Antimo Gioiello

List of Publications by Year
in descending order

89 papers	5,009 citations	159573 30 h-index	95259 68 g-index
99 all docs	99 docs citations	99 times ranked	5825 citing authors

#	Article	IF	Citations
1	TGR5-Mediated Bile Acid Sensing Controls Glucose Homeostasis. Cell Metabolism, 2009, 10, 167-177.	16.2	1,465
2	TGR5 Activation Inhibits Atherosclerosis by Reducing Macrophage Inflammation and Lipid Loading. Cell Metabolism, 2011, 14, 747-757.	16.2	469
3	Novel Potent and Selective Bile Acid Derivatives as TGR5 Agonists: Biological Screening, Structureâ^'Activity Relationships, and Molecular Modeling Studies. Journal of Medicinal Chemistry, 2008, 51, 1831-1841.	6.4	259
4	Discovery of 6Î±-Ethyl-23(S)-methylcholic Acid (S-EMCA, INT-777) as a Potent and Selective Agonist for the TGR5 Receptor, a Novel Target for Diabesity. Journal of Medicinal Chemistry, 2009, 52, 7958-7961.	6.4	220
5	Bile Acid Derivatives as Ligands of the Farnesoid X Receptor. Synthesis, Evaluation, and Structureâ^'Activity Relationship of a Series of Body and Side Chain Modified Analogues of Chenodeoxycholic Acid. Journal of Medicinal Chemistry, 2004, 47, 4559-4569.	6.4	166
6	Bile Acids Signal via TGR5 to Activate Intestinal Stem Cells and Epithelial Regeneration. Gastroenterology, 2020, 159, 956-968.e8.	1.3	166
7	The Farnesoid X Receptor Promotes Adipocyte Differentiation and Regulates Adipose Cell Function in Vivo. Molecular Pharmacology, 2006, 70, 1164-1173.	2.3	145
8	Nongenomic Actions of Bile Acids. Synthesis and Preliminary Characterization of 23- and 6,23-Alkyl-Substituted Bile Acid Derivatives as Selective Modulators for the G-Protein Coupled Receptor TGR5. Journal of Medicinal Chemistry, 2007, 50, 4265-4268.	6.4	97
9	The Medicinal Chemistry in the Era of Machines and Automation: Recent Advances in Continuous Flow Technology. Journal of Medicinal Chemistry, 2020, 63, 6624-6647.	6.4	91
10	Progress and challenges of selective Farnesoid X Receptor modulation. , 2018, 191, 162-177.		84
11	Recent advances in urea- and thiourea-containing compounds: focus on innovative approaches in medicinal chemistry and organic synthesis. RSC Medicinal Chemistry, 2021, 12, 1046-1064.	3.9	78
12	Steroids interfere with human carbonic anhydrase activity by using alternative binding mechanisms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1453-1459.	5.2	69
13	Determination of bile salt critical micellization concentration on the road to drug discovery. Journal of Pharmaceutical and Biomedical Analysis, 2014, 87, 62-81.	2.8	65
14	Central anorexigenic actions of bile acids are mediated by TGR5. Nature Metabolism, 2021, 3, 595-603.	11.9	64
15	Building a Sulfonamide Library by Eco-Friendly Flow Synthesis. ACS Combinatorial Science, 2013, 15, 235-239.	3.8	58
16	SARS-CoV2 infection impairs the metabolism and redox function of cellular glutathione. Redox Biology, 2021, 45, 102041.	9.0	58
17	Semisynthetic Bile Acid FXR and TGR5 Agonists: Physicochemical Properties, Pharmacokinetics, and Metabolism in the Rat. Journal of Pharmacology and Experimental Therapeutics, 2014, 350, 56-68.	2.5	52
18	Discovery of Multitarget Antivirals Acting on Both the Dengue Virus NS5-NS3 Interaction and the Host Src/Fyn Kinases. Journal of Medicinal Chemistry, 2015, 58, 4964-4975.	6.4	52

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19	Continuous Flow Synthesis of Thieno[2,3-c]isoquinolin-5(4H)-one Scaffold: A Valuable Source of PARP-1 Inhibitors. Organic Process Research and Development, 2014, 18, 1345-1353.	2.7	50
20	Discovery of 3Î±,7Î±,11Î²-Trihydroxy-6Î±-ethyl-5Î²-cholan-24-oic Acid (TC-100), a Novel Bile Acid as Potent and Highly Selective FXR Agonist for Enterohepatic Disorders. Journal of Medicinal Chemistry, 2016, 59, 9201-9214.	6.4	50
21	Back Door Modulation of the Farnesoid X Receptor:Â Design, Synthesis, and Biological Evaluation of a Series of Side Chain Modified Chenodeoxycholic Acid Derivatives. Journal of Medicinal Chemistry, 2006, 49, 4208-4215.	6.4	46
22	Beyond Bile Acids: Targeting Farnesoid X Receptor (FXR) with Natural and Synthetic Ligands. Current Topics in Medicinal Chemistry, 2014, 14, 2129-2142.	2.1	44
23	Patented TGR5 modulators: a review (2006 â€“ present). Expert Opinion on Therapeutic Patents, 2012, 22, 1399-1414.	5.0	43
24	Achiralâ€“chiral two-dimensional chromatography of free amino acids in milk: A promising tool for detecting different levels of mastitis in cows. Journal of Pharmaceutical and Biomedical Analysis, 2015, 116, 40-46.	2.8	40
25	Extending SAR of bile acids as FXR ligands: Discovery of 23-N-(carbocinnamyloxy)-3Î±,7Î±-dihydroxy-6Î±-ethyl-24-nor-5Î²-cholan-23-amine. Bioorganic and Medicinal Chemistry, 2011, 19, 2650-2658.	3.0	38
26	Probing the Binding Site of Bile Acids in TGR5. ACS Medicinal Chemistry Letters, 2013, 4, 1158-1162.	2.8	36
27	Seleniumâ€Catalyzed Oxacyclization of Alkenoic Acids and Alkenols. Asian Journal of Organic Chemistry, 2017, 6, 988-992.	2.7	36
28	Molecular Dynamics Simulation of the Ligand Binding Domain of Farnesoid X Receptor. Insights into Helix-12 Stability and Coactivator Peptide Stabilization in Response to Agonist Binding. Journal of Medicinal Chemistry, 2005, 48, 3251-3259.	6.4	35
29	Exploring the Synthetic Versatility of the Lewis Acid Induced Decomposition Reaction of Î±-Diazo-Î²-hydroxy Esters. The Case of Ethyl Diazo(3-hydroxy-2-oxo-2,3-dihydro-1H-indol-3-yl)acetate. Journal of Organic Chemistry, 2011, 76, 7431-7437.	3.2	33
30	Avicholic Acid: A Lead Compound from Birds on the Route to Potent TGR5 Modulators. ACS Medicinal Chemistry Letters, 2012, 3, 273-277.	2.8	33
31	Bile Acid Derivatives as Ligands of the Farnesoid X Receptor: Molecular Determinants for Bile Acid Binding and Receptor Modulation. Current Topics in Medicinal Chemistry, 2014, 14, 2159-2174.	2.1	33
32	Concepts and optimization strategies of experimental design in continuous-flow processing. Journal of Flow Chemistry, 2016, 6, 167-180.	1.9	32
33	New one-pot synthesis of pyrazole-5-carboxylates by 1,3-dipole cycloadditions of ethyl diazoacetate with Î±-methylene carbonyl compounds. Tetrahedron Letters, 2009, 50, 5978-5980.	1.4	30
34	Correlation between CMC and chromatographic index: simple and effective evaluation of the hydrophobic/hydrophilic balance of bile acids. Analytical and Bioanalytical Chemistry, 2007, 388, 1681-1688.	3.7	28
35	Computational studies in enantioselective liquid chromatography: Forty years of evolution in docking- and molecular dynamics-based simulations. TrAC - Trends in Analytical Chemistry, 2020, 122, 115703.	11.4	28
36	Concepts and Molecular Aspects in the Polypharmacology of PARPâ€1 Inhibitors. ChemMedChem, 2016, 11, 1219-1226.	3.2	27

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37	Garcinoic Acid Is a Natural and Selective Agonist of Pregnane X Receptor. Journal of Medicinal Chemistry, 2020, 63, 3701-3712.	6.4	27
38	<scp>Endoplasmic reticulum</scp> stress and <scp>NFâ€ºB</scp> activation in <scp>SARSâ€CoV</scp>â€2 infected cells and their response to antiviral therapy. IUBMB Life, 2022, 74, 93-100.	3.4	26
39	Exploiting Chemical Toolboxes for the Expedited Generation of Tetracyclic Quinolines as a Novel Class of PXR Agonists. ACS Medicinal Chemistry Letters, 2019, 10, 677-681.	2.8	25
40	Indium triflate catalyzed reaction of diisopropyl diazomethylphosphonate with imines as a new approach to cis- and trans-aziridine-2-phosphonates. Tetrahedron Letters, 2007, 48, 4911-4914.	1.4	24
41	The glucocorticoid mometasone furoate is a novel FXR ligand that decreases inflammatory but not metabolic gene expression. Scientific Reports, 2015, 5, 14086.	3.3	24
42	Integrating multicomponent flow synthesis and computational approaches for the generation of a tetrahydroquinoline compound based library. MedChemComm, 2016, 7, 439-446.	3.4	24
43	Lead Discovery of Dual G-Quadruplex Stabilizers and Poly(ADP-ribose) Polymerases (PARPs) Inhibitors: A New Avenue in Anticancer Treatment. Journal of Medicinal Chemistry, 2017, 60, 3626-3635.	6.4	24
44	Molecular Field Analysis and 3D-Quantitative Structureâ^'Activity Relationship Study (MFA 3D-QSAR) Unveil Novel Features of Bile Acid Recognition at TGR5. Journal of Chemical Information and Modeling, 2008, 48, 1792-1801.	5.4	23
45	Derived chromatographic indices as effective tools to study the self-aggregation process of bile acids. Journal of Pharmaceutical and Biomedical Analysis, 2009, 50, 613-621.	2.8	23
46	Continuous flow synthesis and scale-up of glycine- and taurine-conjugated bile salts. Organic and Biomolecular Chemistry, 2012, 10, 4109.	2.8	22
47	First General Approach to Cyclohex-3-ene-1,1-bis(phosphonates) by Dielsâ^'Alder Cycloaddition of Tetraethyl Vinylidenebis(phosphonate) to 1,3-Dienes. Journal of Organic Chemistry, 2003, 68, 736-742.	3.2	20
48	Chromatographic separation of free dafachronic acid epimers with a novel triazole click quinidine-based chiral stationary phase. Journal of Chromatography A, 2014, 1339, 96-102.	3.7	20
49	BF3Â·Et2O-Induced Decomposition of Ethyl 2-Diazo-3-hydroxy-3,3-diarylpropanoates in Acetonitrile: A Novel Approach to 2,3-Diaryl Î²-Enamino Ester Derivatives. Journal of Organic Chemistry, 2009, 74, 3520-3523.	3.2	19
50	Glucuronidation of bile acids under flow conditions: design of experiments and Koenigsâ€"Knorr reaction optimization. Organic and Biomolecular Chemistry, 2014, 12, 9592-9600.	2.8	18
51	Selective continuous flow synthesis of hydroxy lactones from alkenoic acids. Reaction Chemistry and Engineering, 2017, 2, 467-471.	3.7	18
52	Garcinoic acid prevents Î²-amyloid (AÎ²) deposition in the mouse brain. Journal of Biological Chemistry, 2020, 295, 11866-11876.	3.4	18
53	Discovery and characterization of novel potent PARP-1 inhibitors endowed with neuroprotective properties: From TIQ-A to HYDAMTIQ. MedChemComm, 2011, 2, 559.	3.4	17
54	Divergent and stereoselective synthesis of dafachronic acids. Tetrahedron, 2011, 67, 1924-1929.	1.9	17

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55	Flow synthesis and biological activity of aryl sulfonamides as selective carbonic anhydrase IX and XII inhibitors. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 3422-3425.	2.2	17
56	Novel stereoselective synthesis and chromatographic evaluation of E-guggulsterone. Steroids, 2012, 77, 250-254.	1.8	16
57	Multiclass screening method to detect more than fifty banned substances in bovine bile and urine. Analytica Chimica Acta, 2018, 1032, 56-67.	5.4	16
58	Investigating the allosteric reverse signalling of PARP inhibitors with microsecond molecular dynamic simulations and fluorescence anisotropy. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1765-1772.	2.3	15
59	Tandem Mass Spectrometric Determination of Atypical 3Î²-Hydroxy-Î”5-Bile Acids in Patients with 3Î²-Hydroxy-Î”5-C27-Steroid Oxidoreductase Deficiency: Application to Diagnosis and Monitoring of Bile Acid Therapeutic Response. Clinical Chemistry, 2015, 61, 955-963.	3.2	15
60	HPLC/ELSD analysis of amidated bile acids: An effective and rapid way to assist continuous flow chemistry processes. Talanta, 2012, 100, 364-371.	5.5	14
61	Synthesis, physicochemical properties, and biological activity of bile acids 3-glucuronides: Novel insights into bile acid signalling and detoxification. European Journal of Medicinal Chemistry, 2018, 144, 349-358.	5.5	14
62	D-leucine microparticles as an excipient to improve the aerosolization performances of dry powders for inhalation. European Journal of Pharmaceutical Sciences, 2019, 130, 54-64.	4.0	14
63	How Aging and Oxidative Stress Influence the Cytopathic and Inflammatory Effects of SARS-CoV-2 Infection: The Role of Cellular Glutathione and Cysteine Metabolism. Antioxidants, 2022, 11, 1366.	5.1	14
64	Fast chromatographic determination of the bile salt critical micellar concentration. Analytical and Bioanalytical Chemistry, 2011, 401, 267-274.	3.7	13
65	Synthesis and Structure-Activity Relationships of Amino Acid Conjugates of Cholanic Acid as Antagonists of the EphA2 Receptor. Molecules, 2013, 18, 13043-13060.	3.8	13
66	Continuous Flow Synthesis of 16-Dehydropregnenolone Acetate, a Key Synthon for Natural Steroids and Drugs. Organic Process Research and Development, 2018, 22, 600-607.	2.7	13
67	Selected cholesterol biosynthesis inhibitors produce accumulation of the intermediate FF-MAS that targets nucleus and activates LXRÎ± in HepG2 cells. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 842-852.	2.4	12
68	Improved chromatographic diastereoresolution of cyclopropyl dafachronic acid derivatives using chiral anion exchangers. Journal of Chromatography A, 2018, 1557, 20-27.	3.7	12
69	Potential therapeutic applications of farnesoid X receptor (FXR) modulators. Expert Opinion on Therapeutic Patents, 2006, 16, 333-341.	5.0	10
70	Synthesis of atypical bile acids for use as investigative tools for the genetic defect of 3Î²-hydroxy-Î”5-C27-steroid oxidoreductase deficiency. Journal of Steroid Biochemistry and Molecular Biology, 2014, 144, 348-360.	2.5	10
71	Sideâ€chain modified bile acids: chromatographic separation of 23â€methyl epimers. Journal of Separation Science, 2009, 32, 2022-2033.	2.5	9
72	Thermal and catalytic reactions of ethyl diazopyruvate with [60]fullerene. Tetrahedron, 2010, 66, 7329-7332.	1.9	9

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73	Conformational properties of cholic acid, a lead compound at the crossroads of bile acid inspired drug discovery. MedChemComm, 2014, 5, 750-757.	3.4	9
74	Enantioselective HPLC Analysis to Assist the Chemical Exploration of Chiral Imidazolines. Molecules, 2020, 25, 640.	3.8	8
75	Synthesis and Quantitative Structure-Property Relationships of Side Chain-Modified Hyodeoxycholic Acid Derivatives. Molecules, 2013, 18, 10497-10513.	3.8	6
76	Weak Microbial Metabolites: a Treasure Trove for Using Biomimicry to Discover and Optimize Drugs. Molecular Pharmacology, 2020, 98, 343-349.	2.3	6
77	A streamlined synthesis of the neurosteroid 3Î²-methoxypregnenolone assisted by a statistical experimental design and automation. Reaction Chemistry and Engineering, 2020, 5, 300-307.	3.7	5
78	Dissecting the allosteric FXR modulation: a chemical biology approach using guggulsterone as a chemical tool. MedChemComm, 2019, 10, 1412-1419.	3.4	4
79	Effect of a UV-C Automatic Last-Generation Mobile Robotic System on Multi-Drug Resistant Pathogens. International Journal of Environmental Research and Public Health, 2021, 18, 13019.	2.6	4
80	BF3Â·Et2O-Promoted Decomposition of Cyclic Î±-Diazo-Î²-Hydroxy Ketones: Novel Insights into Mechanistic Aspects. Catalysts, 2018, 8, 600.	3.5	3
81	SBA15-supported nano-ruthenium catalyst for the oxidative cleavage of alkenes to aldehydes under flow conditions. Tetrahedron Letters, 2021, 86, 153509.	1.4	3
82	Synthesis and biological activity of cyclopropyl Î”7-dafachronic acids as DAF-12 receptor ligands. Organic and Biomolecular Chemistry, 2021, 19, 5403-5412.	2.8	2
83	Compact Miniaturized Bioluminescence Sensor Based on Continuous Air-Segmented Flow for Real-Time Monitoring: Application to Bile Salt Hydrolase (BSH) Activity and ATP Detection in Biological Fluids. Chemosensors, 2021, 9, 122.	3.6	2
84	Thermochemiluminescenceâ€Based Sensitive Probes: Synthesis and Photophysical Characterization of Acridineâ€Containing 1,2â€Dioxetanes Focusing on Fluorophore Pushâ€Pull Effects. ChemPhotoChem, 2022, 6, .	3.0	2
85	Future medicinal chemists experience flow chemistry: optimization by experimental design of the limiting synthetic step to the antifungal drug econazole nitrate. Journal of Flow Chemistry, 2021, 11, 67-73.	1.9	2
86	Flow nanoprecipitation of size-controlled <scp>d</scp>-leucine nanoparticles for spray-drying formulations. Reaction Chemistry and Engineering, 2019, 4, 1861-1868.	3.7	1
87	Domino synthesis of 5-aminoimidazoles from Strecker multicomponent adducts via ytterbium-promoted isocyanide insertion/5-exo-dig cyclization. Molecular Diversity, 2022, , .	3.9	1
88	First General Approach to Cyclohex-3-ene-1,1-bis(phosphonates) by Dielsâ€"Alder Cycloaddition of Tetraethyl Vinylidenebis(phosphonate) to 1,3-Dienes.. ChemInform, 2003, 34, no.	0.0	0
89	Navigations of chemical space to further the understanding of polypharmacology in human nuclear receptors. MedChemComm, 2013, 4, 216-227.	3.4	0