

# Jacqueline Marchand-Brynaert

## List of Publications by Year in descending order

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108  
papers

2,402  
citations

201674

27  
h-index

276875

41  
g-index

111  
all docs

111  
docs citations

111  
times ranked

2908  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polypropylene/clay nanocomposites: An innovative one-pot process. <i>Polymer Composites</i> , 2015, 36, 644-650.	4.6	7
2	Tetrathiatriarylmethyl Radicals Conjugated to an RGD- $\beta$ -Peptidomimetic. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 8077-8084.	2.4	10
3	( <i>S</i> )-1-(Pent-4-enyl)-4-(hydroxymethyl)-azetidin-2-one derivatives as inhibitors of human fatty acid amide hydrolase (hFAAH): synthesis, biological evaluation and molecular modelling. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014, 29, 654-662.	5.2	1
4	Surface photografting of arylazide derivatives on chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2014, 387, 148-154.	3.1	4
5	RGD-conjugated triarylmethyl radical as probe for electron paramagnetic imaging. <i>Tetrahedron Letters</i> , 2013, 54, 5924-5926.	1.4	14
6	Polycyclic phosphonic acid derivatives obtained by a [4+2] cycloaddition strategy using phosphonodienes. <i>Tetrahedron</i> , 2013, 69, 1138-1147.	1.9	17
7	Targeted nanoparticles with novel non-peptidic ligands for oral delivery. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 833-844.	13.7	124
8	An unprecedented reversible mode of action of $\beta$ -lactams for the inhibition of human fatty acid amide hydrolase (hFAAH). <i>European Journal of Medicinal Chemistry</i> , 2013, 60, 101-111.	5.5	6
9	Macrocyclic $\beta$ -lactams as novel inhibitors of the Penicillin Binding Protein PBP2a from MRSA. <i>European Journal of Medicinal Chemistry</i> , 2013, 64, 365-376.	5.5	12
10	Photoactivable Nonsymmetrical Bifunctional Linkers for Protein Immobilization on Attenuated Total Reflectance FTIR Optical Devices. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 7952-7959.	2.4	8
11	$\beta$ -Nitrobenzyl Esters of Penam and Cephem Derivatives as Inhibitors of Penicillin-Binding Proteins. <i>Asian Journal of Organic Chemistry</i> , 2013, 2, 654-661.	2.7	2
12	Polyethylene terephthalate membrane grafted with peptidomimetics: endothelial cell compatibility and retention under shear stress. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 269-286.	3.5	16
13	A Pyrene- and Phosphonate-Containing Fluorescent Probe as Guest Molecule in a Host Polymer Matrix. <i>Molecules</i> , 2013, 18, 1897-1915.	3.8	3
14	Inhibitors of the Endocannabinoid-Degrading Enzymes, or how to Increase Endocannabinoids Activity by Preventing their Hydrolysis. <i>Recent Patents on CNS Drug Discovery</i> , 2012, 7, 49-70.	0.9	42
15	Tri- and Tetravalent Photoactivable Cross-Linking Agents. <i>Synthesis</i> , 2012, 44, 2249-2254.	2.3	13
16	Synthesis and Application of New Photocrosslinkers for Poly(ethylene glycol). <i>Australian Journal of Chemistry</i> , 2012, 65, 193.	0.9	12
17	6-Aminopenicillanic acid (6-APA) derivatives equipped with anchoring arms. <i>Tetrahedron</i> , 2012, 68, 10818-10826.	1.9	15
18	Non-symmetrically substituted phenoxazinones from laccase-mediated oxidative cross-coupling of aminophenols: an experimental and theoretical insight. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 1834.	2.8	14

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19	Diaryl ureaLDV peptidomimetics as $\alpha$ 4 $\beta$ 1 integrin antagonists: synthesis, adhesion inhibition and toxicity evaluation on CCRF-CEM cell line. <i>MedChemComm</i> , 2012, 3, 199-212.	3.4	4
20	Static SIMS study on surfaces of chalcogenide glasses modified by an organic layer. <i>Surface Science</i> , 2012, 606, 1071-1077.	1.9	7
21	Configurationaly Stable Tris(tetrathioaryl)methyl Molecular Propellers. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 6517-6525.	2.4	6
22	Functionalized Phosphonated Half $\beta$ -Cage Molecules as Ligands for Metal Complexes. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 6165-6178.	2.4	7
23	Unprecedented inhibition of resistant penicillin bindingproteins by bis-2-oxoazetidinyldmacrocycles. <i>MedChemComm</i> , 2012, 3, 344-351.	3.4	13
24	Synthesis of Poly(lactide-co-glycolide-co- $\mu$ -caprolactone)-graft-mannosylated Poly(ethylene oxide) Copolymers by Combination of $\alpha$ -Click and $\alpha$ -Click Chemistries. <i>Biomacromolecules</i> , 2012, 13, 760-768.	5.4	39
25	A phosphonated triarylmethyl radical as a probe for measurement of pH by EPR. <i>Chemical Communications</i> , 2012, 48, 4049.	4.1	37
26	Surface modification of polypropylene nonwovens with LDV peptidomimetics and their application in the leukodepletion of blood products. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 1513-1523.	3.4	9
27	12- to 22-Membered Bridged $\beta$ -Lactams as Potential Penicillin $\beta$ -Binding Protein Inhibitors. <i>Chemistry - an Asian Journal</i> , 2012, 7, 425-434.	3.3	10
28	LDV peptidomimetics equipped with biotinylated spacer-arms: Synthesis and biological evaluation on CCRF-CEM cell line. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 586-590.	2.2	7
29	Tuning the functionalization chemistry of polypropylene for polypropylene/clay nanocomposites. <i>Reactive and Functional Polymers</i> , 2012, 72, 17-24.	4.1	15
30	Clickable PEG conjugate obtained by $\alpha$ -click photochemistry: Synthesis and characterization by quantitative $^{19}\text{F}$ NMR. <i>Journal of Fluorine Chemistry</i> , 2012, 140, 62-69.	1.7	14
31	Photo-induced micellization of block copolymers bearing 4,5-dimethoxy-2-nitrobenzyl side groups. <i>Soft Matter</i> , 2011, 7, 6891.	2.7	35
32	Chiral properties of tetrathiatriarylmethyl spin probes. <i>Chemical Communications</i> , 2011, 47, 4793.	4.1	27
33	SAR and LC/MS Studies of $\beta$ -Lactamic Inhibitors of Human Fatty Acid Amide Hydrolase ( $\alpha$ -FAAH): Evidence of a Nonhydrolytic Process. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 6812-6823.	6.4	8
34	Surface modification of amorphous substrates by disulfide derivatives: A photo-assisted route to direct functionalization of chalcogenide glasses. <i>Surface Science</i> , 2011, 605, 2006-2016.	1.9	8
35	Novel phosphonated bicyclic frameworks from Diels-Alder reaction as chelating agents of di- and trivalent metal cations. <i>Tetrahedron Letters</i> , 2011, 52, 5140-5144.	1.4	16
36	Calcium and zinc complexes of pyrroglutamate analogs detected by electrospray ionization mass spectrometry. <i>Amino Acids</i> , 2011, 40, 679-687.	2.7	8

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37	Surface modification of poly(butylene terephthalate) nonwoven by photochemistry and biofunctionalization with peptides for blood filtration. <i>Journal of Polymer Science Part A</i> , 2011, 49, 5087-5099.	2.3	14
38	“Click” and “Click”-Chemistries Combination: Toward Easy PEGylation of Degradable Aliphatic Polyesters. <i>Macromolecular Rapid Communications</i> , 2011, 32, 616-621.	3.9	14
39	Modular Synthesis of Bifunctional Linkers for Materials Science. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 1641-1644.	2.4	9
40	Zinc complexes with 1,2,4-triazole functionalized amino acid derivatives: Synthesis, structure and $\beta$ -lactamase assay. <i>Inorganica Chimica Acta</i> , 2011, 368, 21-28.	2.4	29
41	Water-assisted extrusion of polypropylene/clay nanocomposites: A comprehensive study. <i>Polymer</i> , 2011, 52, 443-451.	3.8	55
42	Surface modifications of polypropylene membranes used for blood filtration. <i>Polymer</i> , 2011, 52, 1223-1233.	3.8	29
43	Coordination Polymers and Metal Organic Frameworks Derived from 1,2,4-Triazole Amino Acid Linkers. <i>Polymers</i> , 2011, 3, 1750-1775.	4.5	61
44	Carboxylate clays: A model study for polypropylene/clay nanocomposites. <i>Polymer Degradation and Stability</i> , 2010, 95, 1194-1204.	5.8	21
45	Synthesis and biological evaluation of novel imidazole-containing macrocycles. <i>Tetrahedron</i> , 2010, 66, 4515-4520.	1.9	21
46	Cyclodimerization by ring-closing metathesis: synthesis, computational, and biological evaluation of novel bis-azetidiny-macrocycles. <i>Tetrahedron</i> , 2010, 66, 9519-9527.	1.9	16
47	Live-Cell Imaging with Water-Soluble Aminophenoxazinone Dyes Synthesised through Laccase Biocatalysis. <i>ChemBioChem</i> , 2010, 11, 1451-1457.	2.6	16
48	Polypropylene ionic thermoplastic elastomers: Synthesis and properties. <i>Polymer Degradation and Stability</i> , 2010, 95, 363-368.	5.8	19
49	Novel chiral 1-phosphono-1,3-butadiene for asymmetric hetero Diels-Alder cycloadditions with nitroso and azodicarboxylate dienophiles. <i>Tetrahedron Letters</i> , 2010, 51, 1052-1055.	1.4	20
50	Straightforward hetero Diels-Alder reactions of nitroso dienophiles by microreactor technology. <i>Tetrahedron Letters</i> , 2010, 51, 5830-5833.	1.4	27
51	HDA cycloadditions of 1-diethoxyphosphonyl-1,3-butadiene with nitroso heterodienophiles: A computational investigation. <i>Computational and Theoretical Chemistry</i> , 2010, 959, 49-54.	1.5	8
52	Ultrasmall particle of iron oxide-RGD peptidomimetic conjugate: synthesis and characterisation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 1861-1865.	2.2	18
53	Chemistry around imidazopyrazine and ibuprofen: Discovery of novel fatty acid amide hydrolase (FAAH) inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 3564-3574.	5.5	25
54	Surface grafting on poly(ethylene terephthalate) track-etched microporous membrane by activation with trifluorotriazine: Application to the biofunctionalization with GRGDS peptide. <i>Journal of Polymer Science Part A</i> , 2010, 48, 195-208.	2.3	11

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55	From Medicinal Chemistry to Functionalized Biomaterials: Development of Graftable RGD-Peptidomimetics for Cell Adhesion and Cell Addressing. <i>Materials Science Forum</i> , 2010, 638-642, 612-617.	0.3	0
56	[4 + 2] Cycloadditions of 1-Phosphono-1,3-butadienes with Nitroso Heterodienophiles: A Versatile Synthetic Route for Polyfunctionalized Aminophosphonic Derivatives. <i>Journal of Organic Chemistry</i> , 2010, 75, 5478-5486.	3.2	27
57	Aminophosphonic Acids and Aminobis(phosphonic acids) as Potential Inhibitors of Penicillin-Binding Proteins. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 85-97.	2.4	9
58	Laccase-Mediated Synthesis of Novel Substituted Phenoxazine Chromophores Featuring Tuneable Water Solubility. <i>Chemistry - A European Journal</i> , 2009, 15, 8283-8295.	3.3	48
59	Novel Large-Ring 1,3-Bridged 2-Azetidinones as Potential Inhibitors of Penicillin-Binding Proteins. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 1757-1770.	2.4	21
60	In vitro and in vivo studies of 6,8-(diaryl)imidazo[1,2-a]pyrazin-3(7H)-ones as new antioxidants. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 4336-4344.	3.0	8
61	Controlled reduction of polypropylene isotacticity and crystallinity by epimerization during reactive processing. <i>Journal of Polymer Science Part A</i> , 2009, 47, 4505-4518.	2.3	7
62	(R)-4-phenyloxazolidin-2-thione: an efficient chiral auxiliary for [4+2] cycloaddition of 1-aminodiene and activated phosphonodienophiles. <i>Tetrahedron Letters</i> , 2009, 50, 1314-1317.	1.4	10
63	Is anthracene cofactor or spectator for the thermolysis of anthracenyl acylnitroso cycloadducts in the presence of a diene?. <i>Tetrahedron Letters</i> , 2009, 50, 2555-2558.	1.4	8
64	Surface functionalization of germanium ATR devices for use in FTIR-biosensors. <i>Journal of Colloid and Interface Science</i> , 2009, 332, 408-415.	9.4	45
65	Large ring 1,3-bridged 2-azetidiones: Experimental and theoretical studies. <i>European Journal of Medicinal Chemistry</i> , 2009, 44, 2071-2080.	5.5	20
66	Discovery of novel lipophilic inhibitors of OXA-10 enzyme (class D $\beta$ -lactamase) by screening amino analogs and homologs of citrate and isocitrate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3593-3597.	2.2	18
67	$\beta$ -Lactams Derived from a Carbapenem Chiron Are Selective Inhibitors of Human Fatty Acid Amide Hydrolase versus Human Monoacylglycerol Lipase. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 7054-7068.	6.4	36
68	Targeting nanoparticles to M cells with non-peptidic ligands for oral vaccination. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 73, 16-24.	4.3	144
69	Light Induced Functionalization of PCL-PEG Block Copolymers for the Covalent Immobilization of Biomolecules. <i>Biomacromolecules</i> , 2009, 10, 966-974.	5.4	42
70	$\beta$ -Integrin-Targeting Arg-Gly-Asp (RGD) Peptidomimetics Containing Oligoethylene Glycol (OEG) Spacers. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 7029-7043.	6.4	34
71	A practical way of grafting maleic anhydride onto polypropylene providing high anhydride contents without sacrificing excessive molar mass. <i>Journal of Polymer Science Part A</i> , 2008, 46, 2936-2947.	2.3	34
72	Regioselective Synthesis of 3-Hydroxyorthanic Acid and Its Biotransformation into a Novel Phenoxazinone Dye by Use of Laccase. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 72-79.	2.4	49

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73	A graftable LDV peptidomimetic: Design, synthesis and application to a blood filtration membrane. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 1084-1090.	2.2	17
74	3-Alkenyl-2-azetidinones as fatty acid amide hydrolase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 4163-4167.	2.2	20
75	Synthesis of two persistent fluorinated tetrathiatrimethyl (TAM) radicals for biomedical EPR applications. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 4291-4293.	2.2	21
76	[4+2] Cycloaddition of 1-phosphono-1,3-butadiene with azo- and nitroso-heterodienophiles. <i>Tetrahedron Letters</i> , 2008, 49, 1839-1842.	1.4	22
77	2-Aminopropane-1,2,3-tricarboxylic acid: Synthesis and co-crystallization with the class A $\beta$ -lactamase BS3 of <i>Bacillus licheniformis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 3764-3768.	2.2	10
78	NMR and X-ray diffraction analysis of 3-thioamido-5-phosphono-1-cyclohexene derivatives: Conformational and stereochemical assignments. <i>Journal of Molecular Structure</i> , 2008, 879, 113-118.	3.6	7
79	Surface functionalization of a poly(butylene terephthalate) (PBT) melt-blown filtration membrane by wet chemistry and photo-grafting. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 1491-1516.	3.5	16
80	PCL- $\beta$ -PEG-Based Nanoparticles Grafted with GRGDS Peptide: Preparation and Surface Analysis by XPS. <i>Biomacromolecules</i> , 2007, 8, 3977-3983.	5.4	48
81	Adsorption Properties of the Penicillin Derivative DTPA on Gold Substrates. <i>ChemPhysChem</i> , 2007, 8, 1071-1076.	2.1	10
82	Cell adhesive PET membranes by surface grafting of RGD peptidomimetics. <i>Biomaterials</i> , 2005, 26, 4576-4587.	11.4	55
83	A practical molecular clip for immobilization of receptors and biomolecules on devices' surface: Synthesis, grafting protocol and analytical assay. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 3252-3256.	2.2	22
84	Design, synthesis and evaluation of graftable thrombin inhibitors for the preparation of blood-compatible polymer materials. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 4209.	2.8	9
85	STEREOCHEMISTRY AND CONFORMATION OF AMIDO-PHOSPHONOCYCLOHEXENE DERIVATIVES, ASSIGNED BY NMR AND X-RAY DIFFRACTION ANALYSES. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2004, 179, 389-402.	1.6	6
86	Synthesis and evaluation of N1/C4-substituted $\beta$ -lactams as PPE and HLE inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 129-138.	3.0	48
87	Novel RGD-like molecules based on the tyrosine template: design, synthesis, and biological evaluation on isolated integrins $\alpha$ 5 $\beta$ 1 and $\alpha$ 5 $\beta$ 3 and in cellular adhesion tests. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 5379-5393.	3.0	28
88	Protecting group migration in the chemistry of 1-t-butyltrimethylsilyl-4-hydroxymethyl-2-azetidinone. <i>Tetrahedron Letters</i> , 2003, 44, 6339-6342.	1.4	9
89	Protective effect of imidazolopyrazinone antioxidants on ischemia/reperfusion injury. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 653-656.	2.2	13
90	Synthesis, Structure-activity Relationship and In Vitro Evaluation of Coelenterazine and Coelenteramine Derivatives as Inhibitors of Lipid Peroxidation. <i>Free Radical Research</i> , 2003, 37, 145-158.	3.3	9

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91	1-Alkoxy carbonyl-3-halogenoazetid-2-ones as elastase (PPE) inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 3955-3964.	3.0	10
92	Effect of the chemical nature and length of spacer arms on the covalent grafting of fluorinated molecular probes at the surface of poly(ethylene terephthalate) membrane. <i>Journal of Polymer Science Part A</i> , 2002, 40, 770-781.	2.3	13
93	Synthesis, hydrolysis, biochemical and theoretical evaluation of 1,4-bis(alkoxy carbonyl)azetid-2-ones as potential elastase inhibitors. <i>Tetrahedron</i> , 2002, 58, 2423-2433.	1.9	30
94	Imidazolopyrazinones as potential antioxidants. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 2305-2309.	2.2	33
95	Catechol derivatives of aminopyrazine and cell protection against uvb-induced mortality. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 1037-1044.	3.0	19
96	2,6-Diamino-3,5-diaryl-1,4-pyrazine Derivatives as Novel Antioxidants. <i>Synthesis</i> , 2001, 2001, 0768-0772.	2.3	19
97	Attachment of bis-(trifluoromethyl)aryl labels onto the chain ends of poly(ethylene terephthalate) (PET) track-etched membranes and films by surface wet chemistry. <i>Journal of Polymer Science Part A</i> , 2000, 38, 3510-3520.	2.3	21
98	Biological evaluation of RGD peptidomimetics, designed for the covalent derivatization of cell culture substrata, as potential promoters of cellular adhesion. <i>Biomaterials</i> , 1999, 20, 1773-1782.	11.4	64
99	1-Alkoxy carbonyl-3-bromoazetid-2-ones as Potential Elastase Inhibitors. <i>European Journal of Organic Chemistry</i> , 1999, 1999, 1441-1447.	2.4	10
100	Design and synthesis of a bifunctional label for selection of $\hat{I}^2$ -lactamase displayed on filamentous bacteriophage by catalytic activity. <i>Tetrahedron</i> , 1996, 52, 5591-5606.	1.9	19
101	Chemical Assays of End-groups Displayed on the Surface of Poly(ethylene terephthalate) (PET) Films and Membranes by Radiolabeling. <i>Polymers for Advanced Technologies</i> , 1996, 7, 589-598.	3.2	31
102	Covalent grafting of fibronectin and asialofetuin at surface of poly(ethylene terephthalate) track-etched membranes improves adhesion but not differentiation of rat hepatocytes. , 1996, 32, 569-582.		23
103	Surface Functionalization of Polyethylene Terephthalate Film and Membranes by Controlled Wet Chemistry. <i>Journal of Colloid and Interface Science</i> , 1996, 177, 162-170.	9.4	36
104	Surface Functionalization of Poly(ethylene terephthalate) Film and Membrane by Controlled Wet Chemistry: Chemical Characterization of Carboxylated Surfaces. <i>Journal of Colloid and Interface Science</i> , 1995, 173, 236-244.	9.4	75
105	Bifunctional activity labels for selection of filamentous bacteriophages displaying enzymes. <i>Bioorganic and Medicinal Chemistry</i> , 1995, 3, 907-915.	3.0	22
106	Reactivity assay of surface carboxyl chain-ends of poly(ethylene terephthalate) (PET) film and track-etched microporous membranes using fluorine labelled- and/or <sup>3</sup> H-labelled derivatization reagents: tandem analysis by X-ray photoelectron spectroscopy (XPS) and liquid scintillation counting (LSC). <i>Applied Surface Science</i> , 1995, 90, 1-14.	6.1	19
107	Synthesis of new sulfonylamido-penicillanic acid sulfones inhibitors of .BETA.-lactamases.. <i>Journal of Antibiotics</i> , 1994, 47, 1041-1051.	2.0	16
108	Light-Induced Functionalization of Amphiphilic Block Copolymers: Application to Nanoparticles for Drug Targeting. <i>Materials Science Forum</i> , 0, 636-637, 759-765.	0.3	4