Catherine Michaux

List of Publications by Year
in descending order

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81	2,440	236912	214788
papers	citations	25 h-index	47 g-index

83	83	83	3113
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dual inhibition of cyclooxygenase-2 (COX-2) and 5-lipoxygenase (5-LOX) as a new strategy to provide safer non-steroidal anti-inflammatory drugs. European Journal of Medicinal Chemistry, 2003, 38, 645-659.	5.5	374
2	Enhanced Efficiency of Organic Dye-Sensitized Solar Cells: Triphenylamine Derivatives. Journal of Physical Chemistry C, 2009, 113, 16821-16833.	3.1	328
3	Improvement of the efficiency of thiophene-bridged compounds for dye-sensitized solar cells. Chemical Physics, 2010, 376, 56-68.	1.9	120
4	Cobaltâ€Mediated Radical Polymerization of Acrylonitrile: Kinetics Investigations and DFT Calculations. Chemistry - A European Journal, 2008, 14, 7623-7637.	3.3	95
5	Fatty Acid Amide Hydrolase: From Characterization to Therapeutics. Chemistry and Biodiversity, 2007, 4, 1882-1902.	2.1	78
6	Synthesis and Activity of a New Methoxytetrahydropyran Derivative as Dual Cyclooxygenase-2/5-Lipoxygenase Inhibitor. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 779-782.	2.2	69
7	Refolding SDS-Denatured Proteins by the Addition of Amphipathic Cosolvents. Journal of Molecular Biology, 2008, 375, 1477-1488.	4.2	63
8	Gauging a Hydrocarbon Ruler by an Intrinsic Exciton Probe. Biochemistry, 2007, 46, 4565-4579.	2.5	53
9	Combined effect of stacking and solvation on the spontaneous mutation in DNA. Physical Chemistry Chemical Physics, 2011, 13, 14584.	2.8	52
10	Structure and X-ray conformation of pseudodesmins A and B, two new cyclic lipodepsipeptides from Pseudomonas bacteria. Tetrahedron, 2009, 65, 4173-4181.	1.9	50
11	Crystal structure of a coldâ€adapted classâ€ƒC Î²â€lactamase. FEBS Journal, 2008, 275, 1687-1697.	4.7	48
12	Design, Synthesis, and Pharmacological Evaluation of Pyridinic Analogues of Nimesulide as Cyclooxygenase-2 Selective Inhibitors. Journal of Medicinal Chemistry, 2004, 47, 6749-6759.	6.4	46
13	Microhydration of Protonated Glycine:â€‰ An ab initio Family Tree. Journal of Physical Chemistry B, 2008, 112, 2430-2438.	2.6	42
14	First crystal structure of an endo-inulinase, INU2, from Aspergillus ficuum: Discovery of an extra-pocket in the catalytic domain responsible for its endo-activity. Biochimie, 2012, 94, 2423-2430.	2.6	42
15	Spectral and Crystallographic Study of Pyridinic Analogues of Nimesulide: Determination of the Active Form of Methanesulfonamides as COX-2 Selective Inhibitors. Journal of Medicinal Chemistry, 2002, 45, 5182-5185.	6.4	36
16	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
17	Structure-based pharmacophore of COX-2 selective inhibitors and identification of original lead compounds from 3D database searching method. European Journal of Medicinal Chemistry, 2006, 41, 1446-1455.	5.5	35
18	Delocalisation in conjugated triazene chromophores: Insights from theory. Chemical Physics Letters, 2008, 451, 37-42.	2.6	34

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19	Double proton transfer mechanism in the adenineâ€“uracil base pair and spontaneous mutation in RNA duplex. Chemical Physics Letters, 2009, 484, 64-68.	2.6	34
20	Impact of tautomers on the absorption spectra of neutral and anionic alizarin and quinizarin dyes. Computational and Theoretical Chemistry, 2009, 901, 24-30.	1.5	33
21	Structural insights into the acidophilic pH adaptation of a novel endo-1,4-Î²-xylanase from Scytalidium acidophilum. Biochimie, 2010, 92, 1407-1415.	2.6	33
22	Photochromic molecular wires: Insights from theory. Chemical Physics Letters, 2010, 488, 193-197.	2.6	31
23	Theoretical computation of Betain B30 solvatochromism using aÂPolarizable Continuum Model. Dyes and Pigments, 2014, 100, 24-31.	3.7	31
24	Crystal Structure of BRL 42715, C6-(N1-Methyl-1,2,3-triazolylmethylene)penem, in Complex withEnterobactercloacae908R Î²-Lactamase:Â Evidence for a Stereoselective Mechanism from Docking Studies. Journal of the American Chemical Society, 2005, 127, 3262-3263.	13.7	30
25	A theoretical investigation of the hydrated glycine cation energetics and structures. Chemical Physics Letters, 2007, 445, 57-61.	2.6	29
26	Exploration of the Binding Mode of Indanesulfonamides as Selective Inhibitors of Human Carbonic Anhydrase Typeâ€…VII by Targeting Lysâ€‰91. ChemMedChem, 2007, 2, 1273-1280.	3.2	25
27	Synthesis, biological evaluation and molecular modeling studies of quinolonyl diketo acid derivatives: New structural insight into the HIV-1 integrase inhibition. European Journal of Medicinal Chemistry, 2011, 46, 1749-1756.	5.5	25
28	Protecting role of cosolvents in protein denaturation by SDS: a structural study. BMC Structural Biology, 2008, 8, 29.	2.3	24
29	A new potential cyclooxygenase-2 inhibitor, pyridinic analogue of nimesulide. European Journal of Medicinal Chemistry, 2005, 40, 1316-1324.	5.5	23
30	Theoretical Investigation of the Geometries and UVâ^'vis Spectra of Poly(<scp>l</scp>-glutamic acid) Featuring a Photochromic Azobenzene Side Chain. Journal of Chemical Theory and Computation, 2008, 4, 637-645.	5.3	23
31	Isosterism among analogues of torasemide: conformational, electronic and lipophilicity properties. European Journal of Medicinal Chemistry, 2000, 35, 923-929.	5.5	22
32	All-organic chromophores for dye-sensitized solar cells: A theoretical study on aggregation. Dyes and Pigments, 2014, 101, 203-211.	3.7	22
33	Modeling the Microhydration of Protonated Alanine. Journal of Physical Chemistry B, 2008, 112, 9896-9902.	2.6	21
34	Design, synthesis and biological evaluation of a sulfonylcyanoguanidine as thromboxane A2 receptor antagonist and thromboxane synthase inhibitor. Journal of Pharmacy and Pharmacology, 2010, 53, 669-680.	2.4	21
35	Ab initio investigation of the hydration of deprotonated amino acids. Journal of the American Society for Mass Spectrometry, 2009, 20, 632-638.	2.8	20
36	Polypyrrole-Supported Membrane Proteins for Bio-Inspired Ion Channels. ACS Applied Materials & Interfaces, 2015, 7, 1632-1643.	8.0	20

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37	Towards a universal method for protein refolding: The trimeric beta barrel membrane Omp2a as a test case. Biotechnology and Bioengineering, 2013, 110, 417-423.	3.3	18
38	New R/S-3,4-dihydro-2,2-dimethyl-6-halo-4-(phenylaminothiocarbonylamino)-2H-1-benzopyrans structurally related to (Â±)-cromakalim as tissue-selective pancreatic Î²-cell KATP channel openers. Bioorganic and Medicinal Chemistry, 2008, 16, 5704-5719.	3.0	16
39	Impact of the Nature of the Substituent at the 3-Position of 4H-1,2,4-Benzothiadiazine 1,1-Dioxides on Their Opening Activity toward ATP-Sensitive Potassium Channels. Journal of Medicinal Chemistry, 2011, 54, 3188-3199.	6.4	16
40	Comparison of Microhydration Methods: Protonated Glycine as a Working Example. Journal of Physical Chemistry B, 2011, 115, 3604-3613.	2.6	16
41	Fluorene-imidazole dyes excited states from first-principles calculationsâ€"Topological insights. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	16
42	Confinement of a Î²-barrel protein in nanoperforated free-standing nanomembranes for ion transport. Nanoscale, 2016, 8, 16922-16935.	5.6	16
43	Synthesis, molecular modelling and enzymatic evaluation of (Â±)3,5-diphenyl-2-thioxoimidazolidin-4-ones as new potential cyclooxygenase inhibitors. Bioorganic and Medicinal Chemistry, 2006, 14, 918-927.	3.0	14
44	Stepwise Hydration of Protonated Proline. Journal of Physical Chemistry B, 2008, 112, 7702-7705.	2.6	14
45	Advantages of cocrystallization in the field of solid-state pharmaceutical chemistry: l-Proline and MnCl2. European Journal of Medicinal Chemistry, 2010, 45, 3511-3517.	5.5	14
46	Asparagine 42 of the conserved endoâ€inulinase INU2 motif WMNDPN from Aspergillus ficuum plays a role in activity specificity. FEBS Open Bio, 2013, 3, 467-472.	2.3	14
47	Multiscale molecular dynamics simulations of sodium dodecyl sulfate micelles: from coarse-grained to all-atom resolution. Journal of Molecular Modeling, 2014, 20, 2469.	1.8	14
48	Binding mode of new (thio)hydantoin inhibitors of fatty acid amide hydrolase: Comparison with two original compounds, OL-92 and JP104. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 4772-4776.	2.2	13
49	Thermomechanical Response of a Representative Porin for Biomimetics. ACS Omega, 2018, 3, 7856-7867.	3.5	12
50	DHX15-independent roles for TFIP11 in U6 snRNA modification, U4/U6.U5 tri-snRNP assembly and pre-mRNA splicing fidelity. Nature Communications, 2021, 12, 6648.	12.8	12
51	Structure determination and comparison of BM567, a sulfonylurea, with terbogrel, two compounds with dual action, thromboxane receptor antagonism and thromboxane synthase inhibition. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1019-1022.	2.2	11
52	Specific Interactions in Complexes Formed by DNA and Conducting Polymer Building Blocks: Guanine and 3,4-(Ethylenedioxy)thiophene. Journal of Physical Chemistry A, 2011, 115, 13642-13648.	2.5	11
53	Molecular characterization of l-phenylalanine terminated poly(l-lactide) conjugates. RSC Advances, 2014, 4, 23231.	3.6	11
54	Peptide-surfactant interactions: A combined spectroscopic and molecular dynamics simulation approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 190, 464-470.	3.9	11

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55	Pyrrolidineâ€based dyeâ€sensitized solar cells: A timeâ€dependent density functional theory investigation of the excited state electronic properties. International Journal of Quantum Chemistry, 2012, 112, 2072-2084.	2.0	10
56	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
57	Properties of Omp2a-Based Supported Lipid Bilayers: Comparison with Polymeric Bioinspired Membranes. ACS Omega, 2018, 3, 9003-9019.	3.5	9
58	Unravelling the mechanisms of a protein refolding process based on the association of detergents and co-solvents. Journal of Peptide Science, 2016, 22, 485-491.	1.4	8
59	A pharmacophore model for sulphonyl-urea (-cyanoguanidine) compounds with dual action, thromboxane receptor antagonists and thromboxane synthase inhibitors. European Journal of Medicinal Chemistry, 2003, 38, 703-710.	5.5	6
60	Structural study of piracetam polymorphs and cocrystals: crystallography redetermination and quantum mechanics calculations. Acta Crystallographica Section B: Structural Science, 2011, 67, 499-507.	1.8	6
61	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
62	The role of 2-methyl-2, 4-pentanediol in sodium dodecyl sulfate micelle dissociation unveiled by dynamic light scattering and molecular dynamics simulations. Colloids and Surfaces B: Biointerfaces, 2014, 114, 357-362.	5.0	6
63	3D structure of a Brucella melitensis porin: molecular modelling in lipid membranes. Journal of Biomolecular Structure and Dynamics, 2019, 37, 3923-3935.	3.5	6
64	Structural and functional characterization of <scp>Solanum tuberosum</scp> VDAC36. Proteins: Structure, Function and Bioinformatics, 2020, 88, 729-739.	2.6	6
65	Purification and Characterization of Trehalase From Acyrthosiphon pisum, a Target for Pest Control. Protein Journal, 2022, 41, 189-200.	1.6	6
66	Terbogrel, a dual-acting agent for thromboxane receptor antagonism and thromboxane synthase inhibition. Acta Crystallographica Section C: Crystal Structure Communications, 2000, 56, 1265-1266.	0.4	5
67	Free-standing flexible and biomimetic hybrid membranes for ions and ATP transport. Journal of Membrane Science, 2020, 601, 117931.	8.2	5
68	Stochastic simulation of structural properties of natively unfolded and denatured proteins. Journal of Molecular Modeling, 2012, 18, 4503-4516.	1.8	4
69	Electroassisted Auto-Assembly of Alkylphosphonic Acids Monolayers on Nitinol. Journal of the Electrochemical Society, 2016, 163, G173-G177.	2.9	4
70	Molecular cloning and 3D model of a fatty-acid elongase in a carnivorous freshwater teleost, the European perch (Perca fluviatilis). 3 Biotech, 2019, 9, 242.	2.2	4
71	Nanofeatures affect the thermal transitions of polymer thin films: a microcantilever-based investigation. Materials Advances, 2020, 1, 2084-2094.	5.4	4
72	Self-standing, conducting and capacitive biomimetic hybrid nanomembranes for selective molecular ion separation. Physical Chemistry Chemical Physics, 2021, 23, 16157-16164.	2.8	4

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73	Revealing Intrinsic Disorder and Aggregation Properties of the DPF3a Zinc Finger Protein. ACS Omega, 2021, 6, 18793-18801.	3.5	4
74	Refolding of SDSâ€Denatured Proteins Using Amphipathic Cosolvents and Osmolytes. Current Protocols in Protein Science, 2013, 72, Unit28.5.	2.8	3
75	Influence of the surrounding environment in re-naturalized Î²-barrel membrane proteins. Biophysical Chemistry, 2018, 234, 6-15.	2.8	3
76	N-(3-Phenoxy-4-pyridinio)methanesulfonamidate. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, o88-o89.	0.4	2
77	N-tert-Butyl-Nâ€²-(2-cyclohexylamino-5-nitrobenzenesulfonyl)urea, BM531, a dual-acting agent for thromboxane receptor antagonism and thromboxane synthase inhibition. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, o621-o623.	0.4	2
78	(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
79	N-tert-Butyl-Nâ€²-(2-cyclohexylamino-5-nitrobenzenesulfonyl)urea, BM531, a Dual-Acting Agent for Thromboxane Receptor Antagonism and Thromboxane Synthase Inhibition.. ChemInform, 2003, 34, no.	0.0	0
80	{4(S)-(Piperidin-1-ylcarbonyl)-4-[3-(trifluoromethyl)phenylsulfonamido]butyl}guanidinium chloride: a model of a graftable thrombin inhibitor. Acta Crystallographica Section C: Crystal Structure Communications, 2006, 62, o691-o693.	0.4	0
81	A theoretical investigation of microhydration of amino acids. Journal of Cheminformatics, 2010, 2, .	6.1	0