Assâ€profâ€dr Pedro A SÃ¡nchez-Murci

List of Publications by Year
in descending order

56 papers	866 citations	566801 15 h-index	552369 26 g-index
58 all docs	58 docs citations	58 times ranked	1296 citing authors

#	Article	IF	Citations
1	Photoactivation of Channelrhodopsin. Journal of Biological Chemistry, 2008, 283, 1637-1643.	1.6	146
2	Translation Elongation Factor eEF1A2 is a Novel Anticancer Target for the Marine Natural Product Plitidepsin. Scientific Reports, 2016, 6, 35100.	1.6	71
3	A Series of Enthalpically Optimized Docetaxel Analogues Exhibiting Enhanced Antitumor Activity and Water Solubility. Journal of Natural Products, 2018, 81, 524-533.	1.5	39
4	Modular Architecture and Unique Teichoic Acid Recognition Features of Choline-Binding Protein L (CbpL) Contributing to Pneumococcal Pathogenesis. Scientific Reports, 2016, 6, 38094.	1.6	32
5	Molecular Recognition of Epothilones by Microtubules and Tubulin Dimers Revealed by Biochemical and NMR Approaches. ACS Chemical Biology, 2014, 9, 1033-1043.	1.6	30
6	First example of peptides targeting the dimer interface of Leishmania infantum trypanothione reductase with potent inÂvitro antileishmanial activity #. European Journal of Medicinal Chemistry, 2017, 135, 49-59.	2.6	29
7	Enzymatic Synthesis of Therapeutic Nucleosides using a Highly Versatile Purine Nucleoside 2â€™â€ÐeoxyribosylTransferase from Trypanosoma brucei. ChemCatChem, 2018, 10, 4406-4416.	1.8	28
8	Formal asymmetric enone aminohydroxylation: organocatalytic one-pot synthesis of 4,5-disubstituted oxazolidinones. Chemical Communications, 2012, 48, 6112.	2.2	27
9	Pyrrolopyrimidine vs Imidazole-Phenyl-Thiazole Scaffolds in Nonpeptidic Dimerization Inhibitors of Leishmania infantum Trypanothione Reductase. ACS Infectious Diseases, 2019, 5, 873-891.	1.8	26
10	Probing the Dimerization Interface of Leishmania infantum Trypanothione Reductase with Siteâ€Ðirected Mutagenesis and Short Peptides. ChemBioChem, 2013, 14, 1212-1217.	1.3	23
11	Structural Determinants of the Dictyostatin Chemotype for Tubulin Binding Affinity and Antitumor Activity Against Taxane- and Epothilone-Resistant Cancer Cells. ACS Omega, 2016, 1, 1192-1204.	1.6	22
12	Structural rationale for the cross-resistance of tumor cells bearing the A399V variant of elongation factor eEF1A1 to the structurally unrelated didemnin B, ternatin, nannocystin A and ansatrienin B. Journal of Computer-Aided Molecular Design, 2017, 31, 915-928.	1.3	22
13	Excimer Intermediates en Route to Long-Lived Charge-Transfer States in Single-Stranded Adenine DNA as Revealed by Nonadiabatic Dynamics. Journal of Physical Chemistry Letters, 2020, 11, 7483-7488.	2.1	21
14	2â€²-Deoxyribosyltransferase from Leishmania mexicana, an efficient biocatalyst for one-pot, one-step synthesis of nucleosides from poorly soluble purine bases. Applied Microbiology and Biotechnology, 2017, 101, 7187-7200.	1.7	20
15	Characterization of an atypical, thermostable, organic solvent- and acid-tolerant 2â€²-deoxyribosyltransferase from Chroococcidiopsis thermalis. Applied Microbiology and Biotechnology, 2018, 102, 6947-6957.	1.7	17
16	Molecular Interactions and Implications of Aldose Reductase Inhibition by PGA₁ and Clinically Used Prostaglandins. Molecular Pharmacology, 2016, 89, 42-52.	1.0	16
17	Trypanothione reductase inhibition and anti-leishmanial activity of all-hydrocarbon stapled Î±-helical peptides with improved proteolytic stability. European Journal of Medicinal Chemistry, 2018, 149, 238-247.	2.6	16
18	A Supramolecular Stabilizer of the 14â€3â€3Î¶/ERÎ± Proteinâ€Protein Interaction with a Synergistic Mode of Action. Angewandte Chemie - International Edition, 2020, 59, 5284-5287.	7.2	15

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19	Exciton Localization on Ru-Based Photosensitizers Induced by Binding to Lipid Membranes. Journal of Physical Chemistry Letters, 2018, 9, 683-688.	2.1	14
20	Efficient Dimerization Disruption of Leishmania infantum Trypanothione Reductase by Triazole-phenyl-thiazoles. Journal of Medicinal Chemistry, 2021, 64, 6137-6160.	2.9	14
21	Comparison of hydrocarbon-and lactam-bridged cyclic peptides as dimerization inhibitors of Leishmania infantum trypanothione reductase. RSC Advances, 2015, 5, 55784-55794.	1.7	13
22	Spiropyran Meets Guanine Quadruplexes: Isomerization Mechanism and DNA Binding Modes of Quinolizidineâ€Substituted Spiropyran Probes. Chemistry - A European Journal, 2020, 26, 13039-13045.	1.7	13
23	A functional BH3 domain in an aquaporin from Leishmania infantum. Cell Death Discovery, 2016, 2, 16043.	2.0	12
24	Stepwise Simulation of 3,5-Dihydro-5-methylidene-4H-imidazol-4-one (MIO) Biogenesis in Histidine Ammonia-lyase. Biochemistry, 2016, 55, 5854-5864.	1.2	11
25	Unravelling the covalent binding of zampanolide and taccalonolide AJ to a minimalist representation of a human microtubule. Journal of Computer-Aided Molecular Design, 2019, 33, 627-644.	1.3	11
26	Arginine mimetic appended peptide-based probes for fluorescence turn-on detection of 14-3-3 proteins. Organic and Biomolecular Chemistry, 2019, 17, 4359-4363.	1.5	11
27	Reaction mechanism of nucleoside 2â€²-deoxyribosyltransferases: free-energy landscape supports an oxocarbenium ion as the reaction intermediate. Organic and Biomolecular Chemistry, 2019, 17, 7891-7899.	1.5	10
28	Enhanced Rigidity Changes Ultraviolet Absorption: Effect of a Merocyanine Binder on G-Quadruplex Photophysics. Journal of Physical Chemistry Letters, 2020, 11, 10212-10218.	2.1	10
29	Restoration of Microtubule Interaction and Cytotoxicity in D-seco Taxanes upon Incorporation of 20-Hydroxymethyl-4-allyloxy Groups. Organic Letters, 2015, 17, 6098-6101.	2.4	9
30	Improved proteolytic stability and potent activity against Leishmania infantum trypanothione reductase of Î±/Î²-peptide foldamers conjugated to cell-penetrating peptides. European Journal of Medicinal Chemistry, 2017, 140, 615-623.	2.6	9
31	Engineering Erg10 Thiolase from Saccharomyces cerevisiae as a Synthetic Toolkit for the Production of Branched-Chain Alcohols. Biochemistry, 2018, 57, 1338-1348.	1.2	9
32	Genome mining and characterisation of a novel transaminase with remote stereoselectivity. Scientific Reports, 2019, 9, 20285.	1.6	9
33	Orbital-free photophysical descriptors to predict directional excitations in metal-based photosensitizers. Chemical Science, 2020, 11, 7685-7693.	3.7	9
34	Unveiling the reaction mechanism of novel copperN-alkylated tetra-azacyclophanes with outstanding superoxide dismutase activity. Chemical Communications, 2020, 56, 7511-7514.	2.2	9
35	Making sense of the past: hyperstability of ancestral thioredoxins explained by free energy simulations. Physical Chemistry Chemical Physics, 2017, 19, 23239-23246.	1.3	8
36	Peptides Mimicking the Î²7/Î²8 Loop of HIV-1 Reverse Transcriptase p51 as â€œHotspot-Targetedâ€•Dimerization Inhibitors. ACS Medicinal Chemistry Letters, 2020, 11, 811-817.	1.3	8

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37	FOXO transcription factors differ in their dynamics and intra/intermolecular interactions. Current Research in Structural Biology, 2022, 4, 118-133.	1.1	7
38	Enantioselective oxidation of galactitol 1-phosphate by galactitol-1-phosphate 5-dehydrogenase fromEscherichia coli. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1540-1554.	2.5	6
39	Structure-based domain assignment in Leishmania infantum EndoG: characterization of a pH-dependent regulatory switch and a C-terminal extension that largely dictates DNA substrate preferences. Nucleic Acids Research, 2017, 45, 9030-9045.	6.5	6
40	Directional and regioselective hole injection of spiropyran photoswitches intercalated into A/T-duplex DNA. Physical Chemistry Chemical Physics, 2019, 21, 17971-17977.	1.3	6
41	DNA-binding mechanism of spiropyran photoswitches: the role of electrostatics. Physical Chemistry Chemical Physics, 2019, 21, 8614-8618.	1.3	6
42	Molecular Basis of NDT-Mediated Activation of Nucleoside-Based Prodrugs and Application in Suicide Gene Therapy. Biomolecules, 2021, 11, 120.	1.8	6
43	Unravelling the Turnâ€On Fluorescence Mechanism of a Fluoresceinâ€Based Probe in GABA_A Receptors. Angewandte Chemie - International Edition, 2022, 61, .	7.2	6
44	Silyl Assistance in the Intramolecular Addition of Pyridyl Radicals onto Pyridines and Quinolines. European Journal of Organic Chemistry, 2016, 2016, 1891-1896.	1.2	5
45	Synthesis and evaluation of hybrid molecules targeting the vinca domain of tubulin. Organic and Biomolecular Chemistry, 2015, 13, 3144-3154.	1.5	4
46	Pro-death activity of a BH3 domain in an aquaporin from the protozoan parasite Leishmania. Cell Death and Disease, 2016, 7, e2318-e2318.	2.7	4
47	A novel C,D-spirodioxene taxoid synthesized through an unexpected Pd-mediated ring cyclization. Organic and Biomolecular Chemistry, 2016, 14, 345-352.	1.5	4
48	Structural Bioinformatics in Broad-Spectrum Racemases: A New Path in Antimicrobial Research. Current Organic Chemistry, 2016, 20, 1222-1231.	0.9	4
49	Unravelling the Turnâ€On Fluorescence Mechanism of a Fluoresceinâ€Based Probe in GABA _A Receptors. Angewandte Chemie, 0, , .	1.6	4
50	Deciphering the Chemical Basis of Fluorescence of a Seleniumâ€Labeled Uracil Probe when Bound at the Bacterial Ribosomal Aâ€Site. Chemistry - A European Journal, 2021, 27, 4927-4931.	1.7	3
51	Conservation of antiviral activity and improved selectivity in PMEO-DAPym upon pyrimidine to triazine scaffold hopping. Antiviral Research, 2015, 122, 64-68.	1.9	2
52	Functional Characterization and Structural Analysis of NADH Oxidase Mutants from Thermus thermophilus HB27: Role of Residues 166, 174, and 194 in the Catalytic Properties and Thermostability. Microorganisms, 2019, 7, 515.	1.6	2
53	Cold-induced aldimine bond cleavage by Tris inBacillus subtilisalanine racemase. Organic and Biomolecular Chemistry, 2019, 17, 4350-4358.	1.5	2
54	Identification of NEK3 and MOK as novel targets for lithium. Chemical Biology and Drug Design, 2019, 93, 965-969.	1.5	0

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55	A Supramolecular Stabilizer of the 14â€3â€3Î¶/ERÎ± Proteinâ€Protein Interaction with a Synergistic Mode of Action. Angewandte Chemie, 2020, 132, 5322-5325.	1.6	0
56	Back Cover: Unravelling the Turnâ€On Fluorescence Mechanism of a Fluoresceinâ€Based Probe in GABA_A Receptors (Angew. Chem. Int. Ed. 30/2022). Angewandte Chemie - International Edition, 2022, 61, .	7.2	0