Antimo Gioiello

List of Publications by Citations

86 papers	3,752 citations	26 h-index	60 g-index
99 ext. papers	4,424 ext. citations	5.4 avg, IF	4.97 L-index

#	Paper	IF	Citations
86	TGR5-mediated bile acid sensing controls glucose homeostasis. *Cell Metabolism*, **2009**, 10, 167-77	24.6	1184
85	TGR5 activation inhibits atherosclerosis by reducing macrophage inflammation and lipid loading. *Cell Metabolism*, **2011**, 14, 747-57	24.6	364
84	Novel potent and selective bile acid derivatives as TGR5 agonists: biological screening, structure-activity relationships, and molecular modeling studies. *Journal of Medicinal Chemistry*, **2008**, 51, 1831-41	8.3	218
83	Discovery of 6alpha-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, 7958-61	8.3	194
82	Bile acid derivatives as ligands of the farnesoid X receptor. Synthesis, evaluation, and structure-activity relationship of a series of body and side chain modified analogues of chenodeoxycholic acid. *Journal of Medicinal Chemistry*, **2004**, 47, 4559-69	8.3	144
81	The farnesoid X receptor promotes adipocyte differentiation and regulates adipose cell function in vivo. *Molecular Pharmacology*, **2006**, 70, 1164-73	4.3	127
80	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, 4265-8	8.3	89
79	Steroids interfere with human carbonic anhydrase activity by using alternative binding mechanisms. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2018**, 33, 1453-1459	5.6	56
78	Progress and challenges of selective Farnesoid X Receptor modulation. *Pharmacology & Therapeutics*, **2018**, 191, 162-177	13.9	51
77	Determination of bile salt critical micellization concentration on the road to drug discovery. *Journal of Pharmaceutical and Biomedical Analysis*, **2014**, 87, 62-81	3.5	47
76	Building a sulfonamide library by eco-friendly flow synthesis. *ACS Combinatorial Science*, **2013**, 15, 235-9	3.9	45
75	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, 4964-75	8.3	44
74	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	4.7	43
73	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	3.9	42
72	Back door modulation of the farnesoid X receptor: design, synthesis, and biological evaluation of a series of side chain modified chenodeoxycholic acid derivatives. *Journal of Medicinal Chemistry*, **2006**, 49, 4208-15	8.3	41
71	Bile Acids Signal via TGR5 to Activate Intestinal Stem Cells and Epithelial Regeneration. *Gastroenterology*, **2020**, 159, 956-968.e8	13.3	38
70	Patented TGR5 modulators: a review (2006 - present). *Expert Opinion on Therapeutic Patents*, **2012**, 22, 1399-414	6.8	37

69	Discovery of 3α,7α,11α-Trihydroxy-6α-ethyl-5β-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	8.3	37
68	Beyond bile acids: targeting Farnesoid X Receptor (FXR) with natural and synthetic ligands. *Current Topics in Medicinal Chemistry*, **2014**, 14, 2129-42	3	35
67	The Medicinal Chemistry in the Era of Machines and Automation: Recent Advances in Continuous Flow Technology. *Journal of Medicinal Chemistry*, **2020**, 63, 6624-6647	8.3	33
66	Extending SAR of bile acids as FXR ligands: discovery of 23-N-(carbocinnamyloxy)-3α,7α-dihydroxy-6α-ethyl-24-nor-5β-cholan-23-amine. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 2650-8	3.4	32
65	Probing the Binding Site of Bile Acids in TGR5. *ACS Medicinal Chemistry Letters*, **2013**, 4, 1158-62	4.3	31
64	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, 3251-9	8.3	31
63	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, 2159-74	3	29
62	Exploring the synthetic versatility of the Lewis acid induced decomposition reaction of α-diazo-β-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, 7431-7	4.2	27
61	Selenium-Catalyzed Oxacyclization of Alkenoic Acids and Alkenols. *Asian Journal of Organic Chemistry*, **2017**, 6, 988-992	3	26
60	Achiral-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, 40-6	3.5	26
59	Avicholic Acid: A Lead Compound from Birds on the Route to Potent TGR5 Modulators. *ACS Medicinal Chemistry Letters*, **2012**, 3, 273-7	4.3	26
58	New one-pot synthesis of pyrazole-5-carboxylates by 1,3-dipole cycloadditions of ethyl diazoacetate with α-methylene carbonyl compounds. *Tetrahedron Letters*, **2009**, 50, 5978-5980	2	25
57	Concepts and Molecular Aspects in the Polypharmacology of PARP-1 Inhibitors. *ChemMedChem*, **2016**, 11, 1219-26	3.7	22
56	Concepts and optimization strategies of experimental design in continuous-flow processing. *Journal of Flow Chemistry*, **2016**, 6, 167-180	3.3	21
55	The glucocorticoid mometasone furoate is a novel FXR ligand that decreases inflammatory but not metabolic gene expression. *Scientific Reports*, **2015**, 5, 14086	4.9	21
54	Correlation between CMC and chromatographic index: simple and effective evaluation of the hydrophobic/hydrophilic balance of bile acids. *Analytical and Bioanalytical Chemistry*, **2007**, 388, 1681-8	4.4	21
53	Molecular field analysis and 3D-quantitative structure-activity relationship study (MFA 3D-QSAR) unveil novel features of bile acid recognition at TGR5. *Journal of Chemical Information and Modeling* , **2008**, 48, 1792-801	6.1	20
52	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	2	20

51	First general approach to cyclohex-3-ene-1,1-bis(phosphonates) by Diels-Alder cycloaddition of tetraethyl vinylidenebis(phosphonate) to 1,3-dienes. *Journal of Organic Chemistry*, **2003**, 68, 736-42	4.2	19
50	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	4.3	19
49	SARS-CoV2 infection impairs the metabolism and redox function of cellular glutathione. *Redox Biology*, **2021**, 45, 102041	11.3	19
48	Garcinoic Acid Is a Natural and Selective Agonist of Pregnane X Receptor. *Journal of Medicinal Chemistry*, **2020**, 63, 3701-3712	8.3	18
47	Integrating multicomponent flow synthesis and computational approaches for the generation of a tetrahydroquinoline compound based library. *MedChemComm*, **2016**, 7, 439-446	5	18
46	Derived chromatographic indices as effective tools to study the self-aggregation process of bile acids. *Journal of Pharmaceutical and Biomedical Analysis*, **2009**, 50, 613-21	3.5	18
45	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	4.5	17
44	Continuous flow synthesis and scale-up of glycine- and taurine-conjugated bile salts. *Organic and Biomolecular Chemistry*, **2012**, 10, 4109-15	3.9	17
43	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	14.6	17
42	Central anorexigenic actions of bile acids are mediated by TGR5. *Nature Metabolism*, **2021**, 3, 595-603	14.6	17
41	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	3.5	17
40	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	8.3	16
39	Selective continuous flow synthesis of hydroxy lactones from alkenoic acids. *Reaction Chemistry and Engineering*, **2017**, 2, 467-471	4.9	16
38	BF(3).Et(2)O-induced decomposition of ethyl 2-diazo-3-hydroxy-3,3-diarylpropanoates in acetonitrile: a novel approach to 2,3-diaryl beta-enamino ester derivatives. *Journal of Organic Chemistry*, **2009**, 74, 3520-3	4.2	16
37	Divergent and stereoselective synthesis of dafachronic acids. *Tetrahedron*, **2011**, 67, 1924-1929	2.4	15
36	Glucuronidation of bile acids under flow conditions: design of experiments and Koenigs-Knorr reaction optimization. *Organic and Biomolecular Chemistry*, **2014**, 12, 9592-600	3.9	14
35	Flow synthesis and biological activity of aryl sulfonamides as selective carbonic anhydrase IX and XII inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 3422-5	2.9	14
34	Novel stereoselective synthesis and chromatographic evaluation of E-guggulsterone. *Steroids*, **2012** , 77, 250-4	2.8	14

33	Discovery and characterization of novel potent PARP-1 inhibitors endowed with neuroprotective properties: From TIQ-A to HYDAMTIQ. *MedChemComm*, **2011**, 2, 559	5	14
32	Tandem mass spectrometric determination of atypical 3-hydroxy-5-bile acids in patients with 3-hydroxy-5-C27-steroid oxidoreductase deficiency: application to diagnosis and monitoring of bile acid therapeutic response. *Clinical Chemistry*, **2015**, 61, 955-63	5.5	13
31	HPLC/ELSD analysis of amidated bile acids: an effective and rapid way to assist continuous flow chemistry processes. *Talanta*, **2012**, 100, 364-71	6.2	13
30	Synthesis and structure-activity relationships of amino acid conjugates of cholanic acid as antagonists of the EphA2 receptor. *Molecules*, **2013**, 18, 13043-60	4.8	12
29	Fast chromatographic determination of the bile salt critical micellar concentration. *Analytical and Bioanalytical Chemistry*, **2011**, 401, 267-74	4.4	11
28	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	6.8	11
27	Garcinoic acid prevents -amyloid (A) deposition in the mouse brain. *Journal of Biological Chemistry*, **2020**, 295, 11866-11876	5.4	10
26	Conformational properties of cholic acid, a lead compound at the crossroads of bile acid inspired drug discovery. *MedChemComm*, **2014**, 5, 750-757	5	9
25	Synthesis of atypical bile acids for use as investigative tools for the genetic defect of 3-hydroxy-(5)-C27-steroid oxidoreductase deficiency. *Journal of Steroid Biochemistry and Molecular Biology*, **2014**, 144 Pt B, 348-60	5.1	9
24	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, 1765-72	4	9
23	Side-chain modified bile acids: chromatographic separation of 23-methyl epimers. *Journal of Separation Science*, **2009**, 32, 2022-33	3.4	9
22	Thermal and catalytic reactions of ethyl diazopyruvate with [60]fullerene. *Tetrahedron*, **2010**, 66, 7329-7332	2.4	9
21	Potential therapeutic applications of farnesoid X receptor (FXR) modulators. *Expert Opinion on Therapeutic Patents*, **2006**, 16, 333-341	6.8	9
20	Improved chromatographic diastereoresolution of cyclopropyl dafachronic acid derivatives using chiral anion exchangers. *Journal of Chromatography A*, **2018**, 1557, 20-27	4.5	9
19	Selected cholesterol biosynthesis inhibitors produce accumulation of the intermediate FF-MAS that targets nucleus and activates LXR in HepG2 cells. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2017**, 1862, 842-852	5	7
18	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	5.1	7
17	Enantioselective HPLC Analysis to Assist the Chemical Exploration of Chiral Imidazolines. *Molecules*, **2020**, 25,	4.8	7
16	Multiclass screening method to detect more than fifty banned substances in bovine bile and urine. *Analytica Chimica Acta*, **2018**, 1032, 56-67	6.6	7

15	Continuous Flow Synthesis of 16-Dehydropregnenolone Acetate, a Key Synthon for Natural Steroids and Drugs. *Organic Process Research and Development*, **2018**, 22, 600-607	3.9	6
14	Synthesis and quantitative structure-property relationships of side chain-modified hyodeoxycholic acid derivatives. *Molecules*, **2013**, 18, 10497-513	4.8	4
13	Endoplasmic reticulum stress and NF-kB activation in SARS-CoV-2 infected cells and their response to antiviral therapy. *IUBMB Life*, **2021**,	4.7	4
12	Dissecting the allosteric FXR modulation: a chemical biology approach using guggulsterone as a chemical tool. *MedChemComm*, **2019**, 10, 1412-1419	5	3
11	The Discovery of Obeticholic Acid (Ocaliva): First-in-Class FXR Agonist **2018**, 197-244		2
10	A streamlined synthesis of the neurosteroid 3-methoxypregnenolone assisted by a statistical experimental design and automation. *Reaction Chemistry and Engineering*, **2020**, 5, 300-307	4.9	2
9	Weak Microbial Metabolites: a Treasure Trove for Using Biomimicry to Discover and Optimize Drugs. *Molecular Pharmacology*, **2020**, 98, 343-349	4.3	2
8	BF3·Et2O-Promoted Decomposition of Cyclic α-Diazo-β-Hydroxy Ketones: Novel Insights into Mechanistic Aspects. *Catalysts*, **2018**, 8, 600	4	2
7	Flow nanoprecipitation of size-controlled D-leucine nanoparticles for spray-drying formulations. *Reaction Chemistry and Engineering*, **2019**, 4, 1861-1868	4.9	1
6	Synthesis and biological activity of cyclopropyl Δ7-dafachronic acids as DAF-12 receptor ligands. *Organic and Biomolecular Chemistry*, **2021**, 19, 5403-5412	3.9	1
5	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	3.3	1
4	SBA15-Supported Nano-ruthenium Catalyst for the Oxidative Cleavage of Alkenes to Aldehydes under Flow Conditions. *Tetrahedron Letters*, **2021**, 153509	2	0
3	The Systems Biology of Transporters: Targeting the Regulatory System for Transporters (FXR/RXR). *Methods and Principles in Medicinal Chemistry*, **2017**, 199-230	0.4	
2	Navigations of chemical space to further the understanding of polypharmacology in human nuclear receptors. *MedChemComm*, **2013**, 4, 216-227	5	
1	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	4	