

# Stéphane Gastaldi

## List of Publications by Year in descending order

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62  
papers

1,827  
citations

257450

24  
h-index

276875

41  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1791  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of tetrahydropyrans and related heterocycles via prins cyclization; extension to aza-prins cyclization. <i>Tetrahedron</i> , 2010, 66, 413-445.	1.9	330
2	Axial-to-central chirality transfer in cyclization processes. <i>Chemical Society Reviews</i> , 2013, 42, 8434.	38.1	129
3	On the Role of Neighboring Group Participation and Ortho Esters in $\beta$ -Xylosylation: $^{13}\text{C}$ NMR Observation of a Bridging 2-Phenyl-1,3-dioxalenium Ion. <i>Journal of Organic Chemistry</i> , 1999, 64, 5224-5229.	3.2	96
4	Dynamic Kinetic Resolution of Amines Involving Biocatalysis and in Situ Free Radical Mediated Racemization. <i>Organic Letters</i> , 2007, 9, 837-839.	4.6	93
5	Methods for the Cleavage of Allylic and Propargylic C-N Bonds in Amines and Amides – Selected Alternative Applications of the 1,3-Hydrogen Shift. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 3855-3873.	2.4	67
6	Thiyl Radical Mediated Racemization of Nonactivated Aliphatic Amines. <i>Journal of Organic Chemistry</i> , 2006, 71, 7288-7292.	3.2	64
7	Highly Selective Enzymatic Kinetic Resolution of Primary Amines at 80 $^{\circ}\text{C}$ : A Comparative Study of Carboxylic Acids and Their Ethyl Esters as Acyl Donors. <i>Journal of Organic Chemistry</i> , 2007, 72, 6918-6923.	3.2	59
8	Chemoenzymatic Dynamic Kinetic Resolution of Primary Amines Catalyzed by CAL-B at 38 $^{\circ}\text{C}$ . <i>Journal of Organic Chemistry</i> , 2011, 76, 7281-7286.	3.2	51
9	Chemoselective ring construction from unsymmetrical 1,6-dienes via radical addition of sulfonyl halides. <i>Journal of Organic Chemistry</i> , 1992, 57, 6118-6125.	3.2	50
10	En Route to (S)-Selective Chemoenzymatic Dynamic Kinetic Resolution of Aliphatic Amines. One-Pot KR/Racemization/KR Sequence Leading to (S)-Amides. <i>Journal of Organic Chemistry</i> , 2009, 74, 2901-2903.	3.2	43
11	Thiyl Radical-Mediated Cleavage of Allylic C-N Bonds: Scope, Limitations, and Theoretical Support to the Mechanism. <i>Journal of the American Chemical Society</i> , 2004, 126, 12343-12352.	13.7	42
12	Synthesis and selective transformation of nitrogen-containing compounds via radical pathways. <i>Comptes Rendus Chimie</i> , 2002, 5, 623-638.	0.5	40
13	Thiyl Radical Mediated Racemization of Benzylic Amines. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 3242-3250.	2.4	39
14	Synthesis of functionalised indolines by radical-polar crossover reactions. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1997, , 1549-1558.	0.9	37
15	Design of Polyaromatic Hydrocarbon-Supported Tin Reagents: A New Family of Tin Reagents Easily Removable from Reaction Mixtures. <i>Journal of Organic Chemistry</i> , 2004, 69, 4464-4470.	3.2	36
16	Diiodosilane: A Reagent for Mild, Efficient Conversion of Carbamates to Ureas via Isocyanates. <i>Journal of Organic Chemistry</i> , 2000, 65, 3239-3240.	3.2	35
17	Rate Constants for the $\beta$ -Elimination of Tosyl Radical from a Variety of Substituted Carbon-Centered Radicals. <i>Journal of Organic Chemistry</i> , 2003, 68, 3532-3537.	3.2	35
18	Highly Efficient Photochemically Induced Thiyl Radical-Mediated Racemization of Aliphatic Amines at 30 $^{\circ}\text{C}$ . <i>Journal of Organic Chemistry</i> , 2008, 73, 364-368.	3.2	35

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19	Kinetic Studies on the Formation of Sulfonyl Radicals and Their Addition to Carbon-Carbon Multiple Bonds. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7623-7628.	2.5	35
20	Switching from (R)- to (S)-selective chemoenzymatic DKR of amines involving sulfanyl radical-mediated racemization. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 4165.	2.8	32
21	Synthesis of (R)- and (S)-botryodiplodin using stereoselective radical cyclizations of acyclic esters and acetals. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 3005-3018.	1.8	28
22	Dicobalt Hexacarbonyl Complexes of Alkynyl Imines in a Sequential Staudinger/Pauson-Khand Process. A Route to New Fused Tricyclic $\beta$ -Lactams. <i>Journal of Organic Chemistry</i> , 2008, 73, 8469-8473.	3.2	27
23	Tandem radical and non-radical reactions mediated with thiols—a new method of cleavage of allylic amines. <i>Chemical Communications</i> , 2002, , 216-217.	4.1	25
24	Alkylphenol oxidation with a laccase from a white-rot fungus: Effects of culture induction and of ABTS used as a mediator. <i>Chemosphere</i> , 2011, 82, 284-289.	8.2	25
25	Diverging Effects of Steric Congestion on the Reaction of Tributylstannyl Radicals with Areneselenols and Aryl Bromides and Their Mechanistic Implications. <i>Journal of Organic Chemistry</i> , 1999, 64, 2877-2882.	3.2	24
26	4-Isopropenyl-3-tosylmethyl pyrrolidines through radical cyclizations of 4-aza-1,6-dienes - an approach to kainic acids. <i>Tetrahedron Letters</i> , 1996, 37, 1229-1232.	1.4	23
27	Protected propargylic acetals. Nicholas—Prins cyclization leading to functionalized 2-alkynyl-tetrahydropyrans. Intramolecular trapping by allenes. <i>Tetrahedron Letters</i> , 2007, 48, 7801-7804.	1.4	23
28	PAH-supported tin hydride: a new tin reagent easily removable from reaction mixtures. <i>Tetrahedron Letters</i> , 2002, 43, 4309-4311.	1.4	21
29	Monitoring Crystallization Processes in Confined Porous Materials by Dynamic Nuclear Polarization Solid-State Nuclear Magnetic Resonance. <i>Journal of the American Chemical Society</i> , 2021, 143, 6095-6103.	13.7	21
30	1,2- and 1,5-stereocontrols in 5-hexenyl radical intramol cyclocondensations: cooperative or antagonist effect. Confrontation of experimental results with MM2 calculations of transition states. <i>Journal of Organic Chemistry</i> , 1995, 60, 6040-6045.	3.2	20
31	Intramolecular radical allylation with allylic sulfones—A synthesis of (R)-botryodiplodin. <i>Tetrahedron Letters</i> , 1999, 40, 3371-3374.	1.4	18
32	N-Acyl glycinates as acyl donors in serine protease-catalyzed kinetic resolution of amines. Improvement of selectivity and reaction rate. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 3917.	2.8	18
33	Silica materials with wall-embedded nitroxides provide efficient polarization matrices for dynamic nuclear polarization NMR. <i>Chemical Communications</i> , 2016, 52, 5531-5533.	4.1	18
34	Arylsulfanyl radical lifetime in nanostructured silica: dramatic effect of the organic monolayer structure. <i>Chemical Science</i> , 2014, 5, 4716-4723.	7.4	16
35	Embedding cyclic nitrene in mesoporous silica particles for EPR spin trapping of superoxide and other radicals. <i>Analyst</i> , 2019, 144, 4194-4203.	3.5	16
36	Influence of quaternization or coordination of nitrogen with a Lewis acid upon the diastereoselectivity of 5-exo ring closure of $\beta$ -aminoalkyl radicals. <i>Tetrahedron</i> , 1998, 54, 12829-12840.	1.9	15

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37	On the stereochemistry of vicinal nucleophilic substitution of $\hat{I}^2$ -(phosphatoxy)alkyl radicals. <i>Tetrahedron Letters</i> , 1998, 39, 9377-9380.	1.4	12
38	Novozym 435-catalyzed synthesis of polyetheramides from amino-esters, or diesters and diamines built on ethylene- and diethylene- glycol moieties. <i>Polymer</i> , 2012, 53, 1172-1179.	3.8	12
39	Speeding-up enzyme-catalyzed synthesis of polyamides using $\hat{I}^2$ -amino- $\hat{I}^1$ -alkoxy-acetate as monomer. <i>Polymer</i> , 2013, 54, 3467-3471.	3.8	12
40	Looking forward: a glance into the future of organic chemistry. <i>New Journal of Chemistry</i> , 2006, 30, 823-831.	2.8	11
41	CAL-B catalyzed synthesis of chiral polyamides. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 867-875.	1.8	11
42	A new substrate to measure laccase activities in complex environments: Application to litters. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1001-1005.	8.8	10
43	Proteases screening for the kinetic resolution of amines with N-acyl $\hat{I}^1$ -amino acid trifluoromethyl esters: automated docking approach of binding energies using Subtilisin Novo as a prototype for serine proteases. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 2823-2834.	1.8	9
44	Design of Wall-Functionalized Hybrid Silicas Containing Diazene Radical Precursors. EPR Investigation of Their Photolysis and Thermolysis. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5434-5439.	3.1	9
45	Diazene-Functionalized Lamellar Materials as Nanobuilding Blocks: Application as Light-Sensitive Fillers to Initiate Radical Photopolymerizations. <i>ACS Macro Letters</i> , 2017, 6, 117-120.	4.8	8
46	The influence of the molecular system on the performance of heteronuclear decoupling in solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2011, 210, 75-81.	2.1	7
47	<i>N</i> -Octanoyldimethylglycine Trifluoroethyl Ester, an Acyl Donor Leading to Highly Enantioselective Protease-catalysed Kinetic Resolution of Amines. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 1759-1764.	4.3	6
48	Solid state generation of phenoxy radicals through $\hat{I}^2$ -fragmentation from specifically designed diazenes. An ESR investigation. <i>Tetrahedron</i> , 2016, 72, 7744-7748.	1.9	6
49	Nanostructured Silicas, a Platform for the Observation of Transient Radicals: Application to Sulfinyl Radicals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 681-686.	3.1	6
50	Evidence for the contribution of degenerate hydrogen atom transport to the persistence of sulfonyl radicals anchored to nanostructured hybrid materials. <i>New Journal of Chemistry</i> , 2017, 41, 6678-6684.	2.8	5
51	Probing the efficiency of thermal and photochemical bond homolysis in functionalized nanostructured SBA-15 silicas. <i>Microporous and Mesoporous Materials</i> , 2021, 311, 110674.	4.4	4
52	Modulating lifetimes and relaxation times of phenoxy radicals through their incorporation into different hybrid nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16337-16344.	2.8	3
53	Unprecedented Cyclization of Nicholas Cations onto Unactivated Terminal Alkenes: Tandem Trapping of Cationic Intermediates. <i>Synlett</i> , 2007, 2007, 0423-0426.	1.8	2
54	Investigating Unusual Organic Functional Groups to Engineer the Surface Chemistry of Mesoporous Silica to Tune CO <sub>2</sub> -Surface Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14490-14496.	8.0	2

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55	Reaction of sodium cyanide with 5-bromo-1-benzosuberone: a reappraisal. <i>New Journal of Chemistry</i> , 2000, 24, 249-250.	2.8	1
56	Straightforward Access to $\hat{\pm}$ -Methylamines through Cross-Metathesis. <i>Synthesis</i> , 2010, 2010, 1334-1338.	2.3	1
57	Coniferyl Alcohol Radical Detection by the Dirigent Protein At DIR6 Monitored by EPR. <i>ChemBioChem</i> , 2021, 22, 992-995.	2.6	1
58	Synthesis and Selective Transformation of Nitrogen-Containing Compounds via Radical Pathways. <i>ChemInform</i> , 2003, 34, no.	0.0	0
59	Rate Constants for the $\hat{2}$ -Elimination of Tosyl Radical from a Variety of Substituted Carbon-Centered Radicals.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
60	Design of Polyaromatic Hydrocarbon-Supported Tin Reagents: A New Family of Tin Reagents Easily Removable from Reaction Mixtures.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
61	Methods for the Cleavage of Allylic and Propargylic C $\hat{N}$ Bonds in Amines and Amides $\hat{e}$ Selected Alternative Applications of the 1,3-Hydrogen Shift. <i>ChemInform</i> , 2005, 36, no.	0.0	0
62	Enzyme-triggered Radical Reactions: Another Approach For Tin-free Radical Chemistry. <i>Chimia</i> , 2012, 66, 435.	0.6	0