

# Vincenzo De Filippis

## List of Publications by Year in descending order

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50  
papers

1,640  
citations

236925

25  
h-index

302126

39  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2089  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the partly folded states of proteins by limited proteolysis. <i>Folding &amp; Design</i> , 1997, 2, R17-R26.	4.5	279
2	A MICU1 Splice Variant Confers High Sensitivity to the Mitochondrial Ca <sup>2+</sup> Uptake Machinery of Skeletal Muscle. <i>Molecular Cell</i> , 2016, 64, 760-773.	9.7	97
3	3-Nitrotyrosine as a spectroscopic probe for investigating protein-protein interactions. <i>Protein Science</i> , 2006, 15, 976-986.	7.6	65
4	Formation of methionine sulfoxide by peroxyxynitrite at position 1606 of von Willebrand factor inhibits its cleavage by ADAMTS-13: A new prothrombotic mechanism in diseases associated with oxidative stress. <i>Free Radical Biology and Medicine</i> , 2010, 48, 446-456.	2.9	56
5	Incorporation of the fluorescent amino acid 7-azatryptophan into the core domain 1-47 of hirudin as a probe of hirudin folding and thrombin recognition. <i>Protein Science</i> , 2004, 13, 1489-1502.	7.6	50
6	Limited proteolysis of bovine Î± <sub>2</sub> -lactalbumin: Isolation and characterization of protein domains. <i>Protein Science</i> , 1999, 8, 2290-2303.	7.6	50
7	Enhanced Protein Thermostability by Ala → Aib Replacement. <i>Biochemistry</i> , 1998, 37, 1686-1696.	2.5	49
8	Single-Cell and Single-Molecule Analysis Unravels the Multifunctionality of the <i>Staphylococcus aureus</i> Collagen-Binding Protein Cna. <i>ACS Nano</i> , 2017, 11, 2160-2170.	14.6	47
9	Effect of Na <sup>+</sup> binding on the conformation, stability and molecular recognition properties of thrombin. <i>Biochemical Journal</i> , 2005, 390, 485-492.	3.7	44
10	Osteocalcin and Sex Hormone Binding Globulin Compete on a Specific Binding Site of GPRC6A. <i>Endocrinology</i> , 2016, 157, 4473-4486.	2.8	43
11	Core Domain of Hirudin from the Leech <i>Hirudinaria manillensis</i> : Chemical Synthesis, Purification, and Characterization of a Trp3 Analog of Fragment 1-47. <i>Biochemistry</i> , 1995, 34, 9552-9564.	2.5	41
12	Impaired Release of Vitamin D in Dysfunctional Adipose Tissue: New Cues on Vitamin D Supplementation in Obesity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 2564-2574.	3.6	40
13	Enhanced neuronal cell differentiation combining biomimetic peptides and a carbon nanotube-polymer scaffold. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 621-632.	3.3	39
14	Fibronectin-binding protein B (FnBPB) from <i>Staphylococcus aureus</i> protects against the antimicrobial activity of histones. <i>Journal of Biological Chemistry</i> , 2019, 294, 3588-3602.	3.4	39
15	Probing the Structure of Hirudin from <i>Hirudinaria manillensis</i> by Limited Proteolysis. Isolation, Characterization and Thrombin-Inhibitory Properties of N-Terminal Fragments. <i>FEBS Journal</i> , 1994, 226, 323-333.	0.2	37
16	Thrombin inhibits the anti-myeloperoxidase and ferroxidase functions of ceruloplasmin: relevance in rheumatoid arthritis. <i>Free Radical Biology and Medicine</i> , 2015, 86, 279-294.	2.9	36
17	Limited proteolysis of cytochrome c in trifluoroethanol. <i>FEBS Letters</i> , 1995, 362, 266-270.	2.8	35
18	Synthesis and Characterization of More Potent Analogues of Hirudin Fragment 1-47 Containing Non-Natural Amino Acids. <i>Biochemistry</i> , 1998, 37, 13507-13515.	2.5	35

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19	Fibrinogen-elongated $\beta$ Chain Inhibits Thrombin-induced Platelet Response, Hindering the Interaction with Different Receptors. <i>Journal of Biological Chemistry</i> , 2008, 283, 30193-30204.	3.4	34
20	Acid-Induced Molten Globule State of a Fully Active Mutant of Human Interleukin-6. <i>Biochemistry</i> , 1996, 35, 11503-11511.	2.5	33
21	Cumulative stabilizing effects of glycine to alanine substitutions in <i>Bacillus subtilis</i> neutral protease. <i>Protein Engineering, Design and Selection</i> , 1992, 5, 543-550.	2.1	32
22	NMR Solution Structure of the C-Terminal Fragment 255-316 of Thermolysin: A Dimer Formed by Subunits Having the Native Structure. <i>Biochemistry</i> , 1994, 33, 14834-14847.	2.5	29
23	Limited proteolysis of ribonuclease A with thermolysin in trifluoroethanol. <i>Protein Science</i> , 1997, 6, 860-872.	7.6	28
24	Probing the Hirudin~Thrombin Interaction by Incorporation of Noncoded Amino Acids and Molecular Dynamics Simulation,. <i>Biochemistry</i> , 2002, 41, 13556-13569.	2.5	28
25	Non-canonical proteolytic activation of human prothrombin by subtilisin from <i>Bacillus subtilis</i> may shift the procoagulant~anticoagulant equilibrium toward thrombosis. <i>Journal of Biological Chemistry</i> , 2017, 292, 15161-15179.	3.4	28
26	Limited Proteolysis of Lysozyme in Trifluoroethanol. Isolation and Characterization of a Partially Active Enzyme Derivative. <i>FEBS Journal</i> , 1995, 230, 779-787.	0.2	25
27	Structure, Stability and Biological Properties of a N-terminally Truncated form of Recombinant Human Interleukin-6 Containing a Single Disulfide Bond. <i>FEBS Journal</i> , 1995, 227, 573-581.	0.2	24
28	The complete mature bovine prion protein highly expressed in <i>Escherichia coli</i> : biochemical and structural studies. <i>FEBS Letters</i> , 1997, 412, 359-364.	2.8	24
29	Chemical synthesis and characterization of wild-type and biotinylated N-terminal domain 1~64 of $\beta$ 2-glycoprotein I. <i>Protein Science</i> , 2010, 19, 1065-1078.	7.6	23
30	Incorporation of noncoded amino acids into the N-terminal domain 1~47 of hirudin yields a highly potent and selective thrombin inhibitor. <i>Protein Science</i> , 1999, 8, 2213-2217.	7.6	21
31	Thrombin Inhibition by Serpins Disrupts Exosite II. <i>Journal of Biological Chemistry</i> , 2010, 285, 38621-38629.	3.4	21
32	Semisynthesis of carboxy-terminal fragments of thermolysin. <i>International Journal of Peptide and Protein Research</i> , 1990, 35, 219-221.	0.1	19
33	Oxidation of Met1606 in von Willebrand factor is a risk factor for thrombotic and septic complications in chronic renal failure. <i>Biochemical Journal</i> , 2012, 442, 423-432.	3.7	18
34	Effects of point mutations in the binding pocket of the mouse major urinary protein MUP20 on ligand affinity and specificity. <i>Scientific Reports</i> , 2019, 9, 300.	3.3	18
35	Loop Electrostatics Asymmetry Modulates the Preexisting Conformational Equilibrium in Thrombin. <i>Biochemistry</i> , 2016, 55, 3984-3994.	2.5	17
36	Mapping specificity, cleavage entropy, allosteric changes and substrates of blood proteases in a high-throughput screen. <i>Nature Communications</i> , 2021, 12, 1693.	12.8	17

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37	Molecular mapping of $\hat{\Gamma}$ -thrombin ( $\hat{\Gamma}$ T)/ $\hat{\Gamma}^2$ -glycoprotein I ( $\hat{\Gamma}^2$ Gpl) interaction reveals how $\hat{\Gamma}^2$ Gpl affects $\hat{\Gamma}$ T functions. <i>Biochemical Journal</i> , 2016, 473, 4629-4650.	3.7	16
38	The thermodynamics of the unfolding of an isolated protein subdomain The 255-316 C-terminal fragment of thermolysin. <i>FEBS Letters</i> , 1994, 344, 154-156.	2.8	14
39	A novel protein from the serum of Python sebae, structurally homologous with type- $\hat{\Gamma}^3$ phospholipase A2 inhibitor, displays antitumour activity. <i>Biochemical Journal</i> , 2011, 440, 251-262.	3.7	13
40	A serine protease secreted from <i>Bacillus subtilis</i> cleaves human plasma transthyretin to generate an amyloidogenic fragment. <i>Communications Biology</i> , 2020, 3, 764.	4.4	12
41	Conformational and biochemical characterization of a biologically active rat recombinant Protease Nexin-1 expressed in <i>E. coli</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 602-614.	2.3	11
42	Noncoded amino acids in protein engineering: Structure-activity relationship studies of hirudin-thrombin interaction. <i>Biotechnology and Applied Biochemistry</i> , 2018, 65, 69-80.	3.1	11
43	Minimal structural requirements for agonist activity of PAR-2 activating peptides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 21-24.	2.2	7
44	o-Nitrotyrosine and p-iodophenylalanine as spectroscopic probes for structural characterization of SH3 complexes. <i>Protein Science</i> , 2007, 16, 1257-1265.	7.6	7
45	Modeling ADAMTS13-von Willebrand Factor interaction: Implications for oxidative stress-related cardiovascular diseases and type 2A von Willebrand Disease. <i>Biophysical Chemistry</i> , 2012, 160, 1-11.	2.8	7
46	Protein engineering by chemical methods: Incorporation of nonnatural amino acids as a tool for studying protein folding, stability, and function. <i>Peptide Science</i> , 2018, 110, e24090.	1.8	4
47	Exogenous human $\hat{\Gamma}$ -Synuclein acts in vitro as a mild platelet antiaggregant inhibiting $\hat{\Gamma}$ -thrombin-induced platelet activation. <i>Scientific Reports</i> , 2022, 12, .	3.3	4
48	Synthesis and conformational studies of peptides encompassing the carboxy-terminal helix of thermolysin. <i>International Journal of Peptide and Protein Research</i> , 1990, 35, 396-405.	0.1	3
49	A conserved Neurite Outgrowth and Guidance motif with biomimetic potential in neuronal Cell Adhesion Molecules. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5622-5636.	4.1	3
50	NOG-Derived Peptides Can Restore Neuritogenesis on a CRASH Syndrome Cell Model. <i>Biomedicines</i> , 2022, 10, 102.	3.2	3