# Catherine Michaux

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1536930/publications.pdf

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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 | Purification and Characterization of Trehalase From Acyrthosiphon pisum, a Target for Pest Control. Protein Journal, 2022, 41, 189-200. | 1.6 | 6 |
| 2 | Self-standing, conducting and capacitive biomimetic hybrid nanomembranes for selective molecular ion separation. Physical Chemistry Chemical Physics, 2021, 23, 16157-16164. | 2.8 | 4 |
| 3 | Revealing Intrinsic Disorder and Aggregation Properties of the DPF3a Zinc Finger Protein. ACS Omega, 2021, 6, 18793-18801. | 3.5 | 4 |
| 4 | 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 |
| 5 | Structural and functional characterization of <scp>Solanum tuberosum</scp> VDAC36. Proteins: Structure, Function and Bioinformatics, 2020, 88, 729-739. | 2.6 | 6 |
| 6 | Nanofeatures affect the thermal transitions of polymer thin films: a microcantilever-based investigation. Materials Advances, 2020, 1, 2084-2094. | 5.4 | 4 |
| 7 | Free-standing flexible and biomimetic hybrid membranes for ions and ATP transport. Journal of Membrane Science, 2020, 601, 117931. | 8.2 | 5 |
| 8 | 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 |
| 9 | 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 |
| 10 | Influence of the surrounding environment in re-naturalized Î²-barrel membrane proteins. Biophysical Chemistry, 2018, 234, 6-15. | 2.8 | 3 |
| 11 | 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 |
| 12 | Properties of Omp2a-Based Supported Lipid Bilayers: Comparison with Polymeric Bioinspired Membranes. ACS Omega, 2018, 3, 9003-9019. | 3.5 | 9 |
| 13 | Thermomechanical Response of a Representative Porin for Biomimetics. ACS Omega, 2018, 3, 7856-7867. | 3.5 | 12 |
| 14 | 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 |
| 15 | Fluorene-imidazole dyes excited states from first-principles calculationsâ€"Topological insights. Theoretical Chemistry Accounts, 2016, 135, 1. | 1.4 | 16 |
| 16 | Electroassisted Auto-Assembly of Alkylphosphonic Acids Monolayers on Nitinol. Journal of the Electrochemical Society, 2016, 163, G173-G177. | 2.9 | 4 |
| 17 | Confinement of a Î²-barrel protein in nanoperforated free-standing nanomembranes for ion transport. Nanoscale, 2016, 8, 16922-16935. | 5.6 | 16 |
| 18 | Polypyrrole-Supported Membrane Proteins for Bio-Inspired Ion Channels. ACS Applied Materials & Interfaces, 2015, 7, 1632-1643. | 8.0 | 20 |

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|---|---|---|---|
| 19 | 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 |
| 20 | (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 |
| 21 | 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 |
| 22 | Theoretical computation of Betain B30 solvatochromism using aÂPolarizable Continuum Model. Dyes and Pigments, 2014, 100, 24-31. | 3.7 | 31 |
| 23 | All-organic chromophores for dye-sensitized solar cells: A theoretical study on aggregation. Dyes and Pigments, 2014, 101, 203-211. | 3.7 | 22 |
| 24 | Molecular characterization of l-phenylalanine terminated poly(l-lactide) conjugates. RSC Advances, 2014, 4, 23231. | 3.6 | 11 |
| 25 | 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 |
| 26 | Refolding of SDSâ€Denatured Proteins Using Amphipathic Cosolvents and Osmolytes. Current Protocols in Protein Science, 2013, 72, Unit28.5. | 2.8 | 3 |
| 27 | 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 |
| 28 | 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 |
| 29 | Stochastic simulation of structural properties of natively unfolded and denatured proteins. Journal of Molecular Modeling, 2012, 18, 4503-4516. | 1.8 | 4 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | Comparison of Microhydration Methods: Protonated Glycine as a Working Example. Journal of Physical Chemistry B, 2011, 115, 3604-3613. | 2.6 | 16 |
| 35 | Combined effect of stacking and solvation on the spontaneous mutation in DNA. Physical Chemistry Chemical Physics, 2011, 13, 14584. | 2.8 | 52 |
| 36 | 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 |

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| 37 | 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 |
| 38 | 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 |
| 39 | Improvement of the efficiency of thiophene-bridged compounds for dye-sensitized solar cells. Chemical Physics, 2010, 376, 56-68. | 1.9 | 120 |
| 40 | Photochromic molecular wires: Insights from theory. Chemical Physics Letters, 2010, 488, 193-197. | 2.6 | 31 |
| 41 | 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 |
| 42 | A theoretical investigation of microhydration of amino acids. Journal of Cheminformatics, 2010, 2, . | 6.1 | 0 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | Enhanced Efficiency of Organic Dye-Sensitized Solar Cells: Triphenylamine Derivatives. Journal of Physical Chemistry C, 2009, 113, 16821-16833. | 3.1 | 328 |
| 49 | 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 |
| 50 | Protecting role of cosolvents in protein denaturation by SDS: a structural study. BMC Structural Biology, 2008, 8, 29. | 2.3 | 24 |
| 51 | Cobaltâ€Mediated Radical Polymerization of Acrylonitrile: Kinetics Investigations and DFT Calculations. Chemistry - A European Journal, 2008, 14, 7623-7637. | 3.3 | 95 |
| 52 | Delocalisation in conjugated triazene chromophores: Insights from theory. Chemical Physics Letters, 2008, 451, 37-42. | 2.6 | 34 |
| 53 | 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 |
| 54 | Crystal structure of a coldâ€adapted classâ€ƒC Î²â€lactamase. FEBS Journal, 2008, 275, 1687-1697. | 4.7 | 48 |

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| 55 | Refolding SDS-Denatured Proteins by the Addition of Amphipathic Cosolvents. Journal of Molecular Biology, 2008, 375, 1477-1488. | 4.2 | 63 |
| 56 | Modeling the Microhydration of Protonated Alanine. Journal of Physical Chemistry B, 2008, 112, 9896-9902. | 2.6 | 21 |
| 57 | Microhydration of Protonated Glycine:â€‰ An ab initio Family Tree. Journal of Physical Chemistry B, 2008, 112, 2430-2438. | 2.6 | 42 |
| 58 | 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 |
| 59 | Stepwise Hydration of Protonated Proline. Journal of Physical Chemistry B, 2008, 112, 7702-7705. | 2.6 | 14 |
| 60 | Gauging a Hydrocarbon Ruler by an Intrinsic Exciton Probe. Biochemistry, 2007, 46, 4565-4579. | 2.5 | 53 |
| 61 | Fatty Acid Amide Hydrolase: From Characterization to Therapeutics. Chemistry and Biodiversity, 2007, 4, 1882-1902. | 2.1 | 78 |
| 62 | 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 |
| 63 | A theoretical investigation of the hydrated glycine cation energetics and structures. Chemical Physics Letters, 2007, 445, 57-61. | 2.6 | 29 |
| 64 | {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 |
| 65 | 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 |
| 66 | 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 |
| 67 | 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 |
| 68 | A new potential cyclooxygenase-2 inhibitor, pyridinic analogue of nimesulide. European Journal of Medicinal Chemistry, 2005, 40, 1316-1324. | 5.5 | 23 |
| 69 | 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 |
| 70 | 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 |
| 71 | 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 |
| 72 | 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 |

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| 73 | 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 |
| 74 | 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 |
| 75 | 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 |
| 76 | 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 |
| 77 | N-(3-Phenoxy-4-pyridinio)methanesulfonamidate. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, o88-o89. | 0.4 | 2 |
| 78 | 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 |
| 79 | 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 |
| 80 | 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 |
| 81 | Isosterism among analogues of torasemide: conformational, electronic and lipophilicity properties. European Journal of Medicinal Chemistry, 2000, 35, 923-929. | 5.5 | 22 |