Maria J Macias

List of Publications by Year
in descending order

66 papers	5,013 citations	186265 28 h-index	114465 63 g-index
73 all docs	73 docs citations	73 times ranked	8795 citing authors

#	Article	IF	Citations
1	Nuclear CDKs Drive Smad Transcriptional Activation and Turnover in BMP and TGF-Î² Pathways. Cell, 2009, 139, 757-769.	28.9	627
2	WW and SH3 domains, two different scaffolds to recognize proline-rich ligands. FEBS Letters, 2002, 513, 30-37.	2.8	431
3	Structure of the WW domain of a kinase-associated protein complexed with a proline-rich peptide. Nature, 1996, 382, 646-649.	27.8	426
4	Automated NOESY interpretation with ambiguous distance restraints: the refined NMR solution structure of the pleckstrin homology domain from Î²-spectrin 1 1Edited by P. E. Wright. Journal of Molecular Biology, 1997, 269, 408-422.	4.2	414
5	Ubiquitin Ligase Nedd4L Targets Activated Smad2/3 to Limit TGF-Î² Signaling. Molecular Cell, 2009, 36, 457-468.	9.7	306
6	Structural determinants of Smad function in TGF-Î² signaling. Trends in Biochemical Sciences, 2015, 40, 296-308.	7.5	297
7	Structure of the pleckstrin homology domain from Î²-spectrin. Nature, 1994, 369, 675-677.	27.8	256
8	Specific interactions between the syntrophin PDZ domain and voltage-gated sodium channels. Nature Structural Biology, 1998, 5, 19-24.	9.7	217
9	Structural analysis of WW domains and design of a WW prototype. Nature Structural Biology, 2000, 7, 375-379.	9.7	208
10	A Smad action turnover switch operated by WW domain readers of a phosphoserine code. Genes and Development, 2011, 25, 1275-1288.	5.9	207
11	ADP-riboseâ€"derived nuclear ATP synthesis by NUDIX5 is required for chromatin remodeling. Science, 2016, 352, 1221-1225.	12.6	141
12	The three-dimensional structure of the HRDC domain and implications for the Werner and Bloom syndrome proteins. Structure, 1999, 7, 1557-1566.	3.3	126
13	Solution structures of the YAP65 WW domain and the variant L30 K in complex with the peptides GTPPPPYTVG, N-(n-octyl)-GPPPY and PLPPY and the application of peptide libraries reveal a minimal binding epitope. Journal of Molecular Biology, 2001, 314, 1147-1156.	4.2	106
14	Ultrafast folding of WW domains without structured aromatic clusters in the denatured state. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13002-13007.	7.1	94
15	Structural Basis for the Versatile Interactions of Smad7 with Regulator WW Domains in TGF-Î² Pathways. Structure, 2012, 20, 1726-1736.	3.3	93
16	Structural basis for genome wide recognition of 5-bp GC motifs by SMAD transcription factors. Nature Communications, 2017, 8, 2070.	12.8	81
17	Solution Structure and Ligand Recognition of the WW Domain Pair of the Yeast Splicing Factor Prp40. Journal of Molecular Biology, 2002, 324, 807-822.	4.2	73
18	Structural basis for distinct roles of SMAD2 and SMAD3 in FOXH1 pioneer-directed TGF-Î² signaling. Genes and Development, 2019, 33, 1506-1524.	5.9	61

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19	Structural Basis of the Activation and Degradation Mechanisms of the E3ÂUbiquitin Ligase Nedd4L. Structure, 2014, 22, 1446-1457.	3.3	54
20	DOR/Tp53inp2 and Tp53inp1 Constitute a Metazoan Gene Family Encoding Dual Regulators of Autophagy and Transcription. PLoS ONE, 2012, 7, e34034.	2.5	51
21	Identification of novel non-canonical RNA-binding sites in Gemin5 involved in internal initiation of translation. Nucleic Acids Research, 2014, 42, 5742-5754.	14.5	47
22	Structure of the Dimeric Exonuclease TREX1 in Complex with DNA Displays a Proline-rich Binding Site for WW Domains. Journal of Biological Chemistry, 2007, 282, 14547-14557.	3.4	45
23	TGIF1 homeodomain interacts with Smad MH1 domain and represses TGF-Î² signaling. Nucleic Acids Research, 2018, 46, 9220-9235.	14.5	37
24	A small region in phosducin inhibits G-protein beta gamma -subunit function. EMBO Journal, 1997, 16, 4908-4915.	7.8	36
25	Folding kinetics of WW domains with the united residue force field for bridging microscopic motions and experimental measurements. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18243-18248.	7.1	36
26	The Structure of Prp40 FF1 Domain and Its Interaction with the crn-TPR1 Motif of Clf1 Gives a New Insight into the Binding Mode of FF Domains. Journal of Biological Chemistry, 2006, 281, 356-364.	3.4	32
27	Theoretical calculations, synthesis and base pairing properties of oligonucleotides containing 8-amino-2'-deoxyadenosine. Nucleic Acids Research, 1999, 27, 1991-1998.	14.5	31
28	A tale of two secondary structure elements: when a Î²-hairpin becomes an Î±-helix 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 1999, 292, 389-401.	4.2	31
29	Furanoeremophilanes and a bakkenolide from Senecio auricula var. major. Phytochemistry, 1998, 47, 57-61.	2.9	29
30	A novel NMR experiment for the sequential assignment of proline residues and proline stretches in 13C/15N-labeled proteins. Journal of Biomolecular NMR, 1999, 13, 381-385.	2.8	29
31	Structure and dynamics of the human pleckstrin DEP domain: Distinct molecular features of a novel DEP domain subfamily. Proteins: Structure, Function and Bioinformatics, 2004, 58, 354-366.	2.6	27
32	NMR Structural Studies of the ItchWW3 Domain Reveal that Phosphorylation at T30 Inhibits the Interaction with PPxY-Containing Ligands. Structure, 2007, 15, 473-483.	3.3	25
33	Myotonia-related mutations in the distal C-terminus of ClC-1 and ClC-0 chloride channels affect the structure of a poly-proline helix. Biochemical Journal, 2007, 403, 79-87.	3.7	23
34	A tetradecapeptide somatostatin dicarba-analog: Synthesis, structural impact and biological activity. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 103-107.	2.2	23
35	Solution structure of the yeast URN1 splicing factor FF domain: Comparative analysis of charge distributions in FF domain structuresâ€"FFs and SURPs, two domains with a similar fold. Proteins: Structure, Function and Bioinformatics, 2008, 73, 1001-1009.	2.6	22
36	Fineâ€tuning the Ï€â€"Ï€ Aromatic Interactions in Peptides: Somatostatin Analogues Containing Mesityl Alanine. Angewandte Chemie - International Edition, 2012, 51, 1820-1825.	13.8	19

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37	Preventing fibril formation of a protein by selective mutation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13549-13554.	7.1	17
38	Structure-based design of a Cortistatin analogue with immunomodulatory activity in models of inflammatory bowel disease. Nature Communications, 2021, 12, 1869.	12.8	16
39	Structural Characterization of a New Binding Motif and a Novel Binding Mode in Group 2 WW Domains. Journal of Molecular Biology, 2007, 373, 1255-1268.	4.2	15
40	SSTR1â€•and SSTR3â€Selective Somatostatin Analogues. ChemBioChem, 2011, 12, 625-632.	2.6	14
41	Structural Analysis of the Pin1-CPEB1 interaction and its potential role in CPEB1 degradation. Scientific Reports, 2015, 5, 14990.	3.3	14
42	Gibberellin-like activity of some tetracyclic diterpenoids from Elaeoselinum species and their derivatives. Phytochemistry, 1994, 37, 635-639.	2.9	13
43	The FF4 and FF5 Domains of Transcription Elongation Regulator 1 (TCERG1) Target Proteins to the Periphery of Speckles. Journal of Biological Chemistry, 2012, 287, 17789-17800.	3.4	12
44	Insights into Structure-Activity Relationships of Somatostatin Analogs Containing Mesitylalanine. Molecules, 2013, 18, 14564-14584.	3.8	12
45	Binding site plasticity in viral PPxY Late domain recognition by the third WW domain of human NEDD4. Scientific Reports, 2019, 9, 15076.	3.3	12
46	HTSDSF Explorer, A Novel Tool to Analyze High-throughput DSF Screenings. Journal of Molecular Biology, 2022, 434, 167372.	4.2	12
47	SYNTHESIS AND PROPERTIES OF OLIGONUCLEOTIDES CONTAINING 8-BROMO-2â€²-DEOXYGUANOSINE. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20, 251-260.	1.1	11
48	RNA recognition and self-association of CPEB4 is mediated by its tandem RRM domains. Nucleic Acids Research, 2014, 42, 10185-10195.	14.5	10
49	Peptide aromatic interactions modulated by fluorinated residues: Synthesis, structure and biological activity of Somatostatin analogs containing 3-(3â€²,5â€²difluorophenyl)-alanine. Scientific Reports, 2016, 6, 27285.	3.3	10
50	New Kaurance Diterpenoids from the Aerial Parts of Distichoselinum tenuifolium. Journal of Natural Products, 1991, 54, 866-869.	3.0	9
51	Conformational landscape of multidomain SMAD proteins. Computational and Structural Biotechnology Journal, 2021, 19, 5210-5224.	4.1	9
52	Phenylpropanoids from Pimpinella villosa. Phytochemistry, 1994, 37, 539-542.	2.9	8
53	Solution structure of the fourth FF domain of yeast Prp40 splicing factor. Proteins: Structure, Function and Bioinformatics, 2009, 77, 1000-1003.	2.6	8
54	NMR Structural Studies on Human p190-A RhoGAPFF1 Revealed that Domain Phosphorylation by the PDGF-Receptor Î± Requires Its Previous Unfolding. Journal of Molecular Biology, 2009, 389, 230-237.	4.2	8

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55	Structure of the N-terminal domain of the protein Expansion: an `Expansion' to the Smad MH2 fold. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 844-853.	2.5	7
56	Carbon-13 nuclear magnetic resonance spectra of some tetracyclic diterpenoids isolated fromElaeoselinum species. Phytochemical Analysis, 1993, 4, 19-24.	2.4	6
57	Unveiling the dimer/monomer propensities of Smad MH1-DNA complexes. Computational and Structural Biotechnology Journal, 2021, 19, 632-646.	4.1	6
58	Conformational ensemble of the TNF-derived peptide solnatide in solution. Computational and Structural Biotechnology Journal, 2022, 20, 2082-2090.	4.1	5
59	Phosphorylation of either Ser16 or Thr30 does not disrupt the structure of the Itch E3 ubiquitin ligase third WW domain. Proteins: Structure, Function and Bioinformatics, 2005, 60, 558-560.	2.6	4
60	Structures of the germline-specific Deadhead and thioredoxin T proteins from <i>Drosophila melanogaster</i> reveal unique features among thioredoxins. IUCrJ, 2021, 8, 281-294.	2.2	4
61	Synthesis of Stable Cholesterylâ€“Polyethylene Glycolâ€“Peptide Conjugates with Non-Disperse Polyethylene Glycol Lengths. ACS Omega, 2020, 5, 5508-5519.	3.5	3
62	Addition of HOBt improves the conversion of thioesterâ€Amine chemical ligation. Biopolymers, 2015, 104, 693-702.	2.4	1
63	The synthesis of an EDTA-like chelating peptidomimetic building block suitable for solid-phase peptide synthesis. Chemical Communications, 2017, 53, 2634-2636.	4.1	1
64	Controlling oncogenic KRAS signaling pathways with a Palladium-responsive peptide. Communications Chemistry, 2022, 5, .	4.5	1
65	InnenrÃ¼cktitelbild: Fine-tuning the Ï€-Ï€ Aromatic Interactions in Peptides: Somatostatin Analogues Containing Mesityl Alanine (Angew. Chem. 8/2012). Angewandte Chemie, 2012, 124, 2015-2015.	2.0	0
66	Inside Back Cover: Fineâ€tuning the Ï€â€“Ï€ Aromatic Interactions in Peptides: Somatostatin Analogues Containing Mesityl Alanine (Angew. Chem. Int. Ed. 8/2012). Angewandte Chemie - International Edition, 2012, 51, 1977-1977.	13.8	0