Marco De Amici

List of Publications by Year in descending order

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96	2,307	236925	265206
papers	citations	25	42
		h-index	g-index

99	99	99	2188
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dualsteric GPCR targeting: a novel route to binding and signaling pathway selectivity. FASEB Journal, 2009, 23, 442-450.	0.5	140
2	The allosteric vestibule of a seven transmembrane helical receptor controls G-protein coupling. Nature Communications, 2012, 3, 1044.	12.8	117
3	Rational design of dualsteric GPCR ligands: quests and promise. British Journal of Pharmacology, 2010, 159, 997-1008.	5.4	103
4	Allosteric ligands for G protein-coupled receptors: A novel strategy with attractive therapeutic opportunities. Medicinal Research Reviews, 2010, 30, 463-549.	10.5	88
5	Chemoenzymatic synthesis of chiral isoxazole derivatives. Journal of Organic Chemistry, 1989, 54, 2646-2650.	3.2	81
6	synthesis of new Î" 2 -isoxazoline derivatives and their pharmacological characterization as Î²-adrenergic receptor antagonists. Bioorganic and Medicinal Chemistry, 1998, 6, 401-408.	3.0	81
7	Nitrile oxides in medicinal chemistry-2. synthesis of the two enantiomers of dihydromuscimol. Tetrahedron, 1990, 46, 1975-1986.	1.9	79
8	Involvement of Î±7 nAChR subtype in rat oxaliplatin-induced neuropathy: Effects of selective activation. Neuropharmacology, 2014, 79, 37-48.	4.1	75
9	Design, Synthesis, and Action of Oxotremorine-Related Hybrid-Type Allosteric Modulators of Muscarinic Acetylcholine Receptors. Journal of Medicinal Chemistry, 2006, 49, 366-372.	6.4	71
10	Ligand Binding Ensembles Determine Graded Agonist Efficacies at a G Protein-coupled Receptor. Journal of Biological Chemistry, 2016, 291, 16375-16389.	3.4	67
11	Chemoenzymic synthesis of the eight stereoisomeric muscarines. Journal of Organic Chemistry, 1991, 56, 67-72.	3.2	56
12	Dynamic ligand binding dictates partial agonism at a G proteinâ€"coupled receptor. Nature Chemical Biology, 2014, 10, 18-20.	8.0	45
13	Synthesis and functional characterization of novel derivatives related to oxotremorine and oxotremorine-M. Bioorganic and Medicinal Chemistry, 1999, 7, 1539-1547.	3.0	43
14	Synthesis, Binding Affinity at Glutamic Acid Receptors, Neuroprotective Effects, and Molecular Modeling Investigation of Novel Dihydroisoxazole Amino Acids. Journal of Medicinal Chemistry, 2005, 48, 6315-6325.	6.4	43
15	Synthesis and Enantiopharmacology of New AMPA-Kainate Receptor Agonists. Journal of Medicinal Chemistry, 1999, 42, 4099-4107.	6.4	42
16	Neuroprotective Effects of the Novel Glutamate Transporter Inhibitor (â€")-3-Hydroxy-4,5,6,6a-tetrahydro-3aH-pyrrolo[3,4-d]-isoxazole-4-carboxylic Acid, Which Preferentially Inhibits Reverse Transport (Glutamate Release) Compared with Glutamate Reuptake. Journal of Pharmacology and Experimental Therapeutics, 2008, 326, 646-656.	2.5	36
17	Alpha7 nicotinic acetylcholine receptor agonists: Prediction of their binding affinity through a molecular mechanics Poissonâ€"Boltzmann surface area approach. Journal of Computational Chemistry, 2008, 29, 2593-2602.	3.3	35
18	Design, Synthesis, and Pharmacological Characterization of Novel Spirocyclic Quinuclidinylâ€Î"²â€isoxazoline Derivatives as Potent and Selective Agonists of Î±7 Nicotinic Acetylcholine Receptors. ChemMedChem, 2011, 6, 889-903.	3.2	32

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19	Engineering of Î±â€conotoxin MIIâ€derived peptides with increased selectivity for native Î±6Î²2 â^— nicotinic acetylcholine receptors. FASEB Journal, 2011, 25, 3775-3789.	0.5	32
20	Synthesis and Pharmacological Characterization at Glutamate Receptors of the Four Enantiopure Isomers of Tricholomic Acid. Journal of Medicinal Chemistry, 2008, 51, 2311-2315.	6.4	30
21	Inactivation of TEM-1 by Avibactam (NXL-104): Insights from Quantum Mechanics/Molecular Mechanics Metadynamics Simulations. Biochemistry, 2014, 53, 5174-5185.	2.5	30
22	Design of novel Î±7-subtype-preferring nicotinic acetylcholine receptor agonists: Application of docking and MM-PBSA computational approaches, synthetic and pharmacological studies. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6353-6357.	2.2	29
23	Epiboxidine and novel-related analogues: A convenient synthetic approach and estimation of their affinity at neuronal nicotinic acetylcholine receptor subtypes. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 4651-4654.	2.2	28
24	Synthesis of new bicyclic analogues of glutamic acid. Tetrahedron, 1999, 55, 5623-5634.	1.9	26
25	A combinatorial biocatalysis approach to an array of cholic acid derivatives. Biotechnology and Bioengineering, 2003, 81, 391-396.	3.3	26
26	Synthesis and Anticonvulsant Activity of Novel Bicyclic Acidic Amino Acids. Journal of Medicinal Chemistry, 2003, 46, 3102-3108.	6.4	26
27	Bis(ammonio)alkane-type agonists of muscarinic acetylcholine receptors: Synthesis, inÂvitro functional characterization, and inÂvivo evaluation of their analgesic activity. European Journal of Medicinal Chemistry, 2014, 75, 222-232.	5.5	25
28	Determination of Acid Dissociation Constants of Compounds Active at Neuronal Nicotinic Acetylcholine Receptors by Means of Electrophoretic and Potentiometric Techniques. Analytical Sciences, 2010, 26, 51-54.	1.6	23
29	Synthesis and pharmacological investigation of the enantiomers of muscarone and allo-muscarone. Journal of Medicinal Chemistry, 1992, 35, 1915-1920.	6.4	22
30	Nitrile oxides in medicinal chemistry. 5. Lipase PS-catalyzed resolution of a set of heterocyclic derivatives.. Tetrahedron: Asymmetry, 1993, 4, 1063-1072.	1.8	22
31	New analogues of oxotremorine and oxotremorine-M. Life Sciences, 2000, 67, 717-723.	4.3	22
32	Enantiopure stereoisomeric homologues of glutamic acid: chemoenzymatic synthesis and assignment of their absolute configurations. Tetrahedron: Asymmetry, 2004, 15, 3079-3090.	1.8	22
33	Design, Synthesis, and Pharmacological Characterization of Novel, Potent NMDA Receptor Antagonists. Journal of Medicinal Chemistry, 2004, 47, 6740-6748.	6.4	22
34	Novel chiral isoxazole derivatives: Synthesis and pharmacological characterization at human Î²-adrenergic receptor subtypes. Bioorganic and Medicinal Chemistry, 2007, 15, 2533-2543.	3.0	22
35	Synthesis of enantiomerically pure HIP-A and HIP-B and investigation of their activity as inhibitors of excitatory amino acid transporters. Tetrahedron: Asymmetry, 2008, 19, 867-875.	1.8	22
36	Synthesis and pharmacological investigation of cholinergic ligands structurally related to muscarone. European Journal of Medicinal Chemistry, 1989, 24, 171-177.	5.5	21

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37	Synthesis of 3-Hydroxy- and 3-Carboxy-Î”2-isoxazoline Amino Acids and Evaluation of Their Interaction with GABA Receptors and Transporters. European Journal of Organic Chemistry, 2006, 2006, 5533-5542.	2.4	19
38	Activation of M2 muscarinic acetylcholine receptors by a hybrid agonist enhances cytotoxic effects in GB7 glioblastoma cancer stem cells. Neurochemistry International, 2018, 118, 52-60.	3.8	19
39	Metal-hydride reduction of isoxazoline-3-carboxylate esters. Tetrahedron, 1986, 42, 5267-5272.	1.9	18
40	Evidence for specific analgesic activity of a muscarinic agonist selected among a new series of acetylenic derivatives. Life Sciences, 2001, 68, 1775-1785.	4.3	18
41	Synthesis and pharmacological characterization at glutamate receptors of erythro- and threo-tricholomic acid and homologues thereof. Tetrahedron, 2007, 63, 2249-2256.	1.9	18
42	Chemoenzymatic synthesis of the enantiomers of desoxymuscarine. Tetrahedron: Asymmetry, 1998, 9, 657-665.	1.8	16
43	Synthesis and biological evaluation of new amino acids structurally related to the antitumor agent acivicin. Il Farmaco, 2003, 58, 683-690.	0.9	16
44	Novel tricyclic Î”2-isoxazoline and 3-oxo-2-methyl-isoxazolidine derivatives: Synthesis and binding affinity at neuronal nicotinic acetylcholine receptor subtypes. Bioorganic and Medicinal Chemistry, 2010, 18, 4498-4508.	3.0	16
45	New insight into active muscarinic receptors with the novel radioagonist [3H]iperoxo. Biochemical Pharmacology, 2014, 90, 307-319.	4.4	16
46	Synthesis and Pharmacological Characterization of Enantiomerically Pure Muscarinic Agonists:â€‰Difluoromuscarines. Journal of Medicinal Chemistry, 1997, 40, 1099-1103.	6.4	15
47	Synthesis of enantiopure Î”2-isoxazoline derivatives and evaluation of their affinity and efficacy profiles at human Î²-adrenergic receptor subtypes. Bioorganic and Medicinal Chemistry, 2006, 14, 4393-4401.	3.0	15
48	Ligand-Specific Allosteric Coupling Controls G-Protein-Coupled Receptor Signaling. ACS Pharmacology and Translational Science, 2020, 3, 859-867.	4.9	15
49	Stereoselectivities of mesitonitrile oxide cycloadditions to 7-substituted norbornadienes. Tetrahedron Letters, 1989, 30, 807-810.	1.4	14
50	Synthesis of Epibatidine-Related Î”2-Isoxazoline Derivatives and Evaluation of Their Binding Affinity at Neuronal Nicotinic Acetylcholine Receptors. European Journal of Organic Chemistry, 2006, 2006, 3746-3754.	2.4	14
51	On the selection of an opioid for local skin analgesia: Structure-skin permeability relationships. International Journal of Pharmaceutics, 2015, 489, 177-185.	5.2	14
52	Modification of the anabaseine pyridine nucleus allows achieving binding and functional selectivity for the Î±3Î²4 nicotinic acetylcholine receptor subtype. European Journal of Medicinal Chemistry, 2016, 108, 392-405.	5.5	14
53	The novel hybrid agonist HyNDA-1 targets the D3R-nAChR heteromeric complex in dopaminergic neurons. Biochemical Pharmacology, 2019, 163, 154-168.	4.4	14
54	New Analogues of Epiboxidine Incorporating the 4,5â€Dihydroisoxazole Nucleus: Synthesis, Binding Affinity at Neuronal Nicotinic Acetylcholine Receptors, and Molecular Modeling Investigations. Chemistry and Biodiversity, 2009, 6, 244-259.	2.1	13

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55	Synthesis of novel chiral Î”2-isoxazoline derivatives related to ABT-418 and estimation of their affinity at neuronal nicotinic acetylcholine receptor subtypes. European Journal of Medicinal Chemistry, 2010, 45, 5594-5601.	5.5	13
56	Insight into the Mechanism of Hydrolysis of Meropenem by OXA-23 Serine-Î²-lactamase Gained by Quantum Mechanics/Molecular Mechanics Calculations. Biochemistry, 2016, 55, 5191-5200.	2.5	13
57	A New Molecular Mechanism To Engineer Protean Agonism at a G Proteinâ€“Coupled Receptor. Molecular Pharmacology, 2017, 91, 348-356.	2.3	13
58	Synthesis and pharmacological investigation of stereoisomeric muscarines. Chirality, 1992, 4, 230-239.	2.6	12
59	Allosteric Modulators and Selective Agonists of Muscarinic Receptors. Journal of Molecular Neuroscience, 2006, 30, 165-168.	2.3	12
60	New spirocyclic Î”2-isoxazoline derivatives related to selective agonists of Î±7 neuronal nicotinic acetylcholine receptors. European Journal of Medicinal Chemistry, 2011, 46, 5790-5799.	5.5	12
61	Bifunctional compounds targeting both D2 and non-Î±7 nACh receptors: Design, synthesis and pharmacological characterization. European Journal of Medicinal Chemistry, 2015, 101, 367-383.	5.5	12
62	In vivo and in vitro ADMET profiling and in vivo pharmacodynamic investigations of a selective Î±7 nicotinic acetylcholine receptor agonist with a spirocyclic Î” 2 -isoxazoline molecular skeleton. European Journal of Pharmacology, 2018, 820, 265-273.	3.5	12
63	Design, synthesis, and electrophysiological evaluation of NS6740 derivatives: Exploration of the structure-activity relationship for alpha7 nicotinic acetylcholine receptor silent activation. European Journal of Medicinal Chemistry, 2020, 205, 112669.	5.5	12
64	Synthesis of hentriacontane-14,16-dione, a Î²-diketone found in plant waxes. Journal of the Chemical Society Chemical Communications, 1978, .	2.0	11
65	Nitrile oxides in medicinal chemistry. 6. Enzymatic resolution of a set of bicyclic Î”2-isoxazolines. Tetrahedron: Asymmetry, 1996, 7, 787-796.	1.8	11
66	Synthesis and Pharmacology of a New AMPAâˆ’Kainate Receptor Agonist with Potent Convulsant Activity. Journal of Medicinal Chemistry, 1998, 41, 3759-3762.	6.4	11
67	Design of novel conformationally restricted analogues of glutamic acid. Tetrahedron, 2003, 59, 1443-1452.	1.9	11
68	Synthesis and binding affinity at Î±4Î²2 and Î±7 nicotinic acetylcholine receptors of new analogs of epibatidine and epiboxidine containing the 7-azabicyclo[2.2.1]hept-2-ene ring system. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 829-832.	2.2	11
69	Allosteric Modulation of Alpha7 Nicotinic Receptors: Mechanistic Insight through Metadynamics and Essential Dynamics. Journal of Chemical Information and Modeling, 2015, 55, 2528-2539.	5.4	11
70	Novel bipharmacophoric inhibitors of the cholinesterases with affinity to the muscarinic receptors M₁and M₂. MedChemComm, 2017, 8, 1346-1359.	3.4	10
71	Tacrine-xanomeline and tacrine-iperoxo hybrid ligands: Synthesis and biological evaluation at acetylcholinesterase and M1 muscarinic acetylcholine receptors. Bioorganic Chemistry, 2020, 96, 103633.	4.1	10
72	Chemoenzymatic synthesis of acetyl (R)-(+)- and (S)-(âˆ’)-cycloserine. Tetrahedron: Asymmetry, 1993, 4, 1073-1080.	1.8	9

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73	Chiral separation of muscarinic antagonists by capillary zone electrophoresis with cyclodextrin additives. Journal of Chromatography A, 1996, 741, 287-294.	3.7	9
74	Synthesis and in vitro pharmacology of novel heterocyclic muscarinic ligands. Il Farmaco, 2003, 58, 739-748.	0.9	9
75	Development of a Three-Dimensional Model for theN-Methyl-d-aspartate NR2A Subunit. Journal of Medicinal Chemistry, 2005, 48, 5489-5494.	6.4	9
76	Novel 5-(quinuclidin-3-ylmethyl)-1,2,4-oxadiazoles to investigate the activation of the Î±7 nicotinic acetylcholine receptor subtype: Synthesis and electrophysiological evaluation. European Journal of Medicinal Chemistry, 2018, 160, 207-228.	5.5	9
77	Synthesis and binding affinity of new muscarinic ligands structurally related to oxotremorine. Bioorganic and Medicinal Chemistry Letters, 1997, 7, 1033-1036.	2.2	8
78	A chemoenzymatic approach to the synthesis of the stereoisomers of a Î²-adrenergic receptor antagonist. Tetrahedron: Asymmetry, 2000, 11, 2741-2751.	1.8	8
79	Novel oxotremorine-related heterocyclic derivatives: Synthesis and in vitro pharmacology at the muscarinic receptor subtypes. Bioorganic and Medicinal Chemistry, 2007, 15, 7626-7637.	3.0	8
80	The Combined Treatment with Chemotherapeutic Agents and the Dualsteric Muscarinic Agonist Iper-8-Naphthalimide Affects Drug Resistance in Glioblastoma Stem Cells. Cells, 2021, 10, 1877.	4.1	8
81	A novel spirocyclic tropanyl-Î”2-isoxazoline derivative enhances citalopram and paroxetine binding to serotonin transporters as well as serotonin uptake. Bioorganic and Medicinal Chemistry, 2012, 20, 6344-6355.	3.0	7
82	Investigating the hydrogen-bond acceptor site of the nicotinic pharmacophore model: a computational and experimental study using epibatidine-related molecular probes. Journal of Computer-Aided Molecular Design, 2013, 27, 975-987.	2.9	7
83	The Mechanisms Mediated by Î±7 Acetylcholine Nicotinic Receptors May Contribute to Peripheral Nerve Regeneration. Molecules, 2021, 26, 7668.	3.8	7
84	Design of Cyclopentaisoxazoline Amino Acids as Conformationally Constrained Agonists at Glutamate Receptors. European Journal of Organic Chemistry, 2003, 2003, 4455-4461.	2.4	6
85	Synthesis and pharmacological characterization of new chiral derivatives of muscarine and allo-muscarine. Il Farmaco, 2000, 55, 535-543.	0.9	5
86	The enantiomers of epiboxidine and of two related analogs: Synthesis and estimation of their binding affinity at Î±4Î²2 and Î±7 neuronal nicotinic acetylcholine receptors. Chirality, 2012, 24, 543-551.	2.6	5
87	A Small Library of 1,2,3â€Triazole Analogs of <scp>CAP</scp>â€55: Synthesis and Binding Affinity at Nicotinic Acetylcholine Receptors. Chemistry and Biodiversity, 2018, 15, e1800210.	2.1	5
88	Synthesis and pharmacological investigation of the 3-analogs of viminol. European Journal of Medicinal Chemistry, 1988, 23, 511-515.	5.5	4
89	Î² 3 -Adrenergic receptor ligands: insight into structureâ€“activity relationships using Monte-Carlo conformational analysis in water. Tetrahedron, 2001, 57, 1849-1855.	1.9	4
90	Further Characterization of the Solid Forms of Iopanoic Acid and its Enantiomers. Archiv Der Pharmazie, 1992, 325, 385-388.	4.1	3

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91	Design of new analogues of glutamic acid with a conformationally restricted structure. Il Farmaco, 2000, 55, 162-164.	0.9	3
92	Novel analgesic agents obtained by molecular hybridization of orthosteric and allosteric ligands. European Journal of Pharmacology, 2020, 876, 173061.	3.5	3
93	Pharmacological profile of enantiomerically pure chiral muscarinic agonists. Life Sciences, 2000, 67, 317-326.	4.3	2
94	Synthesis and characterization of 13C labeled carnosine derivatives for isotope dilution mass spectrometry measurements in biological matrices. Talanta, 2021, 235, 122742.	5.5	2
95	A convenient synthesis of 4-(2-hydroxyethyl)indolin-2-one, a useful intermediate for the preparation of both dopamine receptor agonists and protein kinase inhibitors. Monatshefte FÃ¼r Chemie, 2014, 145, 1139-1144.	1.8	1
96	2020 Italian Special Anniversary Collection: Celebrating NMMC 2019â€‰and 40 Years of the DCFâ€SCI. ChemMedChem, 2021, 16, 303-308.	3.2	1