Alessandro Volonterio

List of Publications by Year
in descending order

111	2,538	159358	243296
papers	citations	30 h-index	44 g-index

153	153	153	2362
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Trifluoroethylamine Function as Peptide Bond Replacement. ChemMedChem, 2007, 2, 1693-1700.	1.6	137
2	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
3	Synthesis of Pyridazine-Based Scaffolds as Îł-Helix Mimetics. Organic Letters, 2007, 9, 3733-3736.	2.4	81
4	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
5	Synthesis, Structure and Conformation of Partially-Modified Retro- and Retro-InversoÏˆ[NHCH(CF3)]Gly Peptides. Chemistry - A European Journal, 2003, 9, 4510-4522.	1.7	72
6	Synthesis of 1,3,5-Trisubstituted Hydantoins by Regiospecific Domino Condensation/Aza-Michael/Oâ†'N Acyl Migration of Carbodiimides with Activated Îł,Î²-Unsaturated Carboxylic Acidsâ€. Journal of Organic Chemistry, 2005, 70, 2161-2170.	1.7	71
7	Stereocontrolled Synthesis of Ïˆ[CH(CF3)NH]Gly-Peptides. Organic Letters, 2003, 5, 3887-3890.	2.4	70
8	Synthesis of Partially Modified Retro and Retroinverso Ïˆ[NHCH(CF3)]-Peptides. Organic Letters, 2000, 2, 1827-1830.	2.4	68
9	Enantioselective Synthesis of Fluorinated Îł-Amino Acids and Derivatives in Combination with Ring-Closing Metathesis:â€‰Intramolecular Ï€-Stacking Interactions as a Source of Stereocontrol. Organic Letters, 2001, 3, 2621-2624.	2.4	62
10	Highly Stereoselective Tandem Aza-Michael Additionâ€“Enolate Protonation to Form Partially Modified Retropeptide Mimetics Incorporating a Trifluoroalanine Surrogate. Angewandte Chemie - International Edition, 2003, 42, 2060-2063.	7.2	62
11	Stereoselective Mannich-Type Reaction of an Acyclic Ketimine with a Substituted Chlorotitanium Enolate:Â Efficient Approach tod-erythro-Îł-TrifluoromethylÎ²-hydroxyaspartic Units. Journal of Organic Chemistry, 1999, 64, 8731-8735.	1.7	58
12	Synthesis of Nonracemic Îł-Trifluoromethyl Îł-Amino Acids from Sulfinimines of Trifluoropyruvate. European Journal of Organic Chemistry, 2001, 2001, 1449-1458.	1.2	57
13	Fluorinated peptidomimetics: synthesis, conformational and biological features. Journal of Fluorine Chemistry, 2004, 125, 1735-1743.	0.9	56
14	Synthesis and evaluation of stereopure Îł-trifluoromethyl-malic hydroxamates as inhibitors of matrix metalloproteinases. Tetrahedron Letters, 2004, 45, 1611-1615.	0.7	47
15	Assembly of Hybrid Synthetic Capsules. Angewandte Chemie - International Edition, 2007, 46, 242-244.	7.2	47
16	Ïˆ[CH(CF3)NH]Gly-peptides: synthesis and conformation analysis. Organic and Biomolecular Chemistry, 2009, 7, 2286.	1.5	43
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	One-Step Synthesis ofO-Benzyl Hydroxamates from Unactivated Aliphatic and Aromatic Esters. Journal of Organic Chemistry, 2005, 70, 6925-6928.	1.7	41

#	Article	IF	Citations
19	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
20	Chitosan-Graft-Branched Polyethylenimine Copolymers: Influence of Degree of Grafting on Transfection Behavior. PLoS ONE, 2012, 7, e34711.	1.1	40
21	Synthesis of Multifunctional PAMAMâ€“Aminoglycoside Conjugates with Enhanced Transfection Efficiency. Bioconjugate Chemistry, 2013, 24, 1928-1936.	1.8	38
22	Enantiomerically pure Î±-fluoroalkyl-Î±-amino acids: Synthesis of (R)-Î±-difluoromethyl-alanine and (S)-Î±-difluoromethyl-serine. Tetrahedron: Asymmetry, 1996, 7, 2321-2332.	1.8	37
23	Synthesis of enantiomerically pure Î±-ethyl, Î±-vinyl and Î±-ethynyl 3,3,3-trifluoro alaninates. Journal of Fluorine Chemistry, 2004, 125, 573-577.	0.9	36
24	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
25	Stereoselective Total Synthesis of Enantiomerically Pure 1-Trifluoromethyl Tetrahydroisoquinoline Alkaloids. European Journal of Organic Chemistry, 1998, 1998, 435-440.	1.2	34
26	Stereoselective synthesis of (R)- and (S)-Î±-trifluoromethyl aspartic acid via titanium enolate addition to a sulfinimine of trifluoropyruvate. Tetrahedron: Asymmetry, 2004, 15, 889-893.	1.8	32
27	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
28	The â€œNon-Oxidativeâ€•Chloro-Pummerer Reaction: Novel Stereospecific Entry to Vicinal Chloroamines and Aziridines. European Journal of Organic Chemistry, 2002, 2002, 3336-3340.	1.2	31
29	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
30	Two Practical and Efficient Approaches to Fluorinated and Nonfluorinated Chiral Î²-Imino Sulfoxides. Journal of Organic Chemistry, 1998, 63, 6210-6219.	1.7	30
31	Solution/solid-phase synthesis of partially modified retro- Ï^ [NHCH(CF 3)]-peptidyl hydroxamates. Tetrahedron Letters, 2001, 42, 3141-3144.	0.7	30
32	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
33	Stereocontrolled approaches to (+)- and (â^')-Î³-trifluoromethyl-GABOB, a new hydroxymethylene (statine) dipeptide isostere. Tetrahedron: Asymmetry, 1998, 9, 3731-3735.	1.8	28
34	A Mild, Efficient Approach for the Synthesis of 1,5â€Disubstituted Hydantoins. European Journal of Organic Chemistry, 2009, 2009, 6179-6188.	1.2	27
35	Solution/Solid-Phase Synthesis of Partially Modified Retro- and Retro-Inverso-Ï^[NHCH(CF3)]-Peptidyl Hydroxamates and Their Evaluation as MMP-9 Inhibitors. European Journal of Organic Chemistry, 2002, 2002, 428-438.	1.2	26
36	Solid-phase synthesis of partially-modified retro and retro-inverso Ï^[NHCH(CF3)]-peptides. Tetrahedron Letters, 2000, 41, 6517-6521.	0.7	24

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37	New Fluorinated Peptidomimetics through Tandem Aza-Michael Addition to Î±-Trifluoromethyl Acrylamide Acceptors: Synthesis and Conformational Study in Solid State and Solution. Journal of Organic Chemistry, 2009, 74, 3122-3132.	1.7	24
38	Role of Generation on Successful DNA Delivery of PAMAMâ€“(Guanidino)Neomycin Conjugates. ACS Omega, 2019, 4, 6796-6807.	1.6	24
39	Domino condensation/aza-Michael/Oâ†'N acyl migration of carbodiimides with activated Î±,Î²-unsaturated carboxylic acids to form hydantoins. Tetrahedron Letters, 2003, 44, 8549-8551.	0.7	23
40	Three-Component, One-Pot Sequential Synthesis ofN-Aryl,Nâ€˜-Alkyl BarbituratesÂ§. Organic Letters, 2007, 9, 841-844.	2.4	23
41	Preparation of (R)-FluoropyruvaldehydeN,S-Ketals by Highly Stereospecific Tandem Pummerer Rearrangement/1,2-p-Tolylthio Group Migration of (R)-Î±-(Fluoroalkyl)-Î²-sulfinylenaminesâ€. Journal of Organic Chemistry, 1997, 62, 8031-8040.	1.7	22
42	Domino synthesis of 1,3,5-trisubstituted hydantoins: a DFT study. Organic and Biomolecular Chemistry, 2011, 9, 5156.	1.5	22
43	Regioselective multicomponent sequential synthesis of hydantoins. Organic and Biomolecular Chemistry, 2012, 10, 9538.	1.5	22
44	An attempt for fast separation of enantiomers in nanoâ€liquid chromatography and capillary electrochromatography. Electrophoresis, 2017, 38, 1932-1938.	1.3	22
45	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
46	New Efficient Synthetic Routes to Enantiomerically Pure Fluoroalkyl (Arylsulfinyl)methyl Imines and Amines. Synlett, 1996, 1996, 887-889.	1.0	21
47	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
48	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
49	The â€˜non-oxidativeâ€™ chloro-Pummerer reaction: a highly stereoselective entry to Î²-chloro amines and aziridines. Tetrahedron Letters, 2001, 42, 3985-3988.	0.7	20
50	Conjugated additions of amines and Î²-amino alcohols to trifluorocrotonic acid derivatives: synthesis of Ï^[NHCH(CF3)]-retro-thiorphan. Tetrahedron Letters, 2007, 48, 589-593.	0.7	20
51	An umpolung sulfoxide reagent for use as a functionalized benzyl carbanion equivalent. Tetrahedron, 2011, 67, 5268-5281.	1.0	20
52	(R)-Trifluoro- and DifluoropyruvaldehydeN,S-Ketals:Â Chiral Synthetic Equivalents of Î²-Trifluoro and Î²-Difluoro Î±-Amino Aldehydesâ€. Journal of Organic Chemistry, 1998, 63, 7236-7243.	1.7	18
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	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

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55	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
56	Stereocontrolled solid-phase synthesis of fluorinated partially-modified retropeptides via tandem aza-Michael/enolate-protonation. Tetrahedron Letters, 2003, 44, 7019-7022.	0.7	16
57	Synthesis of Î²[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
58	Diversity Oriented Combinatorial Synthesis of Multivalent Glycomimetics Through a Multicomponent Domino Process. ACS Combinatorial Science, 2014, 16, 711-720.	3.8	16
59	Aminoglycosides: From Antibiotics to Building Blocks for the Synthesis and Development of Gene Delivery Vehicles. Antibiotics, 2020, 9, 504.	1.5	16
60	Traceless solid-phase synthesis of 2,4,6-chlorodiamino and triaminopyrimidines. Tetrahedron, 2003, 59, 7147-7156.	1.0	14
61	Solution and solid-phase synthesis of trifluoromethyl peptides and mimetics. Journal of Fluorine Chemistry, 2001, 112, 153-162.	0.9	13
62	An umpolung sulfoxide reagent as Î±-hydroxy and Î±-chloro benzyl carbanion equivalents. Tetrahedron Letters, 2002, 43, 6537-6540.	0.7	13
63	Synthesis of 1-aryl-tetralins and 4-aryl-benzopyrans by sulfoxide-mediated benzylic carbocation cyclizations. Tetrahedron Letters, 2005, 46, 8723-8726.	0.7	13
64	Facile and Stereoselective Synthesis of Non-Racemic 3,3,3-Trifluoroalanine. Molecules, 2000, 5, 1251-1258.	1.7	12
65	Synthesis of stereo-defined Î±-trifluoromethyl (Tfm)-malic units. Journal of Fluorine Chemistry, 2002, 114, 215-223.	0.9	12
66	Synthesis of diverse spiroisoxazolidinohydantoins by totally regio- and diasteroselective 1,3-dipolar cycloadditions. RSC Advances, 2011, 1, 1250.	1.7	12
67	Multi-component synthesis of peptideâ€“sugar conjugates. Organic and Biomolecular Chemistry, 2013, 11, 2421.	1.5	12
68	Regioselective 4-amino-de-chlorination of trichloro- and dichloro-pyrimidines with N-sodium carbamates. Tetrahedron, 2002, 58, 2147-2153.	1.0	11
69	Synthesis of Nâ€Glycosyl Conjugates through a Multicomponent Domino Process. European Journal of Organic Chemistry, 2014, 2014, 2386-2397.	1.2	11
70	Multifunctional Neomycin-Triazine-Based Cationic Lipids for Gene Delivery with Antibacterial Properties. Bioconjugate Chemistry, 2021, 32, 690-701.	1.8	11
71	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
72	Title is missing!. Angewandte Chemie, 2003, 115, 2106-2109.	1.6	10

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73	Three-component, one-pot sequential synthesis of glyco-hydantoin conjugates. Organic and Biomolecular Chemistry, 2011, 9, 8379.	1.5	10
74	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
75	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
76	Dendrimeric Guanidinoneomycin for Cellular Delivery of Bioâ€macromolecules. ChemBioChem, 2017, 18, 119-125.	1.3	8
77	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
78	Unusual nonchelation controlled allylation of a N -monoprotected Î±-amino aldehyde: stereoselective entry to nonracemic trifluoromethyl dipeptide isosteres. Journal of Fluorine Chemistry, 2001, 108, 245-252.	0.9	7
79	Stereochemically pure Î±-trifluoromethyl-malic hydroxamates: synthesis and evaluation as inhibitors of matrix metalloproteinases. Tetrahedron, 2006, 62, 10171-10181.	1.0	7
80	Multicomponent Synthesis of Peptideâ€Sugar Conjugates Incorporating Hexafluorovaline. Advanced Synthesis and Catalysis, 2010, 352, 2791-2798.	2.1	7
81	Multicomponent Synthesis of N-Carbamoyl Hydantoin Derivatives. Synlett, 2013, 24, 727-732.	1.0	7
82	Multicomponent Domino Synthesis and Antibacterial Activity of Neomycinâ€“Sugar Conjugates. Synthesis, 2016, 48, 4443-4450.	1.2	7
83	Design, synthesis, and conformational analysis of 3-cyclo-butylcarbamoyl hydantoins as novel hydrogen bond driven universal peptidomimetics. Organic and Biomolecular Chemistry, 2018, 16, 521-525.	1.5	7
84	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
85	Stereoselective Synthesis of Î²-Fluoroalkyl Î²-Amino Alcohol Units. ACS Symposium Series, 1999, , 127-141.	0.5	5
86	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
87	Stereoselective Reactions withÎ±-Sulfinyl Carbanions. , 0, , 351-374.		5
88	Three-component sequential synthesis of N,Nâ€²-disubstituted 5-arylidenedihydropyrimidine-2,4-dione. Tetrahedron Letters, 2012, 53, 4733-4737.	0.7	5
89	Enantioseparation of chiral (benzylsulfinyl)benzamide sulfoxides by capillary electrophoresis using cyclodextrins as chiral selectors. Journal of Chromatography A, 2022, 1672, 463027.	1.8	5
90	On the Additions of Lithium Methyl p-Tolyl Sulfoxide to N-(PMP)Arylaldimines. Molecules, 2001, 6, 424-432.	1.7	4

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91	Three-Component, One-Pot Sequential Synthesis of 1,3-Disubstituted 5-Arylhydantoins. Synlett, 2008, 2008, 3016-3020.	1.0	4
92	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
93	Multicomponent Approach to Libraries of Substituted Dihydroorotic Acid Amides. ACS Combinatorial Science, 2019, 21, 705-715.	3.8	4
94	The mass spectrometric behaviour of fluorinated ephedrines under different protonating conditions. Il Farmaco, 2003, 58, 69-77.	0.9	3
95	Synthesis and Properties of New Fluorinated Peptidomimetics. ACS Symposium Series, 2005, , 572-592.	0.5	3
96	Multicomponent diversity oriented synthesis of multivalent glycomimetics containing hexafluorovaline. Tetrahedron, 2015, 71, 7630-7637.	1.0	3
97	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
98	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
99	A Mild, Efficient Synthesis of gem-Difluorodihydrouracils. Synthesis, 2010, 2010, 651-660.	1.2	2
100	Guanidinoneomycin-maleimide molecular transporter: synthesis, chemistry and cellular uptake. Organic and Biomolecular Chemistry, 2021, 19, 6513-6520.	1.5	2
101	Synthesis of Orthogonally Protected Labionin. Journal of Organic Chemistry, 2021, 86, 4313-4319.	1.7	2
102	Solid-Phase Synthesis of Gly-Î˙[CH(CF₃)NH]-Peptides. Journal of Organic Chemistry, 2021, 86, 9225-9232.	1.7	2
103	Highly Stereoselective Tandem Pummerer Reaction/Î±-Hydroxy Imine Rearrangement of E.P. Î²-Sulfinylenamines. Phosphorus, Sulfur and Silicon and the Related Elements, 1997, 120, 353-354.	0.8	1
104	Domino Condensation/Aza-Michael/Oâ†'N Acyl Migration of Carbodiimides with Activated Î±,Î²-Unsaturated Carboxylic Acids to Form Hydantoins.. ChemInform, 2004, 35, no.	0.1	0
105	Fluorinated Peptidomimetics: Synthesis, Conformational and Biological Features. ChemInform, 2005, 36, no.	0.1	0
106	Synthesis of 1,3,5-Trisubstituted Hydantoins by Regiospecific Domino Condensation/Aza-Michael/Oâ†'N Acyl Migration of Carbodiimides with Activated Î±,Î²-Unsaturated Carboxylic Acids.. ChemInform, 2005, 36, no.	0.1	0
107	One-Step Synthesis of O-Benzyl Hydroxamates from Unactivated Aliphatic and Aromatic Esters.. ChemInform, 2006, 37, no.	0.1	0
108	Fluorinated Inhibitors of Matrix Metalloproteinases. , 0, , 99-115.		0

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109	Time-resolved fluorescence spectroscopic investigation of cationic polymer/DNA complex formation. , 2011, , .		0
110	Probing the Binding Affinity and Proteolytic Stability of Trifluoromethyl Peptide Mimics as Protease Inhibitors. Modecular Medicine and Medicinal, 2012, , 63-90.	0.4	0
111	Fluorescence lifetime spectroscopy: a new technique for the characterization of polyplexes. , 2014, , .		0