Jacqueline Marchand-Brynaert

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8446050/publications.pdf

Version: 2024-02-01

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	Targeting nanoparticles to M cells with non-peptidic ligands for oral vaccination. European Journal of Pharmaceutics and Biopharmaceutics, 2009, 73, 16-24.	4.3	144
2	Targeted nanoparticles with novel non-peptidic ligands for oral delivery. Advanced Drug Delivery Reviews, 2013, 65, 833-844.	13.7	124
3	Surface Functionalization of Poly(ethylene terephthalate) Film and Membrane by Controlled Wet Chemistry: Chemical Characterization of Carboxylated Surfaces. Journal of Colloid and Interface Science, 1995, 173, 236-244.	9.4	75
4	Biological evaluation of RGD peptidomimetics, designed for the covalent derivatization of cell culture substrata, as potential promotors of cellular adhesion. Biomaterials, 1999, 20, 1773-1782.	11.4	64
5	Coordination Polymers and Metal Organic Frameworks Derived from 1,2,4-Triazole Amino Acid Linkers
. Polymers, 2011, 3, 1750-1775.	4.5	61
6	Cell adhesive PET membranes by surface grafting of RGD peptidomimetics. Biomaterials, 2005, 26, 4576-4587.	11.4	55
7	Water-assisted extrusion of polypropylene/clay nanocomposites: A comprehensive study. Polymer, 2011, 52, 443-451.	3.8	55
8	Regioselective Synthesis of 3â€Hydroxyorthanilic Acid and Its Biotransformation into a Novel Phenoxazinone Dye by Use of Laccase. European Journal of Organic Chemistry, 2008, 2008, 72-79.	2.4	49
9	Synthesis and evaluation of N1/C4-substituted Î²-lactams as PPE and HLE inhibitors. Bioorganic and Medicinal Chemistry, 2004, 12, 129-138.	3.0	48
10	PCLâ^'PEG-Based Nanoparticles Grafted with GRGDS Peptide: Preparation and Surface Analysis by XPS. Biomacromolecules, 2007, 8, 3977-3983.	5.4	48
11	Laccaseâ€Mediated Synthesis of Novel Substituted Phenoxazine Chromophores Featuring Tuneable Water Solubility. Chemistry - A European Journal, 2009, 15, 8283-8295.	3.3	48
12	Surface functionalization of germanium ATR devices for use in FTIR-biosensors. Journal of Colloid and Interface Science, 2009, 332, 408-415.	9.4	45
13	Light Induced Functionalization of PCL-PEG Block Copolymers for the Covalent Immobilization of Biomolecules. Biomacromolecules, 2009, 10, 966-974.	5.4	42
14	Inhibitors of the Endocannabinoid-Degrading Enzymes, or how to Increase Endocannabinoids Activity by Preventing their Hydrolysis. Recent Patents on CNS Drug Discovery, 2012, 7, 49-70.	0.9	42
15	Synthesis of Poly(lactide-co-glycolide-co-Î¡-caprolactone)-graft-mannosylated Poly(ethylene oxide) Copolymers by Combination of â€œClipâ€•and â€œClickâ€•Chemistries. Biomacromolecules, 2012, 13, 760-768.	5.4	39
16	A phosphonated triarylmethyl radical as a probe for measurement of pH by EPR. Chemical Communications, 2012, 48, 4049.	4.1	37
17	Surface Functionalization of Polyethylene Terephthalate Film and Membranes by Controlled Wet Chemistry. Journal of Colloid and Interface Science, 1996, 177, 162-170.	9.4	36
18	Î²-Lactams Derived from a Carbapenem Chiron Are Selective Inhibitors of Human Fatty Acid Amide Hydrolase versus Human Monoacylglycerol Lipase. Journal of Medicinal Chemistry, 2009, 52, 7054-7068.	6.4	36

#	Article	IF	Citations
19	Photo-induced micellization of block copolymers bearing 4,5-dimethoxy-2-nitrobenzyl side groups. Soft Matter, 2011, 7, 6891.	2.7	35
20	A practical way of grafting maleic anhydride onto polypropylene providing high anhydride contents without sacrificing excessive molar mass. Journal of Polymer Science Part A, 2008, 46, 2936-2947.	2.3	34
21	Î±vÎ²3 Integrin-Targeting Arg-Gly-Asp (RGD) Peptidomimetics Containing Oligoethylene Glycol (OEG) Spacers. Journal of Medicinal Chemistry, 2009, 52, 7029-7043.	6.4	34
22	Imidazolopyrazinones as potential antioxidants. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2305-2309.	2.2	33
23	Chemical Assays of End-groups Displayed on the Surface of Poly(ethylene terephthalate) (PET) Films and Membranes by Radiolabeling. Polymers for Advanced Technologies, 1996, 7, 589-598.	3.2	31
24	Synthesis, hydrolysis, biochemical and theoretical evaluation of 1,4-bis(alkoxycarbonyl)azetidin-2-ones as potential elastase inhibitors. Tetrahedron, 2002, 58, 2423-2433.	1.9	30
25	Zinc complexes with 1,2,4-triazole functionalized amino acid derivatives: Synthesis, structure and Î²-lactamase assay. Inorganica Chimica Acta, 2011, 368, 21-28.	2.4	29
26	Surface modifications of polypropylene membranes used for blood filtration. Polymer, 2011, 52, 1223-1233.	3.8	29
27	Novel RGD-like molecules based on the tyrosine template: design, synthesis, and biological evaluation on isolated integrins Î±VÎ²3/Î±IIbÎ²3 and in cellular adhesion tests. Bioorganic and Medicinal Chemistry, 2004, 12, 5379-5393.	3.0	28
28	Straightforward hetero Dielsâ€“Alder reactions of nitroso dienophiles by microreactor technology. Tetrahedron Letters, 2010, 51, 5830-5833.	1.4	27
29	[4 + 2] Cycloadditions of 1-Phosphono-1,3-butadienes with Nitroso Heterodienophiles: A Versatile Synthetic Route for Polyfunctionalized Aminophosphonic Derivatives. Journal of Organic Chemistry, 2010, 75, 5478-5486.	3.2	27
30	Chiral properties of tetrathiatriarylmethyl spin probes. Chemical Communications, 2011, 47, 4793.	4.1	27
31	Chemistry around imidazopyrazine and ibuprofen: Discovery of novel fatty acid amide hydrolase (FAAH) inhibitors. European Journal of Medicinal Chemistry, 2010, 45, 3564-3574.	5.5	25
32	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
33	Bifunctional activity labels for selection of filamentous bacteriophages displaying enzymes. Bioorganic and Medicinal Chemistry, 1995, 3, 907-915.	3.0	22
34	A practical molecular clip for immobilization of receptors and biomolecules on devicesâ€™ surface: Synthesis, grafting protocol and analytical assay. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3252-3256.	2.2	22
35	[4+2] Cycloaddition of 1-phosphono-1,3-butadiene with azo- and nitroso-heterodienophiles. Tetrahedron Letters, 2008, 49, 1839-1842.	1.4	22
36	Attachment of bis-(trifluoromethyl)aryl labels onto the chain ends of poly(ethylene terephthalate) (PET) track-etched membranes and films by surface wet chemistry. Journal of Polymer Science Part A, 2000, 38, 3510-3520.	2.3	21

#	Article	IF	Citations
37	Synthesis of two persistent fluorinated tetrathiatriarylmethyl (TAM) radicals for biomedical EPR applications. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 4291-4293.	2.2	21
38	Novel Large-Ring 1,3-Bridged 2-Azetidinones as Potential Inhibitors of Penicillin-Binding Proteins. European Journal of Organic Chemistry, 2009, 2009, 1757-1770.	2.4	21
39	Carboxylate clays: A model study for polypropylene/clay nanocomposites. Polymer Degradation and Stability, 2010, 95, 1194-1204.	5.8	21
40	Synthesis and biological evaluation of novel imidazole-containing macrocycles. Tetrahedron, 2010, 66, 4515-4520.	1.9	21
41	3-Alkenyl-2-azetidinones as fatty acid amide hydrolase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 4163-4167.	2.2	20
42	Large ring 1,3-bridged 2-azetidinones: Experimental and theoretical studies. European Journal of Medicinal Chemistry, 2009, 44, 2071-2080.	5.5	20
43	Novel chiral 1-phosphono-1,3-butadiene for asymmetric hetero Dielsâ€“Alder cycloadditions with nitroso and azodicarboxylate dienophiles. Tetrahedron Letters, 2010, 51, 1052-1055.	1.4	20
44	Reactivity assay of surface carboxyl chain-ends of poly(ethylene terephthalate) (PET) film and track-etched microporous membranes using fluorine labelled- and/or 3H-labelled derivatization reagents: tandem analysis by X-ray photoelectron spectroscopy (XPS) and liquid scintillation counting (LSC). Applied Surface Science, 1995, 90, 1-14.	6.1	19
45	Design and synthesis of a bifunctional label for selection of Î²-lactamase displayed on filamentous bacteriophage by catalytic activity. Tetrahedron, 1996, 52, 5591-5606.	1.9	19
46	Catechol derivatives of aminopyrazine and cell protection against uvb-induced mortality. Bioorganic and Medicinal Chemistry, 2001, 9, 1037-1044.	3.0	19
47	2,6-Diamino-3,5-diaryl-1,4-pyrazine Derivatives as Novel Antioxidants. Synthesis, 2001, 2001, 0768-0772.	2.3	19
48	Polypropylene ionic thermoplastic elastomers: Synthesis and properties. Polymer Degradation and Stability, 2010, 95, 363-368.	5.8	19
49	Discovery of novel lipophilic inhibitors of OXA-10 enzyme (class D Î²-lactamase) by screening amino analogs and homologs of citrate and isocitrate. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3593-3597.	2.2	18
50	Ultrasmall particle of iron oxideâ€”RGD peptidomimetic conjugate: synthesis and characterisation. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 1861-1865.	2.2	18
51	A graftable LDV peptidomimetic: Design, synthesis and application to a blood filtration membrane. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 1084-1090.	2.2	17
52	Polycyclic phosphonic acid derivatives obtained by a [4+2] cycloaddition strategy using phosphonodienes. Tetrahedron, 2013, 69, 1138-1147.	1.9	17
53	Synthesis of new sulfonylamido-penicillanic acid sulfones inhibitors of .BETA.-lactamases.. Journal of Antibiotics, 1994, 47, 1041-1051.	2.0	16
54	Surface functionalization of a poly(butylene terephthalate) (PBT) melt-blown filtration membrane by wet chemistry and photo-grafting. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 1491-1516.	3.5	16

#	Article	IF	Citations
55	Cyclodimerization by ring-closing metathesis: synthesis, computational, and biological evaluation of novel bis-azetidinyl-macrocycles. Tetrahedron, 2010, 66, 9519-9527.	1.9	16
56	Liveâ€Cell Imaging with Waterâ€Soluble Aminophenoxazinone Dyes Synthesised through Laccase Biocatalysis. ChemBioChem, 2010, 11, 1451-1457.	2.6	16
57	Novel phosphonated bicyclic frameworks from Dielsâ€“Alder reaction as chelating agents of di- and trivalent metal cations. Tetrahedron Letters, 2011, 52, 5140-5144.	1.4	16
58	Polyethylene terephthalate membrane grafted with peptidomimetics: endothelial cell compatibility and retention under shear stress. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 269-286.	3.5	16
59	6-Aminopenicillanic acid (6-APA) derivatives equipped with anchoring arms. Tetrahedron, 2012, 68, 10818-10826.	1.9	15
60	Tuning the functionalization chemistry of polypropylene for polypropylene/clay nanocomposites. Reactive and Functional Polymers, 2012, 72, 17-24.	4.1	15
61	Surface modification of poly(butylene terephthalate) nonwoven by photochemistry and biofunctionalization with peptides for blood filtration. Journal of Polymer Science Part A, 2011, 49, 5087-5099.	2.3	14
62	â€œClipâ€•and â€œClickâ€•Chemistries Combination: Toward Easy PEGylation of Degradable Aliphatic Polyesters. Macromolecular Rapid Communications, 2011, 32, 616-621.	3.9	14
63	Non-symmetrically substituted phenoxazinones from laccase-mediated oxidative cross-coupling of aminophenols: an experimental and theoretical insight. Organic and Biomolecular Chemistry, 2012, 10, 1834.	2.8	14
64	Clickable PEG conjugate obtained by â€œclipâ€•photochemistry: Synthesis and characterization by quantitative 19F NMR. Journal of Fluorine Chemistry, 2012, 140, 62-69.	1.7	14
65	RGD-conjugated triarylmethyl radical as probe for electron paramagnetic imaging. Tetrahedron Letters, 2013, 54, 5924-5926.	1.4	14
66	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. Journal of Polymer Science Part A, 2002, 40, 770-781.	2.3	13
67	Protective effect of imidazolopyrazinone antioxidants on ischemia/reperfusion injury. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 653-656.	2.2	13
68	Tri- and Tetravalent Photoactivable Cross-Linking Agents. Synthesis, 2012, 44, 2249-2254.	2.3	13
69	Unprecedented inhibition of resistant penicillin bindingproteins by bis-2-oxoazetidinylmacrocycles. MedChemComm, 2012, 3, 344-351.	3.4	13
70	Synthesis and Application of New Photocrosslinkers for Poly(ethylene glycol). Australian Journal of Chemistry, 2012, 65, 193.	0.9	12
71	Macrocycle-embedded Î²-lactams as novel inhibitors of the Penicillin Binding Protein PBP2a from MRSA. European Journal of Medicinal Chemistry, 2013, 64, 365-376.	5.5	12
72	Surface grafting on poly(ethylene terephthalate) trackâ€etched microporous membrane by activation with trifluorotriazine: Application to the biofunctionalization with GRGDS peptide. Journal of Polymer Science Part A, 2010, 48, 195-208.	2.3	11

#	Article	IF	Citations
73	1-Alkoxycarbonyl-3-bromoazetidin-2-ones as Potential Elastase Inhibitors. European Journal of Organic Chemistry, 1999, 1999, 1441-1447.	2.4	10
74	1-Alkoxycarbonyl-3-halogenoazetidin-2-ones as elastase (PPE) inhibitors. Bioorganic and Medicinal Chemistry, 2002, 10, 3955-3964.	3.0	10
75	Adsorption Properties of the Penicillin Derivative DTPA on Gold Substrates. ChemPhysChem, 2007, 8, 1071-1076.	2.1	10
76	2-Aminopropane-1,2,3-tricarboxylic acid: Synthesis and co-crystallization with the class A Î²-lactamase BS3 of Bacillus licheniformis. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3764-3768.	2.2	10
77	(R)-4-phenyloxazolidin-2-thione: an efficient chiral auxiliary for [4+2] cycloaddition of 1-aminodiene and activated phosphonodienophiles. Tetrahedron Letters, 2009, 50, 1314-1317.	1.4	10
78	12â€•to 22â€Membered Bridged Î²â€Lactams as Potential Penicillinâ€Binding Protein Inhibitors. Chemistry - an Asian Journal, 2012, 7, 425-434.	3.3	10
79	Tetrathiatriarylmethyl Radicals Conjugated to an RGDâ€Peptidomimetic. European Journal of Organic Chemistry, 2014, 2014, 8077-8084.	2.4	10
80	Protecting group migration in the chemistry of 1-t-butyldimethylsilyl-4-hydroxymethyl-2-azetidinone. Tetrahedron Letters, 2003, 44, 6339-6342.	1.4	9
81	Synthesis, Structure-activity Relationship and In Vitro Evaluation of Coelenterazine and Coelenteramine Derivatives as Inhibitors of Lipid Peroxidation. Free Radical Research, 2003, 37, 145-158.	3.3	9
82	Design, synthesis and evaluation of graftable thrombin inhibitors for the preparation of blood-compatible polymer materials. Organic and Biomolecular Chemistry, 2005, 3, 4209.	2.8	9
83	Aminophosphonic Acids and Aminobis(phosphonic acids) as Potential Inhibitors of Penicillinâ€Binding Proteins. European Journal of Organic Chemistry, 2009, 2009, 85-97.	2.4	9
84	Modular Synthesis of Bifunctional Linkers for Materials Science. European Journal of Organic Chemistry, 2011, 2011, 1641-1644.	2.4	9
85	Surface modification of polypropylene nonwovens with LDV peptidomimetics and their application in the leukodepletion of blood products. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 1513-1523.	3.4	9
86	In vitro and in vivo studies of 6,8-(diaryl)imidazo[1,2-a]pyrazin-3(7H)-ones as new antioxidants. Bioorganic and Medicinal Chemistry, 2009, 17, 4336-4344.	3.0	8
87	Is anthracene cofactor or spectator for the thermolysis of anthracenyl acylnitroso cycloadducts in the presence of a diene?. Tetrahedron Letters, 2009, 50, 2555-2558.	1.4	8
88	HDA cycloadditions of 1-diethoxyphosphonyl-1,3-butadiene with nitroso heterodienophiles: A computational investigation. Computational and Theoretical Chemistry, 2010, 959, 49-54.	1.5	8
89	SAR and LC/MS Studies of Î²-Lactamic Inhibitors of Human Fatty Acid Amide Hydrolase (hFAAH): Evidence of a Nonhydrolytic Process. Journal of Medicinal Chemistry, 2011, 54, 6812-6823.	6.4	8
90	Surface modification of amorphous substrates by disulfide derivatives: A photo-assisted route to direct functionalization of chalcogenide glasses. Surface Science, 2011, 605, 2006-2016.	1.9	8

#	Article	IF	Citations
91	Calcium and zinc complexes of pyrroglutamate analogs detected by electrospray ionization mass spectrometry. Amino Acids, 2011, 40, 679-687.	2.7	8
92	Photoactivable Nonsymmetrical Bifunctional Linkers for Protein Immobilization on Attenuated Total Reflectance FTIR Optical Devices. European Journal of Organic Chemistry, 2013, 2013, 7952-7959.	2.4	8
93	NMR and X-ray diffraction analysis of 3-thioamido-5-phosphono-1-cyclohexene derivatives: Conformational and stereochemical assignments. Journal of Molecular Structure, 2008, 879, 113-118.	3.6	7
94	Controlled reduction of polypropylene isotacticity and crystallinity by epimerization during reactive processing. Journal of Polymer Science Part A, 2009, 47, 4505-4518.	2.3	7
95	Static SIMS study on surfaces of chalcogenide glasses modified by an organic layer. Surface Science, 2012, 606, 1071-1077.	1.9	7
96	Functionalized Phosphonated Halfâ€Cage Molecules as Ligands for Metal Complexes. European Journal of Organic Chemistry, 2012, 2012, 6165-6178.	2.4	7
97	LDV peptidomimetics equipped with biotinylated spacer-arms: Synthesis and biological evaluation on CCRF-CEM cell line. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 586-590.	2.2	7
98	Polypropylene/clay nanocomposites: An innovative one-pot process. Polymer Composites, 2015, 36, 644-650.	4.6	7
99	STEREOCHEMISTRY AND CONFORMATION OF AMIDO-PHOSPHONOCYCLOHEXENE DERIVATIVES, ASSIGNED BY NMR AND X-RAY DIFFRACTION ANALYSES. Phosphorus, Sulfur and Silicon and the Related Elements, 2004, 179, 389-402.	1.6	6
100	Configurationally Stable Tris(tetrathioaryl)methyl Molecular Propellers. European Journal of Organic Chemistry, 2012, 2012, 6517-6525.	2.4	6
101	An unprecedented reversible mode of action of Î²-lactams for the inhibition of human fatty acid amide hydrolase (hFAAH). European Journal of Medicinal Chemistry, 2013, 60, 101-111.	5.5	6
102	Light-Induced Functionalization of Amphiphilic Block Copolymers: Application to Nanoparticles for Drug Targeting. Materials Science Forum, 0, 636-637, 759-765.	0.3	4
103	Diaryl ureaLDV peptidomimetics as Î±4Î²1integrin antagonists: synthesis, adhesion inhibition and toxicity evaluation on CCRF-CEM cell line. MedChemComm, 2012, 3, 199-212.	3.4	4
104	Surface photografting of arylazide derivatives on chalcogenide glasses. Journal of Non-Crystalline Solids, 2014, 387, 148-154.	3.1	4
105	A Pyrene- and Phosphonate-Containing Fluorescent Probe as Guest Molecule in a Host Polymer Matrix. Molecules, 2013, 18, 1897-1915.	3.8	3
106	2â€Nitrobenzyl Esters of Penam and Cephem Derivatives as Inhibitors of Penicillinâ€Binding Proteins. Asian Journal of Organic Chemistry, 2013, 2, 654-661.	2.7	2
107	(S)-1-(Pent-4â€²-enoyl)-4-(hydroxymethyl)-azetidin-2-one derivatives as inhibitors of human fatty acid amide hydrolase (hFAAH): synthesis, biological evaluation and molecular modelling. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 654-662.	5.2	1
108	From Medicinal Chemistry to Functionalized Biomaterials: Development of Graftable RGD-Peptitomimetics for Cell Adhesion and Cell Addressing. Materials Science Forum, 2010, 638-642, 612-617.	0.3	0