Caterina Fattorusso

List of Publications by Year
in descending order

94	3,272	94433 37	161849 54
papers	citations	h-index	g-index

103	103	103	4415
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silybins are stereospecific regulators of the 20S Proteasome. Bioorganic and Medicinal Chemistry, 2022, 66, 116813.	3.0	3
2	Modulation of the 20S Proteasome Activity by Porphyrin Derivatives Is Steered through Their Charge Distribution. Biomolecules, 2022, 12, 741.	4.0	0
3	Hybrids between H2S-donors and betamethasone 17-valerate or triamcinolone acetonide inhibit mast cell degranulation and promote hyperpolarization of bronchial smooth muscle cells. European Journal of Medicinal Chemistry, 2021, 221, 113517.	5.5	10
4	New Insights into the Structureâ€“Activity Relationship and Neuroprotective Profile of Benzodiazepinone Derivatives of Neurounina-1 as Modulators of the Na⁺/Ca²⁺ Exchanger Isoforms. Journal of Medicinal Chemistry, 2021, 64, 17901-17919.	6.4	6
5	Tetra-substituted pyrrole derivatives act as potent activators of p53 in melanoma cells. Investigational New Drugs, 2020, 38, 634-649.	2.6	7
6	Thiazinoquinones as New Promising Multistage Schistosomicidal Compounds Impacting Schistosoma mansoni and Egg Viability. ACS Infectious Diseases, 2020, 6, 124-137.	3.8	8
7	Cooperative Binding of the Cationic Porphyrin Tris-T4 Enhances Catalytic Activity of 20S Proteasome Unveiling a Complex Distribution of Functional States. International Journal of Molecular Sciences, 2020, 21, 7190.	4.1	7
8	Exploring the Photodynamic Properties of Two Antiproliferative Benzodiazopyrrole Derivatives. International Journal of Molecular Sciences, 2020, 21, 1246.	4.1	10
9	Antiplasmodial Activity of p-Substituted Benzyl Thiazinoquinone Derivatives and Their Potential against Parasitic Infections. Molecules, 2020, 25, 1530.	3.8	3
10	Investigating the Antiparasitic Potential of the Marine Sesquiterpene Avarone, Its Reduced Form Avarol, and the Novel Semisynthetic Thiazinoquinone Analogue Thiazoavarone. Marine Drugs, 2020, 18, 112.	4.6	24
11	Covalent Inhibitors of Plasmodium falciparum Glyceraldehyde 3-Phosphate Dehydrogenase with Antimalarial Activity in Vitro. ACS Medicinal Chemistry Letters, 2019, 10, 590-595.	2.8	13
12	Exploring the antimalarial potential of the methoxy-thiazinoquinone scaffold: Identification of a new lead candidate. Bioorganic Chemistry, 2019, 85, 240-252.	4.1	15
13	Computer-Aided Drug Discovery from Marine Compounds: Identification of the Three-Dimensional Structural Features Responsible for Antimalarial Activity. Progress in Molecular and Subcellular Biology, 2017, 55, 105-158.	1.6	0
14	The interaction of heme with plakortin and a synthetic endoperoxide analogue: new insights into the heme-activated antimalarial mechanism. Scientific Reports, 2017, 7, 45485.	3.3	13
15	Electrostatic Map Of Proteasome Î±-Rings Encodes The Design of Allosteric Porphyrin-Based Inhibitors Able To Affect 20S Conformation By Cooperative Binding. Scientific Reports, 2017, 7, 17098.	3.3	10
16	Insight into the Mechanism of Action of Marine Cytotoxic Thiazinoquinones. Marine Drugs, 2017, 15, 335.	4.6	11
17	Investigating the Neuroprotective Effects of Turmeric Extract: Structural Interactions of Î²-Amyloid Peptide with Single Curcuminoids. Scientific Reports, 2016, 6, 38846.	3.3	28
18	Use of Integrated Computational Approaches in the Search for New Therapeutic Agents. Molecular Informatics, 2016, 35, 309-325.	2.5	7

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19	Cationic porphyrins are tunable gatekeepers of the 20S proteasome. Chemical Science, 2016, 7, 1286-1297.	7.4	27
20	Benzodiazepine Scaffold as Drug-like Molecular Simplification of FR235222: A Chemical Tool for Exploring HDAC Inhibition. Current Topics in Medicinal Chemistry, 2016, 17, 441-459.	2.1	3
21	Editorial (Thematic Issue: Protein Interfaces as Targets in Drug Discovery). Current Topics in Medicinal Chemistry, 2015, 15, 2003-2004.	2.1	0
22	Marine inspired antiplasmodial thiazinoquinones: synthesis, computational studies and electrochemical assays. RSC Advances, 2015, 5, 70689-70702.	3.6	16
23	New antimalarial 3-methoxy-1,2-dioxanes: optimization of cellular pharmacokinetics and pharmacodynamics properties by incorporation of amino and N-heterocyclic moieties at C4. RSC Advances, 2015, 5, 72995-73010.	3.6	12
24	GTP is an allosteric modulator of the interaction between the guanylate-binding protein 1 and the prosurvival kinase PIM1. European Journal of Medicinal Chemistry, 2015, 91, 132-144.	5.5	10
25	From Protein Communication to Drug Discovery. Current Topics in Medicinal Chemistry, 2015, 15, 2019-2031.	2.1	7
26	Outstanding effects on antithrombin activity of modified TBA diastereomers containing an optically pure acyclic nucleotide analogue. Organic and Biomolecular Chemistry, 2014, 12, 5235-5242.	2.8	27
27	Endoperoxide polyketides from a Chinese Plakortis simplex: Further evidence of the impact of stereochemistry on antimalarial activity of simple 1,2-dioxanes. Bioorganic and Medicinal Chemistry, 2014, 22, 4572-4580.	3.0	20
28	Optimized Synthesis and Antimalarial Activity of 1,2â€Dioxaneâ€4â€carboxamides. European Journal of Organic Chemistry, 2014, 2014, 1607-1614.	2.4	15
29	Identification of the First Inhibitor of the GBP1:PIM1 Interaction. Implications for the Development of a New Class of Anticancer Agents against Paclitaxel Resistant Cancer Cells. Journal of Medicinal Chemistry, 2014, 57, 7916-7932.	6.4	41
30	New Anticancer Agents Mimicking Protein Recognition Motifs. Journal of Medicinal Chemistry, 2013, 56, 6666-6680.	6.4	16
31	Further optimization of plakortin pharmacophore: Structurally simple 4-oxymethyl-1,2-dioxanes with promising antimalarial activity. European Journal of Medicinal Chemistry, 2013, 70, 875-886.	5.5	12
32	Investigating the Role of T₇ and T₁₂ Residues on the Biological Properties of Thrombin-Binding Aptamer: Enhancement of Anticoagulant Activity by a Single Nucleobase Modification. Journal of Medicinal Chemistry, 2012, 55, 10716-10728.	6.4	42
33	Histone deacetylase inhibitors in the treatment of cancer: overview and perspectives. Future Medicinal Chemistry, 2012, 4, 1439-1460.	2.3	144
34	A New Class of Antimalarial Dioxanes Obtained through a Simple Two-Step Synthetic Approach: Rational Design and Structureâ€“Activity Relationship Studies. Journal of Medicinal Chemistry, 2011, 54, 8526-8540.	6.4	17
35	Investigation of the Bcl-2 multimerisation process: Structural and functional implications. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 850-857.	4.1	17
36	Oxime Amides as a Novel Zinc Binding Group in Histone Deacetylase Inhibitors: Synthesis, Biological Activity, and Computational Evaluation. Journal of Medicinal Chemistry, 2011, 54, 2165-2182.	6.4	45

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37	Antimalarials based on the dioxane scaffold of plakortin. A concise synthesis and SAR studies. Bioorganic and Medicinal Chemistry, 2011, 19, 312-320.	3.0	26
38	Discovery of Bishomo(hetero)arylpiperazines as Novel Multifunctional Ligands Targeting Dopamine D3and Serotonin 5-HT1Aand 5-HT2AReceptors. Journal of Medicinal Chemistry, 2010, 53, 4803-4807.	6.4	25
39	Manadoperoxides Aâ^'D from the Indonesian Sponge Plakortis cfr. simplex. Further Insights on the Structureâ^'Activity Relationships of Simple 1,2-Dioxane Antimalarials. Journal of Natural Products, 2010, 73, 1138-1145.	3.0	54
40	Insight into the mechanism of action of plakortins, simple 1,2-dioxaneantimalarials. Organic and Biomolecular Chemistry, 2010, 8, 846-856.	2.8	39
41	Paclitaxel Directly Binds to Bcl-2 and Functionally Mimics Activity of Nur77. Cancer Research, 2009, 69, 6906-6914.	0.9	142
42	Discovery of a New Class of Potential Multifunctional Atypical Antipsychotic Agents Targeting Dopamine D3 and Serotonin 5-HT1A and 5-HT2A Receptors: Design, Synthesis, and Effects on Behavior. Journal of Medicinal Chemistry, 2009, 52, 151-169.	6.4	79
43	Combining 4-Aminoquinoline- and Clotrimazole-Based Pharmacophores toward Innovative and Potent Hybrid Antimalarials. Journal of Medicinal Chemistry, 2009, 52, 502-513.	6.4	55
44	Specific Targeting of Peripheral Serotonin 5-HT₃Receptors. Synthesis, Biological Investigation, and Structureâ^'Activity Relationships. Journal of Medicinal Chemistry, 2009, 52, 3548-3562.	6.4	38
45	Full relative stereochemistry assignment and conformational analysis of 13,19-didesmethyl spirolide C via NMR- and molecular modeling-based techniques. A step towards understanding spirolideâ€™s mechanism of action. Organic and Biomolecular Chemistry, 2009, 7, 3674.	2.8	16
46	Abstract C231: A great mime produced by nature: The case of paclitaxel. , 2009, , .		0
47	Microwave-assisted synthesis of 4-quinolylhydrazines followed by nickel boride reduction: a convenient approach to 4-aminoquinolines and derivatives. Tetrahedron Letters, 2008, 49, 2074-2077.	1.4	20
48	Selective targeting of the HIV-1 reverse transcriptase catalytic complex through interaction with the â€œprimer gripâ€•region by pyrrolobenzoxazepinone non-nucleoside inhibitors correlates with increased activity towards drug-resistant mutants. Biochemical Pharmacology, 2008, 76, 156-168.	4.4	6
49	Exploiting Protein Fluctuations at the Active-Site Gorge of Human Cholinesterases: Further Optimization of the Design Strategy to Develop Extremely Potent Inhibitors. Journal of Medicinal Chemistry, 2008, 51, 3154-3170.	6.4	56
50	Design, Synthesis, and Structureâ€“Activity Relationship Studies of 4-Quinolinyl- and 9-Acrydinylhydrazones as Potent Antimalarial Agents. Journal of Medicinal Chemistry, 2008, 51, 1333-1343.	6.4	73
51	Discovery of a new series of jatrophane and lathyrane diterpenes as potent and specific P-glycoprotein modulators. Organic and Biomolecular Chemistry, 2008, 6, 1756.	2.8	53
52	Clotrimazole Scaffold as an Innovative Pharmacophore Towards Potent Antimalarial Agents: Design, Synthesis, and Biological and Structureâ€“Activity Relationship Studies. Journal of Medicinal Chemistry, 2008, 51, 1278-1294.	6.4	45
53	Stereostructure Assignment of Medium-Sized Rings through an NMRâ^'Computational Combined Approach. Application to the New Germacranes Ketopelenolides C and D. Journal of Natural Products, 2008, 71, 1988-1992.	3.0	23
54	Artarborol, anor-Caryophyllane Sesquiterpene Alcohol fromArtemisiaarborescens.Stereostructure Assignment through Concurrence of NMR Data and Computational Analysis. Organic Letters, 2007, 9, 2377-2380.	4.6	44

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55	Development of piperazine-tethered heterodimers as potent antimalarials against chloroquine-resistant P. falciparum strains. Synthesis and molecular modeling. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 3535-3539.	2.2	18
56	Design and Synthesis of Potent Antimalarial Agents Based on Clotrimazole Scaffold:Â Exploring an Innovative Pharmacophore. Journal of Medicinal Chemistry, 2007, 50, 595-598.	6.4	40
57	Endoperoxide Derivatives from Marine Organisms:â€‰ 1,2-Dioxanes of the Plakortin Family as Novel Antimalarial Agents. Journal of Medicinal Chemistry, 2006, 49, 7088-7094.	6.4	66
58	Conformational Flexibility in the Peripheral Site ofTorpedo californicaAcetylcholinesterase Revealed by the Complex Structure with a Bifunctional Inhibitor. Journal of the American Chemical Society, 2006, 128, 4526-4527.	13.7	53
59	Synthesis of N1-arylidene-N2-quinolyl- and N2-acrydinylhydrazones as potent antimalarial agents active against CQ-resistant P. falciparum strains. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5384-5388.	2.2	142
60	Discovery of Huperzine Aâ'Tacrine Hybrids as Potent Inhibitors of Human Cholinesterases Targeting Their Midgorge Recognition Sites. Journal of Medicinal Chemistry, 2006, 49, 3421-3425.	6.4	50
61	Identification of Tubulin as the Molecular Target of Proapoptotic Pyrrolo-1,5-benzoxazepines. Molecular Pharmacology, 2006, 70, 60-70.	2.3	55
62	Amygdaloidins Aâ€"L, twelve new 13 Î±-OH jatrophane diterpenes from Euphorbia amygdaloides L.. Tetrahedron, 2005, 61, 4485-4494.	1.9	46
63	Tyr702 Is an Important Determinant of Agonist Binding and Domain Closure of the Ligand-Binding Core of GluR2. Molecular Pharmacology, 2005, 67, 703-713.	2.3	50
64	The Seco-Taxane IDN5390 Is Able to Target Class III Î²-Tubulin and to Overcome Paclitaxel Resistance. Cancer Research, 2005, 65, 2397-2405.	0.9	108
65	Novel Atypical Antipsychotic Agents:Â Rational Design, an Efficient Palladium-Catalyzed Route, and Pharmacological Studies. Journal of Medicinal Chemistry, 2005, 48, 1705-1708.	6.4	37
66	Pyrrolo[1,5]benzoxa(thia)zepines as a New Class of Potent Apoptotic Agents. Biological Studies and Identification of an Intracellular Location of Their Drug Target. Journal of Medicinal Chemistry, 2005, 48, 4367-4377.	6.4	53
67	Specific Targeting of Hepatitis C Virus NS3 RNA Helicase. Discovery of the Potent and Selective Competitive Nucleotide-Mimicking Inhibitor QU663. Biochemistry, 2005, 44, 9637-9644.	2.5	71
68	Development of Molecular Probes for the Identification of Extra Interaction Sites in the Mid-Gorge and Peripheral Sites of Butyrylcholinesterase (BuChE). Rational Design of Novel, Selective, and Highly Potent BuChE Inhibitorsâ€. Journal of Medicinal Chemistry, 2005, 48, 1919-1929.	6.4	65
69	Specific Targeting Highly Conserved Residues in the HIV-1 Reverse Transcriptase Primer Grip Region. Design, Synthesis, and Biological Evaluation of Novel, Potent, and Broad Spectrum NNRTIs with Antiviral Activity. Journal of Medicinal Chemistry, 2005, 48, 7153-7165.	6.4	43
70	Benzoxepin-Derived Estrogen Receptor Modulators:Â A Novel Molecular Scaffold for the Estrogen Receptor. Journal of Medicinal Chemistry, 2004, 47, 5612-5615.	6.4	48
71	Pyrrolo[1,3]benzothiazepine-Based Serotonin and Dopamine Receptor Antagonists. Molecular Modeling, Further Structureâ'Activity Relationship Studies, and Identification of Novel Atypical Antipsychotic Agents. Journal of Medicinal Chemistry, 2004, 47, 143-157.	6.4	60
72	Substrate inhibitors and blockers of excitatory amino acid transporters in the treatment of neurodegeneration: critical considerations. European Journal of Pharmacology, 2003, 479, 291-296.	3.5	18

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73	A palladium-catalyzed synthetic approach to new Huperzine A analogues modified at the pyridone ring. Tetrahedron, 2003, 59, 87-93.	1.9	15
74	Synthesis and Pharmacological Evaluation of Potent and Highly Selective D3 Receptor Ligands:â€‰ Inhibition of Cocaine-Seeking Behavior and the Role of Dopamine D3/D2 Receptors. Journal of Medicinal Chemistry, 2003, 46, 3822-3839.	6.4	90
75	Specific Targeting of Acetylcholinesterase and Butyrylcholinesterase Recognition Sites. Rational Design of Novel, Selective, and Highly Potent Cholinesterase Inhibitors. Journal of Medicinal Chemistry, 2003, 46, 1-4.	6.4	157
76	Simplakidine A, a Unique Pyridinium Alkaloid from the Caribbean SpongePlakortis simplexâ€. Organic Letters, 2003, 5, 673-676.	4.6	27
77	Oligonucleotides Containing an Acridine Group Covalently Bonded to the Nucleotide Flanking the 3â€²-3â€² Phosphodiester Junction for Alternate Strand Triple Helix Formation. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1069-1071.	1.1	3
78	Novel antipsychotic agents: recent advances in the drug treatment of schizophrenia. Expert Opinion on Therapeutic Patents, 2003, 13, 425-448.	5.0	6
79	Neuronal High-Affinity Sodium-Dependent Glutamate Transporters (EAATs): Targets for the Development of Novel Therapeutics Against Neurodegenerative Diseases. Current Pharmaceutical Design, 2003, 9, 599-625.	1.9	47
80	Environmental Mimic of Receptor Interaction:â€‰ Conformational Analysis of CCK-15 in Solution. Journal of Medicinal Chemistry, 2002, 45, 762-769.	6.4	18
81	Pyrrolo[1,3]benzothiazepine-Based Atypical Antipsychotic Agents. Synthesis, Structureâ^'Activity Relationship, Molecular Modeling, and Biological Studies. Journal of Medicinal Chemistry, 2002, 45, 344-359.	6.4	36
82	Non-Nucleoside HIV-1 Reverse Transcriptase (RT) Inhibitors: Past, Present, and Future Perspectives. Current Pharmaceutical Design, 2002, 8, 615-657.	1.9	124
83	A Rational Approach to the Design of Selective Substrates and Potent Nontransportable Inhibitors of the Excitatory Amino Acid Transporter EAAC1 (EAAT3). New Glutamate and Aspartate Analogues as Potential Neuroprotective Agents. Journal of Medicinal Chemistry, 2001, 44, 2507-2510.	6.4	54
84	Characterization of the 1H-Cyclopentapyrimidine-2,4(1H,3H)-dione Derivative (S)-CPW399 as a Novel, Potent, and Subtype-Selective AMPA Receptor Full Agonist with Partial Desensitization Properties. Journal of Medicinal Chemistry, 2001, 44, 4501-4504.	6.4	35
85	Novel and potent tacrine-related hetero- and homobivalent ligands for acetylcholinesterase and butyrylcholinesterase. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1779-1782.	2.2	50
86	Assignment of the absolute stereochemistry of oxazinin-1: application of the 9-AMA shift-correlation method for Î²-chiral primary alcohols. Tetrahedron, 2001, 57, 8189-8192.	1.9	18
87	PYRROLO-1,5-BENZOXAZEPINES INDUCE APOPTOSIS IN CHRONIC MYELOID LEUKEMIA (CML) CELLS BY BYPASSING THE APOPTOTIC SUPPRESSOR BCR-ABL. Scientific World Journal, The, 2001, 1, 109-109.	2.1	0
88	Pyrrolo-1,5-benzoxazepines: a new class of apoptotic agents. Biochemical Society Transactions, 2001, 29, 704.	3.4	4
89	Conformational studies on a synthetic C-terminal fragment of the Î± subunit of GS proteins. Biopolymers, 2000, 54, 186-194.	2.4	11
90	Solution Conformation of a Potent Cyclic Analogue of Tuftsin:Â Low-TemperatureÂNuclearÂMagneticÂResonanceÂStudyÂinÂa Cryoprotective Mixture. Journal of Medicinal Chemistry, 1999, 42, 1705-1713.	6.4	4

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91	Synthesis, biological activity and conformational study of 1,4-benzoxazine derivatives as potassium channel modulators. European Journal of Medicinal Chemistry, 1998, 33, 957-967.	5.5	32
92	Construction of a model of the Candida albicans lanosterol 14-Î±-demethylase active site using the homology modelling technique. Pharmaceutica Acta Helvetiae, 1998, 72, 271-277.	1.2	28
93	Use of comparative molecular field analysis and cluster analysis in series design. Pharmaceutica Acta Helvetiae, 1995, 70, 149-154.	1.2	42
94	Shape-Dependent Effects in a Series of Aromatic Nitro Compounds Acting as Mutagenic Agents onS. TyphimuriumTA98. SAR and QSAR in Environmental Research, 1995, 4, 21-27.	2.2	8