Alessandro Volonterio

List of Publications by Year in descending order

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111 papers 2,538 citations

30 h-index 243296 44 g-index

153 all docs

153 does citations

153 times ranked 2362 citing authors

#	Article	IF	CITATIONS
1	Enantioseparation of chiral (benzylsulfinyl)benzamide sulfoxides by capillary electrophoresis using cyclodextrins as chiral selectors. Journal of Chromatography A, 2022, 1672, 463027.	1.8	5
2	Guanidinoneomycin-maleimide molecular transporter: synthesis, chemistry and cellular uptake. Organic and Biomolecular Chemistry, 2021, 19, 6513-6520.	1.5	2
3	Multifunctional Neomycin-Triazine-Based Cationic Lipids for Gene Delivery with Antibacterial Properties. Bioconjugate Chemistry, 2021, 32, 690-701.	1.8	11
4	Synthesis of Orthogonally Protected Labionin. Journal of Organic Chemistry, 2021, 86, 4313-4319.	1.7	2
5	Solid-Phase Synthesis of Gly-Î ⁺ [CH(CF ₃)NH]-Peptides. Journal of Organic Chemistry, 2021, 86, 9225-9232.	1.7	2
6	Separation of enantiomers of chiral sulfoxides in high-performance liquid chromatography with cellulose-based chiral selectors using acetonitrile and acetonitrile-water mixtures as mobile phases. Journal of Chromatography A, 2020, 1609, 460445.	1.8	22
7	Aminoglycosides: From Antibiotics to Building Blocks for the Synthesis and Development of Gene Delivery Vehicles. Antibiotics, 2020, 9, 504.	1.5	16
8	Potential and current limitations of superficially porous silica as a carrier for polysaccharide-based chiral selectors in separation of enantiomers in high-performance liquid chromatography. Journal of Chromatography A, 2020, 1625, 461297.	1.8	21
9	Multicomponent Approach to Libraries of Substituted Dihydroorotic Acid Amides. ACS Combinatorial Science, 2019, 21, 705-715.	3.8	4
10	Role of Generation on Successful DNA Delivery of PAMAM–(Guanidino)Neomycin Conjugates. ACS Omega, 2019, 4, 6796-6807.	1.6	24
11	Separation of enantiomers of selected chiral sulfoxides with cellulose tris(4-chloro-3-methylphenylcarbamate)-based chiral columns in high-performance liquid chromatography with very high separation factor. Journal of Chromatography A, 2018, 1545, 59-66.	1.8	32
12	Separation of enantiomers of chiral sulfoxides in high-performance liquid chromatography with cellulose-based chiral selectors using methanol and methanol-water mixtures as mobile phases. Journal of Chromatography A, 2018, 1557, 62-74.	1.8	30
13	Design, synthesis, and conformational analysis of 3- <i>cyclo</i> -butylcarbamoyl hydantoins as novel hydrogen bond driven universal peptidomimetics. Organic and Biomolecular Chemistry, 2018, 16, 521-525.	1.5	7
14	Application of cellulose 3,5-dichlorophenylcarbamate covalently immobilized on superficially porous silica for the separation of enantiomers in high-performance liquid chromatography. Journal of Chromatography A, 2018, 1571, 132-139.	1.8	41
15	Design and synthesis of biologically active cationic amphiphiles built on the calix[4]arene scaffold. International Journal of Pharmaceutics, 2018, 549, 436-445.	2.6	21
16	An attempt for fast separation of enantiomers in nanoâ€liquid chromatography and capillary electrochromatography. Electrophoresis, 2017, 38, 1932-1938.	1.3	22
17	Enantioseparation of novel chiral sulfoxides on chlorinated polysaccharide stationary phases in supercritical fluid chromatography. Journal of Chromatography A, 2017, 1499, 174-182.	1.8	42
18	Dendrimeric Guanidinoneomycin for Cellular Delivery of Bioâ€macromolecules. ChemBioChem, 2017, 18, 119-125.	1.3	8

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19	Multicomponent Domino Synthesis and Antibacterial Activity of Neomycin–Sugar Conjugates. Synthesis, 2016, 48, 4443-4450.	1.2	7
20	Multicomponent diversity oriented synthesis of multivalent glycomimetics containing hexafluorovaline. Tetrahedron, 2015, 71, 7630-7637.	1.0	3
21	Fluorescence lifetime spectroscopy: a new technique for the characterization of polyplexes., 2014,,.		O
22	Synthesis of <i>N</i> à€Glycosyl Conjugates through a Multicomponent Domino Process. European Journal of Organic Chemistry, 2014, 2014, 2386-2397.	1,2	11
23	The study of polyplex formation and stability by time-resolved fluorescence spectroscopy of SYBR Green I-stained DNA. Photochemical and Photobiological Sciences, 2014, 13, 1680-1689.	1.6	17
24	Diversity Oriented Combinatorial Synthesis of Multivalent Glycomimetics Through a Multicomponent Domino Process. ACS Combinatorial Science, 2014, 16, 711-720.	3.8	16
25	Novel pyrazole derivatives as neutral CB 1 antagonists with significant activity towards food intake. European Journal of Medicinal Chemistry, 2013, 62, 256-269.	2.6	31
26	Multi-component synthesis of peptide–sugar conjugates. Organic and Biomolecular Chemistry, 2013, 11, 2421.	1.5	12
27	NESS002ie: A new fluorinated thiol endopeptidase inhibitor with antinociceptive activity in an animal model of persistent pain. Pharmacology Biochemistry and Behavior, 2013, 110, 137-144.	1.3	4
28	Synthesis of Multifunctional PAMAM–Aminoglycoside Conjugates with Enhanced Transfection Efficiency. Bioconjugate Chemistry, 2013, 24, 1928-1936.	1.8	38
29	Multicomponent Synthesis of N-Carbamoyl Hydantoin Derivatives. Synlett, 2013, 24, 727-732.	1.0	7
30	Diabetes-induced myelin abnormalities are associated with an altered lipid pattern: protective effects of LXR activation. Journal of Lipid Research, 2012, 53, 300-310.	2.0	83
31	Regioselective multicomponent sequential synthesis of hydantoins. Organic and Biomolecular Chemistry, 2012, 10, 9538.	1.5	22
32	Three-component sequential synthesis of N,N′-disubstituted 5-arylidenedihydropyrimidine-2,4-dione. Tetrahedron Letters, 2012, 53, 4733-4737.	0.7	5
33	Probing the Binding Affinity and Proteolytic Stability of Trifluoromethyl Peptide Mimics as Protease Inhibitors. Modecular Medicine and Medicinal, 2012, , 63-90.	0.4	O
34	Chitosan-Graft-Branched Polyethylenimine Copolymers: Influence of Degree of Grafting on Transfection Behavior. PLoS ONE, 2012, 7, e34711.	1.1	40
35	Synthesis of diverse spiroisoxazolidinohydantoins by totally regio- and diasteroselective 1,3-dipolar cycloadditions. RSC Advances, 2011, 1, 1250.	1.7	12
36	Three-component, one-pot sequential synthesis of glyco-hydantoin conjugates. Organic and Biomolecular Chemistry, 2011, 9, 8379.	1.5	10

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37	Domino synthesis of 1,3,5-trisubstituted hydantoins: a DFT study. Organic and Biomolecular Chemistry, 2011, 9, 5156.	1.5	22
38	Time-resolved fluorescence spectroscopic investigation of cationic polymer/DNA complex formation. , 2011, , .		0
39	An umpolung sulfoxide reagent for use as a functionalized benzyl carbanion equivalent. Tetrahedron, 2011, 67, 5268-5281.	1.0	20
40	Multicomponent Synthesis of Peptideâ€Sugar Conjugates Incorporating Hexafluorovaline. Advanced Synthesis and Catalysis, 2010, 352, 2791-2798.	2.1	7
41	Activation of the Liver X Receptor Increases Neuroactive Steroid Levels and Protects from Diabetes-Induced Peripheral Neuropathy. Journal of Neuroscience, 2010, 30, 11896-11901.	1.7	75
42	A Mild, Efficient Synthesis of gem-Difluorodihydrouracils. Synthesis, 2010, 2010, 651-660.	1.2	2
43	A Mild, Efficient Approach for the Synthesis of 1,5â€Disubstituted Hydantoins. European Journal of Organic Chemistry, 2009, 2009, 6179-6188.	1.2	27
44	Synthesis and enzymatic evaluation of novel partially fluorinated thiol dual ACE/NEP inhibitors. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4715-4719.	1.0	8
45	New Fluorinated Peptidomimetics through Tandem Aza-Michael Addition to α-Trifluoromethyl Acrylamide Acceptors: Synthesis and Conformational Study in Solid State and Solution. Journal of Organic Chemistry, 2009, 74, 3122-3132.	1.7	24
46	$\hat{\Gamma}$ [CH(CF3)NH]Gly-peptides: synthesis and conformation analysis. Organic and Biomolecular Chemistry, 2009, 7, 2286.	1.5	43
47	Synthesis of Î ⁻ [CH(RF)NH]Gly-peptides: The dramatic effect of a single fluorine atom on the diastereocontrol of the key aza-Michael reaction. Journal of Fluorine Chemistry, 2008, 129, 767-774.	0.9	16
48	Multicomponent, One-Pot Sequential Synthesis of 1,3,5- and 1,3,5,5-Substituted Barbiturates. Journal of Organic Chemistry, 2008, 73, 7486-7497.	1.7	36
49	The Influence of Fluoroalkyl-Group Electronegativity on Stereocontrol in the Synthesis of î ⁻ [CH(RF)NH]Gly Peptides. Synlett, 2008, 2008, 958-962.	1.0	2
50	Three-Component, One-Pot Sequential Synthesis of 1,3-Disubstituted 5-Arylhydantoins. Synlett, 2008, 2008, 3016-3020.	1.0	4
51	Three-Component, One-Pot Sequential Synthesis ofN-Aryl,Nâ€~-Alkyl Barbiturates§. Organic Letters, 2007, 9, 841-844.	2.4	23
52	Synthesis of Pyridazine-Based Scaffolds as α-Helix Mimetics. Organic Letters, 2007, 9, 3733-3736.	2.4	81
53	The Role of Fluorine in the Stereoselective Tandem Azaâ€Michael Addition to Acrylamide Acceptors: An Experimental and Theoretical Mechanistic Study. Chemistry - A European Journal, 2007, 13, 8530-8542.	1.7	18
54	Assembly of Hybrid Synthetic Capsules. Angewandte Chemie - International Edition, 2007, 46, 242-244.	7.2	47

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55	The Trifluoroethylamine Function as Peptide Bond Replacement. ChemMedChem, 2007, 2, 1693-1700.	1.6	137
56	Conjugated additions of amines and \hat{l}^2 -amino alcohols to trifluorocrotonic acid derivatives: synthesis of $\hat{l}^2[NHCH(CF3)]$ -retro-thiorphan. Tetrahedron Letters, 2007, 48, 589-593.	0.7	20
57	Stereochemically pure \hat{l}_{\pm} -trifluoromethyl-malic hydroxamates: synthesis and evaluation as inhibitors of matrix metalloproteinases. Tetrahedron, 2006, 62, 10171-10181.	1.0	7
58	One-Step Synthesis of O-Benzyl Hydroxamates from Unactivated Aliphatic and Aromatic Esters ChemInform, 2006, 37, no.	0.1	0
59	Synthesis and Properties of New Fluorinated Peptidomimetics. ACS Symposium Series, 2005, , 572-592.	0.5	3
60	Synthesis of 1-aryl-tetralins and 4-aryl-benzopyrans by sulfoxide-mediated benzylic carbocation cyclizations. Tetrahedron Letters, 2005, 46, 8723-8726.	0.7	13
61	One-Step Synthesis of O-Benzyl Hydroxamates from Unactivated Aliphatic and Aromatic Esters. Journal of Organic Chemistry, 2005, 70, 6925-6928.	1.7	41
62	Fluorinated Peptidomimetics: Synthesis, Conformational and Biological Features. ChemInform, 2005, 36, no.	0.1	0
63	Synthesis of 1,3,5-Trisubstituted Hydantoins by Regiospecific Domino Condensation/Aza-Michael/Oâ†'N Acyl Migration of Carbodiimides with Activated $\hat{l}\pm,\hat{l}^2$ -Unsaturated Carboxylic Acids ChemInform, 2005, 36, no.	0.1	O
64	One-Pot, Regioselective Synthesis of 1,3,5 Trisubstituted Hydantoins by Domino Condensation / aza-Michael / O→N acyl Migration of Asymmetric Carbodiimides with α,β-Unsaturated Carboxylic Acids. Letters in Organic Chemistry, 2005, 2, 44-46.	0.2	2
65	Synthesis of 1,3,5-Trisubstituted Hydantoins by Regiospecific Domino Condensation/Aza-Michael/O→N Acyl Migration of Carbodiimides with Activated α,β-Unsaturated Carboxylic Acidsâ€. Journal of Organic Chemistry, 2005, 70, 2161-2170.	1.7	71
66	Domino Condensation/Aza-Michael/Oâ†'N Acyl Migration of Carbodiimides with Activated $\hat{1}\pm,\hat{1}^2$ -Unsaturated Carboxylic Acids to Form Hydantoins ChemInform, 2004, 35, no.	0.1	О
67	Stereoselective synthesis of (R)- and (S)-α-trifluoromethyl aspartic acid via titanium enolate addition to a sulfinimine of trifluoropyruvate. Tetrahedron: Asymmetry, 2004, 15, 889-893.	1.8	32
68	Synthesis and evaluation of stereopure \hat{l} ±-trifluoromethyl-malic hydroxamates as inhibitors of matrix metalloproteinases. Tetrahedron Letters, 2004, 45, 1611-1615.	0.7	47
69	Synthesis of enantiomerically pure \hat{i} -ethyl, \hat{i} -vinyl and \hat{i} -ethynyl 3,3,3-trifluoro alaninates. Journal of Fluorine Chemistry, 2004, 125, 573-577.	0.9	36
70	Fluorinated peptidomimetics: synthesis, conformational and biological features. Journal of Fluorine Chemistry, 2004, 125, 1735-1743.	0.9	56
71	The mass spectrometric behaviour of fluorinated ephedrines under different protonating conditions. Il Farmaco, 2003, 58, 69-77.	0.9	3
72	Discovery and investigation of lead compounds as binders to the Extra-Domain B of the angiogenesis marker, fibronectin. Drug Development Research, 2003, 58, 268-282.	1.4	5

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73	Title is missing!. Angewandte Chemie, 2003, 115, 2106-2109.	1.6	10
74	Synthesis, Structure and Conformation of Partially-Modified Retro- and Retro-Inversoï^[NHCH(CF3)]Gly Peptides. Chemistry - A European Journal, 2003, 9, 4510-4522.	1.7	72
75	Highly Stereoselective Tandem Aza-Michael Addition–Enolate Protonation to Form Partially Modified Retropeptide Mimetics Incorporating a Trifluoroalanine Surrogate. Angewandte Chemie - International Edition, 2003, 42, 2060-2063.	7.2	62
76	Domino condensation/aza-Michael/Oâ†'N acyl migration of carbodiimides with activated $\hat{l}\pm,\hat{l}^2$ -unsaturated carboxylic acids to form hydantoins. Tetrahedron Letters, 2003, 44, 8549-8551.	0.7	23
77	Stereocontrolled solid-phase synthesis of fluorinated partially-modified retropeptides via tandem aza-Michael/enolate-protonation. Tetrahedron Letters, 2003, 44, 7019-7022.	0.7	16
78	Traceless solid-phase synthesis of 2,4,6-chlorodiamino and triaminopyrimidines. Tetrahedron, 2003, 59, 7147-7156.	1.0	14
79	Stereocontrolled Synthesis of I^[CH(CF3)NH]Gly-Peptides. Organic Letters, 2003, 5, 3887-3890.	2.4	70
80	Parallel Solid-Phase Synthesis of Partially Modified Retro and Retro-Inverso Ï^[NHCH(CF3)]-Gly Peptides. Collection of Czechoslovak Chemical Communications, 2002, 67, 1305-1319.	1.0	8
81	The "Non-Oxidative―Chloro-Pummerer Reaction: Novel Stereospecific Entry to Vicinal Chloroamines and Aziridines. European Journal of Organic Chemistry, 2002, 2002, 3336-3340.	1.2	31
82	Solution/Solid-Phase Synthesis of Partially Modified Retro- and Retro-Inverso-i^[NHCH(CF3)]-Peptidyl Hydroxamates and Their Evaluation as MMP-9 Inhibitors. European Journal of Organic Chemistry, 2002, 2002, 428-438.	1.2	26
83	Regioselective 4-amino-de-chlorination of trichloro- and dichloro-pyrimidines with N-sodium carbamates. Tetrahedron, 2002, 58, 2147-2153.	1.0	11
84	Synthesis of stereo-defined \hat{l}_{\pm} -trifluoromethyl (Tfm)-malic units. Journal of Fluorine Chemistry, 2002, 114, 215-223.	0.9	12
85	An umpolung sulfoxide reagent as α-hydroxy and α-chloro benzyl carbanion equivalents. Tetrahedron Letters, 2002, 43, 6537-6540.	0.7	13
86	Enantioselective Synthesis of Fluorinated α-Amino Acids and Derivatives in Combination with Ring-Closing Metathesis:  Intramolecular π-Stacking Interactions as a Source of Stereocontrol. Organic Letters, 2001, 3, 2621-2624.	2.4	62
87	On the Additions of Lithium Methyl p-Tolyl Sulfoxide to N-(PMP)Arylaldimines. Molecules, 2001, 6, 424-432.	1.7	4
88	Unusual nonchelation controlled allylation of a N -monoprotected \hat{l} ±-amino aldehyde: stereoselective entry to nonracemic trifluoromethyl dipeptide isosteres. Journal of Fluorine Chemistry, 2001, 108, 245-252.	0.9	7
89	Solution and solid-phase synthesis of trifluoromethyl peptides and mimetics. Journal of Fluorine Chemistry, 2001, 112, 153-162.	0.9	13
90	Regioselective solid-phase 4-amino-de-chlorination of 2,4,6-trichloropyrimidine by resin-supported N -potassium carbamates. Tetrahedron Letters, 2001, 42, 1033-1035.	0.7	10

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91	Solution/solid-phase synthesis of partially modified retro- Ï^ [NHCH(CF 3)]-peptidyl hydroxamates. Tetrahedron Letters, 2001, 42, 3141-3144.	0.7	30
92	The â€~non-oxidative' chloro-Pummerer reaction: a highly stereoselective entry to β-chloro amines and aziridines. Tetrahedron Letters, 2001, 42, 3985-3988.	0.7	20
93	Synthesis of Nonracemic α-Trifluoromethyl α-Amino Acids from Sulfinimines of Trifluoropyruvate. European Journal of Organic Chemistry, 2001, 2001, 1449-1458.	1.2	57
94	Solid-phase synthesis of partially-modified retro and retro-inverso $\Gamma(NHCH(CF3))$ -peptides. Tetrahedron Letters, 2000, 41, 6517-6521.	0.7	24
95	Facile and Stereoselective Synthesis of Non-Racemic 3,3,3-Trifluoroalanine. Molecules, 2000, 5, 1251-1258.	1.7	12
96	Synthesis of Partially Modified Retro and Retroinverso Ï^[NHCH(CF3)]-Peptides. Organic Letters, 2000, 2, 1827-1830.	2.4	68
97	Stereoselective Mannich-Type Reaction of an Acyclic Ketimine with a Substituted Chlorotitanium Enolate: Efficient Approach tod-erythro-α-Trifluoromethylβ-hydroxyaspartic Units. Journal of Organic Chemistry, 1999, 64, 8731-8735.	1.7	58
98	Stereoselective Synthesis of \hat{I}^2 -Fluoroalkyl \hat{I}^2 -Amino Alcohol Units. ACS Symposium Series, 1999, , 127-141.	0.5	5
99	Stereoselective Total Synthesis of Enantiomerically Pure 1-Trifluoromethyl Tetrahydroisoquinoline Alkaloids. European Journal of Organic Chemistry, 1998, 1998, 435-440.	1.2	34
100	Stereocontrolled approaches to (+)- and $(\hat{a}^{2})^{-\hat{a}}$ -trifluoromethyl-GABOB, a new hydroxymethylene (statine) dipeptide isostere. Tetrahedron: Asymmetry, 1998, 9, 3731-3735.	1.8	28
101	Stereoselective Synthesis of Enantiopure Amino Compounds, via Mitsunobu Azidation of (2S,RS)-1-(p-Tolylsulfinyl)butan-2-ol. Journal of Chemical Research Synopses, 1998, , 666-667.	0.3	5
102	(R)-Trifluoro- and DifluoropyruvaldehydeN,S-Ketals: Chiral Synthetic Equivalents of β-Trifluoro and β-Difluoro α-Amino Aldehydesâ€. Journal of Organic Chemistry, 1998, 63, 7236-7243.	1.7	18
103	Two Practical and Efficient Approaches to Fluorinated and Nonfluorinated Chiral Î ² -Imino Sulfoxides. Journal of Organic Chemistry, 1998, 63, 6210-6219.	1.7	30
104	Highly Stereoselective Tandem Pummerer Reaction/α-Hydroxy Imine Rearrangement of E.P. β-Sulfinylenamines. Phosphorus, Sulfur and Silicon and the Related Elements, 1997, 120, 353-354.	0.8	1
105	Preparation of (R)-FluoropyruvaldehydeN,S-Ketals by Highly Stereospecific Tandem Pummerer Rearrangement/1,2-p-Tolylthio Group Migration of (R)-α-(Fluoroalkyl)-β-sulfinylenaminesâ€. Journal of Organic Chemistry, 1997, 62, 8031-8040.	1.7	22
106	Synthesis of N-Cbz-fluoropyruvaldehydeN,S-ketals: construction of highly stereoselective and high yielding synthetic reactions using multivariate modelling and design. Tetrahedron: Asymmetry, 1997, 8, 2817-2826.	1.8	7
107	N-Cbz-Trifluoropyruvaldehyde N,S-ketal: Absolute stereochemistry and addition of Grignard reagents. Highly stereoselective entry to trifluoro analogues of Ephedra alkaloids. Tetrahedron Letters, 1997, 38, 1847-1850.	0.7	16
108	Enantiomerically pure α-fluoroalkyl-α-amino acids: Synthesis of (R)-α-difluoromethyl-alanine and (S)-α-difluoromethyl-serine. Tetrahedron: Asymmetry, 1996, 7, 2321-2332.	1.8	37

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109	New Efficient Synthetic Routes to Enantiomerically Pure Fluoroalkyl (Arylsulfinyl)methyl Imines and Amines. Synlett, 1996, 1996, 887-889.	1.0	21
110	Stereoselective Reactions with î±-Sulfinyl Carbanions., 0,, 351-374.		5
111	Fluorinated Inhibitors of Matrix Metalloproteinases. , 0, , 99-115.		O