

# Carlo Matera

## List of Publications by Year in descending order

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46  
papers

1,067  
citations

516710

16  
h-index

434195

31  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1418  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Fast Photoswitchable Molecular Prosthetics Control Neuronal Activity in the Cochlea. <i>Journal of the American Chemical Society</i> , 2022, 144, 9229-9239.  | 13.7 | 3         |
| 2  | Adrenergic Modulation With Photochromic Ligands. <i>Angewandte Chemie</i> , 2021, 133, 3669-3675.   | 2.0  | 5         |
| 3  | Adrenergic Modulation With Photochromic Ligands. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3625-3631.  | 13.8 | 29        |
| 4  | Control of Brain State Transitions with a Photoswitchable Muscarinic Agonist. <i>Advanced Science</i> , 2021, 8, e2005027.  | 11.2 | 8         |
| 5  | Rational Design of Photochromic Analogues of Tricyclic Drugs. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 9259-9270.  | 6.4  | 9         |
| 6  | The Combined Treatment with Chemotherapeutic Agents and the Dualsteric Muscarinic Agonist Iper-8-Naphthalimide Affects Drug Resistance in Glioblastoma Stem Cells. <i>Cells</i> , 2021, 10, 1877.   | 4.1  | 8         |
| 7  | The Mechanisms Mediated by $\alpha 7$ Acetylcholine Nicotinic Receptors May Contribute to Peripheral Nerve Regeneration. <i>Molecules</i> , 2021, 26, 7668.   | 3.8  | 7         |
| 8  | Ligand-Specific Allosteric Coupling Controls G-Protein-Coupled Receptor Signaling. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 859-867.  | 4.9  | 15        |
| 9  | Effects mediated by the $\alpha 7$ nicotinic acetylcholine receptor on cell proliferation and migration in rat adipose-derived stem cells. <i>European Journal of Histochemistry</i> , 2020, 64, .  | 1.5  | 6         |
| 10 | An Azobenzene-Based Single-Component Supramolecular Polymer Responsive to Multiple Stimuli in Water. <i>Journal of the American Chemical Society</i> , 2020, 142, 10069-10078.  | 13.7 | 49        |
| 11 | ICH3, a selective $\alpha 7$ nicotinic acetylcholine receptor agonist, modulates adipocyte inflammation associated with obesity. <i>Journal of Endocrinological Investigation</i> , 2020, 43, 983-993.  | 3.3  | 12        |
| 12 | Novel analgesic agents obtained by molecular hybridization of orthosteric and allosteric ligands. <i>European Journal of Pharmacology</i> , 2020, 876, 173061.  | 3.5  | 3         |
| 13 | Optical Control of Cardiac Function with a Photoswitchable Muscarinic Agonist. <i>Journal of the American Chemical Society</i> , 2019, 141, 7628-7636.  | 13.7 | 52        |
| 14 | Fluorination of Photoswitchable Muscarinic Agonists Tunes Receptor Pharmacology and Photochromic Properties. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 3009-3020.   | 6.4  | 31        |
| 15 | The novel hybrid agonist HyNDA-1 targets the D3R-nAChR heteromeric complex in dopaminergic neurons. <i>Biochemical Pharmacology</i> , 2019, 163, 154-168.   | 4.4  | 14        |
| 16 | Photochromic antifolate for light-activated chemotherapy. , 2019, , .   |      | 1         |
| 17 | In vivo and in vitro ADMET profiling and in vivo pharmacodynamic investigations of a selective $\alpha 7$ nicotinic acetylcholine receptor agonist with a spirocyclic $\alpha 2$ -isoxazoline molecular skeleton. <i>European Journal of Pharmacology</i> , 2018, 820, 265-273. | 3.5  | 12        |
| 18 | Activation of M2 muscarinic acetylcholine receptors by a hybrid agonist enhances cytotoxic effects in GB7 glioblastoma cancer stem cells. <i>Neurochemistry International</i> , 2018, 118, 52-60.   | 3.8  | 19        |

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|----|--|------|-----------|
| 19 | Photoswitchable Antimetabolite for Targeted Photoactivated Chemotherapy. <i>Journal of the American Chemical Society</i> , 2018, 140, 15764-15773.   | 13.7 | 84        |
| 20 | Novel 5-(quinuclidin-3-ylmethyl)-1,2,4-oxadiazoles to investigate the activation of the $\alpha 7$ nicotinic acetylcholine receptor subtype: Synthesis and electrophysiological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2018, 160, 207-228. | 5.5  | 9         |
| 21 | A Small Library of 1,2,3-Triazole Analogs of $\alpha 5$ : Synthesis and Binding Affinity at Nicotinic Acetylcholine Receptors. <i>Chemistry and Biodiversity</i> , 2018, 15, e1800210.   | 2.1  | 5         |
| 22 | A New Molecular Mechanism To Engineer Protean Agonism at a G Protein-Coupled Receptor. <i>Molecular Pharmacology</i> , 2017, 91, 348-356.  | 2.3  | 13        |
| 23 | Identification of $\alpha 7$ Nicotinic Acetylcholine Receptor Silent Agonists Based on the Spirocyclic Quinuclidine <sup>2</sup> -soxazoline Scaffold: Synthesis and Electrophysiological Evaluation. <i>ChemMedChem</i> , 2017, 12, 1335-1348.                  | 3.2  | 15        |
| 24 | Novel bipharmacophoric inhibitors of the cholinesterases with affinity to the muscarinic receptors $M_1$ and $M_2$ . <i>MedChemComm</i> , 2017, 8, 1346-1359.  | 3.4  | 10        |
| 25 | Ligand Binding Ensembles Determine Graded Agonist Efficacies at a G Protein-coupled Receptor. <i>Journal of Biological Chemistry</i> , 2016, 291, 16375-16389.   | 3.4  | 67        |
| 26 | Modification of the anabaseine pyridine nucleus allows achieving binding and functional selectivity for the $\alpha 24$ nicotinic acetylcholine receptor subtype. <i>European Journal of Medicinal Chemistry</i> , 2016, 108, 392-405.                           | 5.5  | 14        |
| 27 | Determination of Acid Dissociation Constants of Poorly Water-Soluble Nicotinic Ligands by Means of Electrophoretic and Potentiometric Techniques. <i>Pharmaceutica Analytica Acta</i> , 2015, 06, .  | 0.2  | 0         |
| 28 | Allosteric Modulation of $\alpha 7$ Nicotinic Receptors: Mechanistic Insight through Metadynamics and Essential Dynamics. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 2528-2539.   | 5.4  | 11        |
| 29 | Bifunctional compounds targeting both $D_2$ and non- $\alpha 7$ nACh receptors: Design, synthesis and pharmacological characterization. <i>European Journal of Medicinal Chemistry</i> , 2015, 101, 367-383.   | 5.5  | 12        |
| 30 | On the selection of an opioid for local skin analgesia: Structure-skin permeability relationships. <i>International Journal of Pharmaceutics</i> , 2015, 489, 177-185.   | 5.2  | 14        |
| 31 | 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. <i>Monatshefte für Chemie</i> , 2014, 145, 1139-1144.                                     | 1.8  | 1         |
| 32 | Bis(ammonio)alkane-type agonists of muscarinic acetylcholine receptors: Synthesis, in vitro functional characterization, and in vivo evaluation of their analgesic activity. <i>European Journal of Medicinal Chemistry</i> , 2014, 75, 222-232.                 | 5.5  | 25        |
| 33 | Involvement of $\alpha 7$ nAChR subtype in rat oxaliplatin-induced neuropathy: Effects of selective activation. <i>Neuropharmacology</i> , 2014, 79, 37-48.  | 4.1  | 75        |
| 34 | Pharmacological Approaches to Targeting Muscarinic Acetylcholine Receptors. <i>Recent Patents on CNS Drug Discovery</i> , 2014, 9, 85-100.   | 0.9  | 29        |
| 35 | Investigating the hydrogen-bond acceptor site of the nicotinic pharmacophore model: a computational and experimental study using epibatidine-related molecular probes. <i>Journal of Computer-Aided Molecular Design</i> , 2013, 27, 975-987.                    | 2.9  | 7         |
| 36 | The allosteric vestibule of a seven transmembrane helical receptor controls G-protein coupling. <i>Nature Communications</i> , 2012, 3, 1044.  | 12.8 | 117       |

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|----|--|------|-----------|
| 37 | A novel spirocyclic tropanyl- $\alpha$ -2-isoxazoline derivative enhances citalopram and paroxetine binding to serotonin transporters as well as serotonin uptake. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 6344-6355.  | 3.0  | 7         |
| 38 | The enantiomers of epiboxidine and of two related analogs: Synthesis and estimation of their binding affinity at $\alpha$ 4 $\beta$ 2 and $\alpha$ 7 neuronal nicotinic acetylcholine receptors. <i>Chirality</i> , 2012, 24, 543-551.   | 2.6  | 5         |
| 39 | Total Syntheses of Anominine and Tubingensin A. <i>Journal of the American Chemical Society</i> , 2012, 134, 8078-8081.  | 13.7 | 120       |
| 40 | Synthesis and binding affinity at $\alpha$ 4 $\beta$ 2 and $\alpha$ 7 nicotinic acetylcholine receptors of new analogs of epibatidine and epiboxidine containing the 7-azabicyclo[2.2.1]hept-2-ene ring system. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 829-832. | 2.2  | 11        |
| 41 | New spirocyclic $\alpha$ -2-isoxazoline derivatives related to selective agonists of $\alpha$ 7 neuronal nicotinic acetylcholine receptors. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 5790-5799.  | 5.5  | 12        |
| 42 | Design, Synthesis, and Pharmacological Characterization of Novel Spirocyclic Quinuclidinyl- $\alpha$ -2-isoxazoline Derivatives as Potent and Selective Agonists of $\alpha$ 7 Nicotinic Acetylcholine Receptors. <i>ChemMedChem</i> , 2011, 6, 889-903.                               | 3.2  | 32        |
| 43 | Novel tricyclic $\alpha$ -2-isoxazoline and 3-oxo-2-methyl-isoxazolidine derivatives: Synthesis and binding affinity at neuronal nicotinic acetylcholine receptor subtypes. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 4498-4508.   | 3.0  | 16        |
| 44 | Synthesis of novel chiral $\alpha$ -2-isoxazoline derivatives related to ABT-418 and estimation of their affinity at neuronal nicotinic acetylcholine receptor subtypes. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 5594-5601.   | 5.5  | 13        |
| 45 | Design of novel $\alpha$ 7-subtype-preferring nicotinic acetylcholine receptor agonists: Application of docking and MM-PBSA computational approaches, synthetic and pharmacological studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6353-6357.                  | 2.2  | 29        |
| 46 | Epiboxidine and novel-related analogues: A convenient synthetic approach and estimation of their affinity at neuronal nicotinic acetylcholine receptor subtypes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 4651-4654.  | 2.2  | 28        |