

# Anne Gaucher

## List of Publications by Year in descending order

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68  
papers

1,240  
citations

331670

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77  
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times ranked

1117  
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#	ARTICLE	IF	CITATIONS
1	Induced Axial Chirality in the Biphenyl Core of the C <sub>1</sub> -Tetrasubstituted $\hat{1}$ -Amino Acid Residue Bip and Subsequent Propagation of Chirality in (Bip) <sub>n</sub> /Val Oligopeptides. <i>Journal of the American Chemical Society</i> , 2004, 126, 12874-12879.	13.7	85
2	Fluorescein Derivatives as Fluorescent Probes for pH Monitoring along Recent Biological Applications. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9217.	4.1	80
3	Iron-Palladium Association in the Preparation of Indoles and One-Pot Synthesis of Bis(indolyl)methanes. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 5332-5335.	2.4	65
4	The Bip Method, Based on the Induced Circular Dichroism of a Flexible Biphenyl Probe in Terminally Protected -Bip-Xaa*- Dipeptides, for Assignment of the Absolute Configuration of $\hat{1}$ -Amino Acids. <i>Journal of the American Chemical Society</i> , 2008, 130, 5986-5992.	13.7	56
5	Recent advances in the chemistry of 1,2,4-triazoles: Synthesis, reactivity and biological activities. <i>Tetrahedron Letters</i> , 2021, 86, 153518.	1.4	50
6	Total asymmetric syntheses of (1S,2S)-norcoronamic acid, and of (1R,2R)- and (1S,2S)-coronamic acids from the diastereoselective cyclization of 2-(N-benzylideneamino)-4-chlorobutyronitriles. <i>Canadian Journal of Chemistry</i> , 1994, 72, 1312-1327.	1.1	47
7	First expeditious synthesis of 6,11-diamino-[6]carbohelicenes. <i>Chemical Communications</i> , 2009, , 4827.	4.1	47
8	N-Heterocyclic Pyridylmethylamines: Synthesis, Complexation, Molecular Structure, and Application to Asymmetric Suzuki-Miyaura and Oxidative Coupling Reactions. <i>Organometallics</i> , 2011, 30, 4074-4086.	2.3	42
9	Novel $\hat{1}$ , $\hat{1}$ -disubstituted $\hat{1}$ -aminoacids with axial dissymmetry and their N- or C-protected derivatives. <i>Tetrahedron: Asymmetry</i> , 1997, 8, 619-631.	1.8	35
10	Palladium (O) catalyzed tandem alkylation and S <sub>N</sub> <sup>2</sup> cyclization of 1,4-dichlorobut-2-ene by the N-(diphenylmethylene)acetonitrile. A stereoselective synthesis of 1-aminocyclopropanecarboxylic acids. <i>Tetrahedron Letters</i> , 1995, 36, 2979-2982.	1.4	32
11	FeCl <sub>3</sub> -catalyzed addition of nitrogen and 1,3-dicarbonyl nucleophiles to olefins. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 296-304.	1.8	32
12	A new chiral $\hat{1}$ -aminoacid with only axial dissymmetry: Synthesis and X-ray analysis of a 1,1 $\hat{2}$ -binaphthyl-substituted $\hat{1}$ -aminoisobutyric acid (Bin) and of its biphenyl analogue (Bip). <i>Tetrahedron Letters</i> , 1996, 37, 2971-2974.	1.4	31
13	Induced Axial Chirality in the Biphenyl Core of the Proatropoisomeric, C <sub>1</sub> -Tetrasubstituted $\hat{1}$ -Amino Acid Residue Bip in Peptides. <i>Chemistry - A European Journal</i> , 2005, 11, 6921-6929.	3.3	31
14	Regio-Defined Amino[5]Oxa- and Thiahelicenes: A Dramatic Impact of the Nature of the Heteroatom on the Helical Shape and Racemization Barriers. <i>Journal of Organic Chemistry</i> , 2010, 75, 2096-2098.	3.2	31
15	Diastereoselective Preparation of Cyclopropane Amino Acids: Synthesis of Norcoronamic Acid. <i>Synlett</i> , 1991, 1991, 151-153.	1.8	29
16	Bip: a C <sub>1</sub> -Tetrasubstituted, Axially Chiral $\hat{1}$ -Amino Acid. Synthesis and Conformational Preference of Model Peptides. <i>Tetrahedron</i> , 2000, 56, 8721-8734.	1.9	27
17	Synthesis of terminally protected (S)- $\hat{1}$ <sup>23</sup> -H-DOPA by Arndt-Eistert homologation: an approach to crowned $\hat{1}$ <sup>2</sup> -peptides. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 857-864.	1.8	26
18	Electrodeposition of Polypyrenes with Tunable Hydrophobicity, Water Adhesion, and Fluorescence Properties. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7077-7087.	3.1	24

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19	Pyridylmethylamineâ€“Palladium Catalytic Systems: Aâ€“Selective Alternative in the Câ”H Arylation of Indole. <i>ChemCatChem</i> , 2017, 9, 389-392.	3.7	24
20	Synthesis and conformational study of homo-peptides based on (S)-Bin, a C2-symmetric binaphthyl-derived C <sub>1</sub> , <sub>1</sub> -disubstituted glycine with only axial chirality. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 1879-1893.	1.8	23
21	Synthesis of $\hat{1}\pm, \hat{1}\pm$ -disubstituted- $\hat{1}^2$ -aminoacids with axial chirality. <i>Tetrahedron Letters</i> , 1998, 39, 575-578.	1.4	21
22	A Chirally Stable, Atropoisomeric, C <sub>1</sub> -Tetrasubstituted $\hat{1}\pm$ -Amino Acid: Incorporation into Model Peptides and Conformational Preference. <i>Helvetica Chimica Acta</i> , 2001, 84, 481-501.	1.6	20
23	Binaphthyl platform as starting materials for the preparation of electron rich benzo [g,h,i] perylenes. Application to molecular architectures based on amino benzo [g,h,i] perylenes and carborane combinations. <i>Chemical Communications</i> , 2011, 47, 7725.	4.1	20
24	N-t-Boc 6-amino-1,11-(20-crown-6)-6,7-dihydro-5H-dibenzo [a,c] cycloheptene-6-carboxylic acid methyl ester, the first prototype of a crown-carrier-axially dissymmetric- $\hat{1}\pm, \hat{1}\pm$ -disubstituted glycine. <i>Tetrahedron Letters</i> , 1997, 38, 2091-2094.	1.4	18
25	Synthesis and Molecular Structure of Symmetrical 1,8â€“Diarylnaphthalenes. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 5800-5806.	2.4	18
26	Towards peptide versions of Cram's hostâ€“guest chemistry: the synthesis of C <sub>1</sub> , <sub>1</sub> -disubstituted glycines with binaphthol-based crowned side-chains. <i>Tetrahedron Letters</i> , 2003, 44, 1741-1745.	1.4	17
27	High-performance liquid chromatographic separation of novel atropic $\hat{1}\pm, \hat{1}\pm$ -disubstituted- $\hat{1}^2$ -amino acids, either on different $\hat{1}^2$ -cyclodextrin-bonded phases or as their 1-fluoro-2,4-dinitrophenyl-5-l-alanine amide derivatives. <i>Journal of Chromatography A</i> , 1999, 846, 83-91.	3.7	16
28	New series of acridines and phenanthrolines: synthesis and characterization. <i>Tetrahedron</i> , 2014, 70, 3042-3048.	1.9	16
29	Practical resolution of an atropoisomeric $\hat{1}\pm, \hat{1}\pm$ -disubstituted glycine with l-phenylalanine cyclohexylamide as chiral auxiliary. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 2701-2713.	1.8	15
30	Synthesis and resolution of $\hat{1}^2,2$ -HBin, the first enantiomerically stable $\hat{1}^2$ -amino acid with chirality only due to axial dissymmetry. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 2571-2580.	1.8	15
31	Efficacious and rapid metal- and solvent-free synthesis of enantiopure oxazolines. <i>Tetrahedron: Asymmetry</i> , 2014, 25, 1275-1279.	1.8	15
32	Synthesis, characterisation and application of pyridine-modified chitosan derivatives for the first non-racemic Cu-catalysed Henry reaction. <i>Carbohydrate Polymers</i> , 2018, 181, 1206-1212.	10.2	15
33	From imidates to vinyl-1,2,4-triazoles: Synthesis, mechanistic aspects and first issues of their reactivity. <i>Tetrahedron</i> , 2018, 74, 6972-6978.	1.9	14
34	$\hat{1}^2$ -Homo-peptides Built from $\hat{1}^2,2$ -HBip, a Biphenyl-substituted 3-Amino-2,2-dimethylpropanoic Acid. <i>Tetrahedron</i> , 2000, 56, 1715-1723.	1.9	12
35	Ring-closing metathesis on deactivated allyl-phosphonates and -phosphoramidates: access to dihydrophosphinine oxides bearing an ester group. <i>Tetrahedron Letters</i> , 2016, 57, 379-382.	1.4	12
36	Synthesis of [18-C-6]- $\hat{1}^2,3$ -(L)-DOPA, first $\hat{1}^2$ -amino acid with a crown-ether receptor side-chain. <i>Tetrahedron Letters</i> , 2002, 43, 8241-8244.	1.4	11

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37	An extension of the $\beta$ -Bip method <sup>TM</sup> : induced axial chirality in a series of dipeptides based on Bip/ $\beta$ -2,2-HBip combined with Ala/ $\beta$ -3-HAla. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 363-371.	1.8	11
38	Superhydrophobic and fluorescent properties of fluorinated polypyrrene surfaces using various polar linkers prepared via electropolymerization. <i>Reactive and Functional Polymers</i> , 2019, 135, 65-76.	4.1	11
39	Versatile approach to densely substituted isoxazolines and pyrazolines: Focus on a quaternary carbon center as a constitutive feature. <i>Tetrahedron Letters</i> , 2020, 61, 151958.	1.4	11
40	New Chiral Cyclooctatriene-Based Polycyclic Architectures. <i>Organic Letters</i> , 2011, 13, 4450-4453.	4.6	10
41	A Flexible Strategy Towards Thienyl $\beta$ -Oxazolyl $\beta$ -and Pyridyl $\beta$ -Fused Fluorenones. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 4515-4522.	2.4	10
42	Arylation of allylphosphonates and application to the preparation of phosphonomethyl-coumarin, -quinolinone and -benzoxepinone skeletons. <i>Tetrahedron Letters</i> , 2015, 56, 1679-1681.	1.4	10
43	Synthesis and Characterisation of Helical $\beta$ -Peptide Architectures that Contain (<i>S</i>) <sup>3</sup> - $\beta$ -DOPA(Crown Ether) Derivatives. <i>Chemistry - A European Journal</i> , 2008, 14, 3154-3163.	3.3	9
44	Modular Urea $\beta$ -Based Catalytic Platforms Bearing Flexible Pyridylmethylamine and Rigid Pyridyl $\beta$ -imidazolidine Fragments. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 746-752.	2.4	9
45	Synthesis of partially hydrogenated oxa[5] and oxa[6]helicenes from $\beta$ -chlorovinylaldehydes. <i>Tetrahedron Letters</i> , 2013, 54, 4721-4725.	1.4	8
46	Experimental Characterization of Droplet Adhesion: The Ejection Test Method (ETM) Applied to Surfaces with Various Hydrophobicity. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8693-8700.	2.5	8
47	A convenient synthesis of phosphonomethyl $\beta$ , $\beta$ -unsaturated $\beta$ -lactams. <i>Tetrahedron Letters</i> , 2015, 56, 5397-5400.	1.4	7
48	Benzannulated Cycloheptanones from Binaphthyl Platforms. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 490-497.	2.4	6
49	$\beta$ -Alkylsulfide phosphonates through the thia-Michael strategy. <i>Journal of Sulfur Chemistry</i> , 2014, 35, 674-682.	2.0	6
50	Topology and Electronic Density Driven Generation of Alkali Cation Complexes. <i>Chemistry - A European Journal</i> , 2018, 24, 8656-8663.	3.3	6
51	Intertwined Detection and Recognition Roles of Tetrazine in Synergistic Anion $\beta$ and H $\beta$ Bond Based Anion Receptor. <i>ChemPhysChem</i> , 2020, 21, 1249-1257.	2.1	6
52	Interpretation of the Diastereoselectivity of the Cyclopropane Formation Involving $\beta$ -Allyl Palladium Complexes Based on Molecular Mechanics Calculations. <i>Tetrahedron</i> , 2000, 56, 8495-8503.	1.9	5
53	Design and property investigation on a five-interaction-based fluorescent anion receptor clip. <i>RSC Advances</i> , 2021, 11, 9476-9487.	3.6	5
54	Synthesis of linear and cyclic homo- $\beta$ -peptides based on a binaphthyl $\beta$ -amino acid with only axial chirality. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 30-39.	1.8	4

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55	A bioinspired approach to fabricate fluorescent nanotubes with strong water adhesion by soft template electropolymerization and post-grafting. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 236-247.	9.4	4
56	A spiral designed surface based on amino-perylene grafted polyacrylic acid. <i>Chemical Communications</i> , 2014, 50, 12034-12036.	4.1	3
57	Straightforward and Regioselective Access to Unsaturated $\beta$ -Benzyl Butyrolactones. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 5246-5251.	2.4	3
58	Deciphering preferred geometries of pyridylmethylamines-based complexes: A robust strategy combining NMR, DFT and X-ray. <i>Inorganica Chimica Acta</i> , 2019, 498, 119070.	2.4	3
59	Divergent strategy for the synthesis of original dihydrobenzo- and dihydronaphtho-acridines. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6269-6277.	2.8	2
60	From $\beta$ -Bromomethylbutenolide to Fused Tri(Tetra) Cyclic Dihydrofurandiones through Barbier Reaction $\rightarrow$ Heck Arylation Sequence. <i>Molecules</i> , 2017, 22, 2171.	3.8	2
61	Aziridine- and Azetidone-Pd Catalytic Combinations. Synthesis and Evaluation of the Ligand Ring Size Impact on Suzuki-Miyaura Reaction Issues. <i>Catalysts</i> , 2017, 7, 27.	3.5	2
62	Helically shaped cation receptor: design, synthesis, characterisation and first application to ion transport. <i>RSC Advances</i> , 2020, 10, 31670-31679.	3.6	2
63	Orthogonal arylations of 5-vinyl-1,2,4-triazoles. <i>Tetrahedron</i> , 2020, 76, 130954.	1.9	2
64	Application of Raw and Chemically Modified Biomasses for Heterogeneous Cu-Catalysed Conversion of Aryl boronic Acids to Phenols Derivatives. <i>Catalysts</i> , 2022, 12, 92.	3.5	2
65	Selective synthesis of mono- and bis-butenolide $\beta$ -aminomethyl adducts. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 3298-3303.	2.8	1
66	Pyridylmethylamines a modular and underrated family of ligands in both metal- and organo-catalysis. <i>Vietnam Journal of Chemistry</i> , 2020, 58, 404-409.	0.8	0
67	The $\beta$ -Bip Method $\rightarrow$ for Spectroscopic Assignment of the Absolute Configuration of the Spin-Labelled, Cyclic $\beta$ -2,3-Amino Acids $\beta$ -TOAC and POAC. <i>Advances in Experimental Medicine and Biology</i> , 2009, , 29-30.	1.6	0
68	Selective palladium-catalyzed functionalization of $\beta$ -methylene butanolides. <i>Tetrahedron</i> , 2022, , 132926.	1.9	0