

Didier Boturyn

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

2,702
citations

30
h-index

48
g-index

111
ext. papers

2,945
ext. citations

5.7
avg, IF

4.71
L-index

#	Paper	IF	Citations
101	Ratiometric Luminescence Detection of Copper(I) by a Resonant System Comprising Two Antenna/Lanthanide Pairs. <i>Inorganic Chemistry</i> , 2021 , 60, 17426-17434	5.1	1
100	Determination of the Rituximab Binding Site to the CD20 Epitope Using SPOT Synthesis and Surface Plasmon Resonance Analyses. <i>Analytical Chemistry</i> , 2021 , 93, 6865-6872	7.8	1
99	Impact of Multimeric Ferrocene-containing Cyclodecapeptide Scaffold on Host-Guest Interactions at a Cyclodextrin Covered Surface. <i>ChemPhysChem</i> , 2021 , 22, 2231-2239	3.2	0
98	Impact of Antigen Density on Recognition by Monoclonal Antibodies. <i>Analytical Chemistry</i> , 2020 , 92, 5396-5403	7.8	4
97	Using Native Chemical Ligation for Site-Specific Synthesis of Hetero-bis-lanthanide Peptide Conjugates: Application to Ratiometric Visible or Near-Infrared Detection of Zn. <i>Chemistry - A European Journal</i> , 2020 , 26, 13476-13483	4.8	4
96	Synthesis and Biological Characterization of Monomeric and Tetrameric RGD-Cryptophycin Conjugates. <i>Chemistry - A European Journal</i> , 2020 , 26, 2602-2605	4.8	9
95	Antimicrobial Peptides as Probes in Biosensors Detecting Whole Bacteria: A Review. <i>Molecules</i> , 2020 , 25,	4.8	16
94	Multimeric Presentation of RGD Peptidomimetics Enhances Integrin Binding and Tumor Cell Uptake. <i>Chemistry - A European Journal</i> , 2020 , 26, 7492-7496	4.8	4
93	Heparan sulfate co-immobilized with cRGD ligands and BMP2 on biomimetic platforms promotes BMP2-mediated osteogenic differentiation. <i>Acta Biomaterialia</i> , 2020 , 114, 90-103	10.8	7
92	Radiotheranostic Agent Cu-cyclam-RAFT-c(-RGDfK-) for Management of Peritoneal Metastasis in Ovarian Cancer. <i>Clinical Cancer Research</i> , 2020 , 26, 6230-6241	12.9	2
91	Chemical Synthesis, Proper Folding, Na Channel Selectivity Profile and Analgesic Properties of the Spider Peptide Phlotoxin 1. <i>Toxins</i> , 2019 , 11,	4.9	11
90	Antimicrobial peptide arrays for wide spectrum sensing of pathogenic bacteria. <i>Talanta</i> , 2019 , 203, 322-327	3.2	13
89	Influence of the Spatial Conformation of Charged Ligands on the Optical Properties of Gold Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26705-26717	3.8	11
88	Multifunctional Glycoconjugates for Recruiting Natural Antibodies against Cancer Cells. <i>Chemistry - A European Journal</i> , 2019 , 25, 15508-15515	4.8	11
87	Multifunctional Glycoconjugates for Recruiting Natural Antibodies against Cancer Cells. <i>Chemistry - A European Journal</i> , 2019 , 25, 15429	4.8	
86	Synthesis by native chemical ligation and characterization of the scorpion toxin AmmTx3. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 247-253	3.4	7
85	Mercury Trithiolate Binding (HgS) to a de Novo Designed Cyclic Decapeptide with Three Preoriented Cysteine Side Chains. <i>Inorganic Chemistry</i> , 2018 , 57, 2705-2713	5.1	9

84	Positron emission tomography of cerebral angiogenesis and TSPO expression in a mouse model of chronic hypoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018 , 38, 687-696	7.3	2
83	Synthesis and photophysical studies of a multivalent photoreactive Ru-calix[4]arene complex bearing RGD-containing cyclopentapeptides. <i>Beilstein Journal of Organic Chemistry</i> , 2018 , 14, 1758-1768 ²⁻⁵		4
82	Uniform intratumoral distribution of radioactivity produced using two different radioagents, Cu-cyclam-RAFT-c(-RGDfK-) and Cu-ATSM, improves therapeutic efficacy in a small animal tumor model. <i>EJNMMI Research</i> , 2018 , 8, 54	3.6	8
81	Design of RGD-ATWLPPR peptide conjugates for the dual targeting of $\alpha_5\beta_1$ integrin and neuropilin-1. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 4101-4107	3.9	9
80	Binding of the chemokine CXCL12 to its natural extracellular matrix ligand heparan sulfate enables myoblast adhesion and facilitates cell motility. <i>Biomaterials</i> , 2017 , 123, 24-38	15.6	12
79	⁶⁷ Cu-Radiolabeling of a multimeric RGD peptide for $\alpha_5\beta_1$ integrin-targeted radionuclide therapy: stability, therapeutic efficacy, and safety studies in mice. <i>Nuclear Medicine Communications</i> , 2017 , 38, 347-355	1.6	15
78	Development of a selective cell capture and release assay: impact of clustered RGD ligands. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 4745-4753	7.3	6
77	Systemic Delivery of Tumor-Targeted Bax-Derived Membrane-Active Peptides for the Treatment of Melanoma Tumors in a Humanized SCID Mouse Model. <i>Molecular Therapy</i> , 2017 , 25, 534-546	11.7	14
76	Luminescent Zinc Fingers: Zn-Responsive Neodymium Near-Infrared Emission in Water. <i>Chemistry - A European Journal</i> , 2017 , 23, 10992-10996	4.8	18
75	"Polymultivalent" Polymer-Peptide Cluster Conjugates for an Enhanced Targeting of Cells Expressing $\alpha_5\beta_1$ Integrins. <i>Bioconjugate Chemistry</i> , 2017 , 28, 2241-2245	6.3	6
74	$\alpha_5\beta_1$ Integrin-Targeted Radionuclide Therapy with ⁶⁴ Cu-cyclam-RAFT-c(-RGDfK-)-4. <i>Molecular Cancer Therapeutics</i> , 2016 , 15, 2076-85	6.1	27
73	From Peptide Aptamers to Inhibitors of FUR, Bacterial Transcriptional Regulator of Iron Homeostasis and Virulence. <i>ACS Chemical Biology</i> , 2016 , 11, 2519-28	4.9	11
72	Influence of Pre-organised Architecture on Cell Adhesion by Using Multivalent RGD Compounds. <i>ChemBioChem</i> , 2016 , 17, 515-20	3.8	4
71	Targeted radionuclide therapy with RAFT-RGD radiolabelled with (⁹⁰ Y or (¹⁷⁷ Lu) in a mouse model of $\alpha_5\beta_1$ -expressing tumours. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015 , 42, 252-63	8.8	10
70	Controlled surface density of RGD ligands for cell adhesion: evidence for ligand specificity by using QCM-D. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5577-5587	7.3	18
69	Biomolecular assemblies combining two orthogonal copper-mediated ligations in a one-pot reaction. <i>Chemistry - A European Journal</i> , 2015 , 21, 6022-6	4.8	4
68	Multivalency: influence of the residence time and the retraction rate on rupture forces measured by AFM. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 1801-1812	7.3	5
67	Correction: Multivalency: influence of the residence time and the retraction rate on rupture forces measured by AFM. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3098	7.3	

66	A quartz crystal microbalance method to study the terminal functionalization of glycosaminoglycans. <i>Chemical Communications</i> , 2014 , 50, 15148-51	5.8	30
65	Co-liposomes comprising a lipidated multivalent RGD-peptide and a cationic gemini cholesterol induce selective gene transfection in $\alpha_5\beta_1$ and $\alpha_v\beta_3$ integrin receptor-rich cancer cells. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5758-5767	7.3	10
64	Redox-driven host-guest interactions allow the controlled release of captured cells on RGD-functionalized surfaces. <i>ChemBioChem</i> , 2014 , 15, 377-81	3.8	10
63	Oxime ligation: a chemoselective click-type reaction for accessing multifunctional biomolecular constructs. <i>Chemistry - A European Journal</i> , 2014 , 20, 34-41	4.8	167
62	Inhibition of the ferric uptake regulator by peptides derived from anti-FUR peptide aptamers: coupled theoretical and experimental approaches. <i>ACS Chemical Biology</i> , 2014 , 9, 2779-86	4.9	9
61	PET imaging and biodistribution analysis of the effects of succinylated gelatin combined with L-lysine on renal uptake and retention of ^{67}Cu -cyclam-RAFT-c(-RGDFK-) in vivo. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014 , 86, 478-86	5.7	16
60	Near-infrared optical guided surgery of highly infiltrative fibrosarcomas in cats using an anti- $\alpha_5\beta_1$ integrin molecular probe. <i>Cancer Letters</i> , 2013 , 334, 188-95	9.9	42
59	Integrin and matrix metalloprotease dual-targeting with an MMP substrate-RGD conjugate. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 448-52	3.9	4
58	MicroPositron Emission Tomography/Contrast-Enhanced Computed Tomography Imaging of Orthotopic Pancreatic Tumor Bearing Mice Using the $\alpha_5\beta_1$ Integrin Tracer ^{64}Cu -Labeled Cyclam-RAFT-c(-RGDFK-)-4. <i>Molecular Imaging</i> , 2013 , 12, 7290.2013.00054	3.7	9
57	In vivo molecular imaging of atherosclerotic lesions in ApoE-/- mice using VCAM-1-specific, $^{99\text{m}}\text{Tc}$ -labeled peptidic sequences. <i>Journal of Nuclear Medicine</i> , 2013 , 54, 1442-9	8.9	33
56	Engineering of biomolecules for sensing and imaging applications. <i>Journal of Drug Delivery Science and Technology</i> , 2013 , 23, 5-16	4.5	4
55	Micro-positron emission tomography/contrast-enhanced computed tomography imaging of orthotopic pancreatic tumor-bearing mice using the $\alpha_5\beta_1$ integrin tracer ^{64}Cu -labeled cyclam-RAFT-c(-RGDFK-)-4. <i>Molecular Imaging</i> , 2013 , 12, 376-87	3.7	5
54	Reduction of renal uptake of ^{111}In -DOTA-labeled and A700-labeled RAFT-RGD during integrin $\alpha_5\beta_1$ targeting using single photon emission computed tomography and optical imaging. <i>Cancer Science</i> , 2012 , 103, 1105-10	6.9	15
53	Positron emission tomography imaging of tumor angiogenesis and monitoring of antiangiogenic efficacy using the novel tetrameric peptide probe ^{64}Cu -cyclam-RAFT-c(-RGDFK-)-4. <i>Angiogenesis</i> , 2012 , 15, 569-80	10.6	24
52	Targeted delivery of a proapoptotic peptide to tumors in vivo. <i>Journal of Drug Targeting</i> , 2011 , 19, 582-85.4	5.4	24
51	Noninvasive visualization and quantification of tumor $\alpha_5\beta_1$ integrin expression using a novel positron emission tomography probe, ^{64}Cu -cyclam-RAFT-c(-RGDFK-)-4. <i>Nuclear Medicine and Biology</i> , 2011 , 38, 529-40	2.1	26
50	Access to Biomolecular Assemblies through One-Pot Triple Orthogonal Chemoselective Ligations. <i>Angewandte Chemie</i> , 2011 , 123, 1941-1944	3.6	17
49	Access to biomolecular assemblies through one-pot triple orthogonal chemoselective ligations. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1901-4	16.4	43

48	Redox strategy for reversible attachment of biomolecules using bifunctional linkers. <i>Chemical Communications</i> , 2011 , 47, 3565-7	5.8	14
47	Preparation of peptide and other biomolecular conjugates through chemoselective ligations. <i>Methods in Molecular Biology</i> , 2011 , 751, 67-79	1.4	3
46	Cell adhesion through clustered ligand on fluid supported lipid bilayers. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 1531-4	3.9	14
45	Application of click-click chemistry to the synthesis of new multivalent RGD conjugates. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 5133-8	3.9	27
44	Molecular engineering of biomolecules for nanobio-sciences. <i>International Journal of Nanotechnology</i> , 2010 , 7, 738	1.5	5
43	In vivo molecular imaging of myocardial angiogenesis using the alpha(v)beta3 integrin-targeted tracer ^{99m} Tc-RAFT-RGD. <i>Journal of Nuclear Cardiology</i> , 2010 , 17, 435-43	2.1	32
42	RGD-cyclam conjugate: synthesis and potential application for positron emission tomography. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 5422-5	2.9	16
41	Clustering and internalization of integrin alphavbeta3 with a tetrameric RGD-synthetic peptide. <i>Molecular Therapy</i> , 2009 , 17, 837-43	11.7	131
40	One-Pot Approach to Well-Defined Biomolecular Assemblies by Orthogonal Chemoselective Ligations. <i>Angewandte Chemie</i> , 2009 , 121, 2614-2617	3.6	27
39	A gadolinium-binding cyclodecapeptide with a large high-field relaxivity involving second-sphere water. <i>Chemistry - A European Journal</i> , 2009 , 15, 7083-93	4.8	42
38	One-pot approach to well-defined biomolecular assemblies by orthogonal chemoselective ligations. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2576-9	16.4	67
37	Drug development in oncology assisted by noninvasive optical imaging. <i>International Journal of Pharmaceutics</i> , 2009 , 379, 309-16	6.5	16
36	Biomolecular assembly by iterative oxime ligations. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 3880-3	2.9	11
35	Targeted delivery of activatable fluorescent pro-apoptotic peptide into live cells. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 221-4	3.9	35
34	Highly efficient cell adhesion on beads functionalized with clustered peptide ligands. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 4159-62	3.9	11
33	1-Ethoxyethylidene, a new group for the stepwise SPPS of aminoxyacetic acid containing peptides. <i>Journal of Organic Chemistry</i> , 2008 , 73, 983-91	4.2	65
32	Chemical and biological evaluations of an (¹¹¹ In)-labeled RGD-peptide targeting integrin alpha(V) beta(3) in a preclinical tumor model. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2008 , 23, 691-700	3.9	17
31	RAFT Nano-constructs: surfing to biological applications. <i>Journal of Peptide Science</i> , 2008 , 14, 224-40	2.1	49

30	Synthesis and biological characterisation of targeted pro-apoptotic peptide. <i>ChemBioChem</i> , 2008 , 9, 2326-32	4.8	34
29	In vivo optical imaging of integrin alphaV-beta3 in mice using multivalent or monovalent cRGD targeting vectors. <i>Molecular Cancer</i> , 2007 , 6, 41	42.1	74
28	Activatable probes for non-invasive small animal fluorescence imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 571, 165-168	1.2	6
27	Molecular imaging of vascular cell adhesion molecule-1 expression in experimental atherosclerotic plaques with radiolabelled B2702-p. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007 , 34, 830-40	8.8	38
26	In vivo imaging of tumour angiogenesis in mice with the alpha(v)beta (3) integrin-targeted tracer 99mTc-RAFT-RGD. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007 , 34, 2037-47	8.8	55
25	Tumor targeting with RGD peptide ligands-design of new molecular conjugates for imaging and therapy of cancers. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2007 , 7, 552-8	2.2	150
24	In Vivo Noninvasive Optical Imaging of Receptor-Mediated RGD Internalization Using Self-Quenched Cy5-Labeled RAFT-c(-RGDFK)-4. <i>Molecular Imaging</i> , 2007 , 6, 7290.2007.00002	3.7	25
23	In vivo noninvasive optical imaging of receptor-mediated RGD internalization using self-quenched Cy5-labeled RAFT-c(-RGDFK-)(4). <i>Molecular Imaging</i> , 2007 , 6, 43-55	3.7	16
22	Activatable fluorescent probes for tumour-targeting imaging in live mice. <i>ChemMedChem</i> , 2006 , 1, 1069-72	3.7	47
21	Multivalent RGD synthetic peptides as potent alphaVbeta3 integrin ligands. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 1958-65	3.9	71
20	Redox-active biomolecular architectures and self-assembled monolayers based on a cyclodecapeptide regioselectively addressable functional template. <i>Langmuir</i> , 2006 , 22, 8134-43	4	15
19	Model peptides based on the binding loop of the copper metallochaperone Atx1: selectivity of the consensus sequence MxCxxC for metal ions Hg(II), Cu(I), Cd(II), Pb(II), and Zn(II). <i>Inorganic Chemistry</i> , 2006 , 45, 5510-20	5.1	78
18	Noninvasive Optical Imaging of Ovarian Metastases Using Cy5-labeled RAFT-c(-RGDFK)-4. <i>Molecular Imaging</i> , 2006 , 5, 7290.2006.00022	3.7	44
17	Cyclodecapeptides to mimic the radical site of tyrosyl-containing proteins. <i>Journal of Peptide Science</i> , 2006 , 12, 612-9	2.1	9
16	Chemoselectively addressable template: a valuable tool for the engineering of molecular conjugates. <i>Journal of Organic Chemistry</i> , 2006 , 71, 2402-10	4.2	35
15	Noninvasive optical imaging of ovarian metastases using Cy5-labeled RAFT-c(-RGDFK)-4. <i>Molecular Imaging</i> , 2006 , 5, 188-97	3.7	29
14	New multifunctional molecular conjugate vector for targeting, imaging, and therapy of tumors. <i>Molecular Therapy</i> , 2005 , 12, 1168-75	11.7	81
13	Luminescent probes for optical in vivo imaging 2005 ,		3

12	Novel model peptide for Atx1-like metallochaperones. <i>Chemical Communications</i> , 2004 , 770-1	5.8	45
11	Template assembled cyclopeptides as multimeric system for integrin targeting and endocytosis. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5730-9	16.4	186
10	Highly efficient synthesis of peptide- and carbohydrate-oligonucleotide conjugates using chemoselective oxime and thiazolidine formation. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003 , 22, 1427-9	1.4	4
9	3'-Oligonucleotides conjugation via chemoselective oxime bond formation. <i>Tetrahedron Letters</i> , 2001 , 42, 9171-9174	2	31
8	A convenient access to α - β integrin ligand conjugates: regioselective solid-phase functionalisation of an RGD based peptide. <i>Tetrahedron Letters</i> , 2001 , 42, 2787-2790	2	39
7	Photoactivated DNA cleavage by compounds structurally related to the bithiazole moiety of bleomycin. <i>Bioorganic and Medicinal Chemistry</i> , 2001 , 9, 2303-14	3.4	22
6	Highly efficient synthesis of peptide-oligonucleotide conjugates: chemoselective oxime and thiazolidine formation. <i>Chemistry - A European Journal</i> , 2001 , 7, 3976-84	4.8	101
5	DNA repair inhibitors. <i>Expert Opinion on Therapeutic Patents</i> , 1999 , 9, 401-415	6.8	6
4	A new fluorescent probe for sensitive detection of carbonyl compounds. <i>Analytica Chimica Acta</i> , 1999 , 382, 253-263	6.6	23
3	A simple and sensitive method for in vitro quantitation of abasic sites in DNA. <i>Chemical Research in Toxicology</i> , 1999 , 12, 476-82	4	30
2	Quantitative One Step Derivatization of Oligonucleotides by a Fluorescent Label Through Abasic Site Formation. <i>Nucleosides & Nucleotides</i> , 1997 , 16, 2069-2077		8
1	Synthesis of fluorescent probes for the detection of abasic sites in DNA. <i>Tetrahedron</i> , 1997 , 53, 5485-5492	4.2	42