Andrei JosÃ© Petrescu

List of Publications by Year
in descending order

70 papers	3,582 citations	159525 30 h-index	138417 58 g-index
76 all docs	76 docs citations	76 times ranked	4333 citing authors

#	Article	IF	Citations
1	A natural diversity screen in <scp><i>Arabidopsis thaliana</i></scp> reveals determinants for <scp>HopZ1a</scp> recognition in the <scp>ZAR1â€ZED1</scp> immune complex. Plant, Cell and Environment, 2021, 44, 629-644.	2.8	3
2	Affinity Proteomics and Deglycoproteomics Uncover Novel EDEM2 Endogenous Substrates and an Integrative ERAD Network. Molecular and Cellular Proteomics, 2021, 20, 100125.	2.5	7
3	EDEM3 Domains Cooperate to Perform Its Overall Cell Functioning. International Journal of Molecular Sciences, 2021, 22, 2172.	1.8	7
4	Deep Learning in the Quest for Compound Nomination for Fighting COVID-19. Current Medicinal Chemistry, 2021, 28, 5699-5732.	1.2	2
5	Structureâ€“function analysis of ZAR1 immune receptor reveals key molecular interactions for activity. Plant Journal, 2020, 101, 352-370.	2.8	18
6	Identification of RAG-like transposons in protostomes suggests their ancient bilaterian origin. Mobile DNA, 2020, 11, 17.	1.3	19
7	LRRpredictorâ€"A New LRR Motif Detection Method for Irregular Motifs of Plant NLR Proteins Using an Ensemble of Classifiers. Genes, 2020, 11, 286.	1.0	33
8	Robosample: A rigid-body molecular simulation program based on robot mechanics. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129616.	1.1	5
9	Profiling Optimal Conditions for Capturing EDEM Proteins Complexes in Melanoma Using Mass Spectrometry. Advances in Experimental Medicine and Biology, 2019, 1140, 155-167.	0.8	8
10	Human caudate nucleus exhibits a highly complex ganglioside pattern as revealed by high-resolution multistage Orbitrap MS. Journal of Carbohydrate Chemistry, 2019, 38, 531-551.	0.4	7
11	Gangliosidome of human anencephaly: A high resolution multistage mass spectrometry study. Biochimie, 2019, 163, 142-151.	1.3	9
12	Transposon molecular domestication and the evolution of the RAG recombinase. Nature, 2019, 569, 79-84.	13.7	100
13	The Design of New HIV-IN Tethered Bifunctional Inhibitors Using Multiple Microdomain Targeted Docking. Current Medicinal Chemistry, 2019, 26, 2574-2600.	1.2	3
14	Clonal lineage of high grade serous ovarian cancer in a patient with neurofibromatosis type 1. Gynecologic Oncology Reports, 2018, 23, 41-44.	0.3	11
15	Genome-wide functional analyses of plant coiledâ€“coil NLR-type pathogen receptors reveal essential roles of their N-terminal domain in oligomerization, networking, and immunity. PLoS Biology, 2018, 16, e2005821.	2.6	52
16	Distinct Roles of Non-Overlapping Surface Regions of the Coiled-Coil Domain in the Potato Immune Receptor Rx1. Plant Physiology, 2018, 178, 1310-1331.	2.3	18
17	Heavy metal accumulation by Saccharomyces cerevisiae cells armed with metal binding hexapeptides targeted to the inner face of the plasma membrane. Applied Microbiology and Biotechnology, 2017, 101, 5749-5763.	1.7	18
18	Roles of the C-terminal domains of topoisomerase IIÎ± and topoisomerase IIÎ² in regulation of the decatenation checkpoint. Nucleic Acids Research, 2017, 45, 5995-6010.	6.5	23

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19	Inhibition of N-glycan processing modulates the network of EDEM3 interactors. Biochemical and Biophysical Research Communications, 2017, 486, 978-984.	1.0	7
20	SPRYSEC Effectors: A Versatile Protein-Binding Platform to Disrupt Plant Innate Immunity. Frontiers in Plant Science, 2016, 7, 1575.	1.7	37
21	An LRR/Malectin Receptor-Like Kinase Mediates Resistance to Non-adapted and Adapted Powdery Mildew Fungi in Barley and Wheat. Frontiers in Plant Science, 2016, 7, 1836.	1.7	39
22	Cell death triggering and effector recognition by Swâ€5 SDâ€CNL proteins from resistant and susceptible tomato isolines to <i>Tomato spotted wilt virus</i>. Molecular Plant Pathology, 2016, 17, 1442-1454.	2.0	42
23	Random mutagenesis of the nucleotideâ€binding domain of <scp>NRC</scp>1 (<scp>NB</scp>â€<scp>LRR</scp> Required for Hypersensitive Responseâ€Associated Cell Deathâ€1), a downstream signalling nucleotideâ€binding, leucineâ€rich repeat (<scp>NB</scp>â€<scp>LRR</scp>) protein, identifies gainâ€ofâ€function mutations in the nucleotideâ€binding pocket. New Phytologist, 2015, 208, 210-223.	3.5	37
24	Identification and structural characterization of novel <i>O</i>â€and <i>N</i>â€glycoforms in the urine of a Schindler disease patient by Orbitrap mass spectrometry. Journal of Mass Spectrometry, 2015, 50, 1044-1056.	0.7	3
25	The architecture of the 12RSS in V(D)J recombination signal and synaptic complexes. Nucleic Acids Research, 2015, 43, 917-931.	6.5	11
26	Mapping and Quantitation of the Interaction between the Recombination Activating Gene Proteins RAG1 and RAG2. Journal of Biological Chemistry, 2015, 290, 11802-11817.	1.6	18
27	Three-Dimensional Modeling and Diversity Analysis Reveals Distinct AVR Recognition Sites and Evolutionary Pathways in Wild and Domesticated Wheat Pm3 R Genes. Molecular Plant-Microbe Interactions, 2014, 27, 835-845.	1.4	19
28	Identification of an unusually sulfated tetrasaccharide chondroitin/dermatan motif in mouse brain by combining chipâ€nanoelectrospray multistage <scp>MS</scp>²â€<scp>MS</scp>⁴ and high resolution <scp>MS</scp>. Electrophoresis, 2013, 34, 1581-1592.	1.3	12
29	RAG and HMGB1 create a large bend in the 23RSS in the V(D)J recombination synaptic complexes. Nucleic Acids Research, 2013, 41, 2437-2454.	6.5	23
30	Structural Determinants at the Interface of the ARC2 and Leucine-Rich Repeat Domains Control the Activation of the Plant Immune Receptors Rx1 and Gpa2 Â Â Â. Plant Physiology, 2013, 162, 1510-1528.	2.3	73
31	Ancient diversity of splicing motifs and protein surfaces in the wild emmer wheat (<i>Triticum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Pathology, 2012, 13, 276-287.	2.0	45
32	Tyrosinase Degradation Is Prevented when EDEM1 Lacks the Intrinsically Disordered Region. PLoS ONE, 2012, 7, e42998.	1.1	34
33	Coiled-Coil Domain-Dependent Homodimerization of Intracellular Barley Immune Receptors Defines a Minimal Functional Module for Triggering Cell Death. Cell Host and Microbe, 2011, 9, 187-199.	5.1	269
34	Tyrosine 656 in topoisomerase IIÎ² is important for the catalytic activity of the enzyme: Identification based on artifactual +80â€Da modification at this site. Proteomics, 2011, 11, 829-842.	1.3	4
35	Nucleocytoplasmic Distribution Is Required for Activation of Resistance by the Potato NB-LRR Receptor Rx1 and Is Balanced by Its Functional Domains. Plant Cell, 2011, 22, 4195-4215.	3.1	140
36	C-Terminus Glycans with Critical Functional Role in the Maturation of Secretory Glycoproteins. PLoS ONE, 2011, 6, e19979.	1.1	19

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37	Abstract 2526: Tyrosine 656 in topoisomerase IIÎ² is important for the catalytic activity. , 2011, , .		0
38	Interface Analysis of the Complex between ERK2 and PTP-SL. PLoS ONE, 2009, 4, e5432.	1.1	12
39	A Secreted SPRY Domain-Containing Protein (SPRYSEC) from the Plant-Parasitic Nematode<i>Globodera rostochiensis</i>Interacts with a CC-NB-LRR Protein from a Susceptible Tomato. Molecular Plant-Microbe Interactions, 2009, 22, 330-340.	1.4	109
40	A Caenorhabditis elegans Wild Type Defies the Temperatureâ€"Size Rule Owing to a Single Nucleotide Polymorphism in tra-3. PLoS Genetics, 2007, 3, e34.	1.5	104
41	Structural and functional characterization of a novel, host penetration-related pectate lyase from the potato cyst nematode Globodera rostochiensis. Molecular Plant Pathology, 2007, 8, 293-305.	2.0	37
42	Evaluation of a neural networks QSAR method based on ligand representation using substituent descriptors. Journal of Molecular Graphics and Modelling, 2006, 25, 37-45.	1.3	8
43	Structural aspects of glycomes with a focus on N-glycosylation and glycoprotein folding. Current Opinion in Structural Biology, 2006, 16, 600-607.	2.6	79
44	An N-Linked Glycan Modulates the Interaction between the CD1d Heavy Chain and Î²2-Microglobulin. Journal of Biological Chemistry, 2006, 281, 40369-40378.	1.6	28
45	Mutations in dopachrome tautomerase (Dct) affect eumelanin/pheomelanin synthesis, but do not affect intracellular trafficking of the mutant protein. Biochemical Journal, 2005, 391, 249-259.	1.7	66
46	In Planta Secretion of a Calreticulin by Migratory and Sedentary Stages of Root-Knot Nematode. Molecular Plant-Microbe Interactions, 2005, 18, 1277-1284.	1.4	91
47	Origin, distribution and 3D-modeling of Gr-EXPB1, an expansin from the potato cyst nematodeGlobodera rostochiensis. FEBS Letters, 2005, 579, 2451-2457.	1.3	56
48	Statistical analysis of the protein environment of N-glycosylation sites: implications for occupancy, structure, and folding. Glycobiology, 2003, 14, 103-114.	1.3	391
49	The Glycosylation of Tyrosinase in Melanoma Cells and the Effect on Antigen Presentation. Advances in Experimental Medicine and Biology, 2003, 535, 257-269.	0.8	2
50	Conformational Studies of Oligosaccharides and Glycopeptides:â€‰ Complementarity of NMR, X-ray Crystallography, and Molecular Modelling. Chemical Reviews, 2002, 102, 371-386.	23.0	400
51	Liquid-like and solid-like motions in proteins. Journal of Molecular Liquids, 2002, 98-99, 383-400.	2.3	3
52	Radially Softening Diffusive Motions in a Globular Protein. Biophysical Journal, 2001, 81, 1666-1676.	0.2	72
53	Collective dynamics of a photosynthetic protein probed by neutron spin-echo spectroscopy and molecular dynamics simulation. Physica B: Condensed Matter, 2000, 276-278, 514-515.	1.3	10
54	Harmonicity in slow protein dynamics. Chemical Physics, 2000, 261, 25-37.	0.9	197

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55	Change in backbone torsion angle distribution on protein folding. Protein Science, 2000, 9, 1129-1136.	3.1	12
56	Mutations at Critical N-Glycosylation Sites Reduce Tyrosinase Activity by Altering Folding and Quality Control. Journal of Biological Chemistry, 2000, 275, 8169-8175.	1.6	113
57	Tyrosinase and Glycoprotein Folding:Â Roles of Chaperones That Recognize Glycansâ€. Biochemistry, 2000, 39, 5229-5237.	1.2	53
58	N-Glycosylation Processing and Glycoprotein Foldingâ˜Lessons from the Tyrosinase-Related Proteins. Chemical Reviews, 2000, 100, 4697-4712.	23.0	41
59	A statistical analysis of N- and O-glycan linkage conformations from crystallographic data. Glycobiology, 1999, 9, 343-352.	1.3	125
60	Tyrosinase Folding and Copper Loading in Vivo: A Crucial Role for Calnexin and Î±-Glucosidase II. Biochemical and Biophysical Research Communications, 1999, 261, 720-725.	1.0	82
61	Protein specific N-glycosylation of tyrosinase and tyrosinase-related protein-1 in B16 mouse melanoma cells. Biochemical Journal, 1999, 344, 659-665.	1.7	42
62	Protein specific N-glycosylation of tyrosinase and tyrosinase-related protein-1 in B16 mouse melanoma cells. Biochemical Journal, 1999, 344, 659.	1.7	20
63	Excluded volume in the configurational distribution of a stronglyâ€denatured protein. Protein Science, 1998, 7, 1396-1403.	3.1	27
64	Inhibition of N-Glycan Processing in B16 Melanoma Cells Results in Inactivation of Tyrosinase but Does Not Prevent Its Transport to the Melanosome. Journal of Biological Chemistry, 1997, 272, 15796-15803.	1.6	76
65	Small-angle neutron scattering by a strongly denatured protein: analysis using random polymer theory. Biophysical Journal, 1997, 72, 335-342.	0.2	33
66	The solution NMR structure of glucosylated N-glycans involved in the early stages of glycoprotein biosynthesis and folding. EMBO Journal, 1997, 16, 4302-4310.	3.5	91
67	Motions in native and denatured proteins. Physica B: Condensed Matter, 1997, 241-243, 1110-1114.	1.3	2
68	Immunoaffinity Chromatography on Antibodies Immobilized on Nitrocellulose Powder. Analytical Biochemistry, 1995, 229, 299-303.	1.1	8
69	Purification and partial characterization of a lectin from Datura innoxia seeds. Phytochemistry, 1993, 34, 343-348.	1.4	1
70	Mass Spectrometry for Cancer Biomarkers. , 0, , .		2