increases Its Photochemical Activity and Stability for Ex Vivo Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10435-10444.	6.7	12
31	Monitoring folding transitions of synthetic, branched-chain polypeptides by capillary zone electrophoresis. <i>Electrophoresis</i> , 2003, 24, 794-800.	2.4	11
32	Crystal structure of the anticarcinogenic Bowman's Birk inhibitor from snail medic ( <i>Medicago</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	2.8	11
33	Three-dimensional structure and ligand-binding site of carp fishellectin (FEL). <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1123-1135.	2.5	11
34	Runx2 downregulation, migration and proliferation inhibition in melanoma cells treated with BEL $\beta$ -trefoil. <i>Oncology Reports</i> , 2017, 37, 2209-2214.	2.6	11
35	BEL $\beta$ -Trefoil Reduces the Migration Ability of RUNX2 Expressing Melanoma Cells in Xenotransplanted Zebrafish. <i>Molecules</i> , 2020, 25, 1270.	3.8	11
36	Structure and properties of the oyster mushroom ( <i>Pleurotus ostreatus</i> ) lectin. <i>Glycobiology</i> , 2020, 30, 550-562.	2.5	11

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37	Influence of the Lipid Phase State and Electrostatic Surface Potential on the Conformations of a Peripherally Bound Membrane Protein. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15141-15150.	2.6	10
38	High resolution crystal structure data of human plasma retinol-binding protein (RBP4) bound to retinol and fatty acids. <i>Data in Brief</i> , 2018, 18, 1073-1081.	1.0	10
39	A potential role for astaxanthin in the treatment of bone diseases (Review). <i>Molecular Medicine Reports</i> , 2020, 22, 1695-1701.	2.4	9
40	Crystallization of chicken liver (basic) fatty acid binding protein after purification in multicompartement electrolyzers with isoelectric membranes. <i>Electrophoresis</i> , 2000, 21, 2316-2320.	2.4	8
41	Kinetics of lipid-membrane binding and conformational change of L-BABP. <i>Biochemical and Biophysical Research Communications</i> , 2009, 382, 771-775.	2.1	8
42	The inclusion into PLGA nanoparticles enables $\hat{\pm}$ -bisabolol to efficiently inhibit the human dendritic cell pro-inflammatory activity. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	8
43	Complexes of rare earth ions embedded in poly(lactic-co-glycolic acid) (PLGA) nanoparticles: Characterization and spectroscopic study. <i>Optical Materials</i> , 2019, 94, 249-256.	3.6	8
44	Enhanced Cytotoxic Effect of TAT $\hat{\pm}$ PLGA-Embedded DOXO Carried by Biomimetic Magnetic Nanoparticles upon Combination with Magnetic Hyperthermia and Photothermia. <i>Pharmaceutics</i> , 2021, 13, 1168.	4.5	8
45	Oxyresveratrol-Loaded PLGA Nanoparticles Inhibit Oxygen Free Radical Production by Human Monocytes: Role in Nanoparticle Biocompatibility. <i>Molecules</i> , 2021, 26, 4351.	3.8	8
46	Crystal structure of a truncated form of porcine odorant-binding protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 42, 201-209.	2.6	7
47	Chicken Liver Bile Acid-Binding Protein Is in a Compact Partly Folded State at Acidic pH. Its Relevance to the Interaction with Lipid Membranes. <i>Biochemistry</i> , 2005, 44, 8486-8493.	2.5	6
48	Crystallization and preliminary X-ray study of the common edible mushroom ( <i>Agaricus bisporus</i> ) lectin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 718-720.	2.5	5
49	High-resolution structures of mutants of residues that affect access to the ligand-binding cavity of human lipocalin-type prostaglandin D synthase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 2125-2138.	2.5	5
50	Ketamine nano-delivery based on poly-lactic-co-glycolic acid (PLGA) nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 655-663.	3.1	5
51	Oxyresveratrol Inhibits R848-Induced Pro-Inflammatory Mediators Release by Human Dendritic Cells Even When Embedded in PLGA Nanoparticles. <i>Molecules</i> , 2021, 26, 2106.	3.8	5
52	Two Novel C-Terminus RUNX2 Mutations in Two Cleidocranial Dysplasia (CCD) Patients Impairing p53 Expression. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10336.	4.1	5
53	Crystallization and preliminary X-ray study of two liver basic fatty acid-binding proteins. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1903-1905.	2.5	4
54	Fisetin: An Integrated Approach to Identify a Strategy Promoting Osteogenesis. <i>Frontiers in Pharmacology</i> , 2022, 13, .	3.5	3

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55	Characterization of Cytotoxic Lactose Binding Lectin from Sulphur Polypore, <i>Laetiporus sulphureus</i> (Agaricomycetes), from Algeria. <i>International Journal of Medicinal Mushrooms</i> , 2021, 23, 45-57.	1.5	1
56	Structure and properties of the giant reed ( <i>Arundo donax</i> ) lectin (ADL). <i>Glycobiology</i> , 2021, 31, 1543-1556.	2.5	1
57	Expression, purification and crystallization of human bile acid-coA:amino acid N-acyltransferase (BAAT). <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s156-s156.	0.3	0
58	The Novel Role That Nrf2 Plays in Erythropoiesis during Aging. <i>Blood</i> , 2019, 134, 3502-3502.	1.4	0