Roberta Costi

List of Publications by Year
in descending order

106 papers	3,112 citations	136740 32 h-index	197535 49 g-index
107 all docs	107 docs citations	107 times ranked	3756 citing authors

#	Article	IF	Citations
1	Geometrically and Conformationally Restrained Cinnamoyl Compounds as Inhibitors of HIV-1 Integrase:â€‰ Synthesis, Biological Evaluation, and Molecular Modeling. Journal of Medicinal Chemistry, 1998, 41, 3948-3960.	2.9	159
2	Antimycobacterial pyrroles: synthesis, anti- Mycobacterium tuberculosis activity and QSAR studies. Bioorganic and Medicinal Chemistry, 2000, 8, 1423-1432.	1.4	129
3	derivative which selectively inhibits the HIV-1 viral replication in cell culture and the ribonuclease H activity in vitro. Antiviral Research, 2005, 65, 117-124.	1.9	119
4	Antifungal Agents. 11.N-Substituted Derivatives of 1-[(Aryl)(4-aryl-1H-pyrrol-3-yl)methyl]-1H-imidazole:Â Synthesis, Anti-CandidaActivity, and QSAR Studies. Journal of Medicinal Chemistry, 2005, 48, 5140-5153.	2.9	108
5	Novel Bifunctional Quinolonyl Diketo Acid Derivatives as HIV-1 Integrase Inhibitors:â€‰ Design, Synthesis, Biological Activities, and Mechanism of Action. Journal of Medicinal Chemistry, 2006, 49, 1939-1945.	2.9	82
6	Antifungal Agents. 10. New Derivatives of 1-[(Aryl)[4-aryl-1H-pyrrol-3-yl]methyl]-1H-imidazole, Synthesis, Anti-Candida Activity, and Quantitative Structureâ^'Analysis Relationship Studies. Journal of Medicinal Chemistry, 2002, 45, 2720-2732.	2.9	76
7	2,6-Bis(3,4,5-trihydroxybenzylydene) derivatives of cyclohexanone. Bioorganic and Medicinal Chemistry, 2004, 12, 199-215.	1.4	76
8	Structureâ€“Activity Relationship of Pyrrolyl Diketo Acid Derivatives as Dual Inhibitors of HIV-1 Integrase and Reverse Transcriptase Ribonuclease H Domain. Journal of Medicinal Chemistry, 2015, 58, 1915-1928.	2.9	72
9	Cinnamoyl Compounds as Simple Molecules that Inhibit p300 Histone Acetyltransferase. Journal of Medicinal Chemistry, 2007, 50, 1973-1977.	2.9	65
10	Novel 3,5-Bis(bromohydroxybenzylidene)piperidin-4-ones as Coactivator-Associated Arginine Methyltransferase 1 Inhibitors: Enzyme Selectivity and Cellular Activity. Journal of Medicinal Chemistry, 2011, 54, 4928-4932.	2.9	65
11	Identification of Highly Conserved Residues Involved in Inhibition of HIV-1 RNase H Function by Diketo Acid Derivatives. Antimicrobial Agents and Chemotherapy, 2014, 58, 6101-6110.	1.4	64
12	Pyrrolnitrin and related pyrroles endowed with antibacterial activities against Mycobacterium tuberculosis. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 2931-2936.	1.0	61
13	Inhibition of Leishmania infantum trypanothione reductase by diaryl sulfide derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 304-310.	2.5	60
14	Molecular Modeling of Azole Antifungal Agents Active againstCandida albicans. 1. A Comparative Molecular Field Analysis Study1. Journal of Medicinal Chemistry, 1996, 39, 1227-1235.	2.9	59
15	Activity of caffeic acid derivatives against Candida albicans biofilm. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1502-1505.	1.0	58
16	6-(1-Benzyl-1H-pyrrol-2-yl)-2,4-dioxo-5-hexenoic Acids as Dual Inhibitors of Recombinant HIV-1 Integrase and Ribonuclease H, Synthesized by a Parallel Synthesis Approach. Journal of Medicinal Chemistry, 2013, 56, 8588-8598.	2.9	53
17	Basic Quinolinonyl Diketo Acid Derivatives as Inhibitors of HIV Integrase and their Activity against RNase H Function of Reverse Transcriptase. Journal of Medicinal Chemistry, 2014, 57, 3223-3234.	2.9	51
18	Recent Advances in Recovery of Lycopene from Tomato Waste: A Potent Antioxidant with Endless Benefits. Molecules, 2021, 26, 4495.	1.7	47

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19	Novel Quinolinonyl Diketo Acid Derivatives as HIV-1 Integrase Inhibitors: Design, Synthesis, and Biological Activities. Journal of Medicinal Chemistry, 2008, 51, 4744-4750.	2.9	45
20	Antifungal Agents. 9. 3-Aryl-4-[.alpha.-(1H-imidazol-1-yl)arylmethyl]pyrroles: A New Class of Potent Anti-Candida Agents. Journal of Medicinal Chemistry, 1995, 38, 4223-4233.	2.9	44
21	Effects of polyphenol compounds on influenza A virus replication and definition of their mechanism of action. Bioorganic and Medicinal Chemistry, 2012, 20, 5046-5052.	1.4	43
22	Perturbing Effects of Chiral Stationary Phase on Enantiomerization Second-Order Rate Constants Determined by Enantioselective Dynamic High-Performance Liquid Chromatography: A Practical Tool to Quantify the Accessible Acid and Basic Catalytic Sites Bonded on Chromatographic Supports. Analytical Chemistry, 2009, 81, 3560-3570.	3.2	41
23	Design, synthesis and QSAR studies on N-aryl heteroarylisopropanolamines, a new class of non-peptidic HIV-1 protease inhibitors. Bioorganic and Medicinal Chemistry, 2002, 10, 2511-2526.	1.4	38
24	Simple but Highly Effective Three-Dimensional Chemical-Feature-Based Pharmacophore Model for Diketo Acid Derivatives as Hepatitis C Virus RNA-Dependent RNA Polymerase Inhibitors. Journal of Medicinal Chemistry, 2005, 48, 6304-6314.	2.9	38
25	N-Substituted Quinolinonyl Diketo Acid Derivatives as HIV Integrase Strand Transfer Inhibitors and Their Activity against RNase H Function of Reverse Transcriptase. Journal of Medicinal Chemistry, 2015, 58, 4610-4623.	2.9	38
26	Comparison of different methods for the extraction of cannabinoids from cannabis. Natural Product Research, 2020, 34, 2952-2958.	1.0	38
27	Design, Synthesis, and Biological Activities of Pyrrolylethanoneamine Derivatives, a Novel Class of Monoamine Oxidases Inhibitors. Journal of Medicinal Chemistry, 2005, 48, 4220-4223.	2.9	37
28	Probing HIV-1 Integrase Inhibitor Binding Sites with Position-Specific Integrase-DNA Cross-Linking Assays. Molecular Pharmacology, 2007, 71, 893-901.	1.0	37
29	Discovery and Pharmacological Profile of New 1H-Indazole-3-carboxamide and 2H-Pyrrolo[3,4-c]quinoline Derivatives as Selective Serotonin 4 Receptor Ligands. Journal of Medicinal Chemistry, 2012, 55, 9446-9466.	2.9	35
30	New insights into the interaction between pyrrolyl diketoacids and HIV-1 integrase active site and comparison with RNase H. Antiviral Research, 2016, 134, 236-243.	1.9	35
31	Inhibition of the Î±-carbonic anhydrase fromVibrio choleraewith amides and sulfonamides incorporating imidazole moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 798-804.	2.5	35
32	Functional Roles of Acetylated Histone Marks at Mouse Meiotic Recombination Hot Spots. Molecular and Cellular Biology, 2017, 37, .	1.1	35
33	Design, synthesis and biological evaluation of heteroaryl diketohexenoic and diketobutanoic acids as HIV-1 integrase inhibitors endowed with antiretroviral activity. Il Farmaco, 2005, 60, 409-417.	0.9	34
34	6-Aryl-2,4-dioxo-5-hexenoic acids, novel integrase inhibitors active against HIV-1 multiplication in cell-based assays. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 1745-1749.	1.0	32
35	New pyridine derivatives as inhibitors of acetylcholinesterase and amyloid aggregation. European Journal of Medicinal Chemistry, 2017, 141, 197-210.	2.6	32
36	New deferiprone derivatives as multi-functional cholinesterase inhibitors: design, synthesis and inÂvitro evaluation. European Journal of Medicinal Chemistry, 2020, 198, 112350.	2.6	32

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37	2H-Pyrrolo[3,4-b] [1,5]benzothiazepine derivatives as potential inhibitors of HIV-1 reverse transcriptase. Il Farmaco, 2005, 60, 385-392.	0.9	31
38	Arylthiopyrrole (AThP) Derivatives as Non-Nucleoside HIV-1 Reverse Transcriptase Inhibitors: Synthesis, Structureâ€“Activity Relationships, and Docking Studies (Partâ€...1). ChemMedChem, 2006, 1, 1367-1378.	1.6	31
39	Novel Benzazole Derivatives Endowed with Potent Antiheparanase Activity. Journal of Medicinal Chemistry, 2018, 61, 6918-6936.	2.9	30
40	Acetylcholinesterase inhibitors for the treatment of Alzheimerâ€™s disease â€“ a patent review (2016â€“present). Expert Opinion on Therapeutic Patents, 2021, 31, 399-420.	2.4	29
41	Searching for new agents active against Candida albicans biofilm: A series of indole derivatives, design, synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2019, 165, 93-106.	2.6	28
42	Identification of PR-SET7 and EZH2 selective inhibitors inducing cell death in human leukemia U937 cells. Biochimie, 2012, 94, 2308-2313.	1.3	27
43	Design, Synthesis, and Structureâ€“Activity Relationship of N-Arylnaphthylamine Derivatives as Amyloid Aggregation Inhibitors. Journal of Medicinal Chemistry, 2012, 55, 8538-8548.	2.9	26
44	Design, Synthesis, and Biological Evaluation of New 1-(Aryl-1H-pyrrolyl)(phenyl)methyl-1H-imidazole Derivatives as Antiprotozoal Agents. Journal of Medicinal Chemistry, 2019, 62, 1330-1347.	2.9	26
45	Enantioselective liquid chromatography of C3-chiral 2,3-dihydro-1,2,5-benzothiadiazepin-4(5H)-one and thione 1,1-dioxides on polyacrylamide- and polysaccharide-based chiral stationary phases. Journal of Chromatography A, 2003, 993, 17-28.	1.8	25
46	Pyrrolyl Pyrazoles as Non-Diketo Acid Inhibitors of the HIV-1 Ribonuclease H Function of Reverse Transcriptase. ACS Medicinal Chemistry Letters, 2020, 11, 798-805.	1.3	25
47	HIV-1 integrase inhibitors that block HIV-1 replication in infected cells. Planning synthetic derivatives from natural products. Pure and Applied Chemistry, 2003, 75, 195-206.	0.9	24
48	New Nucleotide-Competitive Non-Nucleoside Inhibitors of Terminal Deoxynucleotidyl Transferase: Discovery, Characterization, and Crystal Structure in Complex with the Target. Journal of Medicinal Chemistry, 2013, 56, 7431-7441.	2.9	24
49	Hypoglycemic activity of curcumin synthetic analogues in alloxan-induced diabetic rats. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 99-105.	2.5	23
50	Human Immunodeficiency Virus Type 1 (HIV-1) Integration: a Potential Target for Microbicides To Prevent Cell-Free or Cell-Associated HIV-1 Infection. Antimicrobial Agents and Chemotherapy, 2008, 52, 2544-2554.	1.4	22
51	Exploring the anti-biofilm activity of cinnamic acid derivatives in Candida albicans. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 5931-5935.	1.0	22
52	HIV-1 integrase inhibitors are substrates for the multidrug transporter MDR1-P-glycoprotein. Retrovirology, 2007, 4, 17.	0.9	20
53	Design, Synthesis, Biological Evaluation, and Molecular Modeling Studies of TIBO-Like Cyclic Sulfones as Non-Nucleoside HIV-1 Reverse Transcriptase Inhibitors. ChemMedChem, 2006, 1, 82-95.	1.6	19
54	Novel Symmetrical Benzazolyl Derivatives Endowed with Potent Anti-Heparanase Activity. Journal of Medicinal Chemistry, 2018, 61, 10834-10859.	2.9	19

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55	Biological evaluation and structure-activity relationships of imidazole-based compounds as antiprotozoal agents. European Journal of Medicinal Chemistry, 2018, 156, 53-60.	2.6	19
56	Development of a Human Immunodeficiency Virus Vector-Based, Single-Cycle Assay for Evaluation of Anti-Integrase Compounds. Antimicrobial Agents and Chemotherapy, 2006, 50, 3407-3417.	1.4	18
57	Structure-guided approach identifies a novel class of HIV-1 ribonuclease H inhibitors: binding mode insights through magnesium complexation and site-directed mutagenesis studies. MedChemComm, 2018, 9, 562-575.	3.5	18
58	Influence of oral administration mode on the efficacy of commercial bovine Lactoferrin against iron and inflammatory homeostasis disorders. BioMetals, 2020, 33, 159-168.	1.8	18
59	Investigation of Commiphora myrrha (Nees) Engl. Oil and Its Main Components for Antiviral Activity. Pharmaceuticals, 2021, 14, 243.	1.7	18
60	Inhibition of Polycomb Repressive Complex 2 activity reduces trimethylation of H3K27 and affects development in Arabidopsis seedlings. BMC Plant Biology, 2019, 19, 429.	1.6	17
61	Recent Advancement in the Search of Innovative Antiprotozoal Agents Targeting Trypanothione Metabolism. ChemMedChem, 2020, 15, 2420-2435.	1.6	17
62	A general, versatile synthesis of 2H-pyrrolo[3,4-c]quinolines via tosylmethylisocyanide reaction. Arkivoc, 2004, 2004, 181-195.	0.3	17
63	Understanding Drivers of Ocular Fibrosis: Current and Future Therapeutic Perspectives. International Journal of Molecular Sciences, 2021, 22, 11748.	1.8	17
64	Analytical and semipreparative enantiomeric separation of azole antifungal agents by high-performance liquid chromatography on polysaccharide-based chiral stationary phases. Journal of Chromatography A, 2002, 942, 107-114.	1.8	16
65	Discovery of N-aryl-naphthylamines as inÂvitro inhibitors of the interaction between HIV integrase and the cofactor LEDGF/p75. European Journal of Medicinal Chemistry, 2015, 101, 288-294.	2.6	16
66	New Pyrimidine and Pyridine Derivatives as Multitarget Cholinesterase Inhibitors: Design, Synthesis, and In Vitro and In Cellulo Evaluation. ACS Chemical Neuroscience, 2021, 12, 4090-4112.	1.7	16
67	Diketo Hexenoic Acid Derivatives Are Novel Selective Non-Nucleoside Inhibitors of Mammalian Terminal Deoxynucleotidyl Transferases, with Potent Cytotoxic Effect against Leukemic Cells. Molecular Pharmacology, 2005, 68, 538-550.	1.0	15
68	A rational approach to predict and modulate stereolability of chiral Î± substituted ketones. Chirality, 2009, 21, 24-34.	1.3	15
69	Evaluation of HIV-1 integrase inhibitors on human primary macrophages using a luciferase-based single-cycle phenotypic assay. Journal of Virological Methods, 2010, 168, 272-276.	1.0	15
70	Synthesis, biological evaluation and structureâ€“activity correlation study of a series of imidazol-based compounds as Candida albicans inhibitors. European Journal of Medicinal Chemistry, 2014, 83, 665-673.	2.6	15
71	Structure-guided approach to identify a novel class of anti-leishmaniasis diaryl sulfide compounds targeting the trypanothione metabolism. Amino Acids, 2020, 52, 247-259.	1.2	15
72	Antifungal estrogen-like imidazoles. Synthesis and antifungal activities of thienyl and 1H-pyrrolyl derivatives of 1-aryl-2-(1H-imidazol-1-yl)ethane. European Journal of Medicinal Chemistry, 1997, 32, 143-149.	2.6	14

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73	New Promising Compounds with in Vitro Nanomolar Activity against Trypanosoma cruzi. ACS Medicinal Chemistry Letters, 2013, 4, 538-541.	1.3	14
74	Design, Synthesis and Biological Evaluation of New Pyrimidine Derivatives as Anticancer Agents. Molecules, 2021, 26, 771.	1.7	14
75	Synthesis of Pyrrolo [3,4-c] [1] benzazepine-4, 10 (2H, 5H)-dione, a Model System Useful for the Design of 11-Oxosibiromycinone Analogues. Synthetic Communications, 1996, 26, 1839-1847.	1.1	13
76	Towards a new application of amaranth seed oil as an agent against Candida albicans. Natural Product Research, 2021, 35, 4621-4626.	1.0	13
77	Discovery of a pyrimidine compound endowed with antitumor activity. Investigational New Drugs, 2020, 38, 39-49.	1.2	13
78	Tegaserod for the Treatment of Irritable Bowel Syndrome. Anti-Inflammatory and Anti-Allergy Agents in Medicinal Chemistry, 2020, 19, 342-369.	1.1	13
79	Antifungal agents. 5. Chloro and amino derivatives of 1,2-diaryl-1-(1H-imidazol-1-yl)ethane with potent antifungal activities. European Journal of Medicinal Chemistry, 1993, 28, 715-720.	2.6	12
80	Arylthiopyrrole (AThP) Derivatives as Non-Nucleoside HIV-1 Reverse Transcriptase Inhibitors: Synthesis, Structureâ€“Activity Relationships, and Docking Studies (Partâ€…2). ChemMedChem, 2006, 1, 1379-1390.	1.6	12
81	Research on nitrogen containing heterocyclic compounds. XX. Synthesis of 8Hâ€imidazo[5,1â€c]pyrrolo[1,2â€a][1,4]benzodiazepine and its 6â€derivatives. Journal of Heterocyclic Chemistry, 1993, 30, 749-753.	1.4	11
82	1-Arylsulfonyl-3-(Î±-hydroxybenzyl)-1H-pyrroles, a novel class of anti-HIV-1 reverse transcriptase inhibitors. Bioorganic and Medicinal Chemistry Letters, 1997, 7, 1931-1936.	1.0	11
83	Structure-Activity Relationship Studies on Potential Non-Nucleoside DABO-Like Inhibitors of HIV-1 Reverse Transcriptase. Antiviral Chemistry and Chemotherapy, 2000, 11, 117-133.	0.3	11
84	Synthesis and Cerebral Uptake of 1-(1-[¹¹C]Methyl-1H-pyrrol-2-yl)-2-phenyl-2-(1-pyrrolidinyl)ethanone, a Novel Tracer for Positron Emission Tomography Studies of Monoamine Oxidase Type A. Journal of Medicinal Chemistry, 2008, 51, 1617-1622.	2.9	11
85	NewN,N-dimethylcarbamate inhibitors of acetylcholinesterase: design synthesis and biological evaluation. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 106-113.	2.5	11
86	Structureâ€“Activity Relationships on Cinnamoyl Derivatives as Inhibitors of p300 Histone Acetyltransferase. ChemMedChem, 2017, 12, 1359-1368.	1.6	11
87	Effect of heparanase inhibitor on tissue factor overexpression in platelets and endothelial cells induced by antiâ€²2â€GPI antibodies. Journal of Thrombosis and Haemostasis, 2021, 19, 2302-2313.	1.9	11
88	Arylsulfonylpyrroles from Reaction of Tosylmethyl Isocyanide (TOSMIC) with 3-Arylsulfonyl Acrylates as Michael Acceptors. Synthetic Communications, 1998, 28, 1801-1815.	1.1	10
89	Derivatives of 2,3-dihydroimidazo[1,5,4-ef][1,2,5]-benzothiadiazepin-6(4h,7h)-thione 1,1-dioxide, a new heterocyclic system related to tibo. Journal of Heterocyclic Chemistry, 2002, 39, 81-90.	1.4	10
90	Pharmacophore Assessment Through 3-D QSAR: Evaluation of the Predictive Ability on New Derivatives by the Application on a Series of Antitubercular Agents. Journal of Chemical Information and Modeling, 2013, 53, 1463-1474.	2.5	9

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91	Pyrrole-Annulated Heterocyclic Systems. Synthesis of 2H-Pyrrolo[3,4-b][1,5]benzothiazepine 4,4-Dioxide Derivatives. Synthetic Communications, 1998, 28, 2517-2530.	1.1	8
92	Convenient Route to 2H-Pyrrolo[3,4-b]quinolin-9(4H)-one Skeleton via TosMIC Reaction. Synthetic Communications, 2013, 43, 1063-1072.	1.1	8
93	Ptaquiloside in Pteridium aquilinum subsp. aquilinum and corresponding soils from the South of Italy: Influence of physical and chemical features of soils on its occurrence. Science of the Total Environment, 2014, 496, 365-372.	3.9	8
94	Quinolinonyl Non-Diketo Acid Derivatives as Inhibitors of HIV-1 Ribonuclease H and Polymerase Functions of Reverse Transcriptase. Journal of Medicinal Chemistry, 2021, 64, 8579-8598.	2.9	8
95	PHA-680626 Is an Effective Inhibitor of the Interaction between Aurora-A and N-Myc. International Journal of Molecular Sciences, 2021, 22, 13122.	1.8	8
96	Design, synthesis and biological evaluation of a series of iron and copper chelating deferiprone derivatives as new agents active against Candida albicans. Bioorganic and Medicinal Chemistry Letters, 2021, 42, 128087.	1.0	7
97	Design, synthesis and evaluation of 3,4-dihydroxybenzoic acid derivatives as antioxidants, bio-metal chelating agents and acetylcholinesterase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 166-172.	2.5	6
98	Anti-Tumoral Effects of a (1H-Pyrrol-1-yl)Methyl-1H-Benzoimidazole Carbamate Ester Derivative on Head and Neck Squamous Carcinoma Cell Lines. Pharmaceuticals, 2021, 14, 564.	1.7	6
99	Small-molecule Inhibitors of HIV-1 Reverse Transcriptase-Associated Ribonuclease H Function: Challenges and Recent Developments. Current Medicinal Chemistry, 2021, 28, 6146-6178.	1.2	5
100	Ultrastructural Damages to H1N1 Influenza Virus Caused by Vapor Essential Oils. Molecules, 2022, 27, 3718.	1.7	5
101	Evaluation of the Anti-Histoplasma capsulatum Activity of Indole and Nitrofuran Derivatives and Their Pharmacological Safety in Three-Dimensional Cell Cultures. Pharmaceutics, 2022, 14, 1043.	2.0	4
102	Simple Synthesis of Deuterated Pterosines. Synthetic Communications, 2008, 38, 1553-1559.	1.1	3
103	Synthesis and Evaluation of the Antifungal and Toxicological Activity of Nitrofuran Derivatives. Pharmaceutics, 2022, 14, 593.	2.0	3
104	Design, Synthesis, and In Vitro, In Silico and In Cellulo Evaluation of New Pyrimidine and Pyridine Amide and Carbamate Derivatives as Multi-Functional Cholinesterase Inhibitors. Pharmaceuticals, 2022, 15, 673.	1.7	3
105	1-{[4-(4-Chlorophenyl)-1H-pyrrol-3-yl](2,4-dichlorophenyl)methyl}-1H-imidazole (RDS 416). Acta Crystallographica Section E: Structure Reports Online, 2001, 57, o96-o98.	0.2	0
106	2H-Pyrrolo[3,4-b][1,5]benzothiazepine Derivatives as Potential Inhibitors of HIV-1 Reverse Transcriptase.. ChemInform, 2005, 36, no.	0.1	0