Jesus M Sanz

List of Publications by Year
in descending order

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65 papers	1,896 citations	236925 25 h-index	276875 41 g-index
66 all docs	66 docs citations	66 times ranked	2031 citing authors

#	Article	IF	Citations
1	Cloning and expression of gene fragments encoding the choline-binding domain of pneumococcal murein hydrolases. Gene, 1990, 89, 69-75.	2.2	115
2	Thermal unfolding and refolding of lysozyme in deep eutectic solvents and their aqueous dilutions. Physical Chemistry Chemical Physics, 2013, 15, 11248.	2.8	108
3	Nucleoidâ€associated PhaF phasin drives intracellular location and segregation of polyhydroxyalkanoate granules in Pseudomonas putida KT2442. Molecular Microbiology, 2011, 79, 402-418.	2.5	102
4	Structural requirements of choline derivatives for â€˜conversionâ€™ of pneumococcal amidase A new single-step procedure for purification of this autolysin. FEBS Letters, 1988, 232, 308-312.	2.8	87
5	Immobilization and single-step purification of fusion proteins using DEAE-cellulose. FEBS Journal, 1992, 203, 153-159.	0.2	86
6	Biochemical Evidence That phaZ Gene Encodes a Specific Intracellular Medium Chain Length Polyhydroxyalkanoate Depolymerase in Pseudomonas putida KT2442. Journal of Biological Chemistry, 2007, 282, 4951-4962.	3.4	77
7	Recognition of peptidoglycan and Î²-lactam antibiotics by the extracellular domain of the Ser/Thr protein kinase StkP fromStreptococcus pneumoniae. FEBS Letters, 2011, 585, 357-363.	2.8	72
8	Choline Binding Proteins from Streptococcus pneumoniae: A Dual Role as Enzybiotics and Targets for the Design of New Antimicrobials. Antibiotics, 2016, 5, 21.	3.7	66
9	Molecular determinants of the hpa regulatory system of Escherichia coli: the HpaR repressor. Nucleic Acids Research, 2003, 31, 6598-6609.	14.5	62
10	Studies on the structure and function of the N-terminal domain of the pneumococcal murein hydrolases. Molecular Microbiology, 1992, 6, 921-931.	2.5	61
11	The PhaD regulator controls the simultaneous expression of the pha genes involved in polyhydroxyalkanoate metabolism and turnover in Pseudomonas putida KT2442. Environmental Microbiology, 2010, 12, 1591-1603.	3.8	59
12	Characterization of Snail nuclear import pathways as representatives of C2H2 zinc finger transcription factors. Journal of Cell Science, 2009, 122, 1452-1460.	2.0	54
13	Rationally designing the accumulation of a folding intermediate of barnase by protein engineering. Biochemistry, 1993, 32, 13584-13592.	2.5	51
14	A New Family of Intrinsically Disordered Proteins: Structural Characterization of the Major Phasin PhaF from Pseudomonas putida KT2440. PLoS ONE, 2013, 8, e56904.	2.5	51
15	The Exchangeable Yeast Ribosomal Acidic Protein YP2Î² Shows Characteristics of a Partly Folded State under Physiological Conditions. Biochemistry, 1997, 36, 9625-9635.	2.5	46
16	Polyhydroxyalkanoateâ€associated phasins as phylogenetically heterogeneous, multipurpose proteins. Microbial Biotechnology, 2017, 10, 1323-1337.	4.2	46
17	1H NMR Structural Characterization of a Nonmitogenic, Vasodilatory, Ischemia-Protector and Neuromodulatory Acidic Fibroblast Growth Factor. Biochemistry, 2000, 39, 4982-4993.	2.5	41
18	Modulation of pPS10 Host Range by Plasmid-Encoded RepA Initiator Protein. Journal of Bacteriology, 2003, 185, 1367-1375.	2.2	37

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19	The A-State of Barnase. Biochemistry, 1994, 33, 11189-11199.	2.5	32
20	Structural studies of the lysozyme coded by the pneumococcal phage Cp-1. Conformational changes induced by choline. FEBS Journal, 1990, 187, 409-416.	0.2	31
21	Structural and functional study of a conserved region in the uncoupling protein UCP1: the three matrix loops are involved in the control of transport 1 1Edited by R. Huber. Journal of Molecular Biology, 1999, 292, 137-149.	4.2	31
22	Inhibition of pneumococcal cholineâ€binding proteins and cell growth by esters of bicyclic amines. FEBS Journal, 2007, 274, 364-376.	4.7	31
23	Affinity partitioning of proteins tagged with choline-binding modules in aqueous two-phase systems. Journal of Chromatography A, 2008, 1208, 189-196.	3.7	31
24	An enzymatic system for decolorization of wastewater dyes using immobilized CueO laccaseâ€like multicopper oxidase on polyâ€3â€hydroxybutyrate. Microbial Biotechnology, 2018, 11, 881-892.	4.2	30
25	A partly Folded State of Acidic Fibroblast Growth Factor at Low Ph. FEBS Journal, 1997, 246, 328-335.	0.2	26
26	Multivalent Choline Dendrimers as Potent Inhibitors of Pneumococcal Cellâ€Wall Hydrolysis. Angewandte Chemie - International Edition, 2009, 48, 948-951.	13.8	25
27	Modulation of pPS10 host range by DnaA. Molecular Microbiology, 2002, 46, 223-234.	2.5	23
28	Structural Differences betweenSaccharomyces cerevisiaeRibosomal Stalk Proteins P1 and P2 Support Their Functional Diversityâ€. Biochemistry, 2000, 39, 8935-8943.	2.5	22
29	Role of Asp-9 and Glu-36 in the active site of the pneumococcal CPL1 lysozyme; an evolutionary perspective of lysozyme mechanism. Biochemistry, 1992, 31, 8495-8499.	2.5	20
30	Three-Dimensional Solution Structure and Stability of Phage 434 Cro Proteinâ€,â€¡. Biochemistry, 1997, 36, 6424-6436.	2.5	20
31	Specific and Reversible Immobilization of Proteins Tagged to the Affinity Polypeptide C-LytA on Functionalized Graphite Electrodes. PLoS ONE, 2014, 9, e87995.	2.5	19
32	CLytA-DAAO, Free and Immobilized in Magnetic Nanoparticles, Induces Cell Death in Human Cancer Cells. Biomolecules, 2020, 10, 222.	4.0	19
33	From Residues to Added-Value Bacterial Biopolymers as Nanomaterials for Biomedical Applications. Nanomaterials, 2021, 11, 1492.	4.1	19
34	Accumulation of partly folded states in the equilibrium unfolding of the pneumococcal choline-binding module C-LytA. Biochemical Journal, 2005, 387, 479-488.	3.7	17
35	Novel Approaches To Fight Streptococcus pneumoniae. Recent Patents on Anti-infective Drug Discovery, 2007, 2, 188-196.	0.8	17
36	Comparative Analysis of the Physiological and Structural Properties of a Medium Chain Length Polyhydroxyalkanoate Depolymerase from Pseudomonas putida KT2442. Engineering in Life Sciences, 2008, 8, 260-267.	3.6	17

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37	Multivalent Choline Dendrimers Increase Phagocytosis ofStreptococcus pneumoniaeR6 by Microglial Cells. Chemotherapy, 2013, 59, 138-142.	1.6	17
38	Micelleâ€Triggered Î²â€Hairpin to Î±â€Helix Transition in a 14â€Residue Peptide from a Cholineâ€Binding Repeat of the Pneumococcal Autolysin LytA. Chemistry - A European Journal, 2015, 21, 8076-8089.	3.3	16
39	Folding of Dimeric Methionine Adenosyltransferase III. Journal of Biological Chemistry, 2002, 277, 12061-12066.	3.4	15
40	Polyâ€3â€hydroxyalkanoate synthases from Pseudomonas putida U: substrate specificity and ultrastructural studies. Microbial Biotechnology, 2008, 1, 170-176.	4.2	15
41	Role of leucine zipper-like motifs in the oligomerization of Pseudomonas putida phasins. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 362-370.	2.4	15
42	Searching for Antipneumococcal Targets: Choline-Binding Modules as Phagocytosis Enhancers. ACS Infectious Diseases, 2020, 6, 954-974.	3.8	12
43	Hints of Nonhierarchical Folding of Acidic Fibroblast Growth Factorâ€. Biochemistry, 2002, 41, 1923-1933.	2.5	10
44	Extensive unfolding of the C-LytA choline-binding module by submicellar concentrations of sodium dodecyl sulphate. FEBS Letters, 2007, 581, 375-381.	2.8	10
45	Choline dendrimers as generic scaffolds for the non-covalent synthesis of multivalent protein assemblies. Chemical Communications, 2011, 47, 5997.	4.1	10
46	Structural autonomy of a Î²-hairpin peptide derived from the pneumococcal choline-binding protein LytA. Protein Engineering, Design and Selection, 2011, 24, 113-122.	2.1	10
47	Crystal structures of CbpF complexed with atropine and ipratropium reveal clues for the design of novel antimicrobials against Streptococcus pneumoniae. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 129-135.	2.4	10
48	Poly-3-Hydroxybutyrate Functionalization with BioF-Tagged Recombinant Proteins. Applied and Environmental Microbiology, 2018, 84, .	3.1	10
49	CLytA-DAAO Chimeric Enzyme Bound to Magnetic Nanoparticles. A New Therapeutical Approach for Cancer Patients?. International Journal of Molecular Sciences, 2021, 22, 1477.	4.1	10
50	Construction of a Multifunctional Pneumococcal Murein Hydrolase by Module Assembly. FEBS Journal, 1996, 235, 601-605.	0.2	9
51	DEAE-chitosan nanoparticles as a pneumococcus-biomimetic material for the development of antipneumococcal therapeutics. Carbohydrate Polymers, 2021, 273, 118605.	10.2	9
52	Measurement of barnase refolding rate constants under denaturing conditions. FEBS Letters, 1994, 344, 216-220.	2.8	8
53	Cell Death Mechanisms Induced by CLytA-DAAO Chimeric Enzyme in Human Tumor Cell Lines. International Journal of Molecular Sciences, 2020, 21, 8522.	4.1	8
54	Aromatic Esters of Bicyclic Amines as Antimicrobials against Streptococcus pneumoniae. Angewandte Chemie - International Edition, 2015, 54, 13673-13677.	13.8	7

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55	Roles of Amphipathicity and Hydrophobicity in the Micelleâ€Driven Structural Switch of a 14â€mer Peptide Core from a Cholineâ€Binding Repeat. Chemistry - A European Journal, 2018, 24, 5825-5839.	3.3	7
56	Turncoat Polypeptides: We Adapt to Our Environment. ChemBioChem, 2020, 21, 432-441.	2.6	7
57	Dissecting the Polyhydroxyalkanoate-Binding Domain of the PhaF Phasin: Rational Design of a Minimized Affinity Tag. Applied and Environmental Microbiology, 2020, 86, .	3.1	7
58	Rational stabilization of the C-LytA affinity tag by protein engineering. Protein Engineering, Design and Selection, 2008, 21, 709-720.	2.1	5
59	Crystallization and preliminary X-ray diffraction studies of the transcriptional repressor PaaX, the main regulator of the phenylacetic acid degradation pathway inEscherichia coliW. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1278-1280.	0.7	5
60	Widening the antimicrobial spectrum of esters of bicyclic amines: In vitro effect on gram-positive Streptococcus pneumoniae and gram-negative non-typeable Haemophilus influenzae biofilms. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 96-104.	2.4	5
61	The loss of function of <scp>PhaC</scp>1 is a survival mechanism that counteracts the stress caused by the overproduction of polyâ€3â€hydroxyalkanoates in <scp>P</scp>seudomonas putidaÎ” <scp>fadBA</scp>. Environmental Microbiology, 2015, 17, 3182-3194.	3.8	4
62	Microbes go nano. Microbial Biotechnology, 2017, 10, 17-18.	4.2	2
63	Inter-hairpin linker sequences determine the structure of the Î²Î²-solenoid fold: a â€œbottom-upâ€•study of pneumococcal LytA choline-binding module. International Journal of Biological Macromolecules, 2021, 190, 679-692.	7.5	1
64	Choline-Functionalized Supramolecular Copolymers: Toward Antimicrobial Activity against Streptococcus pneumoniae. Biomacromolecules, 2021, , .	5.4	1
65	Searching for the Evolutionary Design of the Pneumococcal Cell Wall Lytic Enzymes. , 1993, , 253-259.		0