Marc C Devocelle

List of Publications by Year
in descending order

79	2,457	186265	223800
papers	citations	28 h-index	46 g-index

85	85	85	3814
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Regulation of Glucose Transporter 3 Surface Expression by the AMP-Activated Protein Kinase Mediates Tolerance to Glutamate Excitation in Neurons. Journal of Neuroscience, 2009, 29, 2997-3008.	3.6	153
2	AMP kinaseâ€“mediated activation of the BH3-only protein Bim couples energy depletion to stress-induced apoptosis. Journal of Cell Biology, 2010, 189, 83-94.	5.2	142
3	Ruthenium polypyridyl peptide conjugates: membrane permeable probes for cellular imaging. Chemical Communications, 2008, , 5307.	4.1	132
4	Proteasome inhibition can induce an autophagy-dependent apical activation of caspase-8. Cell Death and Differentiation, 2011, 18, 1584-1597.	11.2	120
5	A peptide corresponding to the neuropilin-1-binding site on VEGF165 induces apoptosis of neuropilin-1-expressing breast tumour cells. British Journal of Cancer, 2005, 92, 328-333.	6.4	112
6	Multimodal cell imaging by ruthenium polypyridyl labelled cell penetrating peptides. Chemical Communications, 2010, 46, 103-105.	4.1	84
7	Bioinformatic discovery of novel bioactive peptides. , 2007, 3, 108-112.		73
8	Elucidating the role of Staphylococcus epidermidis serineâ€“aspartate repeat proteinÂG in platelet activation. Journal of Thrombosis and Haemostasis, 2009, 7, 1364-1372.	3.8	68
9	Click-Modified Cyclodextrins as Nonviral Vectors for Neuronal siRNA Delivery. ACS Chemical Neuroscience, 2012, 3, 744-752.	3.5	67
10	Amidophosphineâ^'Phosphinites:â€‰ Synthesis and Use in Rhodium-Based Asymmetric Hydrogenation of Activated Keto Compounds. Crystal Structure of Bis[(Î¼-chloro)((S)-2-((diphenylphosphino)oxy)-2-phenyl-) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 372 Td (N-(diphenylphosphino)-N-methy	2.3	65
11	Peptide directed transmembrane transport and nuclear localization of Ru(ii) polypyridyl complexes in mammalian cells. Chemical Communications, 2013, 49, 2658.	4.1	57
12	Increased Intracellular Targeting to Airway Cells Using Octaarginine-Coated Liposomes:â€‰ In Vitro Assessment of Their Suitability for Inhalation. Molecular Pharmaceutics, 2006, 3, 104-112.	4.6	55
13	The anti-cancer activity of a cationic anti-microbial peptide derived from monomers of polyhydroxyalkanoate. Biomaterials, 2013, 34, 2710-2718.	11.4	55
14	Alternative synthesis of the chiral atypical Î²-adrenergicphenylethanolaminotetraline agonist SR58611A using enantioselective hydrogenation. Tetrahedron Letters, 1999, 40, 4551-4554.	1.4	54
15	Eradication of Staphylococcus aureus Biofilm Infections Using Synthetic Antimicrobial Peptides. Journal of Infectious Diseases, 2017, 215, 975-983.	4.0	52
16	XIAP impairs Smac release from the mitochondria during apoptosis. Cell Death and Disease, 2010, 1, e49-e49.	6.3	51
17	Cell uptake and cytotoxicity of a novel cyclometalated iridium(III) complex and its octaarginine peptide conjugate. Journal of Inorganic Biochemistry, 2013, 119, 65-74.	3.5	46
18	Beyond conventional antibiotics for the future treatment of methicillin-resistantStaphylococcus aureusinfections: two novel alternatives. FEMS Immunology and Medical Microbiology, 2012, 65, 399-412.	2.7	45

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19	Pro-Moieties of Antimicrobial Peptide Prodrugs. Molecules, 2015, 20, 1210-1227.	3.8	43
20	Highly Efficient Asymmetric Hydrogenation of Activated and Unactivated Ketones Catalyzed by Rhodium(I) Aminophosphine- and Amidophosphine-Phosphinite Complexes. Beneficial Effect of the Non Chiral Ligand. Synlett, 1995, 1995, 358-360.	1.8	40
21	Synthesis of Mutual Azo Prodrugs of Anti-inflammatory Agents and Peptides Facilitated by Î±-Aminoisobutyric Acid. Journal of Organic Chemistry, 2011, 76, 9641-9647.	3.2	38
22	Synthesis and assessment of a maleimide functionalized BF₂ azadipyrromethene near-infrared fluorochrome. Chemical Communications, 2015, 51, 16667-16670.	4.1	38
23	In Vitro Investigations of the Efficacy of Cyclodextrin-siRNA Complexes Modified with Lipid-PEG-Octaarginine: Towards a Formulation Strategy for Non-viral Neuronal siRNA Delivery. Pharmaceutical Research, 2013, 30, 1086-1098.	3.5	36
24	Asymmetric Hydrogenation of Î±, Î², and Î³-Aminoketones Catalyzed by Cationic Rhodium(I){AMPP} Complexes. Synlett, 1997, 1997, 1306-1308.	1.8	34
25	CycloPs: Generating Virtual Libraries of Cyclized and Constrained Peptides Including Nonnatural Amino Acids. Journal of Chemical Information and Modeling, 2011, 51, 829-836.	5.4	34
26	A Novel Family of Hydroxamate-Based Acylating Inhibitors of Cyclooxygenase. Molecular Pharmacology, 2003, 63, 450-455.	2.3	31
27	Targeted Antimicrobial Peptides. Frontiers in Immunology, 2012, 3, 309.	4.8	31
28	O-Acetylsalicylhydroxamic Acid, a Novel Acetylating Inhibitor of Prostaglandin H₂Synthase: Structural and Functional Characterization of Enzyme-Inhibitor Interactions. Molecular Pharmacology, 2001, 60, 1407-1413.	2.3	30
29	Potential of Host Defense Peptide Prodrugs as Neutrophil Elastase-Dependent Anti-Infective Agents for Cystic Fibrosis. Antimicrobial Agents and Chemotherapy, 2014, 58, 978-985.	3.2	30
30	Differential In Vitro and In Vivo Toxicities of Antimicrobial Peptide Prodrugs for Potential Use in Cystic Fibrosis. Antimicrobial Agents and Chemotherapy, 2016, 60, 2813-2821.	3.2	30
31	A computational model of antibiotic-resistance mechanisms in Methicillin-Resistant Staphylococcus aureus (MRSA). Journal of Theoretical Biology, 2008, 254, 284-293.	1.7	28
32	Platinum(<scp>iv</scp>) oxaliplatinâ€“peptide conjugates targeting memHsp70+ phenotype in colorectal cancer cells. Chemical Communications, 2017, 53, 11318-11321.	4.1	28
33	Impact of amino acid replacements on in vitro permeation enhancement and cytotoxicity of the intestinal absorption promoter, melittin. International Journal of Pharmaceutics, 2010, 387, 154-160.	5.2	27
34	Î²-Lactam-host defence peptide conjugates as antibiotic prodrug candidates targeting resistant bacteria. RSC Advances, 2012, 2, 2480.	3.6	27
35	Polymeric prodrug combination to exploit the therapeutic potential of antimicrobial peptides against cancer cells. Organic and Biomolecular Chemistry, 2016, 14, 9278-9286.	2.8	27
36	Computational Approaches to Developing Short Cyclic Peptide Modulators of Proteinâ€“Protein Interactions. Methods in Molecular Biology, 2015, 1268, 241-271.	0.9	27

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37	Rhodium(I) bis(aminophosphane) complexes as catalysts for asymmetric hydrogenation of activated ketones. Tetrahedron: Asymmetry, 1996, 7, 379-382.	1.8	25
38	High content analysis to determine cytotoxicity of the antimicrobial peptide, melittin and selected structural analogs. Peptides, 2011, 32, 1764-1773.	2.4	25
39	Structural studies in aqueous solution of new binuclear lanthanide luminescent peptide conjugates. Chemical Communications, 2008, , 4552.	4.1	23
40	A convenient parallel synthesis of low molecular weight hydroxamic acids using polymer-supported 1-hydroxybenzotriazole. Organic and Biomolecular Chemistry, 2003, 1, 850-853.	2.8	22
41	Luminescent lanthanide-binding peptides: sensitising the excited states of Eu(<scp>iii</scp>) and Tb(<scp>iii</scp>) with a 1,8-naphthalimide-based antenna. Organic and Biomolecular Chemistry, 2012, 10, 126-133.	2.8	21
42	A novel functional role for the highly conserved ?-subunit KVGFFKR motif distinct from integrin ?IIb?3activation processes. Journal of Thrombosis and Haemostasis, 2006, 4, 1804-1812.	3.8	18
43	In Vitro Activities of Synthetic Host Defense Propeptides Processed by Neutrophil Elastase against Cystic Fibrosis Pathogens. Antimicrobial Agents and Chemotherapy, 2011, 55, 2487-2489.	3.2	17
44	Derivatisation of buforin IIb, a cationic henicosapeptide, to afford its complexation to platinum(<scp>ii</scp>) resulting in a novel platinum(<scp>ii</scp>)â€“buforin IIb conjugate with anti-cancer activity. Dalton Transactions, 2016, 45, 13038-13041.	3.3	16
45	Stabilization of Angiotensin-(1â€“7) by key substitution with a cyclic non-natural amino acid. Amino Acids, 2017, 49, 1733-1742.	2.7	16
46	Vibrating Mesh Nebulisation of Pro-Antimicrobial Peptides for Use in Cystic Fibrosis. Pharmaceutics, 2019, 11, 239.	4.5	16
47	Parallel synthesis and in vitro activity of novel anthranilic hydroxamate-based inhibitors of the prostaglandin H2 synthase peroxidase activity. Organic and Biomolecular Chemistry, 2005, 3, 3678.	2.8	15
48	The chain length of biologically produced (R)-3-hydroxyalkanoic acid affects biological activity and structure of anti-cancer peptides. Journal of Biotechnology, 2015, 204, 7-12.	3.8	15
49	Regeneration of aged DMF for use in solidâ€phase peptide synthesis. Journal of Peptide Science, 2019, 25, e3139.	1.4	15
50	Plant-Derived Antimicrobial Peptides as Potential Antiviral Agents in Systemic Viral Infections. Pharmaceuticals, 2021, 14, 774.	3.8	15
51	Virtual Screening Using Combinatorial Cyclic Peptide Libraries Reveals Protein Interfaces Readily Targetable by Cyclic Peptides. Journal of Chemical Information and Modeling, 2015, 55, 600-613.	5.4	14
52	A peptide affinity column for the identification of integrin Î±IIb-binding proteins. Analytical Biochemistry, 2008, 374, 203-212.	2.4	13
53	Biosynthesis of 2-aminooctanoic acid and its use to terminally modify a lactoferricin B peptide derivative for improved antimicrobial activity. Applied Microbiology and Biotechnology, 2018, 102, 789-799.	3.6	13
54	A novel medical device coating prevents Staphylococcus aureus biofilm formation on medical device surfaces. FEMS Microbiology Letters, 2019, 366, .	1.8	13

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55	A novel role for the fibrinogen Asn-Gly-Arg (NGR) motif in platelet function. Thrombosis and Haemostasis, 2015, 113, 290-304.	3.4	11
56	Action of antimicrobial peptides and their prodrugs on model and biological membranes. Journal of Peptide Science, 2018, 24, e3086.	1.4	11
57	Poly(ethylene glycol)-Based Peptidomimetic â€œPEGtideâ€•of Oligo-Arginine Allows for Efficient siRNA Transfection and Gene Inhibition. ACS Omega, 2019, 4, 10078-10088.	3.5	11
58	Chemoselective Synthesis of N-Terminal Cysteinyl Thioesters via Î²,Î³-C,S Thiol-Michael Addition. Organic Letters, 2019, 21, 3281-3285.	4.6	10
59	Ligand Switching in Cell-Permeable Peptides: Manipulation of the Î±-Integrin Signature Motif. ACS Chemical Biology, 2009, 4, 457-471.	3.4	9
60	Poly(Ethylene Glycol)-Based Backbones with High Peptide Loading Capacities. Molecules, 2014, 19, 17559-17577.	3.8	9
61	Molecular Aspects of the Interaction with Gram-Negative and Gram-Positive Bacteria of Hydrothermal Carbon Nanoparticles Associated with Bac8c^{2,5Leu} Antimicrobial Peptide. ACS Omega, 2022, 7, 16402-16413.	3.5	9
62	Calreticulin-independent regulation of the platelet integrin Î±IIbÎ²3by the KVGFFKR Î±IIb-cytoplasmic motif. Platelets, 2004, 15, 43-54.	2.3	8
63	Synthesis and characterisation of a novel mono functionalisable Pt(IV) oxaliplatin-type complex and its peptide conjugate. Inorganica Chimica Acta, 2020, 505, 119492.	2.4	8
64	MODELING THE POPULATION DYNAMICS OF ANTIBIOTIC-RESISTANT BACTERIA: AN AGENT-BASED APPROACH. International Journal of Modern Physics C, 2009, 20, 435-457.	1.7	7
65	Assessing the correlation of microscopyâ€based and volumetryâ€based measurements for resin swelling in a range of potential greener solvents for SPPS. Journal of Peptide Science, 2020, 26, e3250.	1.4	7
66	Absolute Net Charge and the Biological Activity of Oligopeptides. Journal of Chemical Information and Modeling, 2006, 46, 2183-2190.	5.4	5
67	Membrane permeable luminescent metal complexes for cellular imaging. , 2012, , .		5
68	Derivatisation of an Antiâ€Cancer Cationic Antimicrobial Peptide and its Complexation to Platinum(II). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 1628-1635.	1.2	5
69	Using Disease-Associated Enzymes to Activate Antimicrobial Peptide Prodrugs. Methods in Molecular Biology, 2017, 1548, 359-368.	0.9	5
70	A Theoretical Analysis of the Prodrug Delivery System for Treating Antibiotic-Resistant Bacteria. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 650-658.	3.0	3
71	Computational survey of peptides derived from disulphide-bonded protein loops that may serve as mediators of protein-protein interactions. BMC Bioinformatics, 2014, 15, 305.	2.6	3
72	Inhibition of platelet adhesion by peptidomimetics mimicking the interactive Î²-hairpin of glycoprotein Ibα. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 3323-3326.	2.2	2

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73	Functional Antagonism of Junctional Adhesion Molecule-A (JAM-A), Overexpressed in Breast Ductal Carcinoma In Situ (DCIS), Reduces HER2-Positive Tumor Progression. Cancers, 2022, 14, 1303.	3.7	2
74	5-Chloro-3-hydroxy-2,2-dimethyl-2,3-dihydroquinazolin-4(1H)-one: supramolecular aggregation through a two-dimensional network of Nâ€”H...O and Oâ€”H...O interactions. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o5003-o5005.	0.2	0
75	2-Methoxybenzohydroxamic acid: supramolecular aggregation through two-dimensional networks of Nâ€”H...O and Oâ€”H...O interactions. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o4955-o4957.	0.2	0
76	2-Amino-5-iodobenzohydroxamic acid: supramolecular aggregation through two-dimensional networks of Nâ€”H...O, Oâ€”H...N and Câ€”H...O interactions. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o5083-o5085.	0.2	0
77	2-Amino-3,5-dichlorobenzohydroxamic acid: supramolecular aggregation through two-dimensional networks of Oâ€”H...N/O and Nâ€”H...O/Cl interactions. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o5086-o5088.	0.2	0
78	BenzylN-[2-(1H-indol-3-yl)ethyl]dithiocarbamate. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o288-o289.	0.2	0
79	AMP kinaseâ€“mediated activation of the BH3-only protein Bim couples energy depletion to stress-induced apoptosis. Journal of Experimental Medicine, 2010, 207, i12-i12.	8.5	0