Roberta Costi

List of Publications by Year
in descending order

106 papers	3,112 citations	136885 32 h-index	197736 49 g-index
107 all docs	107 docs citations	107 times ranked	3756 citing authors

#	Article	IF	Citations
1	Synthesis and Evaluation of the Antifungal and Toxicological Activity of Nitrofuran Derivatives. Pharmaceutics, 2022, 14, 593.	2.0	3
2	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
3	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
4	Ultrastructural Damages to H1N1 Influenza Virus Caused by Vapor Essential Oils. Molecules, 2022, 27, 3718.	1.7	5
5	Towards a new application of amaranth seed oil as an agent against Candida albicans. Natural Product Research, 2021, 35, 4621-4626.	1.0	13
6	Design, Synthesis and Biological Evaluation of New Pyrimidine Derivatives as Anticancer Agents. Molecules, 2021, 26, 771.	1.7	14
7	Investigation of Commiphora myrrha (Nees) Engl. Oil and Its Main Components for Antiviral Activity. Pharmaceuticals, 2021, 14, 243.	1.7	18
8	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
9	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
10	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
11	Effect of heparanase inhibitor on tissue factor overexpression in platelets and endothelial cells induced by antiâ€Î²2â€GPI antibodies. Journal of Thrombosis and Haemostasis, 2021, 19, 2302-2313.	1.9	11
12	Recent Advances in Recovery of Lycopene from Tomato Waste: A Potent Antioxidant with Endless Benefits. Molecules, 2021, 26, 4495.	1.7	47
13	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
14	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
15	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
16	Understanding Drivers of Ocular Fibrosis: Current and Future Therapeutic Perspectives. International Journal of Molecular Sciences, 2021, 22, 11748.	1.8	17
17	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
18	Comparison of different methods for the extraction of cannabinoids from cannabis. Natural Product Research, 2020, 34, 2952-2958.	1.0	38

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19	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
20	Discovery of a pyrimidine compound endowed with antitumor activity. Investigational New Drugs, 2020, 38, 39-49.	1.2	13
21	Tegaserod for the Treatment of Irritable Bowel Syndrome. Anti-Inflammatory and Anti-Allergy Agents in Medicinal Chemistry, 2020, 19, 342-369.	1.1	13
22	Recent Advancement in the Search of Innovative Antiprotozoal Agents Targeting Trypanothione Metabolism. ChemMedChem, 2020, 15, 2420-2435.	1.6	17
23	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
24	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
25	New deferiprone derivatives as multi-functional cholinesterase inhibitors: design, synthesis and inÂvitro evaluation. European Journal of Medicinal Chemistry, 2020, 198, 112350.	2.6	32
26	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
27	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
28	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
29	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
30	Novel Symmetrical Benzazolyl Derivatives Endowed with Potent Anti-Heparanase Activity. Journal of Medicinal Chemistry, 2018, 61, 10834-10859.	2.9	19
31	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
32	Novel Benzazole Derivatives Endowed with Potent Antiheparanase Activity. Journal of Medicinal Chemistry, 2018, 61, 6918-6936.	2.9	30
33	Inhibition of Leishmania infantum trypanothione reductase by diaryl sulfide derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 304-310.	2.5	60
34	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
35	Structureâ€“Activity Relationships on Cinnamoyl Derivatives as Inhibitors of p300 Histone Acetyltransferase. ChemMedChem, 2017, 12, 1359-1368.	1.6	11
36	New pyridine derivatives as inhibitors of acetylcholinesterase and amyloid aggregation. European Journal of Medicinal Chemistry, 2017, 141, 197-210.	2.6	32

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37	Functional Roles of Acetylated Histone Marks at Mouse Meiotic Recombination Hot Spots. Molecular and Cellular Biology, 2017, 37, .	1.1	35
38	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
39	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
40	Exploring the anti-biofilm activity of cinnamic acid derivatives in Candida albicans. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 5931-5935.	1.0	22
41	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
42	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
43	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
44	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
45	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
46	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
47	Activity of caffeic acid derivatives against Candida albicans biofilm. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1502-1505.	1.0	58
48	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
49	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
50	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
51	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
52	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
53	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
54	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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55	New Promising Compounds with in Vitro Nanomolar Activity against Trypanosoma cruzi. ACS Medicinal Chemistry Letters, 2013, 4, 538-541.	1.3	14
56	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
57	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
58	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
59	Identification of PR-SET7 and EZH2 selective inhibitors inducing cell death in human leukemia U937 cells. Biochimie, 2012, 94, 2308-2313.	1.3	27
60	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
61	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
62	A rational approach to predict and modulate stereolability of chiral Î± substituted ketones. Chirality, 2009, 21, 24-34.	1.3	15
63	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
64	Simple Synthesis of Deuterated Pterosines. Synthetic Communications, 2008, 38, 1553-1559.	1.1	3
65	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
66	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
67	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
68	Probing HIV-1 Integrase Inhibitor Binding Sites with Position-Specific Integrase-DNA Cross-Linking Assays. Molecular Pharmacology, 2007, 71, 893-901.	1.0	37
69	HIV-1 integrase inhibitors are substrates for the multidrug transporter MDR1-P-glycoprotein. Retrovirology, 2007, 4, 17.	0.9	20
70	Cinnamoyl Compounds as Simple Molecules that Inhibit p300 Histone Acetyltransferase. Journal of Medicinal Chemistry, 2007, 50, 1973-1977.	2.9	65
71	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
72	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

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73	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
74	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
75	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
76	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
77	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
78	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
79	2H-Pyrrolo[3,4-b][1,5]benzothiazepine Derivatives as Potential Inhibitors of HIV-1 Reverse Transcriptase.. ChemInform, 2005, 36, no.	0.1	0
80	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
81	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
82	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
83	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
84	2,6-Bis(3,4,5-trihydroxybenzylydene) derivatives of cyclohexanone. Bioorganic and Medicinal Chemistry, 2004, 12, 199-215.	1.4	76
85	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
86	A general, versatile synthesis of 2H-pyrrolo[3,4-c]quinolines via tosylmethylisocyanide reaction. Arkivoc, 2004, 2004, 181-195.	0.3	17
87	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
88	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
89	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
90	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

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91	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
92	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
93	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
94	Antimycobacterial pyrroles: synthesis, anti- Mycobacterium tuberculosis activity and QSAR studies. Bioorganic and Medicinal Chemistry, 2000, 8, 1423-1432.	1.4	129
95	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
96	Pyrrolnitrin and related pyrroles endowed with antibacterial activities against Mycobacterium tuberculosis. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 2931-2936.	1.0	61
97	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
98	Arylsulfonylpyrroles from Reaction of Tosylmethyl Isocyanide (TOSMIC) with 3-Arylsulfonyl Acrylates as Michael Acceptors. Synthetic Communications, 1998, 28, 1801-1815.	1.1	10
99	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
100	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
101	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
102	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
103	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
104	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
105	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
106	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