Armando Albert

List of Publications by Year
in descending order

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83	3,359	147801	155660
papers	citations	31 h-index	55 g-index

86	86	86	4222
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A single mutation in the GSTe2 gene allows tracking of metabolically based insecticide resistance in a major malaria vector. Genome Biology, 2014, 15, R27.	9.6	267
2	Cell Signaling and Function Organized by PB1 Domain Interactions. Molecular Cell, 2006, 23, 631-640.	9.7	177
3	Tomato PYR/PYL/RCAR abscisic acid receptors show high expression in root, differential sensitivity to the abscisic acid agonist quinabactin, and the capability to enhance plant drought resistance. Journal of Experimental Botany, 2014, 65, 4451-4464.	4.8	173
4	Peptide AS-48: Prototype of a New Class of Cyclic Bacteriocins. Current Protein and Peptide Science, 2004, 5, 399-416.	1.4	169
5	The Structure of the Arabidopsis thaliana SOS3: Molecular Mechanism of Sensing Calcium for Salt Stress Response. Journal of Molecular Biology, 2005, 345, 1253-1264.	4.2	166
6	The PYL4 A194T Mutant Uncovers a Key Role of PYR1-LIKE4/PROTEIN PHOSPHATASE 2CA Interaction for Abscisic Acid Signaling and Plant Drought Resistance Â Â Â. Plant Physiology, 2013, 163, 441-455.	4.8	150
7	Structural Basis for Selective Recognition of Pneumococcal Cell Wall by Modular Endolysin from Phage Cp-1. Structure, 2003, 11, 1239-1249.	3.3	149
8	C2-Domain Abscisic Acid-Related Proteins Mediate the Interaction of PYR/PYL/RCAR Abscisic Acid Receptors with the Plasma Membrane and Regulate Abscisic Acid Sensitivity in Arabidopsis. Plant Cell, 2014, 26, 4802-4820.	6.6	127
9	The Structure of the C-Terminal Domain of the Protein Kinase AtSOS2 Bound to the Calcium Sensor AtSOS3. Molecular Cell, 2007, 26, 427-435.	9.7	123
10	A six-stranded double-psi Î² barrel is shared by several protein superfamilies. Structure, 1999, 7, 227-236.	3.3	113
11	Structure of Bacteriocin AS-48: From Soluble State to Membrane Bound State. Journal of Molecular Biology, 2003, 334, 541-549.	4.2	92
12	Crystal structure of aspartate decarboxylase at 2.2 Ã... resolution provides evidence for an ester in protein selfâ€“processing. Nature Structural Biology, 1998, 5, 289-293.	9.7	89
13	Structural basis of the regulatory mechanism of the plant CIPK family of protein kinases controlling ion homeostasis and abiotic stress. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4532-41.	7.1	81
14	Structural Biology of a Major Signaling Network that Regulates Plant Abiotic Stress: The CBL-CIPK Mediated Pathway. International Journal of Molecular Sciences, 2013, 14, 5734-5749.	4.1	79
15	Calcium-dependent oligomerization of CAR proteins at cell membrane modulates ABA signaling. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E396-405.	7.1	72
16	X-ray structure of yeast hal2p, a major target of lithium and sodium toxicity, and identification of framework interactions determining cation sensitivity. Journal of Molecular Biology, 2000, 295, 927-938.	4.2	66
17	Novel .pi.-extended thiophene-fused electron acceptors for organic metals. Journal of Organic Chemistry, 1992, 57, 6192-6198.	3.2	58
18	Diethyl 2-Benzimidazol-1-ylsuccinateâ€“Picric Acid (1/1) â€“ An Inclusion Molecular Complex. Acta Crystallographica Section B: Structural Science, 1997, 53, 961-967.	1.8	51

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19	Recognition and Activation of the Plant AKT1 Potassium Channel by the Kinase CIPK23. Plant Physiology, 2020, 182, 2143-2153.	4.8	51
20	Structural Insights on the Plant Salt-Overly-Sensitive 1 (SOS1) Na+/H+ Antiporter. Journal of Molecular Biology, 2012, 424, 283-294.	4.2	49
21	Structure of Ligand-Bound Intermediates of Crop ABA Receptors HighlightsÂPP2C as Necessary ABA Co-receptor. Molecular Plant, 2017, 10, 1250-1253.	8.3	49
22	The Role of Protein Denaturation Energetics and Molecular Chaperones in the Aggregation and Mistargeting of Mutants Causing Primary Hyperoxaluria Type I. PLoS ONE, 2013, 8, e71963.	2.5	48
23	Single-Component Donor-Acceptor Organic Semiconductors Derived from TCNQ. Journal of Organic Chemistry, 1994, 59, 4618-4629.	3.2	47
24	The first asymmetric synthesis of polyfunctionalized 4H-pyrans via Michael addition of malononitrile to 2-acryl acrylates. Tetrahedron Letters, 1992, 33, 3809-3812.	1.4	46
25	Development of methods for the synthesis of chiral, highly functionalized 2-amino-4-aryl-4H-pyrans. Tetrahedron, 1994, 50, 3509-3528.	1.9	45
26	The X-ray structure of the FMN-binding protein AtHal3 provides the structural basis for the activity of a regulatory subunit involved in signal transduction. Structure, 2000, 8, 961-969.	3.3	42
27	Synaptotagmins at the endoplasmic reticulumâ€“plasma membrane contact sites maintain diacylglycerol homeostasis during abiotic stress. Plant Cell, 2021, 33, 2431-2453.	6.6	41
28	The Structure of Arabidopsis thaliana OST1 Provides Insights into the Kinase Regulation Mechanism in Response to Osmotic Stress. Journal of Molecular Biology, 2011, 414, 135-144.	4.2	40
29	Protein Homeostasis Defects of Alanine-Glyoxylate Aminotransferase: New Therapeutic Strategies in Primary Hyperoxaluria Type I. BioMed Research International, 2013, 2013, 1-15.	1.9	40
30	The bacteriocin AS-48 requires dimer dissociation followed by hydrophobic interactions with the membrane for antibacterial activity. Journal of Structural Biology, 2015, 190, 162-172.	2.8	40
31	Structural Enzymology of Li+-sensitive/Mg2+-dependent Phosphatases. Journal of Molecular Biology, 2002, 320, 1087-1094.	4.2	33
32	Functional Characterization of the Yeast Ppz1 Phosphatase Inhibitory Subunit Hal3. Journal of Biological Chemistry, 2004, 279, 42619-42627.	3.4	32
33	Michael Addition of Malononitrile to Î±â€Acetylcinnamamides. Liebigs Annalen Der Chemie, 1993, 1993, 801-804.	0.8	30
34	The consensus-based approach for gene/enzyme replacement therapies and crystallization strategies: the case of human alanineâ€“glyoxylate aminotransferase. Biochemical Journal, 2014, 462, 453-463.	3.7	30
35	Synthesis, electrochemistry, and crystal structure of N,N'-dicyanoquinonediimine (DCNQI) derivatives containing fused benzene rings. Journal of Organic Chemistry, 1992, 57, 5726-5730.	3.2	24
36	The first asymmetric synthesis of polyfunctionalized 4H-pyrans via Michael addition of malononitrile to 2-acyl acrylates. Tetrahedron Letters, 1992, 33, 3809-3812.	1.4	24

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37	First asymmetric synthesis of 3â€alkoxycarbonylâ€2â€aminoâ€4â€arylâ€4Hâ€naphtho[1,2â€b]pyrans. Journal of Heterocyclic Chemistry, 1996, 33, 27-31.	2.6	24
38	Michael addition of malononitrile to chiral Î±-acylacrylates. Tetrahedron, 1993, 49, 7133-7144.	1.9	23
39	TrwD, the Hexameric Traffic ATPase Encoded by Plasmid R388, Induces Membrane Destabilization and Hemifusion of Lipid Vesicles. Journal of Bacteriology, 2002, 184, 1661-1668.	2.2	23
40	PYR/PYL/RCAR ABA receptors. Advances in Botanical Research, 2019, , 51-82.	1.1	23
41	Synthesis, Characterization, and Theoretical Study of Sulfur-Containing Donorâ^'Acceptor DCNQI Derivatives with Photoinduced Intramolecular Electron Transfer. Journal of Organic Chemistry, 1996, 61, 3041-3054.	3.2	21
42	Synthesis and crystal structure of piperidinium 2â€aryl[1,2,4]triazolo[1,5â€a]pyridinides and their neutralization to 2â€aryl[1,2,4]triazolo[1,5â€a]pyridines. Journal of Heterocyclic Chemistry, 1992, 29, 1229-1235.	2.6	19
43	Structure of GroEL in Complex with an Early Folding Intermediate of Alanine Glyoxylate Aminotransferase. Journal of Biological Chemistry, 2010, 285, 6371-6376.	3.4	19
44	The Aspartic Proteinases. Advances in Experimental Medicine and Biology, 1998, , 1-13.	1.6	17
45	Synthesis and X-ray structure of 1,4-bis[4-(N,N-dimethylamino)phenyl]buta-1,3-diyne: charge-transfer complex with acceptors. Journal of the Chemical Society Perkin Transactions 1, 1996, , 541-543.	0.9	16
46	Molecular Recognition of PTS-1 Cargo Proteins by Pex5p: Implications for Protein Mistargeting in Primary Hyperoxaluria. Biomolecules, 2015, 5, 121-141.	4.0	14
47	Specific interaction of histone H1 with eukaryotic DNA. Nucleic Acids Research, 1981, 9, 1383-1394.	14.5	13
48	A novel bridgehead azocine. The end of a controversy.. Tetrahedron, 1992, 48, 1581-1584.	1.9	13
49	7,7-Diphenylnorbornane: The first cofacial diphenylmethane derivative. Tetrahedron Letters, 1993, 34, 6753-6756.	1.4	13
50	Asymmetric synthesis of 3-alkoxycarbonyl-2-amino-5-cyano-4,6-diphenyl-4H-pyrans. Tetrahedron: Asymmetry, 1994, 5, 1435-1438.	1.8	13
51	A study on the scope of the photochemical ring contraction of substituted 2-amino-3-cyano-4H-pyrans to cyclobutenes: crystal structure of 3-carbamoyl-3-cyano-1-ethoxycarbonyl-4-isopropyl-2-phenylcyclobutene. Journal of the Chemical Society Perkin Transactions 1, 1997, , 3401-3406.	0.9	13
52	Synthese, electrochemical properties and crystal structure of tetracyano-p-quinodimethane (TCNQ) derivatives with Ï€-extended systems containing a sulfur atom. Synthetic Metals, 1992, 48, 59-64.	3.9	11
53	Synthesis, and structural, conformational and pharmacological studies of new fentanyl derivatives of the norgranatane system. Journal of the Chemical Society Perkin Transactions II, 1992, , 687-695.	0.9	10
54	Asymmetric synthesis of 4-alkyl-3,5-dialkoxycarbonyl-2,6-dimethyl-1,4-dihydropyridines. Tetrahedron: Asymmetry, 1995, 6, 877-880.	1.8	10

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55	New Synthetic Route to of 1,2,4-Thiadiazolines and 1,3-Thiazolines via Thiadiazolopyridinium Salts. Heterocycles, 1996, 43, 2657.	0.7	10
56	Protein engineering loops in aspartic proteinases: site-directed mutagenesis, biochemical characterization and X-ray analysis of chymosin with a replaced loop from rhizopuspepsin. Protein Engineering, Design and Selection, 1996, 9, 885-893.	2.1	9
57	Structural Basis for Membrane Anchorage of Viral Ï•29 DNA during Replication*. Journal of Biological Chemistry, 2005, 280, 42486-42488.	3.4	9
58	The structure and flexibility analysis of the Arabidopsis synaptotagmin 1 reveal the basis of its regulation at membrane contact sites. Life Science Alliance, 2021, 4, e202101152.	2.8	9
59	Novel molecules for the design of organic conductors. Synthesis of 7,7,8,8-tetracyano-2,5-bis(3-phenylpropyl)-p-quinodimethane and N,Nâ€²-dicyano-2,5-bis(3-phenylpropyl)-p-quinodiimine and X-ray structure of the TCNQ derivative. Journal of the Chemical Society Perkin Transactions 1, 1993, , 2363-2368.	0.9	8
60	Structure of the Functional Domain of Ï†29 Replication Organizer. Journal of Biological Chemistry, 2005, 280, 20730-20739.	3.4	8
61	SnRK2.6/OST1 fromArabidopsis thaliana: cloning, expression, purification, crystallization and preliminary X-ray analysis of K50N and D160A mutants. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 364-368.	0.7	8
62	SOS3 (salt overly sensitive 3) fromArabidopsis thaliana: expression, purification, crystallization and preliminary X-ray analysis. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1272-1274.	2.5	7
63	An analysis of subdomain orientation, conformational change and disorder in relation to crystal packing of aspartic proteinases. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 541-552.	2.5	7
64	Pharmacological Approaches for the Modulation of the Potassium Channel KV4.x and KChIPs. International Journal of Molecular Sciences, 2021, 22, 1419.	4.1	7
65	Structure of concanavalin A at pH 8: bound solvent and crystal contacts. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1048-1056.	2.5	6
66	Crystallization and preliminary crystallographic analysis of merohedrally twinned crystals of MJ0729, a CBS-domain protein fromMethanococcus jannaschii. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 605-609.	0.7	6
67	The Structural Domains of Pseudomonas aeruginosa Phosphorylcholine Phosphatase Cooperate in Substrate Hydrolysis: 3D Structure and Enzymatic Mechanism. Journal of Molecular Biology, 2012, 423, 503-514.	4.2	6
68	Tricyanovinyithiophenes as novel electron acceptors for organic metals. Journal of Materials Chemistry, 1995, 5, 1141-1145.	6.7	5
69	PYL1- and PYL8-like ABA Receptors of Nicotiana benthamiana Play a Key Role in ABA Response in Seed and Vegetative Tissue. Cells, 2022, 11, 795.	4.1	5
70	A novel molecule for the design of organic conductors: 2,5-Bis(3-phenylpropyl)-7,7,8,8-tetracyano-p-quinodimethane. Synthetic Metals, 1993, 56, 1730-1734.	3.9	4
71	Tetrafluoro and dichloro derivatives of thiophene-fused DCNQI- and TCNQ-type acceptors: a synthetic, electrochemical and crystallographic study. Journal of Materials Chemistry, 1997, 7, 25-29.	6.7	4
72	Making the most of commercial sparse-matrix protein crystallization screening kits. Journal of Applied Crystallography, 1999, 32, 336-338.	4.5	4

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73	The complex between SOS3 and SOS2 regulatory domain fromArabidopsis thaliana: cloning, expression, purification, crystallization and preliminary X-ray analysis. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 568-570.	0.7	4
74	Crystallization and preliminary X-ray diffraction analysis ofPseudomonas aeruginosaphosphorylcholine phosphatase. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 957-960.	0.7	4
75	Protein Engineering Aspartic Proteinases. Advances in Experimental Medicine and Biology, 1998, , 169-177.	1.6	4
76	Reactivity of cinnamonitriles with 2-cyano- and 2-ethoxycarbonylacetohydrazides: a novel one-step preparation and crystal structure of 3-oxopyrazolo [3,4-b]pyridines. Journal of the Chemical Society Perkin Transactions 1, 1993, , 1743-1748.	0.9	3
77	Preliminary crystallographic analysis of the ankyrin-repeat domain ofArabidopsis thalianaAKT1: identification of the domain boundaries for protein crystallization. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 509-512.	0.8	3
78	Crystallization and preliminary X-ray diffraction studies of the complete modular endolysin from Cp-1, a phage infectingStreptococcus pneumoniae. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1487-1489.	2.5	2
79	Structure-Based Modulation of the Ligand Sensitivity of a Tomato Dimeric Abscisic Acid Receptor Through a Glu to Asp Mutation in the Latch Loop. Frontiers in Plant Science, 0, 13, .	3.6	2
80	Crystallization and preliminary crystallographic analysis of a C2 protein from Arabidopsis thaliana. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1575-1578.	0.7	1
81	Identification of ABA Receptor Using aÂMultiplexed Chemical Screening. Methods in Molecular Biology, 2021, 2213, 99-111.	0.9	1
82	It takes two to tango: Unraveling a new post-translational modification involved in SnRK2.6 activation. Molecular Plant, 2021, 14, 1779-1781.	8.3	0
83	Fully dedicated website for learning crystallography at Institute of Physical Chemistry Rocasolano. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C508-C508.	0.1	0