

# Caterina Fattorusso

## List of Publications by Year in descending order

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94  
papers

3,272  
citations

94269

37  
h-index

161609

54  
g-index

103  
all docs

103  
docs citations

103  
times ranked

4415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific Targeting of Acetylcholinesterase and Butyrylcholinesterase Recognition Sites. Rational Design of Novel, Selective, and Highly Potent Cholinesterase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 1-4.	2.9	157
2	Histone deacetylase inhibitors in the treatment of cancer: overview and perspectives. <i>Future Medicinal Chemistry</i> , 2012, 4, 1439-1460.	1.1	144
3	Synthesis of N1-arylidene-N2-quinolyl- and N2-acrydinyldhydrazones as potent antimalarial agents active against CQ-resistant <i>P. falciparum</i> strains. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 5384-5388.	1.0	142
4	Paclitaxel Directly Binds to Bcl-2 and Functionally Mimics Activity of Nur77. <i>Cancer Research</i> , 2009, 69, 6906-6914.	0.4	142
5	Non-Nucleoside HIV-1 Reverse Transcriptase (RT) Inhibitors: Past, Present, and Future Perspectives. <i>Current Pharmaceutical Design</i> , 2002, 8, 615-657.	0.9	124
6	The Seco-Taxane IDN5390 Is Able to Target Class III $\beta$ -Tubulin and to Overcome Paclitaxel Resistance. <i>Cancer Research</i> , 2005, 65, 2397-2405.	0.4	108
7	Synthesis and Pharmacological Evaluation of Potent and Highly Selective D3 Receptor Ligands: Inhibition of Cocaine-Seeking Behavior and the Role of Dopamine D3/D2 Receptors. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 3822-3839.	2.9	90
8	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. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 151-169.	2.9	79
9	Design, Synthesis, and Structure-Activity Relationship Studies of 4-Quinoliny- and 9-Acrydinyldhydrazones as Potent Antimalarial Agents. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1333-1343.	2.9	73
10	Specific Targeting of Hepatitis C Virus NS3 RNA Helicase. Discovery of the Potent and Selective Competitive Nucleotide-Mimicking Inhibitor QU663. <i>Biochemistry</i> , 2005, 44, 9637-9644.	1.2	71
11	Endoperoxide Derivatives from Marine Organisms: 1,2-Dioxanes of the Plakortin Family as Novel Antimalarial Agents. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 7088-7094.	2.9	66
12	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 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 1919-1929.	2.9	65
13	Pyrrolo[1,3]benzothiazepine-Based Serotonin and Dopamine Receptor Antagonists. Molecular Modeling, Further Structure-Activity Relationship Studies, and Identification of Novel Atypical Antipsychotic Agents. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 143-157.	2.9	60
14	Exploiting Protein Fluctuations at the Active-Site Gorge of Human Cholinesterases: Further Optimization of the Design Strategy to Develop Extremely Potent Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 3154-3170.	2.9	56
15	Identification of Tubulin as the Molecular Target of Proapoptotic Pyrrolo-1,5-benzoxazepines. <i>Molecular Pharmacology</i> , 2006, 70, 60-70.	1.0	55
16	Combining 4-Aminoquinoline- and Clotrimazole-Based Pharmacophores toward Innovative and Potent Hybrid Antimalarials. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 502-513.	2.9	55
17	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. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 2507-2510.	2.9	54
18	Manadoperoxides A-D from the Indonesian Sponge <i>Plakortis</i> cfr. <i>simplex</i> . Further Insights on the Structure-Activity Relationships of Simple 1,2-Dioxane Antimalarials. <i>Journal of Natural Products</i> , 2010, 73, 1138-1145.	1.5	54

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19	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. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 4367-4377.	2.9	53
20	Conformational Flexibility in the Peripheral Site of <i>Torpedo californica</i> Acetylcholinesterase Revealed by the Complex Structure with a Bifunctional Inhibitor. <i>Journal of the American Chemical Society</i> , 2006, 128, 4526-4527.	6.6	53
21	Discovery of a new series of jatrophane and lathyrane diterpenes as potent and specific P-glycoprotein modulators. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 1756.	1.5	53
22	Novel and potent tacrine-related hetero- and homobivalent ligands for acetylcholinesterase and butyrylcholinesterase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 1779-1782.	1.0	50
23	Tyr702 Is an Important Determinant of Agonist Binding and Domain Closure of the Ligand-Binding Core of GluR2. <i>Molecular Pharmacology</i> , 2005, 67, 703-713.	1.0	50
24	Discovery of Huperzine A <sup>~</sup> Tacrine Hybrids as Potent Inhibitors of Human Cholinesterases Targeting Their Midgorge Recognition Sites. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 3421-3425.	2.9	50
25	Benzoxepin-Derived Estrogen Receptor Modulators: A Novel Molecular Scaffold for the Estrogen Receptor. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 5612-5615.	2.9	48
26	Neuronal High-Affinity Sodium-Dependent Glutamate Transporters (EAATs): Targets for the Development of Novel Therapeutics Against Neurodegenerative Diseases. <i>Current Pharmaceutical Design</i> , 2003, 9, 599-625.	0.9	47
27	Amygdaloidins A <sup>~</sup> L, twelve new 13 $\hat{\pm}$ -OH jatrophane diterpenes from <i>Euphorbia amygdaloides</i> L.. <i>Tetrahedron</i> , 2005, 61, 4485-4494.	1.0	46
28	Clotrimazole Scaffold as an Innovative Pharmacophore Towards Potent Antimalarial Agents: Design, Synthesis, and Biological and Structure-Activity Relationship Studies. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1278-1294.	2.9	45
29	Oxime Amides as a Novel Zinc Binding Group in Histone Deacetylase Inhibitors: Synthesis, Biological Activity, and Computational Evaluation. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 2165-2182.	2.9	45
30	Artarborol, an $\alpha$ -Caryophyllane Sesquiterpene Alcohol from <i>Artemisia arborescens</i> . Stereostructure Assignment through Concurrence of NMR Data and Computational Analysis. <i>Organic Letters</i> , 2007, 9, 2377-2380.	2.4	44
31	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. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 7153-7165.	2.9	43
32	Use of comparative molecular field analysis and cluster analysis in series design. <i>Pharmaceutica Acta Helveticae</i> , 1995, 70, 149-154.	1.2	42
33	Investigating the Role of T <sub>7</sub> and T <sub>12</sub> Residues on the Biological Properties of Thrombin-Binding Aptamer: Enhancement of Anticoagulant Activity by a Single Nucleobase Modification. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 10716-10728.	2.9	42
34	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. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 7916-7932.	2.9	41
35	Design and Synthesis of Potent Antimalarial Agents Based on Clotrimazole Scaffold: Exploring an Innovative Pharmacophore. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 595-598.	2.9	40
36	Insight into the mechanism of action of plakortins, simple 1,2-dioxane antimalarials. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 846-856.	1.5	39

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37	Specific Targeting of Peripheral Serotonin 5-HT <sub>3</sub> Receptors. Synthesis, Biological Investigation, and Structure-Activity Relationships. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 3548-3562.	2.9	38
38	Novel Atypical Antipsychotic Agents: A Rational Design, an Efficient Palladium-Catalyzed Route, and Pharmacological Studies. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 1705-1708.	2.9	37
39	Pyrrolo[1,3]benzothiazepine-Based Atypical Antipsychotic Agents. Synthesis, Structure-Activity Relationship, Molecular Modeling, and Biological Studies. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 344-359.	2.9	36
40	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. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 4501-4504.	2.9	35
41	Synthesis, biological activity and conformational study of 1,4-benzoxazine derivatives as potassium channel modulators. <i>European Journal of Medicinal Chemistry</i> , 1998, 33, 957-967.	2.6	32
42	Construction of a model of the <i>Candida albicans</i> lanosterol 14 $\alpha$ -demethylase active site using the homology modelling technique. <i>Pharmaceutica Acta Helveticae</i> , 1998, 72, 271-277.	1.2	28
43	Investigating the Neuroprotective Effects of Turmeric Extract: Structural Interactions of $\beta$ -Amyloid Peptide with Single Curcuminoids. <i>Scientific Reports</i> , 2016, 6, 38846.	1.6	28
44	Simplakidine A, a Unique Pyridinium Alkaloid from the Caribbean Sponge <i>Plakortis simplex</i> . <i>Organic Letters</i> , 2003, 5, 673-676.	2.4	27
45	Outstanding effects on antithrombin activity of modified TBA diastereomers containing an optically pure acyclic nucleotide analogue. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 5235-5242.	1.5	27
46	Cationic porphyrins are tunable gatekeepers of the 20S proteasome. <i>Chemical Science</i> , 2016, 7, 1286-1297.	3.7	27
47	Antimalarials based on the dioxane scaffold of plakortin. A concise synthesis and SAR studies. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 312-320.	1.4	26
48	Discovery of Bishomo(hetero)arylpiperazines as Novel Multifunctional Ligands Targeting Dopamine D <sub>3</sub> and Serotonin 5-HT <sub>1A</sub> and 5-HT <sub>2A</sub> Receptors. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 4803-4807.	2.9	25
49	Investigating the Antiparasitic Potential of the Marine Sesquiterpene Avarone, Its Reduced Form Avarol, and the Novel Semisynthetic Thiazinoquinone Analogue Thiazovarone. <i>Marine Drugs</i> , 2020, 18, 112.	2.2	24
50	Stereostructure Assignment of Medium-Sized Rings through an NMR-Computational Combined Approach. Application to the New Germacranes Ketopelenolides C and D. <i>Journal of Natural Products</i> , 2008, 71, 1988-1992.	1.5	23
51	Microwave-assisted synthesis of 4-quinolylhydrazines followed by nickel boride reduction: a convenient approach to 4-aminoquinolines and derivatives. <i>Tetrahedron Letters</i> , 2008, 49, 2074-2077.	0.7	20
52	Endoperoxide polyketides from a Chinese <i>Plakortis simplex</i> : Further evidence of the impact of stereochemistry on antimalarial activity of simple 1,2-dioxanes. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 4572-4580.	1.4	20
53	Assignment of the absolute stereochemistry of oxazin-1: application of the 9-AMA shift-correlation method for $\beta$ -chiral primary alcohols. <i>Tetrahedron</i> , 2001, 57, 8189-8192.	1.0	18
54	Environmental Mimic of Receptor Interaction: Conformational Analysis of CCK-15 in Solution. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 762-769.	2.9	18

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55	Substrate inhibitors and blockers of excitatory amino acid transporters in the treatment of neurodegeneration: critical considerations. <i>European Journal of Pharmacology</i> , 2003, 479, 291-296.	1.7	18
56	Development of piperazine-tethered heterodimers as potent antimalarials against chloroquine-resistant <i>P. falciparum</i> strains. <i>Synthesis and molecular modeling. Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 3535-3539.	1.0	18
57	A New Class of Antimalarial Dioxanes Obtained through a Simple Two-Step Synthetic Approach: Rational Design and Structure-Activity Relationship Studies. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 8526-8540.	2.9	17
58	Investigation of the Bcl-2 multimerisation process: Structural and functional implications. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 850-857.	1.9	17
59	Full relative stereochemistry assignment and conformational analysis of 13,19-didesmethyl spiroside C via NMR- and molecular modeling-based techniques. A step towards understanding spiroside's mechanism of action. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3674.	1.5	16
60	New Anticancer Agents Mimicking Protein Recognition Motifs. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 6666-6680.	2.9	16
61	Marine inspired antiplasmodial thiazinoquinones: synthesis, computational studies and electrochemical assays. <i>RSC Advances</i> , 2015, 5, 70689-70702.	1.7	16
62	A palladium-catalyzed synthetic approach to new Huperzine A analogues modified at the pyridone ring. <i>Tetrahedron</i> , 2003, 59, 87-93.	1.0	15
63	Optimized Synthesis and Antimalarial Activity of 1,2-dioxane-4-carboxamides. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 1607-1614.	1.2	15
64	Exploring the antimalarial potential of the methoxy-thiazinoquinone scaffold: Identification of a new lead candidate. <i>Bioorganic Chemistry</i> , 2019, 85, 240-252.	2.0	15
65	The interaction of heme with plakortin and a synthetic endoperoxide analogue: new insights into the heme-activated antimalarial mechanism. <i>Scientific Reports</i> , 2017, 7, 45485.	1.6	13
66	Covalent Inhibitors of Plasmodium falciparum Glyceraldehyde 3-Phosphate Dehydrogenase with Antimalarial Activity in Vitro. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 590-595.	1.3	13
67	Further optimization of plakortin pharmacophore: Structurally simple 4-oxymethyl-1,2-dioxanes with promising antimalarial activity. <i>European Journal of Medicinal Chemistry</i> , 2013, 70, 875-886.	2.6	12
68	New antimalarial 3-methoxy-1,2-dioxanes: optimization of cellular pharmacokinetics and pharmacodynamics properties by incorporation of amino and N-heterocyclic moieties at C4. <i>RSC Advances</i> , 2015, 5, 72995-73010.	1.7	12
69	Conformational studies on a synthetic C-terminal fragment of the $\hat{\pm}$ subunit of GS proteins. <i>Biopolymers</i> , 2000, 54, 186-194.	1.2	11
70	Insight into the Mechanism of Action of Marine Cytotoxic Thiazinoquinones. <i>Marine Drugs</i> , 2017, 15, 335.	2.2	11
71	GTP is an allosteric modulator of the interaction between the guanylate-binding protein 1 and the prosurvival kinase PIM1. <i>European Journal of Medicinal Chemistry</i> , 2015, 91, 132-144.	2.6	10
72	Electrostatic Map Of Proteasome $\hat{\pm}$ -Rings Encodes The Design of Allosteric Porphyrin-Based Inhibitors Able To Affect 20S Conformation By Cooperative Binding. <i>Scientific Reports</i> , 2017, 7, 17098.	1.6	10

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73	Exploring the Photodynamic Properties of Two Antiproliferative Benzodiazopyrrole Derivatives. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1246.	1.8	10
74	Hybrids between H <sub>2</sub> S-donors and betamethasone 17-valerate or triamcinolone acetonide inhibit mast cell degranulation and promote hyperpolarization of bronchial smooth muscle cells. <i>European Journal of Medicinal Chemistry</i> , 2021, 221, 113517.	2.6	10
75	Shape-Dependent Effects in a Series of Aromatic Nitro Compounds Acting as Mutagenic Agents on <i>S. Typhimurium</i> TA98. SAR and QSAR in Environmental Research, 1995, 4, 21-27.	1.0	8
76	Thiazinoquinones as New Promising Multistage Schistosomicidal Compounds Impacting <i>Schistosoma mansoni</i> and Egg Viability. <i>ACS Infectious Diseases</i> , 2020, 6, 124-137.	1.8	8
77	Use of Integrated Computational Approaches in the Search for New Therapeutic Agents. <i>Molecular Informatics</i> , 2016, 35, 309-325.	1.4	7
78	Tetra-substituted pyrrole derivatives act as potent activators of p53 in melanoma cells. <i>Investigational New Drugs</i> , 2020, 38, 634-649.	1.2	7
79	Cooperative Binding of the Cationic Porphyrin Tris-T4 Enhances Catalytic Activity of 20S Proteasome Unveiling a Complex Distribution of Functional States. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7190.	1.8	7
80	From Protein Communication to Drug Discovery. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 2019-2031.	1.0	7
81	Novel antipsychotic agents: recent advances in the drug treatment of schizophrenia. <i>Expert Opinion on Therapeutic Patents</i> , 2003, 13, 425-448.	2.4	6
82	Selective targeting of the HIV-1 reverse transcriptase catalytic complex through interaction with the $\alpha$ -primer grip-region by pyrrolobenzoxazinone non-nucleoside inhibitors correlates with increased activity towards drug-resistant mutants. <i>Biochemical Pharmacology</i> , 2008, 76, 156-168.	2.0	6
83	New Insights into the Structure-Activity Relationship and Neuroprotective Profile of Benzodiazepinone Derivatives of <i>Neurounina-1</i> as Modulators of the Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger Isoforms. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 17901-17919.	2.9	6
84	Solution Conformation of a Potent Cyclic Analogue of Tuftsin: A Low-Temperature Nuclear Magnetic Resonance Study in a Cryoprotective Mixture. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 1705-1713.	2.9	4
85	Pyrrolo-1,5-benzoxazepines: a new class of apoptotic agents. <i>Biochemical Society Transactions</i> , 2001, 29, 704-6.	1.6	4
86	Oligonucleotides Containing an Acridine Group Covalently Bonded to the Nucleotide Flanking the 3 <sup>′</sup> -3 <sup>′</sup> Phosphodiester Junction for Alternate Strand Triple Helix Formation. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1069-1071.	0.4	3
87	Antiplasmodial Activity of p-Substituted Benzyl Thiazinoquinone Derivatives and Their Potential against Parasitic Infections. <i>Molecules</i> , 2020, 25, 1530.	1.7	3
88	Benzodiazepine Scaffold as Drug-like Molecular Simplification of FR235222: A Chemical Tool for Exploring HDAC Inhibition. <i>Current Topics in Medicinal Chemistry</i> , 2016, 17, 441-459.	1.0	3
89	Silybins are stereospecific regulators of the 20S Proteasome. <i>Bioorganic and Medicinal Chemistry</i> , 2022, 66, 116813.	1.4	3
90	Editorial (Thematic Issue: Protein Interfaces as Targets in Drug Discovery). <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 2003-2004.	1.0	0

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91	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.	0.9	0
92	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.	0.8	0
93	Abstract C231: A great mime produced by nature: The case of paclitaxel. , 2009, , .		0
94	Modulation of the 20S Proteasome Activity by Porphyrin Derivatives Is Steered through Their Charge Distribution. Biomolecules, 2022, 12, 741.	1.8	0