

Daniela Arosio

List of Publications by Year in descending order

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83
papers

2,467
citations

147801

31
h-index

233421

45
g-index

85
all docs

85
docs citations

85
times ranked

3270
citing authors

#	ARTICLE	IF	CITATIONS
1	An inhibitor of tau hyperphosphorylation prevents severe motor impairments in tau transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9673-9678.	7.1	206
2	Advancement in integrin facilitated drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2016, 97, 111-143.	13.7	128
3	Cyclic RGD Functionalized Gold Nanoparticles for Tumor Targeting. <i>Bioconjugate Chemistry</i> , 2011, 22, 664-672.	3.6	82
4	A Synthetic Divalent Cholera Toxin Glycocalix[4]arene Ligand Having Higher Affinity than Natural GM1 Oligosaccharide. <i>Journal of the American Chemical Society</i> , 2005, 127, 3660-3661.	13.7	79
5	Synthesis and cholera toxin binding properties of multivalent GM1 mimics Electronic supplementary information (ESI) available: characterization of the polyvalent compounds ? imide by-products. See http://www.rsc.org/suppdata/ob/b4/b405344c/ . <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2113.	2.8	77
6	Intramolecular Carbohydrate-Aromatic Interactions and Intermolecular van der Waals Interactions Enhance the Molecular Recognition Ability of GM1 Glycomimetics for Cholera Toxin. <i>Chemistry - A European Journal</i> , 2004, 10, 4395-4406.	3.3	69
7	Synthesis and Biological Evaluation (in Vitro and in Vivo) of Cyclic Arginine-Glycine-Aspartate (RGD) Peptidomimetic-Paclitaxel Conjugates Targeting Integrin $\alpha_5\beta_1$. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 10460-10474.	6.4	68
8	Dihydropantoinone-I interferes with the RNA-binding activity of HuR affecting its post-transcriptional function. <i>Scientific Reports</i> , 2015, 5, 16478.	3.3	65
9	Cyclic RGD Peptidomimetics Containing Bifunctional Diketopiperazine Scaffolds as New Potent Integrin Ligands. <i>Chemistry - A European Journal</i> , 2012, 18, 6195-6207.	3.3	62
10	Synthesis of Gd and ^{68}Ga Complexes in Conjugation with a Conformationally Optimized RGD Sequence as Potential MRI and PET Tumor Imaging Probes. <i>ChemMedChem</i> , 2012, 7, 1084-1093.	3.2	53
11	Designing Smac-mimetics as antagonists of XIAP, cIAP1, and cIAP2. <i>Biochemical and Biophysical Research Communications</i> , 2009, 378, 162-167.	2.1	50
12	Effective Targeting of DC-SIGN by α -Fucosylamide Functionalized Gold Nanoparticles. <i>Bioconjugate Chemistry</i> , 2014, 25, 2244-2251.	3.6	50
13	Synthesis and Biological Evaluation of RGD Peptidomimetic-Paclitaxel Conjugates Bearing Lysosomally Cleavable Linkers. <i>Chemistry - A European Journal</i> , 2015, 21, 6921-6929.	3.3	48
14	Cyclic RGD-Containing Functionalized Azabicycloalkane Peptides as Potent Integrin Antagonists for Tumor Targeting. <i>ChemMedChem</i> , 2009, 4, 615-632.	3.2	44
15	Kiss and Run: Promoting Effective and Targeted Cellular Uptake of a Drug Delivery Vehicle Composed of an Integrin-Targeting Diketopiperazine Peptidomimetic and a Cell-Penetrating Peptide. <i>Bioconjugate Chemistry</i> , 2019, 30, 2011-2022.	3.6	44
16	Retromer stabilization results in neuroprotection in a model of Amyotrophic Lateral Sclerosis. <i>Nature Communications</i> , 2020, 11, 3848.	12.8	44
17	Stereoselective Synthesis of Conformationally Constrained Cyclohexanediols: A Set of Molecular Scaffolds for the Synthesis of Glycomimetics. <i>Journal of Organic Chemistry</i> , 2001, 66, 6209-6216.	3.2	41
18	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

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19	Targeting the X-Linked Inhibitor of Apoptosis Protein through 4-Substituted Azabicyclo[5.3.0]alkane Smac Mimetics. Structure, Activity, and Recognition Principles. <i>Journal of Molecular Biology</i> , 2008, 384, 673-689.	4.2	40
20	Functionalized Azabicycloalkane Amino Acids by Nitron 1,3-Dipolar Intramolecular Cycloaddition. <i>Journal of Organic Chemistry</i> , 2005, 70, 4124-4132.	3.2	39
21	A new optical imaging probe targeting $\alpha_5\beta_1$ integrin in glioblastoma xenografts. <i>Contrast Media and Molecular Imaging</i> , 2011, 6, 449-458.	0.8	39
22	Interfering with HuR-RNA Interaction: Design, Synthesis and Biological Characterization of Tanshinone Mimics as Novel, Effective HuR Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1483-1498.	6.4	39
23	Solid phase immunoadsorption for therapeutic and analytical studies on neuropathy-associated anti-GM1 antibodies. <i>Glycobiology</i> , 2007, 17, 294-303.	2.5	38
24	MicroPET/CT imaging of $\alpha_5\beta_1$ integrin via a novel ^{68}Ga -NOTA-RGD peptidomimetic conjugate in rat myocardial infarction. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013, 40, 1265-1274.	6.4	38
25	HuR/ELAVL1 drives malignant peripheral nerve sheath tumor growth and metastasis. <i>Journal of Clinical Investigation</i> , 2020, 130, 3848-3864.	8.2	38
26	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
27	Synthesis of Novel $\alpha_5\beta_1$ -Sunitinib Dual Conjugates as Molecular Tools Targeting the $\alpha_5\beta_1$ Integrin/VEGFR2 Couple and Impairing Tumor-Associated Angiogenesis. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 248-262.	6.4	36
28	Integrin-Mediated Drug Delivery in Cancer and Cardiovascular Diseases with Peptide-Functionalized Nanoparticles. <i>Current Medicinal Chemistry</i> , 2012, 19, 3128-3151.	2.4	34
29	Cyclic <i>iso</i> DGR and RGD Peptidomimetics Containing Bifunctional Diketopiperazine Scaffolds are Integrin Antagonists. <i>Chemistry - A European Journal</i> , 2015, 21, 6265-6271.	3.3	33
30	Integrin-Targeted Peptide- and Peptidomimetic-Drug Conjugates for the Treatment of Tumors. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , 2017, 12, 148-168.	1.6	33
31	Improved synthesis of both enantiomers of trans-cyclohex-4-ene-1,2-dicarboxylic acid. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 3403-3407.	1.8	32
32	Mimics of ganglioside GM1 as cholera toxin ligands: replacement of the GalNAc residue. Electronic supplementary information (ESI) available: synthetic details, product characterisations and full NOE contact list. See http://www.rsc.org/suppdata/ob/b2/b210503a/ . <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 785-792.	2.8	31
33	Synthesis and biological evaluation of RGD and <i>iso</i> DGR peptidomimetic- $\alpha_5\beta_1$ -amanitin conjugates for tumor-targeting. <i>Bellstein Journal of Organic Chemistry</i> , 2018, 14, 407-415.	2.2	30
34	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
35	Cyclic <i>iso</i> DGR Peptidomimetics as Low-Nanomolar $\alpha_5\beta_1$ Integrin Ligands. <i>Chemistry - A European Journal</i> , 2013, 19, 3563-3567.	3.3	28
36	A Potent Integrin Antagonist from a Small Library of Cyclic RGD Pentapeptide Mimics Including Benzyl-Substituted Azabicycloalkane Amino Acids. <i>ChemMedChem</i> , 2008, 3, 1589-1603.	3.2	27

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37	Multivalency Increases the Binding Strength of RGD Peptidomimetic- α -Paclitaxel Conjugates to Integrin $\alpha_5\beta_1$. Chemistry - A European Journal, 2017, 23, 14410-14415.	3.3	27
38	Regiospecific Synthesis of Mono-N-substituted Indolopyrrolocarbazoles. Organic Letters, 2005, 7, 4573-4576.	4.6	26
39	Functionalized Cyclic RGD Peptidomimetics: Conjugable ligands for $\alpha_5\beta_1$ Integrin Receptor Imaging. Bioconjugate Chemistry, 2009, 20, 1611-1617.	3.6	26
40	Synthesis and Biological Evaluation of RGD and <i>iso</i> -DGR- α -Monomethyl Auristatin Conjugates Targeting Integrin $\alpha_5\beta_1$. ChemMedChem, 2019, 14, 938-942.	3.2	26
41	Enhancement of the Uptake and Cytotoxic Activity of Doxorubicin in Cancer Cells by Novel α -RGD-Semipeptide-Anchoring Liposomes. Molecular Pharmaceutics, 2014, 11, 2280-2293.	4.6	25
42	Synthesis, Characterization, and Biological Evaluation of a Dual-Action Ligand Targeting $\alpha_5\beta_1$ Integrin and VEGF Receptors. ChemistryOpen, 2015, 4, 633-641.	1.9	25
43	Mimicking gangliosides by design: mimics of GM1 headgroup. Neurochemical Research, 2002, 27, 539-545.	3.3	23
44	Design, synthesis and biological evaluation of novel dimeric and tetrameric α -paclitaxel conjugates for integrin-assisted drug delivery. Organic and Biomolecular Chemistry, 2015, 13, 7530-7541.	2.8	22
45	Insights into the Binding of Cyclic RGD Peptidomimetics to $\alpha_5\beta_1$ Integrin by using Live-Cell NMR And Computational Studies. ChemistryOpen, 2017, 6, 128-136.	1.9	21
46	Click chemistry to functionalise peptidomimetics. Tetrahedron Letters, 2006, 47, 3697-3700.	1.4	20
47	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
48	Synthesis and biological evaluation of dual action <i>cyclo</i> -RGD/SMAC mimetic conjugates targeting $\alpha_5\beta_1/\alpha_5\beta_2$ integrins and IAP proteins. Organic and Biomolecular Chemistry, 2014, 12, 3288-3302.	2.8	19
49	Investigating the Interaction of Cyclic RGD Peptidomimetics with $\alpha_5\beta_1$ Integrin by Biochemical and Molecular Docking Studies. Cancers, 2017, 9, 128.	3.7	18
50	Intracisternal delivery of PEG-coated gold nanoparticles results in high brain penetrance and long-lasting stability. Journal of Nanobiotechnology, 2019, 17, 49.	9.1	18
51	Ganglioside GM1 mimics: lipophilic substituents improve affinity for cholera toxin. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 3831-3834.	2.2	17
52	Tumor Targeting with an <i>iso</i> -DGR- α -Drug Conjugate. Chemistry - A European Journal, 2017, 23, 7910-7914.	3.3	17
53	Conjugates of Cryptophycin and RGD or <i>iso</i> -DGR Peptidomimetics for Targeted Drug Delivery. ChemistryOpen, 2019, 8, 737-742.	1.9	17
54	Computational design of novel peptidomimetic inhibitors of cadherin homophilic interactions. Organic and Biomolecular Chemistry, 2015, 13, 2570-2573.	2.8	16

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55	Synthesis and Biological Evaluation of Paclitaxel Conjugates Involving Linkers Cleavable by Lysosomal Enzymes and α - β -Integrin Ligands for Tumor Targeting. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2902-2909.	2.4	16
56	Trehalose-based neuroprotective autophagy inducers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 40, 127929.	2.2	16
57	Interfering with the Tumor-Immune Interface: Making Way for Triazine-Based Small Molecules as Novel PD-L1 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 16020-16045.	6.4	16
58	Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. <i>IEEE Sensors Journal</i> , 2013, 13, 2341-2347.	4.7	15
59	Targeting Integrin α - β 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
60	Nanolipid-Trehalose Conjugates and Nano-Assemblies as Putative Autophagy Inducers. <i>Pharmaceutics</i> , 2019, 11, 422.	4.5	14
61	β -Glucuronidase triggers extracellular MMAE release from an integrin-targeted conjugate. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 4705-4710.	2.8	14
62	Synthesis and preclinical evaluation of a novel, selective ^{111}In -labelled aminoproline-RGD-peptide for non-invasive melanoma tumor imaging. <i>MedChemComm</i> , 2015, 6, 2175-2183.	3.4	11
63	HuR-targeted agents: An insight into medicinal chemistry, biophysical, computational studies and pharmacological effects on cancer models. <i>Advanced Drug Delivery Reviews</i> , 2022, 181, 114088.	13.7	11
64	Rational Design of Antiangiogenic Helical Oligopeptides Targeting the Vascular Endothelial Growth Factor Receptors. <i>Frontiers in Chemistry</i> , 2019, 7, 170.	3.6	10
65	Multimeric Presentation of RGD Peptidomimetics Enhances Integrin Binding and Tumor Cell Uptake. <i>Chemistry - A European Journal</i> , 2020, 26, 7492-7496.	3.3	10
66	Rational design, synthesis and characterization of potent, drug-like monomeric Smac mimetics as pro-apoptotic anticancer agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 2204-2208.	2.2	7
67	Shifting Towards α - β Integrin Ligands Using Novel Aminoproline-Based Cyclic Peptidomimetics. <i>Chemistry - A European Journal</i> , 2020, 26, 13468-13475.	3.3	7
68	Squalene-Based Nano-Assemblies Improve the Pro-Autophagic Activity of Trehalose. <i>Pharmaceutics</i> , 2022, 14, 862.	4.5	7
69	Dual action Smac mimetics-zinc chelators as pro-apoptotic antitumoral agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 4613-4619.	2.2	6
70	Synthesis of non glycosidic nucleobase-sugar mimetics. <i>Comptes Rendus Chimie</i> , 2010, 13, 1284-1300.	0.5	5
71	SPION-Smac mimetic nano-conjugates: Putative pro-apoptotic agents in oncology. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 2374-2378.	2.2	5
72	Cyclic RGD and isoDGR Integrin Ligands Containing cis-2-amino-1-cyclopentanecarboxylic (cis- β -ACPC) Scaffolds. <i>Molecules</i> , 2020, 25, 5966.	3.8	5

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73	New potent $\beta_1\beta_3$ integrin ligands based on azabicycloalkane ($\beta_1\beta_3$)-dipeptide mimics. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 3221-3233.	2.8	4
74	4-Connected azabicyclo[5.3.0]decane Smac mimetics-Zn ²⁺ chelators as dual action antitumoral agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 2336-2344.	2.2	4
75	Stereodivergent synthesis of 5-aminopiperic acids and application in the preparation of a cyclic RGD peptidomimetic as a nanomolar $\beta_1\beta_3$ integrin ligand. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 3402-3414.	2.8	4
76	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
77	Small molecules as pro-apoptotic anticancer agents. <i>Pharmaceutical Patent Analyst</i> , 2012, 1, 483-505.	1.1	3
78	Synthesis and Characterization of Novel Mono- and Bis-Guanyl Hydrazones as Potent and Selective ASIC1 Inhibitors Able to Reduce Brain Ischemic Insult. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 8333-8353.	6.4	3
79	Solid-phase synthesis of combinatorial libraries based on enantiomerically pure (1S,2S,4R,5S)-4,5-dihydroxycyclohexan-1,2-dicarboxylic acid scaffolds. <i>Il Farmaco</i> , 2002, 57, 861-864.	0.9	1
80	Molecular Targeting of Imaging and Drug Delivery Probes in Atherosclerosis. <i>Annual Reports in Medicinal Chemistry</i> , 2013, 48, 105-118.	0.9	1
81	Characterization of iron oxide-gold core-shell multifunctional nanoparticles in biomedical imaging. , 2011, , .		0
82	Bisphosphonate-functionalized cyclic Arg-Gly-Asp peptidomimetics. <i>Arkivoc</i> , 2013, 2013, 185-200.	0.5	0
83	Frontispiece: Multivalency Increases the Binding Strength of RGD Peptidomimetic- β -Paclitaxel Conjugates to Integrin $\beta_1\beta_3$. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	0