

# Luis Alfonso MartÃ-nez-Cruz

## List of Publications by Year in descending order

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60  
papers

2,219  
citations

218677

26  
h-index

233421

45  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2992  
citing authors

#	ARTICLE	IF	CITATIONS
1	Methionine Cycle Rewiring by Targeting miR-873-5p Modulates Ammonia Metabolism to Protect the Liver from Acetaminophen. <i>Antioxidants</i> , 2022, 11, 897.	5.1	3
2	Structural insight into the unique conformation of cystathionine $\beta$ -synthase from <i>Toxoplasma gondii</i> . <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3542-3555.	4.1	5
3	ARL15 modulates magnesium homeostasis through N-glycosylation of CNNMs. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 5427-5445.	5.4	18
4	Magnesium accumulation upon cyclin M4 silencing activates microsomal triglyceride transfer protein improving NASH. <i>Journal of Hepatology</i> , 2021, 75, 34-45.	3.7	21
5	Magnesium, Little Known But Possibly Relevant: A Link between NASH and Related Comorbidities. <i>Biomedicines</i> , 2021, 9, 125.	3.2	6
6	Cystathionine $\beta$ -synthase is involved in cysteine biosynthesis and H <sub>2</sub> S generation in <i>Toxoplasma gondii</i> . <i>Scientific Reports</i> , 2020, 10, 14657.	3.3	16
7	Mouse Models of Human Claudin-Associated Disorders: Benefits and Limitations. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5504.	4.1	11
8	Current Structural Knowledge on the CNNM Family of Magnesium Transport Mediators. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1135.	4.1	42
9	Structural Insights into the Intracellular Region of the Human Magnesium Transport Mediator CNNM4. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6279.	4.1	13
10	Crystal structure of cystathionine $\beta$ -synthase from honeybee <i>Apis mellifera</i> . <i>Journal of Structural Biology</i> , 2018, 202, 82-93.	2.8	13
11	Novel Aspects of Renal Magnesium Homeostasis. <i>Frontiers in Pediatrics</i> , 2018, 6, 77.	1.9	25
12	Structural Basis of the Oncogenic Interaction of Phosphatase PRL-1 with the Magnesium Transporter CNNM2. <i>Journal of Biological Chemistry</i> , 2017, 292, 786-801.	3.4	48
13	Potential Pharmacological Chaperones for Cystathionine Beta-Synthase-Deficient Homocystinuria. <i>Handbook of Experimental Pharmacology</i> , 2017, 245, 345-383.	1.8	28
14	Inhibition of PRL-2-CNNM3 Protein Complex Formation Decreases Breast Cancer Proliferation and Tumor Growth. <i>Journal of Biological Chemistry</i> , 2016, 291, 10716-10725.	3.4	39
15	Oligomeric status of human cystathionine beta-synthase modulates AdoMet binding. <i>FEBS Letters</i> , 2016, 590, 4461-4471.	2.8	8
16	Targeting Cystathionine Beta-Synthase Misfolding in Homocystinuria by Small Ligands: State of the Art and Future Directions. <i>Current Drug Targets</i> , 2016, 17, 1455-1470.	2.1	30
17	The C-terminal RNA binding motif of HuR is a multi-functional domain leading to HuR oligomerization and binding to U-rich RNA targets. <i>RNA Biology</i> , 2014, 11, 1250-1261.	3.1	52
18	Nucleotide binding triggers a conformational change of the CBS module of the magnesium transporter CNNM2 from a twisted towards a flat structure. <i>Biochemical Journal</i> , 2014, 464, 23-34.	3.7	41

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19	Purification, crystallization and preliminary crystallographic analysis of the catalytic core of cystathionine $\beta$ -synthase from <i>Saccharomyces cerevisiae</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 320-325.	0.8	0
20	Insights into mechanism kinematics for protein motion simulation. <i>BMC Bioinformatics</i> , 2014, 15, 184.	2.6	11
21	Structural insight into the molecular mechanism of allosteric activation of human cystathionine $\beta$ -synthase by S-adenosylmethionine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3845-52.	7.1	86
22	Domain Organization, Catalysis and Regulation of Eukaryotic Cystathionine Beta-Synthases. <i>PLoS ONE</i> , 2014, 9, e105290.	2.5	42
23	CBS domains: Ligand binding sites and conformational variability. <i>Archives of Biochemistry and Biophysics</i> , 2013, 540, 70-81.	3.0	105
24	Biokinematic protein simulation by an adaptive dihedral angle approach. <i>Mechanism and Machine Theory</i> , 2013, 69, 105-114.	4.5	1
25	Structural basis of regulation and oligomerization of human cystathionine $\beta$ -synthase, the central enzyme of transsulfuration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3790-9.	7.1	89
26	Purification, crystallization and preliminary crystallographic analysis of the CBS-domain pair of cyclin M2 (CNNM2). <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1198-1203.	0.7	12
27	Mutation of Ser-50 and Cys-66 in Snapin Modulates Protein Structure and Stability. <i>Biochemistry</i> , 2012, 51, 3470-3484.	2.5	6
28	Purification, crystallization and preliminary crystallographic analysis of human cystathionine $\beta$ -synthase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1318-1322.	0.7	9
29	Purification, crystallization and preliminary crystallographic analysis of the full-length cystathionine $\beta$ -synthase from <i>Apis mellifera</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1323-1328.	0.7	3
30	A biokinematic approach for the computational simulation of proteins molecular mechanism. <i>Mechanism and Machine Theory</i> , 2011, 46, 1854-1868.	4.5	13
31	Purification, crystallization and preliminary crystallographic analysis of the CBS-domain protein MJ1004 from <i>Methanocaldococcus jannaschii</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 318-324.	0.7	5
32	Purification, crystallization and preliminary crystallographic analysis of the CBS pair of the human metal transporter CNNM4. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 349-353.	0.7	11
33	Nucleotide-induced conformational transitions in the CBS domain protein MJ0729 of <i>Methanocaldococcus jannaschii</i> . <i>Protein Engineering, Design and Selection</i> , 2011, 24, 161-169.	2.1	3
34	The CBS domain protein MJ0729 of <i>Methanocaldococcus jannaschii</i> binds DNA. <i>FEBS Letters</i> , 2010, 584, 4485-4489.	2.8	12
35	Binding of S-Methyl-5'-Thioadenosine and S-Adenosyl-L-Methionine to Protein MJ0100 Triggers an Open-to-Closed Conformational Change in Its CBS Motif Pair. <i>Journal of Molecular Biology</i> , 2010, 396, 800-820.	4.2	42
36	The Crystal Structure of Protein MJ1225 from <i>Methanocaldococcus jannaschii</i> Shows Strong Conservation of Key Structural Features Seen in the Eukaryal $\beta$ -AMPK. <i>Journal of Molecular Biology</i> , 2010, 399, 53-70.	4.2	27

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37	Purification, crystallization and preliminary crystallographic analysis of protein MJ1225 from <i>Methanocaldococcus jannaschii</i> , a putative archaeal homologue of $\text{I}^3\text{-AMPK}$ . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 813-817.	0.7	4
38	The CBS Domain Protein MJ0729 of <i>Methanocaldococcus jannaschii</i> Is a Thermostable Protein with a pH-Dependent Self-Oligomerization. <i>Biochemistry</i> , 2009, 48, 2760-2776.	2.5	10
39	Crystallization and preliminary crystallographic analysis of merohedrally twinned crystals of MJ0729, a CBS-domain protein from <i>Methanocaldococcus jannaschii</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 605-609.	0.7	6
40	Purification, crystallization and preliminary X-ray diffraction analysis of the CBS-domain pair from the <i>Methanocaldococcus jannaschii</i> protein MJ0100. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 936-941.	0.7	4
41	Identification of peptide inhibitors of transforming growth factor beta 1 using a phage-displayed peptide library. <i>Cytokine</i> , 2007, 39, 106-115.	3.2	69
42	Identification of a gene-pathway associated with non-alcoholic steatohepatitis. <i>Journal of Hepatology</i> , 2007, 46, 708-718.	3.7	52
43	S-Adenosylmethionine Regulates Cytoplasmic HuR Via AMP-Activated Kinase. <i>Gastroenterology</i> , 2006, 131, 223-232.	1.3	87
44	Correlation between Gene Expression and GO Semantic Similarity. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2005, 2, 330-338.	3.0	194
45	Gene expression profile of omental adipose tissue in human obesity. <i>FASEB Journal</i> , 2004, 18, 215-217.	0.5	155
46	Pancreatic cancer escape variants that evade immunogene therapy through loss of sensitivity to IFN $\gamma$ -induced apoptosis. <i>Gene Therapy</i> , 2003, 10, 1067-1078.	4.5	35
47	GARBAN: genomic analysis and rapid biological annotation of cDNA microarray and proteomic data. <i>Bioinformatics</i> , 2003, 19, 2158-2160.	4.1	27
48	Spontaneous oxidative stress and liver tumors in mice lacking methionine adenosyltransferase 1A. <i>FASEB Journal</i> , 2002, 16, 1292-1294.	0.5	259
49	Crystal Structure of MJ1247 Protein from <i>M. jannaschii</i> at 2.0 Å.. Resolution Infers a Molecular Function of 3-Hexulose-6-Phosphate Isomerase. <i>Structure</i> , 2002, 10, 195-204.	3.3	32
50	S-Adenosylmethionine revisited. <i>Alcohol</i> , 2002, 27, 163-167.	1.7	46
51	Iron carbonyls with bulky thiolate ligands: crystal structures of $[\text{Fe}_2(\text{CO})_6(\text{I}^1/4\text{-SC}_6\text{H}_2\text{-2,4,6})_2]$ and $(\text{C}_6\text{H}_2\text{-2,4,6})_2\text{S}_2$ . <i>Inorganica Chimica Acta</i> , 1999, 284, 14-19.	2.4	14
52	Crystal structure of the $\text{I}^2$ -glycosidase from the hyperthermophile <i>Thermosphaera aggregans</i> : insights into its activity and thermostability. <i>FEBS Letters</i> , 1999, 445, 375-383.	2.8	71
53	Imine-Enamine Tautomeric Equilibrium of Palladium Imidoyl Complexes. <i>Organometallics</i> , 1999, 18, 5225-5237.	2.3	24
54	Ajoene Is an Inhibitor and Subversive Substrate of Human Glutathione Reductase and Trypanosoma cruzi Trypanothione Reductase: Crystallographic, Kinetic, and Spectroscopic Studies. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 364-372.	6.4	115

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55	Diastereoselective Allylations of Enantiopure 3- and 4-Substituted $\eta^4$ -(1Z)-(Sulfinyldienal)iron(0) Tricarbonyl Complexes. <i>Organometallics</i> , 1998, 17, 1841-1849.	2.3	13
56	Synthesis and characterization of oxo- and thiophosphorylcyclopentadienyl Ti(IV) thiolate complexes. Crystal structures of $[(\eta^5\text{-C}_5\text{H}_4\text{P}(\text{S})\text{Ph}_2)(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3)\text{TiCl}_2]$ and $[(\eta^5\text{-C}_5\text{H}_4\text{P}(\text{S})\text{Ph}_2)_2\text{Ti}(\text{SPh})_2]\cdot\text{C}_4\text{H}_{10}\text{O}$ . <i>Journal of Organometallic Chemistry</i> , 1998, 560, 27-33.	1.8	11
57	A way to obtain cyclopalladation of unsubstituted 2-phenylimidazole derivatives. <i>Journal of Organometallic Chemistry</i> , 1996, 522, 97-103.	1.8	11
58	Synthesis and NMR structural analysis of several orthopalladated complexes of substituted benzo-imidazole, -oxazole and -thiazole and study of two polymorphic crystals. <i>Journal of Organometallic Chemistry</i> , 1996, 518, 29-36.	1.8	24
59	A study of cation arrays in $\text{MB}_{2/3}$ , $\text{MB}_{4/3}$ and $\text{MB}_{6/3}$ borides. Part II. Cluster formation and bonding aspects. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 1995, 210, 581-584.	0.8	9
60	A study of cation arrays in $\text{MB}_2$ , $\text{MB}_4$ and $\text{MB}_6$ borides. Part I. Their relation to their parent metals. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 1995, 210, 574-580.	0.8	10