Luisa Carlota Lopez-Cara

List of Publications by Year
in descending order

84 papers	2,010 citations	236612 25 h-index	276539 41 g-index
87 all docs	87 docs citations	87 times ranked	2695 citing authors

#	Article	IF	Citations
1	Synthesis and Antitumor Activity of 1,5-Disubstituted 1,2,4-Triazoles as Cis-Restricted Combretastatin Analogues. Journal of Medicinal Chemistry, 2010, 53, 4248-4258.	2.9	149
2	Synthesis and Biological Evaluation of 2- and 3-Aminobenzo[b]thiophene Derivatives as Antimitotic Agents and Inhibitors of Tubulin Polymerization. Journal of Medicinal Chemistry, 2007, 50, 2273-2277.	2.9	131
3	Design, synthesis, and biological evaluation of thiophene analogues of chalcones. Bioorganic and Medicinal Chemistry, 2008, 16, 5367-5376.	1.4	93
4	Synthesis and Biological Evaluation of 1-Methyl-2-(3â€²,4â€²,5â€²-trimethoxybenzoyl)-3-aminoindoles as a New Class of Antimitotic Agents and Tubulin Inhibitors. Journal of Medicinal Chemistry, 2008, 51, 1464-1468.	2.9	90
5	The P2X₇receptor as a therapeutic target. Expert Opinion on Therapeutic Targets, 2008, 12, 647-661.	1.5	82
6	Design, synthesis and structureâ€“activity relationship of 2-(3â€²,4â€²,5â€²-trimethoxybenzoyl)-benzo[b]furan derivatives as a novel class of inhibitors of tubulin polymerization. Bioorganic and Medicinal Chemistry, 2009, 17, 6862-6871.	1.4	68
7	Synthesis and Biological Evaluation of 2-(3â€˜,4â€˜,5â€˜-Trimethoxybenzoyl)-3-Amino 5-Aryl Thiophenes as a New Class of Tubulin Inhibitors. Journal of Medicinal Chemistry, 2006, 49, 6425-6428.	2.9	53
8	2-Arylamino-4-Amino-5-Aroylthiazoles. â€œOne-Potâ€•Synthesis and Biological Evaluation of a New Class of Inhibitors of Tubulin Polymerization. Journal of Medicinal Chemistry, 2009, 52, 5551-5555.	2.9	53
9	Hybrid Î±-bromoacryloylamido chalcones. Design, synthesis and biological evaluation. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 2022-2028.	1.0	50
10	Kynurenamines as Neural Nitric Oxide Synthase Inhibitors. Journal of Medicinal Chemistry, 2005, 48, 8174-8181.	2.9	47
11	Design, Synthesis, in Vitro, and in Vivo Anticancer and Antiangiogenic Activity of Novel 3-Arylaminobenzofuran Derivatives Targeting the Colchicine Site on Tubulin. Journal of Medicinal Chemistry, 2015, 58, 3209-3222.	2.9	47
12	Synthesis and Biological Evaluation of 2-Amino-3-(4-Chlorobenzoyl)-4-[N-(Substituted) Piperazin-1-yl]Thiophenes as Potent Allosteric Enhancers of the A_₁ Adenosine Receptor. Journal of Medicinal Chemistry, 2008, 51, 5875-5879.	2.9	46
13	Pyrazoles and pyrazolines as neural and inducible nitric oxide synthase (nNOS and iNOS) potential inhibitors (III). European Journal of Medicinal Chemistry, 2008, 43, 2579-2591.	2.6	44
14	Concise Synthesis and Biological Evaluation of 2-Aroyl-5-Amino Benzo[b]thiophene Derivatives As a Novel Class of Potent Antimitotic Agents. Journal of Medicinal Chemistry, 2013, 56, 9296-9309.	2.9	44
15	Synthesis and biological evaluation of 2-(3â€²,4â€²,5â€²-trimethoxybenzoyl)-3-aryl/arylaminobenzo[b]thiophene derivatives as a novel class of antiproliferative agents. European Journal of Medicinal Chemistry, 2010, 45, 5781-5791.	2.6	42
16	Synthesis and biological evaluation of 2-(3â€²,4â€²,5â€²-trimethoxybenzoyl)-3-N,N-dimethylamino benzo[b]furan derivatives as inhibitors of tubulin polymerization. Bioorganic and Medicinal Chemistry, 2008, 16, 8419-8426.	1.4	40
17	Design, synthesis and biological evaluation of 3,5-disubstituted 2-amino thiophene derivatives as a novel class of antitumor agents. Bioorganic and Medicinal Chemistry, 2014, 22, 5097-5109.	1.4	40
18	New (RS)-benzoxazepin-purines with antitumour activity: The chiral switch from (RS)-2,6-dichloro-9-[1-(p-nitrobenzenesulfonyl)-1,2,3,5-tetrahydro-4,1-benzoxazepin-3-yl]-9H-purine. European Journal of Medicinal Chemistry, 2011, 46, 249-258.	2.6	39

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19	Targeting Aryl hydrocarbon receptor for next-generation immunotherapies: Selective modulators (SAhRMs) versus rapidly metabolized ligands (RMAhRLs). European Journal of Medicinal Chemistry, 2020, 185, 111842.	2.6	35
20	Design, Synthesis, and Biological Evaluation of 6-Substituted Thieno[3,2-d]pyrimidine Analogues as Dual Epidermal Growth Factor Receptor Kinase and Microtubule Inhibitors. Journal of Medicinal Chemistry, 2019, 62, 1274-1290.	2.9	33
21	One-pot synthesis and biological evaluation of 2-pyrrolidinyl-4-amino-5-(3â€²,4â€²,5â€²-trimethoxybenzoyl)thiazole: A unique, highly active antimicrotubule agent. European Journal of Medicinal Chemistry, 2011, 46, 6015-6024.	2.6	32
22	In silico pharmacology for a multidisciplinary drug discovery process. Drug Metabolism and Drug Interactions, 2012, 27, 199-207.	0.3	30
23	3-hydroxy-L-kynurenamine is an immunomodulatory biogenic amine. Nature Communications, 2021, 12, 4447.	5.8	30
24	Design and Synthesis of Potent in Vitro and in Vivo Anticancer Agents Based on 1-(3â€²,4â€²,5â€²-Trimethoxyphenyl)-2-Aryl-1H-Imidazole. Scientific Reports, 2016, 6, 26602.	1.6	29
25	Synthesis and Biological Evaluation of 2-Amino-3-(4-chlorobenzoyl)-4-[(4-arylpiperazin-1-yl)methyl]-5-substituted-thiophenes. Effect of the 5-Modification on Allosteric Enhancer Activity at the A1 Adenosine Receptor. Journal of Medicinal Chemistry, 2012, 55, 7719-7735.	2.9	27
26	Validity of tests performed to diagnose acute abdominal pain in patients admitted at an emergency department. Revista Espanola De Enfermedades Digestivas, 2009, 101, 610-8.	0.1	27
27	Synthesis and Biological Evaluation of Novel Allosteric Enhancers of the A₁ Adenosine Receptor Based on 2-Amino-3-(4â€²-Chlorobenzoyl)-4-Substituted-5-Arylethynyl Thiophene. Journal of Medicinal Chemistry, 2014, 57, 7673-7686.	2.9	26
28	Phenylpyrrole derivatives as neural and inducible nitric oxide synthase (nNOS and iNOS) inhibitors. European Journal of Medicinal Chemistry, 2009, 44, 2655-2666.	2.6	25
29	Synthesis and Biological Evaluation of Novel 1-Deoxy-1-[6-[((hetero)arylcarbonyl)hydrazino]-9H-purin-9-yl]-N-ethyl-Î²-d-ribofuranuronamide Derivatives as Useful Templates for the Development of A2BAdenosine Receptor Agonists. Journal of Medicinal Chemistry, 2007, 50, 374-380.	2.9	24
30	Synthesis and biological evaluation of 2-amino-3-(3â€²,4â€²,5â€²-trimethoxybenzoyl)-6-substituted-4,5,6,7-tetrahydrothieno[2,3-c]pyridine derivatives as antimitotic agents and inhibitors of tubulin polymerization. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5041-5045.	1.0	23
31	Design, synthesis and biological evaluation of 3-substituted-2-oxindole hybrid derivatives as novel anticancer agents. European Journal of Medicinal Chemistry, 2017, 134, 258-270.	2.6	23
32	Choline Kinase Alpha Inhibition by EB-3D Triggers Cellular Senescence, Reduces Tumor Growth and Metastatic Dissemination in Breast Cancer. Cancers, 2018, 10, 391.	1.7	23
33	Biomimetic Magnetic Nanocarriers Drive Choline Kinase Alpha Inhibitor inside Cancer Cells for Combined Chemo-Hyperthermia Therapy. Pharmaceutics, 2019, 11, 408.	2.0	23
34	Microwave-assisted synthesis of thieno[2,3-c]pyridine derivatives as a new series of allosteric enhancers at the adenosine A1 receptor. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5530-5533.	1.0	21
35	Design, synthesis, crystallization and biological evaluation of new symmetrical biscationic compounds as selective inhibitors of human Choline Kinase Î±1 (ChoKÎ±1). Scientific Reports, 2016, 6, 23793.	1.6	21
36	Melatonin Synthetic Analogs as Nitric Oxide Synthase Inhibitors. Mini-Reviews in Medicinal Chemistry, 2012, 12, 600-617.	1.1	19

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37	EB-3D a novel choline kinase inhibitor induces deregulation of the AMPK-mTOR pathway and apoptosis in leukemia T-cells. Biochemical Pharmacology, 2018, 155, 213-223.	2.0	19
38	Choline kinase inhibitors EB-3D and EB-3P interferes with lipid homeostasis in HepG2 cells. Scientific Reports, 2019, 9, 5109.	1.6	19
39	Synthesis and Biological Evaluation of 2-aroyl-4-phenyl-5- hydroxybenzofurans as a New Class of Antitubulin Agents. Medicinal Chemistry, 2008, 4, 558-564.	0.7	17
40	Synthesis and biological effects of novel 2-amino-3-(4-chlorobenzoyl)-4-substituted thiophenes as allosteric enhancers ofÂthe A1 adenosine receptor. European Journal of Medicinal Chemistry, 2013, 67, 409-427.	2.6	17
41	Synthesis and Biological Evaluation of 2-Methyl-4,5-Disubstituted Oxazoles as a Novel Class of Highly Potent Antitubulin Agents. Scientific Reports, 2017, 7, 46356.	1.6	17
42	2-Alkoxycarbonyl-3-arylamino-5-substituted thiophenes as a novel class of antimicrotubule agents: Design, synthesis, cell growth and tubulin polymerization inhibition. European Journal of Medicinal Chemistry, 2018, 143, 683-698.	2.6	15
43	Discovery of 8-methoxypyrazino[1,2-a]indole as a New Potent Antiproliferative Agent Against Human Leukemia K562 Cells. A Structure-Activity Relationship Study. Letters in Drug Design and Discovery, 2009, 6, 298-303.	0.4	15
44	1,3,4-Thiadiazole derivatives as selective inhibitors of iNOS versus nNOS: Synthesis and structure-activity dependence. European Journal of Medicinal Chemistry, 2012, 50, 129-139.	2.6	14
45	Structureâ€“activity relationships of 2-amino-3-aroyl-4-[(4-arylpiperazin-1-yl)methyl]thiophenes. Part 2: Probing the influence of diverse substituents at the phenyl of the arylpiperazine moiety on allosteric enhancer activity at the A1 adenosine receptor. Bioorganic and Medicinal Chemistry, 2012, 20, 996-1007.	1.4	14
46	New non-symmetrical choline kinase inhibitors. Bioorganic and Medicinal Chemistry, 2013, 21, 7146-7154.	1.4	14
47	New more polar symmetrical bipyridinic compounds: new strategy for the inhibition of choline kinase Î±1. Future Medicinal Chemistry, 2015, 7, 417-436.	1.1	14
48	A pharmacoeconomic evaluation of statins in the treatment of hypercholesterolaemia in the primary care setting in Spain. Pharmacoeconomics, 2005, 23, 275-287.	1.7	13
49	α-Halogenoacrylic Derivatives of Antitumor Agents. Mini-Reviews in Medicinal Chemistry, 2009, 9, 81-94.	1.1	13
50	Synthesis and evaluation of a thio analogue of duocarmycin SA. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6962-6965.	1.0	13
51	Synthesis and biological evaluation of a new series of 2-amino-3-aroyl thiophene derivatives as agonist allosteric modulators of the A 1 adenosine receptor. A position-dependent effect study. European Journal of Medicinal Chemistry, 2015, 101, 185-204.	2.6	13
52	Synthesis and biological evaluation of novel 2-amino-3-aroyl-4-neopentyl-5-substituted thiophene derivatives as allosteric enhancers of the A1 adenosine receptor. Bioorganic and Medicinal Chemistry, 2014, 22, 148-166.	1.4	12
53	From Tyrosine to Glycine:â€‰ Synthesis and Biological Activity of Potent Antagonists of the Purinergic P2X7 Receptor. Journal of Medicinal Chemistry, 2007, 50, 3706-3715.	2.9	11
54	Choline Kinase Active Site Provides Features for Designing Versatile Inhibitors. Current Topics in Medicinal Chemistry, 2015, 14, 2684-2693.	1.0	11

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55	Synthesis and Antitumor Molecular Mechanism of Agents Based on Amino 2â€(3â€²,4â€²,5â€²â€Trimethoxybenzoyl)benzo[b]furan: Inhibition of Tubulin and Induction of Apoptosis. ChemMedChem, 2011, 6, 1841-1853.	1.6	10
56	Synthesis and biological evaluation of alpha-bromoacryloylamido indolyl pyridinyl propenones as potent apoptotic inducers in human leukaemia cells. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 727-742.	2.5	10
57	Constipation in the population over 50 years of age in Albacete province. Revista Espanola De Enfermedades Digestivas, 2006, 98, 449-59.	0.1	10
58	Pharmacophoreâ€Based Virtual Screening to Discover New Active Compounds for Human Choline Kinase Î±1. Molecular Informatics, 2015, 34, 458-466.	1.4	8
59	Enhancement of Tumor Cell Death by Combining gef Gene Mediated Therapy and New 1,4-Benzoxazepin-2,6-Dichloropurine Derivatives in Breast Cancer Cells. Frontiers in Pharmacology, 2018, 9, 798.	1.6	8
60	Microwave-Assisted Synthesis of Substituted 2,4-Diarylthiazoles and their Evaluation as Anticancer Agents. Letters in Drug Design and Discovery, 2007, 4, 464-466.	0.4	6
61	Novel iodoacetamido benzoheterocyclic derivatives with potent antileukemic activity are inhibitors of STAT5 phosphorylation. European Journal of Medicinal Chemistry, 2016, 108, 39-52.	2.6	6
62	1,2-Diphenoxiethane salts as potent antiplasmodial agents. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2485-2489.	1.0	6
63	Synthesis and Evaluation of Haloacetyl, α-Bromoacryloyl and Nitrooxyacetyl Benzo[b]furan and Benzo[b]thiophene Derivatives as Potent Antiproliferative Agents Against Leukemia L1210 and K562 Cells. Letters in Drug Design and Discovery, 2010, 7, 476-486.	0.4	5
64	Synthesis and Biological Evaluation of Allosteric A1-Adenosine Receptor Modulators Structurally Related to (2-Amino-4,5,6,7-Tetrahydro-Benzo[B]Thiophen-3-YL)-(4-Chloro-Phenyl)-Methanone, a Potent Compound Useful to Reduce Neuropathic Pain. Medicinal Chemistry Research, 2005, 14, 125-142.	1.1	4
65	An unexpected aromatization during the N-alkylation reaction of 3,4-dihydro-1H-pyrazole derivatives: insight into the reaction mechanism. Tetrahedron Letters, 2006, 47, 6239-6242.	0.7	4
66	Lead optimization-hit expansion of new asymmetrical pyridinium/quinolinium compounds as choline kinase Î±1 inhibitors. Future Medicinal Chemistry, 2018, 10, 1769-1786.	1.1	4
67	Synthesis, biological evaluation, in silico modeling and crystallization of novel small monocationic molecules with potent antiproliferative activity by dual mechanism. European Journal of Medicinal Chemistry, 2020, 207, 112797.	2.6	4
68	Crystal Structure of the Apo and the ADP-Bound Form of Choline Kinase from Plasmodium falciparum. Crystals, 2020, 10, 613.	1.0	4
69	Structural elucidation of a new Î”2-pyrazoline derivatives using1H and13C NMR spectroscopy. Magnetic Resonance in Chemistry, 2005, 43, 1063-1065.	1.1	3
70	Synthesis and Biological Evaluation of 2-amino-3-(3, 4, 5-trimethoxyphenylsulfonyl)-5-aryl thiophenes as a New Class of Antitubulin Agents. Medicinal Chemistry, 2007, 3, 507-512.	0.7	3
71	¹H, ¹³C NMR, Xâ€ray and conformational studies of new 1â€alkylâ€3â€benzoylâ€pyrazole and 1â€alkylâ€3â€benzoylâ€pyrazoline derivatives. Magnetic Resonance in Chemistry, 2008, 46, 878-885.	1.1	3
72	Anticancer and Structure Activity Relationship of Non-Symmetrical Choline Kinase Inhibitors. Pharmaceutics, 2021, 13, 1360.	2.0	3

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73	Anticancer Activity of the Choline Kinase Inhibitor PL48 Is Due to Selective Disruption of Choline Metabolism and Transport Systems in Cancer Cell Lines. Pharmaceutics, 2022, 14, 426.	2.0	3
74	NMR and conformational studies of new 5â€phenylpyrroleâ€carboxamide derivatives. Magnetic Resonance in Chemistry, 2009, 47, 1101-1109.	1.1	2
75	Symmetrical Î±-bromoacryloylamido diaryldienone derivatives as a novel series of antiproliferative agents. Design, synthesis and biological evaluation. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 2733-2739.	1.0	2
76	Hybrid molecules based on distamycin A as potential antitumor agents. Arkivoc, 2006, 2006, 20-34.	0.3	2
77	Biological Evaluation of New Thienopyridinium and Thienopyrimidinium Derivatives as Human Choline Kinase Inhibitors. Pharmaceutics, 2022, 14, 715.	2.0	2
78	NMR spectroscopic characterization of new 2,3â€dihydroâ€1,3,4â€thiadiazole derivatives. Magnetic Resonance in Chemistry, 2012, 50, 515-522.	1.1	1
79	Synthesis of oxadiazoline and quinazolinone derivatives and their biological evaluation as nitric oxide synthase inhibitors. Medicinal Chemistry Research, 2016, 25, 1260-1273.	1.1	1
80	Synthesis and Biological Evaluation of a Series of 2-(3,4,5-Trimethoxybenzoyl)-Indol-3-yl Acetic Acid Derivatives as Potential Agents against Human Leukemia K562 Cells. Letters in Drug Design and Discovery, 2008, 5, 214-220.	0.4	1
81	New Compounds with Bioisosteric Replacement of Classic Choline Kinase Inhibitors Show Potent Antiplasmodial Activity. Pharmaceutics, 2021, 13, 1842.	2.0	1
82	¹H, ¹³C NMR studies of new 3â€aminophenol isomers linked to pyridinium salts. Magnetic Resonance in Chemistry, 2014, 52, 40-46.	1.1	0
83	1 H and 13 C NMR spectral assignments of 1,1â€²-(((ethane-1,2-diylbis(oxy))bis(4,1-phenylene))bis(methylene))-bispyridinium and -bisquinolinium bromide derivatives. Magnetic Resonance in Chemistry, 2016, 54, 905-911.	1.1	0
84	Abstract 1233:In vitroandin vivopharmacological study of EB-3D: a novel choline kinase inhibitor for breast cancer treatment. , 2016, , .		0