Andrea Trabocchi

List of Publications by Year
in descending order

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100 papers	2,054 citations	279798 23 h-index	302126 39 g-index
133 all docs	133 docs citations	133 times ranked	2348 citing authors

#	Article	IF	Citations
1	A New Family of Cinchona-Derived Amino Phosphine Precatalysts: Application to the Highly Enantio- and Diastereoselective Silver-Catalyzed Isocyanoacetate Aldol Reaction. Journal of the American Chemical Society, 2011, 133, 1710-1713.	13.7	225
2	Peptidomimetic toolbox for drug discovery. Chemical Society Reviews, 2020, 49, 3262-3277.	38.1	181
3	Suzuki Reaction of Vinyl Triflates from Six- and Seven-MemberedN-Alkoxycarbonyl Lactams with Boronic Acids and Esters. Journal of Organic Chemistry, 2001, 66, 2459-2465.	3.2	77
4	γ- and δ-Amino Acids: Synthetic Strategies and Relevant Applications. Current Organic Chemistry, 2005, 9, 1127-1153.	1.6	74
5	Structural diversity of bicyclic amino acids. Amino Acids, 2008, 34, 1-24.	2.7	67
6	Synthesis and Conformational Analysis of Small Peptides Containing 6-Endo-BT(t)L Scaffolds as Reverse Turn Mimetics. Journal of Organic Chemistry, 2002, 67, 7483-7492.	3.2	51
7	Click-Chemistry-Derived Triazole Ligands of Argininеâ˜'Glycineâ˜'Aspartate (RGD) Integrins with a Broad Capacity To Inhibit Adhesion of Melanoma Cells and Both in Vitro and in Vivo Angiogenesis. Journal of Medicinal Chemistry, 2010, 53, 7119-7128.	6.4	49
8	Carbohydrates in diversity-oriented synthesis: challenges and opportunities. Organic and Biomolecular Chemistry, 2016, 14, 808-825.	2.8	44
9	Synthesis and Reactivity of Bicycles Derived from Tartaric Acid and Î±-Amino Acids:Â A Novel Class of Conformationally Constrained Dipeptide Isosteres Based upon Enantiopure 3-Aza-6,8-dioxabicyclo[3.2.1]octane-7-carboxylic Acid. Journal of Organic Chemistry, 1999, 64, 7347-7364.	3.2	43
10	Exploring the chemical space and the bioactivity profile of lactams: a chemoinformatic study. RSC Advances, 2019, 9, 27105-27116.	3.6	37
11	Convenient Route to Enantiopure Fmoc-Protected Morpholine-3-carboxylic Acid. Journal of Organic Chemistry, 2007, 72, 4254-4257.	3.2	36
12	Stereoselective cyclopropanation of serine- and threonine-derived oxazines to access new morpholine-based scaffolds. Organic and Biomolecular Chemistry, 2008, 6, 3328.	2.8	33
13	Diversityâ€Oriented Synthesis of Morpholineâ€Containing Molecular Scaffolds. Chemistry - A European Journal, 2009, 15, 7871-7875.	3.3	33
14	Diversity-Oriented Synthesis as a Tool for Chemical Genetics. Molecules, 2014, 19, 16506-16528.	3.8	32
15	Bicyclic acetals: biological relevance, scaffold analysis, and applications in diversity-oriented synthesis. Organic and Biomolecular Chemistry, 2019, 17, 1037-1052.	2.8	32
16	Skeletal Diversity from Carbohydrates: Use of Mannose for the Diversity-Oriented Synthesis of Polyhydroxylated Compounds. Journal of Organic Chemistry, 2015, 80, 2182-2191.	3.2	30
17	Occurrence of Morpholine in Central Nervous System Drug Discovery. ACS Chemical Neuroscience, 2021, 12, 378-390.	3.5	30
18	Identification of Inhibitors of Drug-Resistant Candida albicans Strains from a Library of Bicyclic Peptidomimetic Compounds. Journal of Medicinal Chemistry, 2010, 53, 2502-2509.	6.4	29

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19	Enantiospecific synthesis of 3-aza-6,8-dioxa-bicyclo[3.2.1]octane carboxylic acids from erythrose. Tetrahedron, 2003, 59, 5251-5258.	1.9	28
20	Pd(0)-Catalyzed Cross-Coupling Reactions of Boron Derivatives with a Lactam-Derived N-Boc Enol Triflate. Organic Letters, 2000, 2, 1241-1242.	4.6	27
21	Skeletal diversity by sequential one-pot and stepwise routes using morpholine ester scaffolds. Tetrahedron Letters, 2010, 51, 6282-6285.	1.4	27
22	¹²⁵I-Radiolabeled Morpholine-Containing Arginineâ€“Glycineâ€“Aspartate (RGD) Ligand of Î±_vÎ²₃ Integrin As a Molecular Imaging Probe for Angiogenesis. Journal of Medicinal Chemistry, 2012, 55, 5024-5033.	6.4	26
23	Morpholine-based RGD-cyclopentapeptides as Î±vÎ²3/Î±vÎ²5 integrin ligands: Role of configuration towards receptor binding affinity. Bioorganic and Medicinal Chemistry, 2009, 17, 1542-1549.	3.0	25
24	Synthesis of a new enantiopure bicyclic Î³/Î´-amino acid (BTKa) derived from tartaric acid and Î±-amino acetophenone. Tetrahedron, 2002, 58, 9865-9870.	1.9	24
25	Novel small molecules for the treatment of infections caused byCandida albicans: a patent review (2002 â€“ 2010). Expert Opinion on Therapeutic Patents, 2011, 21, 381-397.	5.0	24
26	Use of Click-Chemistry in the Development of Peptidomimetic Enzyme Inhibitors. Current Medicinal Chemistry, 2014, 21, 1467-1477.	2.4	23
27	Effect of C-ring modifications in benzo[c]quinolizin-3-ones, new selective inhibitors of human 5Î±-reductase 1. Bioorganic and Medicinal Chemistry, 2001, 9, 1385-1393.	3.0	22
28	Diversity-Oriented Synthesis and Chemoinformatic Analysis of the Molecular Diversity of sp3-Rich Morpholine Peptidomimetics. Frontiers in Chemistry, 2018, 6, 522.	3.6	22
29	Evaluation of stereochemically dense morpholine-based scaffolds as proline surrogates in Î²-turn peptides. Organic and Biomolecular Chemistry, 2010, 8, 916-924.	2.8	20
30	Short synthesis of polyfunctional sp3-rich threonine-derived morpholine scaffolds. Organic and Biomolecular Chemistry, 2017, 15, 9710-9717.	2.8	19
31	Introduction of the new dipeptide isostere 7-endo-BtA as reverse turn inducer in a Bowman-Birk proteinase inhibitor. Bioorganic and Medicinal Chemistry, 2001, 9, 1625-1632.	3.0	18
32	A new bicyclic proline-mimetic amino acid. Tetrahedron Letters, 2003, 44, 3489-3492.	1.4	18
33	Peptidomimetics as protein arginine deiminase 4 (PAD4) inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 466-471.	5.2	18
34	Novel matrix metalloproteinase inhibitors: an updated patent review (2014 - 2020). Expert Opinion on Therapeutic Patents, 2021, 31, 509-523.	5.0	18
35	Cyclopropane Pipecolic Acids as Templates for Linear and Cyclic Peptidomimetics: Application in the Synthesis of an Argâ€Glyâ€Asp (RGD)â€Containing Peptide as an Î±_vÎ²₃ Integrin Ligand. Chemistry - A European Journal, 2014, 20, 11187-11203.	3.3	17
36	Two-step one-pot synthesis of dihydropyrazinones as Xaa-Ser dipeptide isosteres through morpholine acetal rearrangement. Organic and Biomolecular Chemistry, 2015, 13, 7013-7019.	2.8	16

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37	Diversity-oriented synthesis as a tool to expand the chemical space of DNA-encoded libraries. Bioorganic and Medicinal Chemistry, 2021, 41, 116218.	3.0	16
38	Diastereoselective Synthesis of Highly Constrained Spiroâ€Î²â€Lactams by the Staudinger Reaction Using an Unsymmetrical Bicyclic Ketene. European Journal of Organic Chemistry, 2007, 2007, 4594-4599.	2.4	15
39	Chemical genetics approach to identify new small molecule modulators of cell growth by phenotypic screening of Saccharomyces cerevisiae strains with a library of morpholine-derived compounds. Organic and Biomolecular Chemistry, 2010, 8, 5552.	2.8	15
40	Configurationally driven folding of model tetrapeptides containing <scp>L</scp>â€•or <scp>D</scp>â€•morpholineâ€3â€carboxylic acids as Î²â€turn nucleators. Chirality, 2009, 21, 584-594.	2.6	14
41	Cyclic RGD peptidomimetics containing 4- and 5-amino-cyclopropane pipecolic acid (CPA) templates as dual Î±VÎ²3 and Î±5Î²1 integrin ligands. Bioorganic and Medicinal Chemistry, 2016, 24, 703-711.	3.0	14
42	A Systems Biology Approach to Dissection of the Effects of Small Bicyclic Peptidomimetics on a Panel of Saccharomyces cerevisiae Mutants. Journal of Biological Chemistry, 2010, 285, 23477-23485.	3.4	13
43	One-pot sequential Ti-/Cu-catalysis for tandem amidation/Ullmann-type cyclization: synthesis of model benzodiazepine(di)ones promoted by microwave irradiation. Organic and Biomolecular Chemistry, 2012, 10, 2780.	2.8	13
44	Identification of highly potent and selective MMP2 inhibitors addressing the S1â€² subsite with d-proline-based compounds. Bioorganic and Medicinal Chemistry, 2019, 27, 1891-1902.	3.0	13
45	Synthesis and Conformational Analysis of Constrained Î²-Turn Mimetics Incorporating a Bicyclic Turn Inducer by Use of the Petasis Three-Component Reaction on Solid Phase. European Journal of Organic Chemistry, 2007, 2007, 1659-1668.	2.4	12
46	Radiosynthesis and micro-SPECT analysis of triazole-based RGD integrin ligands as non-peptide molecular imaging probes for angiogenesis. Bioorganic and Medicinal Chemistry, 2015, 23, 1112-1122.	3.0	12
47	Recent advances in copper-catalyzed imine-based multicomponent reactions. Tetrahedron Letters, 2020, 61, 152083.	1.4	12
48	Cyclic DGR-peptidomimetic containing a bicyclic reverse turn inducer as a selective Î±vÎ²5 integrin ligand. Amino Acids, 2010, 38, 329-337.	2.7	11
49	Bicyclic peptidomimetics targeting secreted aspartic protease 2 (SAP2) from Candida albicans reveal a constrained inhibitory chemotype. Bioorganic and Medicinal Chemistry, 2012, 20, 7206-7213.	3.0	11
50	d-Proline-based peptidomimetic inhibitors of anthrax lethal factor. European Journal of Medicinal Chemistry, 2012, 56, 96-107.	5.5	11
51	Insight into the structural similarity between HIV protease and secreted aspartic protease-2 and binding mode analysis of HIV-Candida albicans inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 936-943.	5.2	11
52	Insight to the binding mode of triazole RGD-peptidomimetics to integrin-rich cancer cells by NMR and molecular modeling. Bioorganic and Medicinal Chemistry, 2016, 24, 989-994.	3.0	11
53	Design and synthesis of bicyclic acetals as Beta Secretase (BACE1) inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 5077-5083.	3.0	11
54	Nanostarsâ€”decorated microfluidic sensors for surface enhanced Raman scattering targeting of biomolecules. JPhys Photonics, 2020, 2, 024008.	4.6	11

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55	Gold Nanostars Bioconjugation for Selective Targeting and SERS Detection of Biofluids. Nanomaterials, 2021, 11, 665.	4.1	11
56	Solvent-Dependent Conformational Behaviour of Model Tetrapeptides Containing a Bicyclic Proline Mimetic. European Journal of Organic Chemistry, 2004, 2004, 4621-4627.	2.4	10
57	Synthesis of a constrained tricyclic scaffold based on trans-4-hydroxy-l-proline. Tetrahedron Letters, 2005, 46, 7813-7816.	1.4	10
58	Synthesis of Glycidol- and Sugar-Derived Bicyclic Î²- and Î³/Î´-Amino Acids for Peptidomimetic Design. European Journal of Organic Chemistry, 2005, 2005, 4372-4381.	2.4	10
59	Synthesis of a bicyclic Î´-amino acid as a constrained Gly-Asn dipeptide isostere. Amino Acids, 2008, 35, 37-44.	2.7	10
60	Identification of constrained peptidomimetic chemotypes as HIV protease inhibitors. European Journal of Medicinal Chemistry, 2014, 84, 444-453.	5.5	10
61	Triazole RGD antagonist reverts TGFÎ²1-induced endothelial-to-mesenchymal transition in endothelial precursor cells. Molecular and Cellular Biochemistry, 2017, 424, 99-110.	3.1	10
62	Smart Design of Smallâ€Molecule Libraries: When Organic Synthesis Meets Cheminformatics. ChemBioChem, 2019, 20, 1115-1123.	2.6	10
63	Synthesis of diverse phenylglycine derivatives via transformation of Ugi four-component condensation primary adducts. Tetrahedron Letters, 2011, 52, 2673-2675.	1.4	9
64	Copperâ€Catalyzed A³â€Coupling for the Diversityâ€Oriented Synthesis of Prolineâ€Derived Alkynylâ€Substituted Peptidomimetic Scaffolds. European Journal of Organic Chemistry, 2019, 2019, 6203-6210.	2.4	9
65	Synthesis and conformational studies of a hybrid Î²-alanineâ€“morpholine tetramer. Tetrahedron, 2012, 68, 9701-9705.	1.9	8
66	Occurrence of the d-Proline Chemotype in Enzyme Inhibitors. Symmetry, 2019, 11, 558.	2.2	8
67	Breakthroughs in Medicinal Chemistry: New Targets and Mechanisms, New Drugs, New Hopesâ€“6. Molecules, 2020, 25, 119.	3.8	8
68	Discovery of a d-pro-lys peptidomimetic inhibitor of MMP9: Addressing the gelatinase selectivity beyond S1â€² subsite. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127467.	2.2	8
69	Computational-aided design of a library of lactams through a diversity-oriented synthesis strategy. Bioorganic and Medicinal Chemistry, 2020, 28, 115539.	3.0	8
70	Heterocyclic HIV-Protease Inhibitors. Current Medicinal Chemistry, 2013, 20, 3693-3710.	2.4	8
71	Diversityâ€Oriented Synthesis and Chemoinformatics: A Fruitful Synergy towards Better Chemical Libraries. European Journal of Organic Chemistry, 0, , .	2.4	8
72	Evaluation of efficacy, pharmacokinetics and tolerability of peptidomimetic aspartic proteinase inhibitors as cream formulation in experimental vaginal candidiasis. Journal of Pharmacy and Pharmacology, 2014, 66, 1094-1101.	2.4	7

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73	A study of ad-proline peptidomimetic inhibitor of melanoma and endothelial cell invasion through activity towards MMP-2 and MMP-9. MedChemComm, 2015, 6, 277-282.	3.4	7
74	Dual Iminium- and Lewis Base Catalyzed Moritaâ€“Baylisâ€“Hillman Reaction on Cyclopent-2-enone. Synlett, 2018, 29, 820-824.	1.8	7
75	A Glucoseâ€Derived Î±â€Hydroxy Aldehyde for the Petasis Reaction: Facile Access to Polyfunctional Î´â€Amino Acids. European Journal of Organic Chemistry, 2020, 2020, 4227-4234.	2.4	7
76	Principles and applications of small molecule peptidomimetics. , 2020, , 163-195.		7
77	3-Aza-6,8-dioxabicyclo[3.2.1]octanes as new enantiopure heteroatom-rich tropane-like ligands of human dopamine transporter. Bioorganic and Medicinal Chemistry, 2006, 14, 5110-5120.	3.0	6
78	Role of Sideâ€Chain Bioisosteres in Determining the Binding Affinity of Click Chemistry Derived RGD Peptidomimetics to Î±_vÎ²₃ Integrin. European Journal of Organic Chemistry, 2014, 2014, 7595-7604.	2.4	6
79	Combination of click chemistry and sulfonamides to develop three-armed triazole compounds. Tetrahedron, 2014, 70, 5439-5449.	1.9	6
80	Deciphering the mechanism of action of 089, a compound impairing the fungal cell cycle. Scientific Reports, 2018, 8, 5964.	3.3	6
81	Multitargeting application of proline-derived peptidomimetics addressing cancer-related human matrix metalloproteinase 9 and carbonic anhydrase II. European Journal of Medicinal Chemistry, 2021, 214, 113260.	5.5	6
82	Design, Synthesis, and Applications of 3-Aza-6,8-Dioxabicyclo[3.2.1]Octane-Based Scaffolds for Peptidomimetic Chemistry. Synlett, 2006, 2006, 0331-0353.	1.8	5
83	Chemical genetics approach to drug discovery by diversity-oriented synthesis (DOS) of peptidomimetics. Pure and Applied Chemistry, 2011, 83, 687-698.	1.9	5
84	Breakthroughs in Medicinal Chemistry: New Targets and Mechanisms, New Drugs, New Hopesâ€“7. Molecules, 2020, 25, 2968.	3.8	5
85	A solid-phase approach towards the development of 3-aza-6,8-dioxabicyclo[3.2.1]octane scaffolds. Molecular Diversity, 2000, 6, 245-250.	3.9	4
86	LiNTf2-Catalyzed Aminolysis of Lactones with Stoichiometric Quantities of Amines. Synlett, 2008, 2008, 189-192.	1.8	4
87	Combination of multicomponent KA² and Pausonâ€“Khand reactions: short synthesis of spirocyclic pyrrolocyclopentenones. Beilstein Journal of Organic Chemistry, 2020, 16, 200-211.	2.2	4
88	Synthesis of morpholine derivatives using the Castagnoli-Cushman reaction as BACE1 inhibitors: Unexpected binding activity of cyclic thioamides. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127211.	2.2	4
89	Synthetic approaches toward small molecule libraries. , 2020, , 1-34.		3
90	Identification of a Common Pharmacophore for Binding to MMP2 and RGD Integrin: Towards a Multitarget Approach to Inhibit Cancer Angiogenesis and Metastasis. Molecules, 2022, 27, 1249.	3.8	3

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91	Design and Synthesis of Novel Raman Reporters for Bioorthogonal SERS Nanoprobes Engineering. International Journal of Molecular Sciences, 2022, 23, 5573.	4.1	3
92	3-Aza-8,10-dioxa-bicyclo[5.2.1]decane (9-exo BTKa) carboxylic acid as a new reverse turn inducer: synthesis and conformational analysis of a model peptide. Tetrahedron, 2006, 62, 1575-1582.	1.9	2
93	Synthesis of a Bicyclic Proline Analogue from l-Ascorbic Acid. Synthesis, 2006, 2006, 3122-3126.	2.3	2
94	Identification of Novel Human Breast Carcinoma (MDA-MB-231) Cell Growth Modulators from a Carbohydrate-Based Diversity Oriented Synthesis Library. Molecules, 2016, 21, 1405.	3.8	2
95	Diversity-Oriented Synthesis and Chemical Genetics of Peptidomimetics to Address Lead Discovery of Anti-Infective Agents. Proceedings (mdpi), 2017, 1, .	0.2	1
96	Modular synthesis of 2,4-diaminoanilines as CNS drug-like non-covalent inhibitors of asparagine endopeptidase. Bioorganic and Medicinal Chemistry, 2022, 63, 116746.	3.0	1
97	Design and synthesis of bioactive compounds. Bioorganic and Medicinal Chemistry, 2017, 25, 5031.	3.0	0
98	Relations between Effects and Structure of Small Bicyclic Molecules on the Complex Model System Saccharomyces cerevisiae. Frontiers in Pharmacology, 2017, 8, 170.	3.5	0
99	3D printing of multifunctional optofluidic systems for high-sensitive detection of pathological biomarkers in liquid biopsies. , 2020, , .		0
100	Design, synthesis and evaluation of RGD peptidomimetic â€“ Gold nanostar conjugates as M21 cell adhesion inhibitors. Bioorganic Chemistry, 2022, 126, 105873.	4.1	0