

# Andrea Trabocchi

## List of Publications by Year in descending order

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100  
papers

2,054  
citations

279701

23  
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302012

39  
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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. <i>Journal of the American Chemical Society</i> , 2011, 133, 1710-1713.	6.6	225
2	Peptidomimetic toolbox for drug discovery. <i>Chemical Society Reviews</i> , 2020, 49, 3262-3277.	18.7	181
3	Suzuki Reaction of Vinyl Triflates from Six- and Seven-Membered N-Alkoxycarbonyl Lactams with Boronic Acids and Esters. <i>Journal of Organic Chemistry</i> , 2001, 66, 2459-2465.	1.7	77
4	α- and β-Amino Acids: Synthetic Strategies and Relevant Applications. <i>Current Organic Chemistry</i> , 2005, 9, 1127-1153.	0.9	74
5	Structural diversity of bicyclic amino acids. <i>Amino Acids</i> , 2008, 34, 1-24.	1.2	67
6	Synthesis and Conformational Analysis of Small Peptides Containing 6-Endo-BT(t)L Scaffolds as Reverse Turn Mimetics. <i>Journal of Organic Chemistry</i> , 2002, 67, 7483-7492.	1.7	51
7	Click-Chemistry-Derived Triazole Ligands of Arginine~Glycine~Aspartate (RGD) Integrins with a Broad Capacity To Inhibit Adhesion of Melanoma Cells and Both in Vitro and in Vivo Angiogenesis. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 7119-7128.	2.9	49
8	Carbohydrates in diversity-oriented synthesis: challenges and opportunities. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 808-825.	1.5	44
9	Synthesis and Reactivity of Bicycles Derived from Tartaric Acid and ±-Amino Acids: A Novel Class of Conformationally Constrained Dipeptide Isosteres Based upon Enantiopure 3-Aza-6,8-dioxabicyclo[3.2.1]octane-7-carboxylic Acid. <i>Journal of Organic Chemistry</i> , 1999, 64, 7347-7364.	1.7	43
10	Exploring the chemical space and the bioactivity profile of lactams: a chemoinformatic study. <i>RSC Advances</i> , 2019, 9, 27105-27116.	1.7	37
11	Convenient Route to Enantiopure Fmoc-Protected Morpholine-3-carboxylic Acid. <i>Journal of Organic Chemistry</i> , 2007, 72, 4254-4257.	1.7	36
12	Stereoselective cyclopropanation of serine- and threonine-derived oxazines to access new morpholine-based scaffolds. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 3328.	1.5	33
13	Diversity-Oriented Synthesis of Morpholine-Containing Molecular Scaffolds. <i>Chemistry - A European Journal</i> , 2009, 15, 7871-7875.	1.7	33
14	Diversity-Oriented Synthesis as a Tool for Chemical Genetics. <i>Molecules</i> , 2014, 19, 16506-16528.	1.7	32
15	Bicyclic acetals: biological relevance, scaffold analysis, and applications in diversity-oriented synthesis. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1037-1052.	1.5	32
16	Skeletal Diversity from Carbohydrates: Use of Mannose for the Diversity-Oriented Synthesis of Polyhydroxylated Compounds. <i>Journal of Organic Chemistry</i> , 2015, 80, 2182-2191.	1.7	30
17	Occurrence of Morpholine in Central Nervous System Drug Discovery. <i>ACS Chemical Neuroscience</i> , 2021, 12, 378-390.	1.7	30
18	Identification of Inhibitors of Drug-Resistant <i>Candida albicans</i> Strains from a Library of Bicyclic Peptidomimetic Compounds. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 2502-2509.	2.9	29

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19	Enantiospecific synthesis of 3-aza-6,8-dioxo-bicyclo[3.2.1]octane carboxylic acids from erythrose. <i>Tetrahedron</i> , 2003, 59, 5251-5258.	1.0	28
20	Pd(0)-Catalyzed Cross-Coupling Reactions of Boron Derivatives with a Lactam-Derived N-Boc Enol Triflate. <i>Organic Letters</i> , 2000, 2, 1241-1242.	2.4	27
21	Skeletal diversity by sequential one-pot and stepwise routes using morpholine ester scaffolds. <i>Tetrahedron Letters</i> , 2010, 51, 6282-6285.	0.7	27
22	<sup>125</sup> I-Radiolabeled Morpholine-Containing Arginine-Glycine-Aspartate (RGD) Ligand of $\alpha_3\beta_3$ Integrin As a Molecular Imaging Probe for Angiogenesis. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 5024-5033.	2.9	26
23	Morpholine-based RGD-cyclopentapeptides as $\alpha_3\beta_3$ integrin ligands: Role of configuration towards receptor binding affinity. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 1542-1549.	1.4	25
24	Synthesis of a new enantiopure bicyclic $\beta$ -amino acid (BTKa) derived from tartaric acid and $\beta$ -amino acetophenone. <i>Tetrahedron</i> , 2002, 58, 9865-9870.	1.0	24
25	Novel small molecules for the treatment of infections caused by <i>Candida albicans</i> : a patent review (2002 - 2010). <i>Expert Opinion on Therapeutic Patents</i> , 2011, 21, 381-397.	2.4	24
26	Use of Click-Chemistry in the Development of Peptidomimetic Enzyme Inhibitors. <i>Current Medicinal Chemistry</i> , 2014, 21, 1467-1477.	1.2	23
27	Effect of C-ring modifications in benzo[c]quinolizin-3-ones, new selective inhibitors of human $5\alpha$ -reductase 1. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 1385-1393.	1.4	22
28	Diversity-Oriented Synthesis and Chemoinformatic Analysis of the Molecular Diversity of sp <sup>3</sup> -Rich Morpholine Peptidomimetics. <i>Frontiers in Chemistry</i> , 2018, 6, 522.	1.8	22
29	Evaluation of stereochemically dense morpholine-based scaffolds as proline surrogates in $\beta$ -turn peptides. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 916-924.	1.5	20
30	Short synthesis of polyfunctional sp <sup>3</sup> -rich threonine-derived morpholine scaffolds. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 9710-9717.	1.5	19
31	Introduction of the new dipeptide isostere 7-endo-BtA as reverse turn inducer in a Bowman-Birk proteinase inhibitor. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 1625-1632.	1.4	18
32	A new bicyclic proline-mimetic amino acid. <i>Tetrahedron Letters</i> , 2003, 44, 3489-3492.	0.7	18
33	Peptidomimetics as protein arginine deiminase 4 (PAD4) inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 466-471.	2.5	18
34	Novel matrix metalloproteinase inhibitors: an updated patent review (2014 - 2020). <i>Expert Opinion on Therapeutic Patents</i> , 2021, 31, 509-523.	2.4	18
35	Cyclopropane Pipecolic Acids as Templates for Linear and Cyclic Peptidomimetics: Application in the Synthesis of an Arg-Gly-Asp (RGD)-Containing Peptide as an $\alpha_3\beta_3$ Integrin Ligand. <i>1.7 Chemistry - A European Journal</i> , 2014, 20, 11187-11203.	1.7	17
36	Two-step one-pot synthesis of dihydropyrazinones as Xaa-Ser dipeptide isosteres through morpholine acetal rearrangement. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 7013-7019.	1.5	16

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37	Diversity-oriented synthesis as a tool to expand the chemical space of DNA-encoded libraries. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 41, 116218.	1.4	16
38	Diastereoselective Synthesis of Highly Constrained Spiro- $\beta$ -Lactams by the Staudinger Reaction Using an Unsymmetrical Bicyclic Ketene. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 4594-4599.	1.2	15
39	Chemical genetics approach to identify new small molecule modulators of cell growth by phenotypic screening of <i>Saccharomyces cerevisiae</i> strains with a library of morpholine-derived compounds. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 5552.	1.5	15
40	Configurationally driven folding of model tetrapeptides containing L- or D-morpholine- $\beta$ -carboxylic acids as $\beta$ -turn nucleators. <i>Chirality</i> , 2009, 21, 584-594.	1.3	14
41	Cyclic RGD peptidomimetics containing 4- and 5-amino-cyclopropane pipercolic acid (CPA) templates as dual $\alpha$ and $\beta$ integrin ligands. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 703-711.	1.4	14
42	A Systems Biology Approach to Dissection of the Effects of Small Bicyclic Peptidomimetics on a Panel of <i>Saccharomyces cerevisiae</i> Mutants. <i>Journal of Biological Chemistry</i> , 2010, 285, 23477-23485.	1.6	13
43	One-pot sequential Ti-/Cu-catalysis for tandem amidation/Ullmann-type cyclization: synthesis of model benzodiazepine(dione)s promoted by microwave irradiation. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2780.	1.5	13
44	Identification of highly potent and selective MMP2 inhibitors addressing the S1' subsite with d-proline-based compounds. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 1891-1902.	1.4	13
45	Synthesis and Conformational Analysis of Constrained $\beta$ -Turn Mimetics Incorporating a Bicyclic Turn Inducer by Use of the Petasis Three-Component Reaction on Solid Phase. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 1659-1668.	1.2	12
46	Radiosynthesis and micro-SPECT analysis of triazole-based RGD integrin ligands as non-peptide molecular imaging probes for angiogenesis. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 1112-1122.	1.4	12
47	Recent advances in copper-catalyzed imine-based multicomponent reactions. <i>Tetrahedron Letters</i> , 2020, 61, 152083.	0.7	12
48	Cyclic DGR-peptidomimetic containing a bicyclic reverse turn inducer as a selective $\alpha$ integrin ligand. <i>Amino Acids</i> , 2010, 38, 329-337.	1.2	11
49	Bicyclic peptidomimetics targeting secreted aspartic protease 2 (SAP2) from <i>Candida albicans</i> reveal a constrained inhibitory chemotype. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 7206-7213.	1.4	11
50	d-Proline-based peptidomimetic inhibitors of anthrax lethal factor. <i>European Journal of Medicinal Chemistry</i> , 2012, 56, 96-107.	2.6	11
51	Insight into the structural similarity between HIV protease and secreted aspartic protease-2 and binding mode analysis of HIV-1 <i>Candida albicans</i> inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 936-943.	2.5	11
52	Insight to the binding mode of triazole RGD-peptidomimetics to integrin-rich cancer cells by NMR and molecular modeling. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 989-994.	1.4	11
53	Design and synthesis of bicyclic acetals as Beta Secretase (BACE1) inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5077-5083.	1.4	11
54	Nanostars <sup>®</sup> decorated microfluidic sensors for surface enhanced Raman scattering targeting of biomolecules. <i>JPhys Photonics</i> , 2020, 2, 024008.	2.2	11

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55	Gold Nanostars Bioconjugation for Selective Targeting and SERS Detection of Biofluids. <i>Nanomaterials</i> , 2021, 11, 665.	1.9	11
56	Solvent-Dependent Conformational Behaviour of Model Tetrapeptides Containing a Bicyclic Proline Mimetic. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 4621-4627.	1.2	10
57	Synthesis of a constrained tricyclic scaffold based on trans-4-hydroxy-l-proline. <i>Tetrahedron Letters</i> , 2005, 46, 7813-7816.	0.7	10
58	Synthesis of Glycidol- and Sugar-Derived Bicyclic $\beta^2$ - and $\beta^3/\beta^1$ -Amino Acids for Peptidomimetic Design. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 4372-4381.	1.2	10
59	Synthesis of a bicyclic $\beta^1$ -amino acid as a constrained Gly-Asn dipeptide isostere. <i>Amino Acids</i> , 2008, 35, 37-44.	1.2	10
60	Identification of constrained peptidomimetic chemotypes as HIV protease inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2014, 84, 444-453.	2.6	10
61	Triazole RGD antagonist reverts TGF $\beta^1$ -induced endothelial-to-mesenchymal transition in endothelial precursor cells. <i>Molecular and Cellular Biochemistry</i> , 2017, 424, 99-110.	1.4	10
62	Smart Design of Small Molecule Libraries: When Organic Synthesis Meets Cheminformatics. <i>ChemBioChem</i> , 2019, 20, 1115-1123.	1.3	10
63	Synthesis of diverse phenylglycine derivatives via transformation of Ugi four-component condensation primary adducts. <i>Tetrahedron Letters</i> , 2011, 52, 2673-2675.	0.7	9
64	Copper-Catalyzed $A^{3+}$ -Coupling for the Diversity-Oriented Synthesis of Proline-Derived Alkynyl-Substituted Peptidomimetic Scaffolds. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6203-6210.	1.2	9
65	Synthesis and conformational studies of a hybrid $\beta^2$ -alanine-morpholine tetramer. <i>Tetrahedron</i> , 2012, 68, 9701-9705.	1.0	8
66	Occurrence of the d-Proline Chemotype in Enzyme Inhibitors. <i>Symmetry</i> , 2019, 11, 558.	1.1	8
67	Breakthroughs in Medicinal Chemistry: New Targets and Mechanisms, New Drugs, New Hopes. <i>Molecules</i> , 2020, 25, 119.	1.7	8
68	Discovery of a d-pro-lys peptidomimetic inhibitor of MMP9: Addressing the gelatinase selectivity beyond S1 $\epsilon^2$ subsite. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127467.	1.0	8
69	Computational-aided design of a library of lactams through a diversity-oriented synthesis strategy. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115539.	1.4	8
70	Heterocyclic HIV-Protease Inhibitors. <i>Current Medicinal Chemistry</i> , 2013, 20, 3693-3710.	1.2	8
71	Diversity-Oriented Synthesis and Chemoinformatics: A Fruitful Synergy towards Better Chemical Libraries. <i>European Journal of Organic Chemistry</i> , 0, , .	1.2	8
72	Evaluation of efficacy, pharmacokinetics and tolerability of peptidomimetic aspartic proteinase inhibitors as cream formulation in experimental vaginal candidiasis. <i>Journal of Pharmacy and Pharmacology</i> , 2014, 66, 1094-1101.	1.2	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. <i>MedChemComm</i> , 2015, 6, 277-282.	3.5	7
74	Dual Iminium- and Lewis Base Catalyzed Morita-Baylis-Hillman Reaction on Cyclopent-2-enone. <i>Synlett</i> , 2018, 29, 820-824.	1.0	7
75	A Glucose-Derived $\alpha$ -Hydroxy Aldehyde for the Petasis Reaction: Facile Access to Polyfunctional $\alpha$ -Amino Acids. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 4227-4234.	1.2	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. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 5110-5120.	1.4	6
78	Role of Side-Chain Bioisosteres in Determining the Binding Affinity of Click Chemistry Derived RGD Peptidomimetics to $\alpha_2\beta_1$ Integrin. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 7595-7604.	1.2	6
79	Combination of click chemistry and sulfonamides to develop three-armed triazole compounds. <i>Tetrahedron</i> , 2014, 70, 5439-5449.	1.0	6
80	Deciphering the mechanism of action of 089, a compound impairing the fungal cell cycle. <i>Scientific Reports</i> , 2018, 8, 5964.	1.6	6
81	Multitargeting application of proline-derived peptidomimetics addressing cancer-related human matrix metalloproteinase 9 and carbonic anhydrase II. <i>European Journal of Medicinal Chemistry</i> , 2021, 214, 113260.	2.6	6
82	Design, Synthesis, and Applications of 3-Aza-6,8-Dioxabicyclo[3.2.1]Octane-Based Scaffolds for Peptidomimetic Chemistry. <i>Synlett</i> , 2006, 2006, 0331-0353.	1.0	5
83	Chemical genetics approach to drug discovery by diversity-oriented synthesis (DOS) of peptidomimetics. <i>Pure and Applied Chemistry</i> , 2011, 83, 687-698.	0.9	5
84	Breakthroughs in Medicinal Chemistry: New Targets and Mechanisms, New Drugs, New Hopes-7. <i>Molecules</i> , 2020, 25, 2968.	1.7	5
85	A solid-phase approach towards the development of 3-aza-6,8-dioxabicyclo[3.2.1]octane scaffolds. <i>Molecular Diversity</i> , 2000, 6, 245-250.	2.1	4
86	LiNTf <sub>2</sub> -Catalyzed Aminolysis of Lactones with Stoichiometric Quantities of Amines. <i>Synlett</i> , 2008, 2008, 189-192.	1.0	4
87	Combination of multicomponent KA <sup>2</sup> and Pauson-Khand reactions: short synthesis of spirocyclic pyrrolocyclopentenones. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 200-211.	1.3	4
88	Synthesis of morpholine derivatives using the Castagnoli-Cushman reaction as BACE1 inhibitors: Unexpected binding activity of cyclic thioamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127211.	1.0	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. <i>Molecules</i> , 2022, 27, 1249.	1.7	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.	1.8	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.	1.0	2
93	Synthesis of a Bicyclic Proline Analogue from l-Ascorbic Acid. Synthesis, 2006, 2006, 3122-3126.	1.2	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.	1.7	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.	1.4	1
97	Design and synthesis of bioactive compounds. Bioorganic and Medicinal Chemistry, 2017, 25, 5031.	1.4	0
98	Relations between Effects and Structure of Small Bicyclic Molecules on the Complex Model System Saccharomyces cerevisiae. Frontiers in Pharmacology, 2017, 8, 170.	1.6	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 " Gold nanostar conjugates as M21 cell adhesion inhibitors. Bioorganic Chemistry, 2022, 126, 105873.	2.0	0