

Laura Belvisi

List of Publications by Year in descending order

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104
papers

2,614
citations

159585
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docs citations

113
times ranked

2592
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformational Preferences of Peptides Containing Reverse-Turn Mimetic Bicyclic Lactams: Inverse β^3 -Turns versus Type-II β^2 -Turns – Insights into β^2 -Hairpin Stability. , 1999, 1999, 389-400.		92
2	Biological and molecular properties of a new β^3/β^2 integrin antagonist. Molecular Cancer Therapeutics, 2005, 4, 1670-1680.	4.1	75
3	Designing nanomolar antagonists of DC-SIGN-mediated HIV infection: ligand presentation using molecular rods. Chemical Communications, 2015, 51, 3816-3819.	4.1	74
4	Synthesis and Biological Evaluation (in Vitro and in Vivo) of Cyclic Arginine–Glycine–Aspartate (RGD) Peptidomimetic–Paclitaxel Conjugates Targeting Integrin $\beta^3\beta^2$. Journal of Medicinal Chemistry, 2012, 55, 10460-10474.	6.4	68
5	Innovative Linker Strategies for Tumor-Targeted Drug Conjugates. Chemistry - A European Journal, 2019, 25, 14740-14757.	3.3	68
6	Cyclic RGD Peptidomimetics Containing Bifunctional Diketopiperazine Scaffolds as New Potent Integrin Ligands. Chemistry - A European Journal, 2012, 18, 6195-6207.	3.3	62
7	Targeting integrins: Insights into structure and activity of cyclic RGD pentapeptide mimics containing azabicycloalkane amino acids. Bioorganic and Medicinal Chemistry, 2006, 14, 169-180.	3.0	61
8	Second generation of fucose-based DC-SIGN ligands : affinity improvement and specificity versus Langerin. Organic and Biomolecular Chemistry, 2011, 9, 5778.	2.8	60
9	N-3-Substituted Pyrimidinones as Potent, Orally Active, AT1 Selective Angiotensin II Receptor Antagonists. Journal of Medicinal Chemistry, 1995, 38, 4806-4820.	6.4	59
10	Cyclic RGD–Peptidomimetics Containing Bifunctional Diketopiperazine Scaffolds as New Potent Integrin Ligands. Chemistry - A European Journal, 2009, 15, 12184-12188.	3.3	58
11	Potent integrin antagonists from a small library of RGD-including cyclic pseudopeptides. Organic Letters, 2001, 3, 1001-4.	4.6	56
12	Synthesis of Gd and ⁶⁸ Ga Complexes in Conjugation with a Conformationally Optimized RGD Sequence as Potential MRI and PET Tumor-Imaging Probes. ChemMedChem, 2012, 7, 1084-1093.	3.2	53
13	Potent Integrin Antagonists from a Small Library of RGD-Including Cyclic Pseudopeptides. Organic Letters, 2001, 3, 1001-1004.	4.6	49
14	Grafting Aminocyclopentane Carboxylic Acids onto the RGD Tripeptide Sequence Generates Low Nanomolar β^3/β^2 Integrin Dual Binders. Journal of Medicinal Chemistry, 2005, 48, 7675-7687.	6.4	49
15	Synthesis and Biological Evaluation of RGD Peptidomimetic–Paclitaxel Conjugates Bearing Lysosomally Cleavable Linkers. Chemistry - A European Journal, 2015, 21, 6921-6929.	3.3	48
16	Synthesis and Conformational Studies of Peptidomimetics Containing a New Bifunctional Diketopiperazine Scaffold Acting as a β^2 -Hairpin Inducer. Journal of Organic Chemistry, 2008, 73, 652-660.	3.2	47
17	Conformationally constrained dipeptides: Synthesis of 7,5- and 6,5-fused bicyclic lactams by stereoselective radical cyclizations. Tetrahedron Letters, 1995, 36, 625-628.	1.4	46
18	Structural investigations of isomeric oxidised forms of hyperforin by HPLC-NMR and HPLC-MSn. Phytochemical Analysis, 2003, 14, 290-297.	2.4	45

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19	Cyclic RGD-Containing Functionalized Azabicycloalkane Peptides as Potent Integrin Antagonists for Tumor Targeting. <i>ChemMedChem</i> , 2009, 4, 615-632.	3.2	44
20	α 3 Integrin-Targeted Peptide/Peptidomimetic-Drug Conjugates: In-Depth Analysis of the Linker Technology. <i>Current Topics in Medicinal Chemistry</i> , 2015, 16, 314-329.	2.1	44
21	Conformational Analysis of Azabicycloalkane Amino Acid Scaffolds as Reverse-Turn Inducer Dipeptide Mimics. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 2563-2569.	2.4	43
22	New β -Lactam Derivatives Modulate Cell Adhesion and Signaling Mediated by RGD-Binding and Leukocyte Integrins. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 9721-9742.	6.4	43
23	Design, Synthesis, and Biological Evaluation of Novel cRGD-Paclitaxel Conjugates for Integrin-Assisted Drug Delivery. <i>Bioconjugate Chemistry</i> , 2012, 23, 1610-1622.	3.6	41
24	Practical stereoselective synthesis of conformationally constrained unnatural proline-based amino acids and peptidomimetics. <i>Tetrahedron</i> , 2001, 57, 6463-6473.	1.9	39
25	Functionalized Azabicycloalkane Amino Acids by Nitron 1,3-Dipolar Intramolecular Cycloaddition. <i>Journal of Organic Chemistry</i> , 2005, 70, 4124-4132.	3.2	39
26	A new optical imaging probe targeting α 5 β 3 integrin in glioblastoma xenografts. <i>Contrast Media and Molecular Imaging</i> , 2011, 6, 449-458.	0.8	39
27	STD and trNOESY NMR Study of Receptor-Ligand Interactions in Living Cancer Cells. <i>ChemBioChem</i> , 2011, 12, 695-699.	2.6	39
28	Rational design, synthesis and characterization of potent, non-peptidic Smac mimics/XIAP inhibitors as proapoptotic agents for cancer therapy. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 5834-5856.	3.0	36
29	Fast Cyclization of a Proline-Derived Self-Immolative Spacer Improves the Efficacy of Carbamate Prodrugs. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4176-4181.	13.8	35
30	The first asymmetric synthesis of enantiopure α -sulphenyl dithioacetals and α -sulphenyl aldehydes. <i>Journal of Organic Chemistry</i> , 1993, 58, 3165-3168.	3.2	33
31	A 3D QSAR CoMFA study of non-peptide angiotensin II receptor antagonists. <i>Journal of Computer-Aided Molecular Design</i> , 1996, 10, 567-582.	2.9	33
32	Cyclic α DGR and RGD Peptidomimetics Containing Bifunctional Diketopiperazine Scaffolds are Integrin Antagonists. <i>Chemistry - A European Journal</i> , 2015, 21, 6265-6271.	3.3	33
33	Stereoselective radical-mediated cyclization of norephedrine derived β -iodoamides: synthesis of enantiopure pyrrolidines and transition state modelling. <i>Tetrahedron</i> , 1992, 48, 3945-3960.	1.9	32
34	Antiangiogenic Effect of Dual/Selective α 5 β 1/ α v β 3 Integrin Antagonists Designed on Partially Modified Retro-Inverso Cyclotetrapeptide Mimetics. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 106-118.	6.4	29
35	Dimeric Smac mimetics/IAP inhibitors as in vivo-active pro-apoptotic agents. Part II: Structural and biological characterization. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 6709-6723.	3.0	29
36	Neutrophil Elastase Promotes Linker Cleavage and Paclitaxel Release from an Integrin-Targeted Conjugate. <i>Chemistry - A European Journal</i> , 2019, 25, 1696-1700.	3.3	29

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37	Cyclic <i>iso</i> -DGR Peptidomimetics as Low-Nanomolar $\hat{1}\pm\sub{v}\hat{1}^2\sub{3}$ Integrin Ligands. Chemistry - A European Journal, 2013, 19, 3563-3567.	3.3	28
38	Synthesis of Azabicycloalkane Amino Acid Scaffolds as Reverse-Turn Inducer Dipeptide Mimics. European Journal of Organic Chemistry, 2000, 2000, 2571-2581.	2.4	27
39	A Potent Integrin Antagonist from a Small Library of Cyclic RGD Pentapeptide Mimics Including Benzyl-Substituted Azabicycloalkane Amino Acids. ChemMedChem, 2008, 3, 1589-1603.	3.2	27
40	Multivalency Increases the Binding Strength of RGD Peptidomimetic- $\hat{1}\pm\sub{v}\hat{1}^2\sub{3}$ Paclitaxel Conjugates to Integrin $\hat{1}\pm\sub{v}\hat{1}^2\sub{3}$. Chemistry - A European Journal, 2017, 23, 14410-14415.	3.3	27
41	Stem-like Cancer Cells in a Dynamic 3D Culture System: A Model to Study Metastatic Cell Adhesion and Anti-cancer Drugs. Cells, 2019, 8, 1434.	4.1	27
42	Synthesis and Biological Evaluation of RGD and <i>iso</i> -DGR- $\hat{1}\pm\sub{v}\hat{1}^2\sub{3}$ Monomethyl Auristatin Conjugates Targeting Integrin $\hat{1}\pm\sub{v}\hat{1}^2\sub{3}$. ChemMedChem, 2019, 14, 938-942.	3.2	26
43	Stereoselective radical-mediated cyclization of norephedrine derived o-bromobenzamides: Enantioselective synthesis of 4-substituted 1,2,3,4-tetrahydroisoquinolines. Tetrahedron: Asymmetry, 1993, 4, 273-280.	1.8	25
44	Synthesis, Characterization, and Biological Evaluation of a Dual-Action Ligand Targeting $\hat{1}\pm\sub{v}\hat{1}^2\sub{3}$ Integrin and VEGF Receptors. ChemistryOpen, 2015, 4, 633-641.	1.9	25
45	Transferred-NOE NMR experiments on intact human platelets: receptor-bound conformation of RGD-peptide mimics. Organic and Biomolecular Chemistry, 2008, 6, 258-262.	2.8	24
46	Synthesis of substituted conformationally constrained 6,5- and 7,5-fused bicyclic lactams as dipeptide mimics. Tetrahedron, 2003, 59, 6241-6250.	1.9	22
47	Development of Isoxazoline-Containing Peptidomimetics as Dual $\hat{1}\pm\sub{v}\hat{1}^2\sub{3}$ and $\hat{1}\pm\sub{5}\hat{1}^2\sub{1}$ Integrin Ligands. ChemMedChem, 2011, 6, 2264-2272.	3.2	22
48	Determination of the binding epitope of RGD-peptidomimetics to $\hat{1}\pm\sub{v}\hat{1}^2\sub{3}$ and $\hat{1}\pm\sub{5}\hat{1}^2\sub{1}$ integrin-rich intact cells by NMR and computational studies. Organic and Biomolecular Chemistry, 2013, 11, 3886.	2.8	22
49	Insights into the Binding of Cyclic RGD Peptidomimetics to $\hat{1}\pm\sub{5}\hat{1}^2\sub{1}$ Integrin by using Live-Cell NMR And Computational Studies. ChemistryOpen, 2017, 6, 128-136.	1.9	21
50	Assessing the influence of electrostatic schemes on molecular dynamics simulations of secondary structure forming peptides. Journal of Physics Condensed Matter, 2006, 18, S329-S345.	1.8	20
51	Homo- and heterodimeric Smac mimetics/IAP inhibitors as in vivo-active pro-apoptotic agents. Part I: Synthesis. Bioorganic and Medicinal Chemistry, 2012, 20, 6687-6708.	3.0	20
52	Metadynamics Simulations Rationalise the Conformational Effects Induced by <i>N</i> -Methylation of RGD Cyclic Hexapeptides. Chemistry - A European Journal, 2015, 21, 14165-14170.	3.3	20
53	Nonpeptide Angiotensin II Receptor Antagonists. Synthesis, in vitro Activity, and Molecular Modeling Studies of N-[(Heterobiaryl)methyl]imidazoles. Journal of Medicinal Chemistry, 1994, 37, 3928-3938.	6.4	19
54	Modulation of $\hat{1}\pm\sub{v}\hat{1}^2\sub{3}$ - and $\hat{1}\pm\sub{5}\hat{1}^2\sub{1}$ -integrin-mediated adhesion by dehydro- $\hat{1}^2$ -amino acids containing peptidomimetics. European Journal of Medicinal Chemistry, 2013, 66, 258-268.	5.5	19

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55	Cyclic RGD Peptides Containing Azabicycloalkane Reverse-Turn Mimics. <i>Helvetica Chimica Acta</i> , 2002, 85, 4353-4368.	1.6	18
56	Synthesis and conformational analysis of an β -D-mannopyranosyl-(1 \rightarrow 2)- β -D-mannopyranosyl-(1 \rightarrow 6)- β -D-mannopyranose mimic. <i>Carbohydrate Research</i> , 2007, 342, 1859-1868.	2.3	18
57	First round of a focused library of cholera toxin inhibitors. <i>Carbohydrate Research</i> , 2007, 342, 1651-1660.	2.3	18
58	Investigating the Interaction of Cyclic RGD Peptidomimetics with β 26 Integrin by Biochemical and Molecular Docking Studies. <i>Cancers</i> , 2017, 9, 128.	3.7	18
59	A conformational study of N-tosyl oxazolidines using molecular mechanics and crystallography. <i>Journal of Molecular Structure</i> , 1994, 318, 189-202.	3.6	17
60	Antitumor Activity of a Novel Homodimeric SMAC Mimetic in Ovarian Carcinoma. <i>Molecular Pharmaceutics</i> , 2014, 11, 283-293.	4.6	17
61	Crystal Structure of Human E-Cadherin-EC1EC2 in Complex with a Peptidomimetic Competitive Inhibitor of Cadherin Homophilic Interaction. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 5089-5094.	6.4	17
62	Tumor Targeting with an <i>iso</i> -DGR "Drug Conjugate. <i>Chemistry - A European Journal</i> , 2017, 23, 7910-7914.	3.3	17
63	Rationally Designed Bicyclic Lactams Control Different Turn Motifs and Folding Patterns in Hexapeptide Mimics. , 2000, 2000, 695-699.		16
64	Computational design of novel peptidomimetic inhibitors of cadherin homophilic interactions. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2570-2573.	2.8	16
65	A 3D QSAR approach to the search for geometrical similarity in a series of nonpeptide angiotensin II receptor antagonists. <i>Journal of Computer-Aided Molecular Design</i> , 1994, 8, 211-220.	2.9	15
66	Design and synthesis of conformationally constrained arginal thrombin inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 2205-2210.	2.2	15
67	Foldamers of bifunctional diketopiperazines displaying a β -bend ribbon structure. <i>Tetrahedron Letters</i> , 2010, 51, 4278-4280.	1.4	15
68	Thermodynamically "Weighted Conformational Ensemble of Cyclic RGD Peptidomimetics from NOE Data. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7098-7107.	2.6	15
69	Stereoselective synthesis of 6,5-bicyclic reverse-turn peptidomimetics. <i>Tetrahedron</i> , 1998, 54, 5325-5336.	1.9	14
70	Targeting Integrin β 3 with Theranostic RGD-Camptothecin Conjugates Bearing a Disulfide Linker: Biological Evaluation Reveals a Complex Scenario. <i>ChemistrySelect</i> , 2017, 2, 4759-4766.	1.5	14
71	β -Glucuronidase triggers extracellular MMAE release from an integrin-targeted conjugate. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 4705-4710.	2.8	14
72	Synthesis of Easy-to-Functionalize Azabicycloalkane Scaffolds as Dipeptide Turn Mimics en Route to cRGD-Based Bioconjugates. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 7557-7570.	2.4	12

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73	High Affinity vs. Native Fibronectin in the Modulation of $\alpha_5\beta_1$ Integrin Conformational Dynamics: Insights from Computational Analyses and Implications for Molecular Design. <i>PLoS Computational Biology</i> , 2017, 13, e1005334.	3.2	12
74	Nonpeptide Integrin Antagonists: RGD Mimetics Incorporating Substituted Azabicycloalkanes as Amino Acid Replacements. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 1309-1317.	2.4	10
75	Bromine-Promoted Glycosidation of Conformationally Superarmed Thioglycosides. <i>Chemistry - A European Journal</i> , 2019, 25, 11831-11836.	3.3	10
76	Rational Design of Antiangiogenic Helical Oligopeptides Targeting the Vascular Endothelial Growth Factor Receptors. <i>Frontiers in Chemistry</i> , 2019, 7, 170.	3.6	10
77	The Importance of Detail: How Differences in Ligand Structures Determine Distinct Functional Responses in Integrin $\alpha_5\beta_1$. <i>Chemistry - A European Journal</i> , 2019, 25, 5959-5970.	3.3	10
78	Simulation of carbohydrate-protein interactions: computer-aided design of a second generation GM1 mimic. <i>Journal of Computer-Aided Molecular Design</i> , 2001, 15, 117-128.	2.9	9
79	A critical assessment of force field accuracy against NMR data for cyclic peptides containing β^2 -amino acids. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15807-15816.	2.8	9
80	Structure-activity relationship of Ca^{2+} channel blockers: A study using conformational analysis and chemometric methods. <i>Journal of Computer-Aided Molecular Design</i> , 1991, 5, 571-584.	2.9	8
81	A NMR and computational study of Smac mimics targeting both the BIR2 and BIR3 domains in XIAP protein. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 3278.	2.8	8
82	Fast Cyclization of a Proline-Derived Self-Immolative Spacer Improves the Efficacy of Carbamate Prodrugs. <i>Angewandte Chemie</i> , 2020, 132, 4205-4210.	2.0	8
83	Stereoselective synthesis of β^1 -tetrasubstituted azabicyclo[X.3.0]alkane amino acids. <i>Tetrahedron Letters</i> , 2004, 45, 6311-6315.	1.4	7
84	New Insights into the Molecular Mechanism of E-Cadherin-Mediated Cell Adhesion by Free Energy Calculations. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 1354-1359.	5.3	7
85	A trifunctional self-immolative spacer enables drug release with two non-sequential enzymatic cleavages. <i>Chemical Communications</i> , 2021, 57, 7778-7781.	4.1	7
86	On the role of the molecular electrostatic potential in modelling the activity of non-peptide angiotensin II receptor antagonists. <i>Computational and Theoretical Chemistry</i> , 1993, 281, 237-252.	1.5	6
87	Prediction and Validation of a Druggable Site on Virulence Factor of Drug Resistant <i>Burkholderia cenocepacia</i> . <i>Chemistry - A European Journal</i> , 2021, 27, 10341-10348.	3.3	6
88	Synthesis of Functionalized Azabicycloalkane Amino Acids as Dipeptide Mimics. <i>Synthesis</i> , 2006, 2006, 1133-1140.	2.3	5
89	Complete Characterization of Extracts of <i>Onopordum illyricum</i> L. (Asteraceae) by HPLC/PDA/ESIMS and NMR. <i>Natural Product Communications</i> , 2008, 3, 1934578X0800301.	0.5	5
90	Exploring E-cadherin-peptidomimetics interaction using NMR and computational studies. <i>PLoS Computational Biology</i> , 2019, 15, e1007041.	3.2	5

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91	Cyclic RGD and isoDGR Integrin Ligands Containing cis-2-amino-1-cyclopentanecarboxylic (cis- β^2 -ACPC) Scaffolds. <i>Molecules</i> , 2020, 25, 5966.	3.8	5
92	Advanced Pyrrolidine- α -Carbamate Self-Immolative Spacer with Tertiary Amine Handle Induces Superfast Cyclative Drug Release. <i>ChemMedChem</i> , 2022, 17, .	3.2	5
93	Design and synthesis of nonpeptide angiotensin II receptor antagonists featuring acyclic imidazole-mimicking structural units. <i>Bioorganic and Medicinal Chemistry</i> , 1998, 6, 2013-2027.	3.0	4
94	Design, Synthesis, Conformational Analysis and Application of Azabicycloalkane Amino Acids as Constrained Dipeptide Mimics. <i>Synlett</i> , 2004, 2004, 1449-1471.	1.8	4
95	New potent β^1 - β^3 integrin ligands based on azabicycloalkane (β^3, β^1)-dipeptide mimics. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 3221-3233.	2.8	4
96	A dimeric bicyclic RGD ligand displays enhanced integrin binding affinity and strong biological effects on U-373 MG glioblastoma cells. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 8913-8917.	2.8	4
97	Side chain effect in the modulation of $\beta^1\beta^3/\beta^1\beta^5$ integrin activity via clickable isoxazoline-RGD-mimetics: development of molecular delivery systems. <i>Scientific Reports</i> , 2020, 10, 7410.	3.3	4
98	Title is missing!. <i>Organic Letters</i> , 2001, 3, 1001-1004.	4.6	2
99	Non peptide angiotensin II receptor antagonists: A 3D-QSAR comfa-like approach. <i>AIP Conference Proceedings</i> , 1995, .	0.4	1
100	Functionalized 2- α -Hydroxybenzaldehyde-PEG Modules as Portable Tags for the Engagement of Protein Lysine μ -Amino Groups. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 1763-1767.	2.4	1
101	Modulation of $\beta^1\beta^3$ - and $\beta^1\beta^5$ -integrin-mediated adhesion by dehydro- β^2 -amino acids containing peptidomimetics. , 2013, 66, 258-258.		1
102	Inside Cover: Cyclic RGD Peptidomimetics Containing Bifunctional Diketopiperazine Scaffolds as New Potent Integrin Ligands (Chem. Eur. J. 20/2012). <i>Chemistry - A European Journal</i> , 2012, 18, 6106-6106.	3.3	0
103	Frontispiece: Multivalency Increases the Binding Strength of RGD Peptidomimetic- α -Paclitaxel Conjugates to Integrin $\beta^1\beta^3$. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	0
104	Frontispiece: Innovative Linker Strategies for Tumor-Targeted Drug Conjugates. <i>Chemistry - A European Journal</i> , 2019, 25, .	3.3	0