Luis Gales

List of Publications by Year
in descending order

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104 papers	2,889 citations	126858 33 h-index	214721 47 g-index
107 all docs	107 docs citations	107 times ranked	3844 citing authors

#	Article	IF	Citations
1	Metalâ€“organic frameworks: a future toolbox for biomedicine?. Chemical Society Reviews, 2020, 49, 9121-9153.	18.7	130
2	Effects of heavy metals on Cyanothece sp. CCY 0110 growth, extracellular polymeric substances (EPS) production, ultrastructure and protein profiles. Journal of Proteomics, 2015, 120, 75-94.	1.2	95
3	Production and characterization of extracellular carbohydrate polymer from Cyanothece sp. CCY 0110. Carbohydrate Polymers, 2013, 92, 1408-1415.	5.1	89
4	Phylum-wide analysis of genes/proteins related to the last steps of assembly and export of extracellular polymeric substances (EPS) in cyanobacteria. Scientific Reports, 2015, 5, 14835.	1.6	85
5	Released polysaccharides (RPS) from Cyanothece sp. CCY 0110 as biosorbent for heavy metals bioremediation: interactions between metals and RPS binding sites. Applied Microbiology and Biotechnology, 2016, 100, 7765-7775.	1.7	72
6	New Isocoumarin Derivatives and Meroterpenoids from the Marine Sponge-Associated Fungus Aspergillus similanensis sp. nov. KUFA 0013. Marine Drugs, 2014, 12, 5160-5173.	2.2	70
7	Towards a Structural Understanding of the Fibrillization Pathway in Machado-Joseph's Disease: Trapping Early Oligomers of Non-expanded Ataxin-3. Journal of Molecular Biology, 2005, 353, 642-654.	2.0	68
8	Sartorymensin, a new indole alkaloid, and new analogues of tryptoquivaline and fiscalins produced by Neosartorya siamensis (KUFC 6349). Tetrahedron, 2012, 68, 3253-3262.	1.0	67
9	Antibacterial and antibiofilm activities of the metabolites isolated from the culture of the mangrove-derived endophytic fungus Eurotium chevalieri KUFA 0006. Phytochemistry, 2017, 141, 86-97.	1.4	67
10	Prenylated derivatives of baicalein and 3,7-dihydroxyflavone: Synthesis and study of their effects on tumor cell lines growth, cell cycle and apoptosis. European Journal of Medicinal Chemistry, 2011, 46, 2562-2574.	2.6	62
11	Dipeptide Crystals as Excellent Permselective Materials: Sequential Exclusion of Argon, Nitrogen, and Oxygen. Angewandte Chemie - International Edition, 2010, 49, 3034-3036.	7.2	61
12	Xanthones-A Structural Perspective. Current Medicinal Chemistry, 2005, 12, 2499-2515.	1.2	57
13	Removal of acetone, ethyl acetate and ethanol vapors from air using a hollow fiber PDMS membrane module. Journal of Membrane Science, 2002, 197, 211-222.	4.1	56
14	Eurocristatine, a new diketopiperazine dimer from the marine sponge-associated fungus Eurotium cristatum. Phytochemistry Letters, 2012, 5, 717-720.	0.6	55
15	Small Transthyretin (TTR) Ligands as Possible Therapeutic Agents in TTR Amyloidoses. CNS and Neurological Disorders, 2005, 4, 587-596.	4.3	54
16	Human transthyretin in complex with iododiflunisal: structural features associated with a potent amyloid inhibitor. Biochemical Journal, 2005, 388, 615-621.	1.7	53
17	Hysteresis in the cyclic adsorption of acetone, ethanol and ethyl acetate on activated carbon. Carbon, 2000, 38, 1083-1088.	5.4	52
18	Dihydroxyxanthones prenylated derivatives: Synthesis, structure elucidation, and growth inhibitory activity on human tumor cell lines with improvement of selectivity for MCF-7. Bioorganic and Medicinal Chemistry, 2007, 15, 6080-6088.	1.4	51

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19	Iodine Atoms: A New Molecular Feature for the Design of Potent Transthyretin Fibrillogenesis Inhibitors. PLoS ONE, 2009, 4, e4124.	1.1	51
20	Peptide-based solids: porosity and zeolitic behavior. Journal of Materials Chemistry, 2012, 22, 1709-1723.	6.7	50
21	Merodrimanes and Other Constituents from Talaromyces thailandiasis. Journal of Natural Products, 2007, 70, 1200-1202.	1.5	48
22	Bis-Indolyl Benzenoids, Hydroxypyrrolidine Derivatives and Other Constituents from Cultures of the Marine Sponge-Associated Fungus Aspergillus candidus KUFA0062. Marine Drugs, 2018, 16, 119.	2.2	48
23	Keratins and lipids in ethnic hair. International Journal of Cosmetic Science, 2013, 35, 244-249.	1.2	47
24	Application of a cyanobacterial extracellular polymeric substance in the microencapsulation of vitamin B12. Powder Technology, 2019, 343, 644-651.	2.1	42
25	Molecular Tweezers Targeting Transthyretin Amyloidosis. Neurotherapeutics, 2014, 11, 450-461.	2.1	41
26	A New Ergosterol Analog, a New Bis-Anthraquinone and Anti-Obesity Activity of Anthraquinones from the Marine Sponge-Associated Fungus Talaromyces stipitatus KUFA 0207. Marine Drugs, 2017, 15, 139.	2.2	41
27	Potential use of ultrasound to promote protein crystallization. Journal of Applied Crystallography, 2010, 43, 1419-1425.	1.9	39
28	Alkali free hydrolysis of sodium borohydride for hydrogen generation under pressure. International Journal of Hydrogen Energy, 2010, 35, 9869-9878.	3.8	37
29	Tegsedi (Inotersen): An Antisense Oligonucleotide Approved for the Treatment of Adult Patients with Hereditary Transthyretin Amyloidosis. Pharmaceuticals, 2019, 12, 78.	1.7	36
30	Cyanoflan: A cyanobacterial sulfated carbohydrate polymer with emulsifying properties. Carbohydrate Polymers, 2020, 229, 115525.	5.1	36
31	A New Meroditerpene and a New Tryptoquivaline Analog from the Algicolous Fungus Neosartorya takakii KUFC 7898. Marine Drugs, 2015, 13, 3776-3790.	2.2	35
32	The Crystal and Solution Structures of Glyceraldehyde-3-phosphate Dehydrogenase Reveal Different Quaternary Structures. Journal of Biological Chemistry, 2006, 281, 33433-33440.	1.6	34
33	Bromoalkoxyxanthones as promising antitumor agents: Synthesis, crystal structure and effect on human tumor cell lines. European Journal of Medicinal Chemistry, 2009, 44, 3830-3835.	2.6	34
34	Pyranoxanthones: Synthesis, growth inhibitory activity on human tumor cell lines and determination of their lipophilicity in two membrane models. European Journal of Medicinal Chemistry, 2013, 69, 798-816.	2.6	34
35	New Cyclotetrapeptides and a New Diketopiperzine Derivative from the Marine Sponge-Associated Fungus Neosartorya glabra KUFA 0702. Marine Drugs, 2016, 14, 136.	2.2	34
36	A New Dihydrochromone Dimer and Other Secondary Metabolites from Cultures of the Marine Sponge-Associated Fungi Neosartorya fennelliae KUFA 0811 and Neosartorya tsunodae KUFC 9213. Marine Drugs, 2017, 15, 375.	2.2	33

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37	Recovery of acetone, ethyl acetate and ethanol by thermal pressure swing adsorption. Chemical Engineering Science, 2003, 58, 5279-5289.	1.9	31
38	The binding of xanthone derivatives to transthyretin. Biochemical Pharmacology, 2005, 70, 1861-1869.	2.0	30
39	Nitric Oxide Release from Antimicrobial Peptide Hydrogels for Wound Healing. Biomolecules, 2019, 9, 4.	1.8	29
40	The alternative sigma factor SigF is a key player in the control of secretion mechanisms in Synechocystis sp. PCC 6803. Environmental Microbiology, 2019, 21, 343-359.	1.8	29
41	Assembly and Export of Extracellular Polymeric Substances (EPS) in Cyanobacteria. Advances in Botanical Research, 2013, 65, 235-279.	0.5	28
42	<scp>HesF</scp>, an exoprotein required for filament adhesion and aggregation in <scp>A</scp>nabaena sp. <scp>PCC</scp> 7120. Environmental Microbiology, 2015, 17, 1631-1648.	1.8	28
43	Clinical and Genetic Analysis of Children with Kartagener Syndrome. Cells, 2019, 8, 900.	1.8	26
44	The role of the tyrosine kinase Wzc (Sll0923) and the phosphatase Wzb (Slr0328) in the production of extracellular polymeric substances (EPS) by Synechocystis PCC 6803. MicrobiologyOpen, 2019, 8, e00753.	1.2	26
45	Tetillapyrone and Nortetillapyrone, Two Unusual Hydroxypyran-2-ones from the Marine SpongeTetillajaponica. Journal of Natural Products, 2001, 64, 1056-1058.	1.5	25
46	Lanostanes and friedolanostanes from the bark of Garcinia speciosa. Phytochemistry, 2004, 65, 393-398.	1.4	25
47	Structural basis for the protective role of sulfite against transthyretin amyloid formation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 59-64.	1.1	24
48	New Polyketides and New Benzoic Acid Derivatives from the Marine Sponge-Associated Fungus Neosartorya quadricincta KUFA 0081. Marine Drugs, 2016, 14, 134.	2.2	23
49	Experimental and Computational Studies on the Structural and Thermodynamic Properties of Two Sulfur Heterocyclic Keto Compounds. Journal of Chemical & Engineering Data, 2010, 55, 5009-5017.	1.0	22
50	Gulosibacter molinativorax ON4 ^T Molinate Hydrolase, a Novel Cobalt-Dependent Amidohydrolase. Journal of Bacteriology, 2011, 193, 5810-5816.	1.0	21
51	Kinetic derivation of common isotherm equations for surface and micropore adsorption. Adsorption, 2016, 22, 963-971.	1.4	21
52	Synthesis of a Small Library of Nature-Inspired Xanthones and Study of Their Antimicrobial Activity. Molecules, 2020, 25, 2405.	1.7	21
53	Secondary Metabolites from the Culture of the Marine Sponge-Associated Fungi Talaromyces tratensis and Sporidesmium circinophorum. Planta Medica, 2016, 82, 888-896.	0.7	20
54	Cyanobacterium-Derived Extracellular Carbohydrate Polymer for the Controlled Delivery of Functional Proteins. Macromolecular Bioscience, 2017, 17, 1600206.	2.1	19

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55	X-ray Absorption Spectroscopy Reveals a Substantial Increase of Sulfur Oxidation in Transthyretin (TTR) upon Fibrillization. Journal of Biological Chemistry, 2003, 278, 11654-11660.	1.6	18
56	Chromone Derivatives and Other Constituents from Cultures of the Marine Sponge-Associated Fungus Penicillium erubescens KUFA0220 and Their Antibacterial Activity. Marine Drugs, 2018, 16, 289.	2.2	18
57	Natural Cyanobacterial Polymer-Based Coating as a Preventive Strategy to Avoid Catheter-Associated Urinary Tract Infections. Marine Drugs, 2020, 18, 279.	2.2	18
58	Sartoryglabrins, analogs of ardeemins, from Neosartorya glabra. Natural Product Communications, 2011, 6, 807-12.	0.2	18
59	Toward the Construction of 3D Dipeptideâ€“Metal Frameworks. Crystal Growth and Design, 2014, 14, 4777-4780.	1.4	17
60	Iodination of salicylic acid improves its binding to transthyretin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 512-517.	1.1	16
61	Effects of the addition of an organic polymer on the hydrolysis of sodium tetrahydroborate in batch reactors. International Journal of Hydrogen Energy, 2010, 35, 11456-11469.	3.8	16
62	Erubescensoic Acid, a New Polyketide and a Xanthonopyrone SPF-3059-26 from the Culture of the Marine Sponge-Associated Fungus Penicillium erubescens KUFA 0220 and Antibacterial Activity Evaluation of Some of Its Constituents. Molecules, 2019, 24, 208.	1.7	16
63	Broad-Spectrum Anti-Adhesive Coating Based on an Extracellular Polymer from a Marine Cyanobacterium. Marine Drugs, 2019, 17, 243.	2.2	16
64	Synthesis of chiral (7R)-[Î·6-5-(N,N-dimethylamino)-7-formyl-1,3-benzodioxole]chromium complex and its application in the synthesis of optically active cis-Î²-lactams. Journal of Organometallic Chemistry, 2001, 632, 27-40.	0.8	15
65	Structural insights into a zinc-dependent pathway leading to Leu55Pro transthyretin amyloid fibrils. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 1035-1044.	2.5	15
66	Repurposing Benzbromarone for Familial Amyloid Polyneuropathy: A New Transthyretin Tetramer Stabilizer. International Journal of Molecular Sciences, 2020, 21, 7166.	1.8	15
67	Targeting transthyretin in Alzheimer's disease: Drug discovery of small-molecule chaperones as disease-modifying drug candidates for Alzheimer's disease. European Journal of Medicinal Chemistry, 2021, 226, 113847.	2.6	15
68	Bioactive Friedolanostanes and 11(10â†'8)-Abeolanostanes from the Bark ofGarciniaspeciosa. Journal of Natural Products, 2004, 67, 2043-2047.	1.5	13
69	Comparative genomics reveals a novel genetic organization of the sad cluster in the sulfonamide-degrader â€˜Candidatus Leucobacter sulfamidivoraxâ€™ strain GP. BMC Genomics, 2019, 20, 885.	1.2	13
70	Naturally occurring 1,2,8-trimethoxyxanthone and biphenyl ether intermediates leading to 1,2-dimethoxyxanthone. Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 1319-1323.	0.4	12
71	Small temperature oscillations promote protein crystallization. CrystEngComm, 2011, 13, 3051.	1.3	12
72	Hydrophobic dipeptide crystals: a promising Ag-free class of ultramicroporous materials showing argon/oxygen adsorption selectivity. Physical Chemistry Chemical Physics, 2014, 16, 19386-19393.	1.3	12

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73	Mesoporous Metalâ€“Organic Frameworks as Effective Nucleating Agents in Protein Crystallography. Crystal Growth and Design, 2019, 19, 1610-1615.	1.4	12
74	Antimicrobial Activity of a Library of Thioxanthones and Their Potential as Efflux Pump Inhibitors. Pharmaceuticals, 2021, 14, 572.	1.7	11
75	Energetic and structural characterization of 2-R-3-methylquinoxaline-1,4-dioxides (Râ€‰=â€‰benzoyl) Tj ETQq1 1 0.784314 rgBT /Ove Chemistry, 2007, 20, 491-498.	0.9	10
76	The coexistence of ankylosing spondylitis and diffuse idiopathic skeletal hyperostosisâ€”a postmortem diagnosis. Clinical Rheumatology, 2009, 28, 353-356.	1.0	10
77	New chiral stationary phases for liquid chromatography based on small molecules: Development, enantioresolution evaluation and chiral recognition mechanisms. Chirality, 2020, 32, 81-97.	1.3	10
78	Biocompatibility of the Biopolymer Cyanoflan for Applications in Skin Wound Healing. Marine Drugs, 2021, 19, 147.	2.2	10
79	Sartoryglabrins, Analogs of Ardeemins, from Neosartorya Glabra. Natural Product Communications, 2011, 6, 1934578X1100600.	0.2	9
80	Production of microparticles of molinate degrading biocatalysts using the spray drying technique. Chemosphere, 2016, 161, 61-68.	4.2	9
81	Production of orotic acid by a Klura3 Î” mutant of Kluyveromyces lactis. Journal of Bioscience and Bioengineering, 2016, 121, 625-630.	1.1	8
82	Fluorescence properties of the amyloid indicator dye thioflavin T in constrained environments. Dyes and Pigments, 2019, 160, 64-70.	2.0	8
83	Surface activation of medical grade polyurethane for the covalent immobilization of an anti-adhesive biopolymeric coating. Journal of Materials Chemistry B, 2021, 9, 3705-3715.	2.9	8
84	Guest diffusion in dipeptide crystals. CrystEngComm, 2013, 15, 1532-1535.	1.3	7
85	1,3-Dioxepine and spiropyran derivatives of viomellein and other dimeric naphthopyranones from cultures of Aspergillus elegans KUFA0015 and their antibacterial activity. Phytochemistry, 2021, 181, 112575.	1.4	7
86	Understanding the complex rheology of human blood plasma. Journal of Rheology, 2022, 66, 761-774.	1.3	7
87	Permeation of Light Gases through Hexagonal Ice. Materials, 2012, 5, 1593-1601.	1.3	6
88	Alzheimer's AÎ²_{1â€40} peptide degradation by thermolysin: evidence of inhibition by a Câ€terminal AÎ² product. FEBS Letters, 2019, 593, 128-137.	1.3	6
89	Dissection of the key steps of amyloid-Î² peptide 1â€“40 fibrillogenesis. International Journal of Biological Macromolecules, 2020, 164, 2240-2246.	3.6	6
90	Cyanobacterial Extracellular Polymeric Substances (EPS). , 2022, , 139-165.		6

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91	Peptide Self-Assembly for Therapeutic Applications. Current Organic Chemistry, 2015, 19, 1874-1881.	0.9	5
92	Semi-Synthesis of Small Molecules of Aminocarbazoles: Tumor Growth Inhibition and Potential Impact on p53. Molecules, 2021, 26, 1637.	1.7	4
93	AÎ²_{31â€“35} Decreases Neprilysin-Mediated Alzheimerâ€™s Amyloid-Î² Peptide Degradation. ACS Chemical Neuroscience, 2021, 12, 3708-3718.	1.7	4
94	Decreasing the toxicity of paraquat through the complexation with sodium salicylate: Stoichiometric analysis. Toxicology, 2015, 336, 96-98.	2.0	3
95	Design and preparation of biomimetic and bioinspired materials. , 2017, , 1-44.		3
96	Transport Properties of Light Gases in Nanochannels of Lâ€“Leuâ€“Lâ€“Ser Dipeptide Crystals: A Comparative Study by Molecular Dynamics Simulations. ChemistrySelect, 2018, 3, 5517-5525.	0.7	3
97	Determination of the Absolute Configuration of Bioactive Indole-Containing Pyrazino[2,1-b]quinazoline-3,6-diones and Study of Their In Vitro Metabolic Profile. Molecules, 2021, 26, 5070.	1.7	3
98	Structure-Guided Engineering of Molinate Hydrolase for the Degradation of Thiocarbamate Pesticides. PLoS ONE, 2015, 10, e0123430.	1.1	3
99	3,4-Dihydroxy-9H-xanthen-9-one trihydrate. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o2213-o2215.	0.2	2
100	Thyroid hormones, iodine and iodides, and antithyroid drugs. Side Effects of Drugs Annual, 2014, , 747-761.	0.6	2
101	A surface thermodynamics approach to modelling single-file adsorption in ultramicroporous materials. Microporous and Mesoporous Materials, 2016, 225, 543-551.	2.2	2
102	Tetracyclic Thioxanthene Derivatives: Studies on Fluorescence and Antitumor Activity. Molecules, 2021, 26, 3315.	1.7	2
103	Cyanobacterial Extracellular Polymeric Substances (EPS). , 2021, , 1-28.		2
104	1-Hydroxy-3-(3-methylbut-2-enyloxy)xanthone. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2718-o2719.	0.2	0