

Alessandra Tolomelli

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9193114/publications.pdf>

Version: 2024-02-01

109
papers

2,415
citations

186265

28
h-index

289244

40
g-index

133
all docs

133
docs citations

133
times ranked

2244
citing authors

#	ARTICLE	IF	CITATIONS
1	A translation of the twelve principles of green chemistry to guide the development of cross-coupling reactions. <i>Catalysis Today</i> , 2022, 397-399, 265-271.	4.4	17
2	Sustainability in peptide chemistry: current synthesis and purification technologies and future challenges. <i>Green Chemistry</i> , 2022, 24, 975-1020.	9.0	57
3	Steps towards sustainable solid phase peptide synthesis: use and recovery of <i>N</i> -octyl pyrrolidone. <i>Green Chemistry</i> , 2021, 23, 4095-4106.	9.0	21
4	Replacing piperidine in solid phase peptide synthesis: effective Fmoc removal by alternative bases. <i>Green Chemistry</i> , 2021, 23, 8096-8107.	9.0	15
5	Palladium Catalyst Recycling for Heck-Cassar-Sonogashira Cross-Coupling Reactions in Green Solvent/Base Blend. <i>ChemSusChem</i> , 2021, 14, 2591-2600.	6.8	21
6	Therapeutic Peptides Targeting PPI in Clinical Development: Overview, Mechanism of Action and Perspectives. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 697586.	3.5	64
7	Fluorene benzothiadiazole co-oligomer based aqueous self-assembled nanoparticles. <i>RSC Advances</i> , 2020, 10, 444-450.	3.6	6
8	Ampicillin sodium: Isolation, identification and synthesis of the last unknown impurity after 60 years of clinical use. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 191, 113584.	2.8	2
9	Integrin-mediated adhesive properties of neutrophils are reduced by hyperbaric oxygen therapy in patients with chronic non-healing wound. <i>PLoS ONE</i> , 2020, 15, e0237746.	2.5	18
10	Side chain effect in the modulation of $\alpha_5\beta_1$ integrin activity via clickable isoxazoline-RGD-mimetics: development of molecular delivery systems. <i>Scientific Reports</i> , 2020, 10, 7410.	3.3	4
11	Fast Heck-Cassar-Sonogashira (HCS) Reactions in Green Solvents. <i>Organic Letters</i> , 2020, 22, 3969-3973.	4.6	26
12	Novel Ligands Targeting $\alpha_4\beta_1$ Integrin: Therapeutic Applications and Perspectives. <i>Frontiers in Chemistry</i> , 2019, 7, 489.	3.6	46
13	Synthesis of α / β dipeptides containing linear or cyclic α -dehydro- β -amino acids as scaffolds for bioactive compounds. <i>Amino Acids</i> , 2019, 51, 1475-1483.	2.7	4
14	Green Solvent Mixtures for Solid-Phase Peptide Synthesis: A Dimethylformamide-Free Highly Efficient Synthesis of Pharmaceutical-Grade Peptides. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 12867-12877.	6.7	69
15	Novel insights into the chemistry of an old medicine: A general degradative pathway for penicillins from a piperacillin/tazobactam stability study. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 136, 104957.	4.0	7
16	Two-dimensional UV spectroscopy: a new insight into the structure and dynamics of biomolecules. <i>Chemical Science</i> , 2019, 10, 9907-9921.	7.4	40
17	Stable and Biocompatible Monodispersion of C_{60} in Water by Peptides. <i>Bioconjugate Chemistry</i> , 2019, 30, 808-814.	3.6	18
18	Synthesis of Enantiopure Isosteres of Amino Acids Containing a Quaternary Stereocenter: Experimental and Computational Evaluation of a Novel Class of Atropisomers. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6524-6536.	2.4	8

#	ARTICLE	IF	CITATIONS
19	Can Integrin Agonists Have Cards to Play against Cancer? A Literature Survey of Small Molecules Integrin Activators. <i>Cancers</i> , 2017, 9, 78.	3.7	29
20	Integrin Ligands with β -Hybrid Peptide Structure: Design, Bioactivity, and Conformational Aspects. <i>Medicinal Research Reviews</i> , 2016, 36, 389-424.	10.5	27
21	One-Pot Two-Step Microwave-Assisted Synthesis of Alkylidene Acetoacetamido Esters, Useful Intermediates for β -Dehydropeptides. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3217-3222.	2.4	5
22	Spectroscopic fingerprints of DNA/RNA pyrimidine nucleobases in third-order nonlinear electronic spectra. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	1.4	28
23	New isoxazolidinone and 3,4-dehydro- β -proline derivatives as antibacterial agents and MAO-inhibitors: A complex balance between two activities. <i>European Journal of Medicinal Chemistry</i> , 2016, 124, 906-919.	5.5	20
24	Highly stable atropisomers by electrophilic amination of a chiral β -lactam within the synthesis of an elusive conformationally restricted analogue of β -methylhomoserine. <i>Amino Acids</i> , 2016, 48, 461-478.	2.7	5
25	A Review of Strategies for the Development of Alkyl Prolines in Drug Discovery. <i>Current Bioactive Compounds</i> , 2016, 12, 146-160.	0.5	7
26	Dehydro- β -proline Containing β -Integrin Antagonists: Stereochemical Recognition in Ligand-Receptor Interplay. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 701-706.	2.8	21
27	Convenient Synthesis of the Antibiotic Linezolid via an Oxazolidinone Intermediate Derived from the Chiral Building Block Isoserine. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 7614-7620.	2.4	16
28	Targeting integrins α 3 and α 5 with new β -lactam derivatives. <i>European Journal of Medicinal Chemistry</i> , 2014, 83, 284-293.	5.5	40
29	An improved microwave assisted protocol for Yonemitsu-type trimolecular condensation. <i>Tetrahedron</i> , 2014, 70, 6781-6788.	1.9	19
30	Synthesis and assay of retro- β integrin-targeting motifs. <i>European Journal of Medicinal Chemistry</i> , 2014, 73, 225-232.	5.5	16
31	Controlled Solid Phase Peptide Bond Formation Using <i>N</i> -Carboxyanhydrides and PEG Resins in Water.. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 566-569.	6.7	28
32	In-peptide synthesis of di-oxazolidinone and dehydroamino acid oxazolidinone motifs as β -turn inducers. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 4316.	2.8	11
33	Modulation of α 3- and α 5-integrin-mediated adhesion by dehydro- β -amino acids containing peptidomimetics. <i>European Journal of Medicinal Chemistry</i> , 2013, 66, 258-268.	5.5	19
34	Modulation of α 3- and α 5-integrin-mediated adhesion by dehydro- β -amino acids containing peptidomimetics. , 2013, 66, 258-258.		1
35	Molecular Docking of Opiates and Opioid Peptides, a Tool for the Design of Selective Agonists and Antagonists, and for the Investigation of Atypical Ligand-Receptor Interactions. <i>Current Medicinal Chemistry</i> , 2012, 19, 1587-1601.	2.4	31
36	Opioid Activity Profiles of Oversimplified Peptides Lacking in the Protonable N-Terminus. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 10292-10296.	6.4	17

#	ARTICLE	IF	CITATIONS
37	Expedient synthesis of pseudo-Pro-containing peptides: towards constrained peptidomimetics and foldamers. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2307.	2.8	23
38	Exploring the reactivity of alkylidene malonamides: synthesis of polyfunctionalized isoxazolidinones, aziridines and oxazolines.. <i>Arkivoc</i> , 2012, 2012, 196-209.	0.5	7
39	A straightforward route to enantiopure 2-substituted-3,4-dehydro- β -proline via ring closing metathesis. <i>Amino Acids</i> , 2011, 41, 575-586.	2.7	9
40	Synthesis of Constrained Peptidomimetics Containing 2-Oxo-1,3-oxazolidine-4-carboxylic Acids. <i>European Journal of Organic Chemistry</i> , 2011, 2011, n/a-n/a.	2.4	8
41	The Inverse Type-II Turn on α -Trp-Phe, a Pharmacophoric Motif for MOR Agonists. <i>ChemMedChem</i> , 2011, 6, 1640-1653.	3.2	25
42	Development of Isoxazoline-Containing Peptidomimetics as Dual β 5 β 1 and β 3 β 1 Integrin Ligands. <i>ChemMedChem</i> , 2011, 6, 2264-2272.	3.2	22
43	Highly regio- and stereoselective palladium-catalyzed allylic carbonate amination. A practical route to dehydro- β -amino esters. <i>Tetrahedron</i> , 2010, 66, 4994-4999.	1.9	4
44	Synthesis of chiral non-racemic intermediates and Arg-Gly-Asp mimetics by CalB-catalyzed resolution. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 96-102.	1.8	7
45	A simple route towards peptide analogues containing substituted (S)- or (R)-tryptophans. <i>Tetrahedron Letters</i> , 2010, 51, 2576-2579.	1.4	12
46	Antiangiogenic Effect of Dual/Selective β 5 β 1/ β 3 β 1 Integrin Antagonists Designed on Partially Modified Retro-Inverso Cyclotetrapeptide Mimetics. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 106-118.	6.4	29
47	Peripheral antinociceptive effects of the cyclic endomorphin-1 analog c[YpwFG] in a mouse visceral pain model. <i>Peptides</i> , 2010, 31, 2135-2140.	2.4	34
48	Synthesis and Conformational Analysis of Cyclotetrapeptide Mimetic Turn Templates and Validation as 3D Scaffolds. <i>ChemMedChem</i> , 2009, 4, 517-523.	3.2	13
49	Dehydro- β -amino Acid Containing Peptides as Promising Sequences for Drug Development. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 5991-5997.	2.4	10
50	A convenient synthesis of functionalized isoxazolines and related 5-hydroxyisoxazolidine-4-carboxylates. <i>Tetrahedron</i> , 2009, 65, 2478-2483.	1.9	12
51	Cyclopeptide Analogs for Generating New Molecular and 3D Diversity. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2009, 12, 929-939.	1.1	6
52	Cyclotetrapeptide Mimics Based on a 13-Membered, Partially Modified Retro-Inverso Structure. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 729-735.	2.4	9
53	Synthesis of Ethyl 5-Hydroxyisoxazolidine-4-carboxylates via Michael Addition/Intramolecular Hemiketalisation. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 6119-6127.	2.4	11
54	The Cycloaddition Reaction Between β -Bromo Vinylketenes and Imines: A Combined Experimental and Theoretical Study. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2261-2273.	4.3	5

#	ARTICLE	IF	CITATIONS
55	Investigation of the interaction between the atypical agonist c[YpwFG] and MOR. FEBS Journal, 2008, 275, 2315-2337.	4.7	29
56	Synthesis of Dehydro- β -amino esters via Highly Regioselective Amination of Allylic Carbonates. Organic Letters, 2008, 10, 2425-2428.	4.6	36
57	Lewis Acid Induced Highly Regioselective Synthesis of a New Class of Substituted Isoxazolidines. Synlett, 2008, 2008, 2605-2608.	1.8	12
58	A Nonclassical Stereoselective Semi-Synthesis of Drospirenone via Cross-Metathesis Reaction. Synthesis, 2008, 2008, 3801-3804.	2.3	12
59	Topological Exploration of Cyclic Endomorphin-1 Analogues, Structurally Defined Models for Investigating the Bioactive Conformation of MOR Agonists. Protein and Peptide Letters, 2007, 14, 51-56.	0.9	12
60	A Microwave-Enhanced, Lewis Acid-Catalyzed Synthesis of 1,3-Dioxolanes and Oxazolines from Epoxides. Advanced Synthesis and Catalysis, 2007, 349, 1256-1264.	4.3	19
61	Synthesis of Four-Membered Ring Spiro- β -lactams by Epoxide Ring-Opening. European Journal of Organic Chemistry, 2007, 2007, 3199-3205.	2.4	17
62	Enzymatic resolution of ethyl 3-hydroxy-2-(1-substituted-methylidene)-butyrate by Pseudomonas cepacia lipase catalyzed acetylation. Tetrahedron: Asymmetry, 2007, 18, 2227-2232.	1.8	11
63	Synthesis and biological evaluation of non-peptide β -integrin dual antagonists containing 5,6-dihydropyridin-2-one scaffolds. Bioorganic and Medicinal Chemistry, 2007, 15, 7380-7390.	3.0	20
64	Synthesis and biological evaluation of unprecedented classes of spiro- β -lactams and azido- β -lactams as acyl-CoA:cholesterol acyltransferase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1946-1950.	2.2	20
65	Inhibition of cancer cell adhesion by heterochiral Pro-containing RGD mimetics. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 2329-2333.	2.2	27
66	Synthesis and Biological Evaluation of Azido- and Aziridino-hydroxyl- β -lactams through Stereo- and Regioselective Epoxide Ring Opening. Journal of Organic Chemistry, 2006, 71, 9229-9232.	3.2	15
67	Synthesis of enantiomerically pure β -integrin ligands based on a 5,6-dihydropyridin-2-one scaffold. Tetrahedron: Asymmetry, 2006, 17, 167-170.	1.8	7
68	A Novel Family of Minimal PMRI Cyclic Peptides as Versatile Scaffolds for Generating New Molecular Topology. Medicinal Chemistry, 2006, 2, 395-400.	1.5	0
69	Unusual Amino Acids: Synthesis and Introduction into Naturally Occurring Peptides and Biologically Active Analogues. Mini-Reviews in Medicinal Chemistry, 2006, 6, 293-304.	2.4	51
70	Peptides and Peptidomimetics in Medicine, Surgery and Biotechnology. Current Medicinal Chemistry, 2006, 13, 2449-2466.	2.4	148
71	Highly Regio- and Diastereoselective Palladium-Catalyzed Allylic Substitution. Synthesis of 3-(2-Aminobutylidene)-4-arylazetid-2-ones. Advanced Synthesis and Catalysis, 2005, 347, 833-838.	4.3	9
72	Highly Diastereoselective Allylic Azide Formation and Isomerization. Synthesis of 3-(2-Amino)- β -lactams.. ChemInform, 2005, 36, no.	0.0	0

#	ARTICLE	IF	CITATIONS
73	Zinc Metal-Promoted Nucleophilic Addition of Azetidin-2-ones to Aldehydes and Nitriles. <i>Synthesis</i> , 2005, 2005, 61-70.	2.3	0
74	An Investigation of the Reactivity of MCPBA and $\hat{\pm}$ -Bromoalkenes under $\hat{\Delta}$ Traditional or Microwave-Assisted Conditions: Selective Formation of $\hat{\Delta}$ Epoxides or Allylic Bromides. <i>Synlett</i> , 2005, 2005, 2204-2208.	1.8	0
75	Highly Diastereoselective Allylic Azide Formation and Isomerization. Synthesis of 3(2 $\hat{\epsilon}^-$ -Amino)- $\hat{\gamma}^2$ -lactams. <i>Organic Letters</i> , 2005, 7, 533-536.	4.6	40
76	Introduction of hydroxyl- or keto- functionalities in azetidin-2-ones side chain via allylic bromide rearrangement, followed by supported reagent substitution. <i>Arkivoc</i> , 2005, 2005, 136-152.	0.5	8
77	Recent Advances in the Investigation of the Bioactive Conformation of Peptides Active at the $\hat{\mu}$ -opioid Receptor. Conformational Analysis of Endomorphins. <i>Current Topics in Medicinal Chemistry</i> , 2004, 4, 105-121.	2.1	53
78	Practical synthesis of 3-bromo-5,6-dihydropyridin-2-ones via $\hat{\gamma}^2, \hat{\gamma}^3$ -unsaturated $\hat{\pm}$ -bromo-ketene/imine cycloaddition. <i>Tetrahedron</i> , 2004, 60, 5031-5040.	1.9	16
79	$\hat{\pm}$ -Bromo- $\hat{\gamma}^2, \hat{\gamma}^3$ -unsaturated ketenes for the synthesis of $\hat{\pm}$ -benzylamino- $\hat{\gamma}^2, \hat{\gamma}^3$ -unsaturated acids. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 593-601.	1.8	20
80	Aziridines and Oxazolines: Valuable Intermediates in the Synthesis of Unusual Amino Acids. <i>ChemInform</i> , 2004, 35, no.	0.0	5
81	Practical Synthesis of 3-Bromo-5,6-dihydropyridin-2-ones via $\hat{\gamma}^2, \hat{\gamma}^3$ -Unsaturated $\hat{\pm}$ -Bromo-ketene/imine Cycloaddition.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
82	Synthesis and Evaluation of the Affinity toward $\hat{\mu}^4$ -Opioid Receptors of Atypical, Lipophilic Ligands Based on the Sequence $\hat{\epsilon}$ -[Tyr-Pro-Trp-Phe-Gly-]. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 5198-5203.	6.4	47
83	Antinociception by a peripherally administered novel endomorphin-1 analogue containing $\hat{\gamma}^2$ -proline. <i>European Journal of Pharmacology</i> , 2003, 469, 89-95.	3.5	37
84	A Straightforward Method for the Synthesis of Alkylidene and Arylidene Malonates Through Proline-Catalyzed Knoevenagel Condensation. <i>Synthetic Communications</i> , 2003, 33, 1587-1594.	2.1	88
85	Conformational analysis and $\hat{\mu}^4$ -opioid receptor affinity of short peptides, endomorphin models in a low polarity solvent. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 3010-3014.	2.8	7
86	Stability against enzymatic hydrolysis of endomorphin-1 analogues containing $\hat{\gamma}^2$ -proline. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 1498-1502.	2.8	41
87	Enantioselective synthesis of aziridine 2,2-dicarboxylates. Part I: Copper(II)-bisoxazoline complex-catalysed Michael reaction on alkylidene malonates. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 1407-1410.	1.8	21
88	Enantioselective synthesis of aziridine 2,2-dicarboxylates. Part II: Determination of the absolute configuration. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 1411-1415.	1.8	11
89	Synthesis of Aziridine-2,2-dicarboxylates via 1,4-Addition of N,O-(Bistrimethylsilyl)hydroxylamine to $\hat{\pm}, \hat{\gamma}^2$ -Unsaturated Malonates. <i>Journal of Organic Chemistry</i> , 2001, 66, 8657-8660.	3.2	29
90	NMR Investigations on Boron Complexes in the Conjugate Addition on $\hat{\pm}, \hat{\gamma}^2$ -Unsaturated Imides. <i>Organic Letters</i> , 2001, 3, 1165-1167.	4.6	26

#	ARTICLE	IF	CITATIONS
91	Asymmetric synthesis of 5-isopropyl-oxazoline-4-imide as syn-hydroxyleucine precursor. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 563-569.	1.8	28
92	Conjugate addition of hydroxylamino derivatives to alkylidene malonates in the presence of chiral Lewis acids. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 2395-2398.	1.8	37
93	Microwave-assisted ring expansion of N-acetyl 3- ϵ -unsubstituted aziridine in the presence of Lewis acids. <i>Tetrahedron</i> , 2001, 57, 2807-2812.	1.9	26
94	Synthesis of the Phenylserine α -Leucine Dipeptide Fragment Present in the Antibiotic Lysobactin from an Aziridine-2-imide Precursor. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 2489-2494.	2.4	18
95	Lipase-mediated kinetic resolution of allylic(hydroxymethyl)methylenecyclopentane building blocks. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 1289-1294.	1.8	4
96	A New Selective Synthesis of the Ile-allo-Thr-Gly Tripeptide Fragment of Lysobactin. <i>Organic Letters</i> , 2000, 2, 1105-1107.	4.6	25
97	A Practical Method for the Synthesis of β -Amino α -Hydroxy Acids. Synthesis of Enantiomerically Pure Hydroxyaspartic Acid and Isoleucine. <i>Synlett</i> , 1999, 1999, 1727-1730.	1.8	34
98	Asymmetric synthesis of syn hydroxyphenylalanine via aziridine ring expansion to an oxazoline. <i>Tetrahedron Letters</i> , 1999, 40, 8261-8264.	1.4	21
99	Asymmetric 1,4 addition of Grignard reagents to chiral β,β -unsaturated esters in the presence of Lewis acids. <i>Tetrahedron</i> , 1999, 55, 6231-6242.	1.9	19
100	Dipeptides containing D-serine or D-isoleucine from the same (R)-aziridine-2-imide by a simple reversal of the synthetic procedure. <i>Tetrahedron</i> , 1999, 55, 15151-15158.	1.9	16
101	A New Diastereoselective Synthesis of anti- β -Alkyl α -Hydroxy β -Amino Acids. <i>European Journal of Organic Chemistry</i> , 1999, 1999, 155-161.	2.4	27
102	Synthesis of optically pure threonine-containing dipeptides by regio- and stereo-controlled ring expansion of aziridine-2-imide derivatives. <i>Chemical Communications</i> , 1999, , 167-168.	4.1	22
103	Diastereoselective synthesis of 3- ϵ -unsubstituted N-BOC-aziridine from a readily available chiral β,β -unsaturated imide. <i>Tetrahedron</i> , 1998, 54, 8217-8222.	1.9	23
104	A Stereoselective Synthesis of (2R,3S)-N-Benzoylphenylisoleucine Methyl Ester. <i>Journal of Organic Chemistry</i> , 1998, 63, 2351-2353.	3.2	66
105	Formation of Aziridine-2-amides through 5-Halo-6-methylperhydropyrimidin-4-ones. A Route to Enantiopure- and d-Threonine and allo-Threonine. <i>Journal of Organic Chemistry</i> , 1998, 63, 3458-3462.	3.2	21
106	Ring expansion of N-acyl aziridine-2-imides to oxazoline-4-imides, useful precursors of pure β -Hydroxy α -amino acids. <i>Tetrahedron Letters</i> , 1997, 38, 6953-6956.	1.4	40
107	Enzymatic Resolution of β -Alkyl β -Amino Acids Using Immobilized Penicillin G Acylase. <i>Journal of Organic Chemistry</i> , 1996, 61, 8651-8654.	3.2	48
108	Synthesis of enantiomerically pure syn and anti β -hydroxy β -amino acids through diastereoselective hydroxylation of perhydropyrimidin-4-ones. <i>Tetrahedron</i> , 1995, 51, 11831-11840.	1.9	16

#	ARTICLE	IF	CITATIONS
109	Asymmetric Synthesis of Three- and Four-Membered Ring Heterocycles. , 0, , 1-50.		0