

362. M.C. Mayorquin-Torres, A. Simoens, E. Bonneure, C.V. Stevens, *Chem. Rev.*, doi 10.1021/acs.chemrev.4c00090 (2024).
Synthetic Methods for Azaheterocyclic Phosphonates and Their Biological Activity: An Update 2004-2024
361. B. Vandekerckhove, L. Van Coillie, B. Metten, T.S.A. Heugebaert, C.V. Stevens, *Reaction Chemistry & Engineering*, (2024), accepted.
Development of a Solid-Compatible Continuous Flow Reactor for the Paraformaldehyde Slurry Mediated α -hydroxymethylation of Methyl Vinyl Ketone
360. S. Backx, W. Desmedt, A. Dejaegere, A. Simoens, J. Van de Poel, D. Krasowska, K. Audenaert, C.V. Stevens, S. Mangelinckx, *International Journal of Molecular Sciences*, 25, 4739 (2024). doi.org/10.3390/ijms25094739.
Synthesis of mixed phosphonate esters and amino acid-based phosphoramidates, and their screening as herbicides
359. M. Debruyne, P. Van Der Voort, V. Van Speybroeck, C.V. Stevens, *Chem.: A Eur. J.* (2024), doi.org/10.1002/chem.202400311.
The Application of Porous Organic Polymers as Metal Free Photocatalysts in Organic Synthesis
358. M. Vandavelde, A. Simoens, B. Vandekerckhove, C.V. Stevens, *RSC Medicinal Chemistry*, 2024, 15, 998 – 1002
[Synthesis and bioactivity of psilocybin analogues containing a stable carbon–phosphorus bond](#)
357. J. Mortier, C.V. Stevens, J.J. Bozell, T.S.A. Heugebaert, *Reaction Chemistry & Engineering* (2024), doi: 10.1039/d3re00638g.
Oxidative Cleavage of Lignin Model Substrates with Co(salen) catalyst: an Experimental Study on the Effect of Different Reaction Parameters in Batch and Continuous Flow
356. A. Simoens, A.M. Kaczmarek, I.P. Machado, K. Van Hecke, C.V. Stevens, *Chem.- A Eur. J.*, 2024, doi.org/10.1002/chem.202303072
Versatile Palladium-catalyzed intramolecular cyclization to access new luminescent azaphosphaphenalene motifs
355. T. Lootens, B.I. Roman, C.V. Stevens, O. De Wever, R. Raedt, *International Journal of Molecular Sciences*, 25 (2024), doi.org/10.3390/ijms25042285.
Glioblastoma-associated mesenchymal stem/stromal cells and cancer-associated fibroblasts: partners in crime?
354. M. Pala, M.G. Castelein, C. Dewaele, S.L.K.W. Roelants, W.K. Soetaert, C.V. Stevens, *Frontiers in Bioengineering and Biotechnology*, doi: 10.3389/fbioe.2024.1347185.
Tuning the antimicrobial activity of microbial glycolipid biosurfactants through chemical modification
353. M. Debruyne, N. Raeymackers, H. Vrielinck, S. Radhakrishnan, E. Breynaert, M. Delaey, A. Laemont, K. Leus, J. Everaert, H. Rijckaert, D. Poelman, R. Morent, N. De Geyter, P. Van Der Voort, V. Van Speybroeck, C.V. Stevens, T.S.A. Heugebaert, *ChemCatChem*, 16, doi 10.1022/cctc.202301205 (2023).
Development of porous organic polymers as metal free photocatalysts for the aromatization of N-heterocycles
352. M.R. Dobbelaere, I. Lengyel, C.V. Stevens, K.M. Van Geem, *Journal of Cheminformatics* (2024). <https://doi.org/10.1186/s13321-024-00834-z>
Rxn-INSIGHT; fast chemical reaction analysis using bond-electron matrices
351. A. Simoens, G. Cari, S. Ostrowska, C.V. Stevens, S.P. Nolan, *Asian Journal of Organic Chemistry* (2024), doi.org/10.1002/ajoc.202400013.

- Continuous flow synthesis of group 11 Metal NHC complexes [M(IPr)(OC(H)(CF₃)₂)] (with M= Cu, Ag and Au) complexes
350. T.W. Alleman, C. Stevens, J.M. Baetens, *Journal of Computational Science*, **73** (2023), doi.org/10.1016/j.jocs.2023.102148.
pySODM: Simulating and optimizing dynamical models in Python 3
349. N. Baccile, A. Poirier, P. Le Griel, P. Pernot, M. Pala, S. Roelants, W. Soetaert, C.V. Stevens, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **679**, 132518 (2023).
Aqueous self-assembly of a wide range of sophorolipid and glucolipid microbial bioamphiphiles (biosurfactants): considerations about the structure-properties relationship
348. J. Mortier, C.V. Stevens, J.J. Bozell, T.S.A. Heugebaert, *Reaction Chemistry & Engineering*, doi 10.139/d3re0638g (2024).
Oxidative Cleavage of Lignin Model Substrates with Co(salen) catalyst: an Experimental Study on the Effect of Different Reaction Parameters in Batch and Continuous Flow
347. M. Debruyne, S. Borgmans, S. Radhakrishnan, E. Breynaert, H. Vrielinck, K. Leus, A. Laemont, J. De Vos, K.S. Rawat, S. Vanlommel, H. Rijckaert, H. Salemi, J. Everaert, F. Vanden Bussche, D. Poelman, R. Morent, N. De Geyter, P. Van Der Voort, V. Van Speybroeck, C.V. Stevens, *ACS Applied Materials & Interfaces*, doi 10.1021/acsami.3c07036.
Engineering of Phenylpyridine- and Bipyridine-Based Covalent Organic Frameworks for the Photocatalytic Tandem Aerobic Oxidation/Povarov Cyclization
346. C. Van Poucke, A. Vandeputte, S. Mangelinckx, C.V. Stevens, *Green Chemistry*, **25**, 4271 – 4281 (2023). Doi: 10.1039/d3gc00549f – selected as Hot Article.
Green mechanochemical synthesis of water-soluble N-sulfonated chitosan
345. M. Pala, S.L.K.W. Roelants, W. Soetaert, C.V. Stevens, *Current Opinion in Green & Sustainable Chemistry*, doi.org/10.1016/j.cogsc.2023.100839 (2023).
Unlocking the potential of a glycolipid platform through chemical modification
344. J. Everaert, K. Leus, H. Rijckaert, M. Debruyne, K. Van Hecke, R. Morent, N. De Geyter, V. Van Speybroeck, P. Van Der Voort, C.V. Stevens, *Green Chemistry*, DOI: 10.1039/D3GC00167A (2023).
Recyclable rhodium catalyst anchored onto bipyridine covalent triazine framework for transfer hydrogenation of N-heteroarenes in water
343. Y. Zeng, I. Verstraeten, H. Trinh, R. Lardon, S. Schotte, D. Olatunji, T. Heugebaert, C. Stevens, M. Quareshy, R. Napier, S. Nastasi, A. Costa, B. De Rybel, C. Bellini, T. Beeckman, S. Vanneste, D. Geelen, *New Phytologist*, **240**: 1883 – 1899, <http://doi.org/10.1111/nph.19292> (2023).
Chemical induction of hypocotyl rooting reveals extensive conservation of auxin signalling controlling lateral and adventitious root formation
342. S. Seena, R. Ferrão, M. Pala, S.L.K.W. Roelants, W. Soetaert, C.V. Stevens, L. Ferreira, A. Rai, *Biomaterial Advances* (2023). doi.org/10.1016/j.bioadv.2023.213299
Acidic sophorolipid and antimicrobial peptide based formulation as antimicrobial and antibiofilm agents
341. B. Biesemans, N. Aljammal, S. Radhakrishnan, E. Breynaert, C.V. Stevens, J. Lauwaert, J.W. Thybaut, *Catalysts*, **12**, 1389 (2022). Doi: 10/3390/catal12111389.
A Pyrrolidine Functionalized Poly[(Ethylene Glycol) Methacrylate] Resin as a Heterogeneous Catalyst for Aqueous Aldol Reactions

340. S. Deketelaere, G. Kaur, N. Piens, D. Deturck, R. Depestel, K. Van Hecke, C.V. Stevens, V. Kumar, M. D'hooghe, *Journal of Heterocyclic Chemistry*, 1-8 (2022). Doi: 10.1002/jhet.4597
Synthesis of 4-imidoyl-, 4-oxiranyl- and 4-propargyloxyphenyl-substituted β -lactam building blocks
339. H. Salemi, M. Debruyne, V. Van Speybroeck, P. Van Der Voort, M. D'hooghe, C.V. Stevens, *Journal of Materials Chemistry A.*, 10, 20707 – 20729 (2022). Doi: 10.1039/d2ta05234b
Covalent organic framework supported palladium catalysts
338. F. Beeckman, A. Drozdzecki, A. De Knijf, M. Corrochano-Monsalve, S. Bodé, P. Blom, G. Goeminne, C. Gonzalez-Murua, S. Lückner, P. Boeckx, C.V. Stevens, D. Audenaert, T. Beeckman, H. Motte, *Journal of Environmental management*, 118996 (2023).
<https://www.researchsquare.com/article/rs-2297595/v1>
Drug discovery-based approach identifies improved nitrification inhibitors
337. M. Pala, J. Everaert, A. Ollivier, R. Raeymaekers, K. Quataert, S. Roelants, W. Soetaert, C.V Stevens, *ACS Sustainable Chemistry & Engineering*, 10, 12234 – 12244 (2022).
Ozonolysis of Symmetrical Bola Sophorosides Yields Key Precursors for the Development of Functional Sphorolipid Derivatives
336. K.S. Rawat, S. Borgmans, T. Braeckevelt, C.V. Stevens, P. Van Der Voort, V. Van Speybroeck, *ACS Applied Nano Materials*, 5, 14377 – 14387 (2022).
How the Layer Alignment in Two-dimensional Nanoporous Covalent Organic Frameworks Impacts Its Electronic Properties
335. R. Van Kerrebroeck, T. Horsten, C.V. Stevens, *Eur. J. Org. Chem.*, doi: 10.1002/ejoc.202200310
Bromide Oxidation: A safe Strategy for Electrophilic Brominations
334. B. Vandekerckhove, N. Piens, B. Metten, C.V. Stevens, T.S.A. Heugebaert, *Organic Process Research & Development* (2022). Doi.org/10.1021/acs.oprd.2c00079
Practical Ferrioxalate Actinometry for the Determination of Photon Fluxes Production-Oriented Photoflow Reactors
333. T. Scattolin, A. Simoens, C.V. Stevens, S. Nolan, *Trends in Chemistry*, 4, 584 – 607 (2022). Doi.org/10.1016/j.trechm.2022.04.001
Flow chemistry of main group and transition metal complexes
332. B. Biesemans, J. De Clercq, C.V. Stevens, J.W. Thybaut, J. Lauwaert, *Catalysis Reviews - Science and Engineering*, doi: 10.1080/01614940.2022.2048570.
Recent advances in amine catalyzed aldol condensations
331. M. Dobbelaere, Y. Ureel, F. Vermeire, L. Tomme, C.V. Stevens, K. Van Geem, *Industrial & Engineering Chemistry Research*, 61, 8581 - 8594 (2022).
Machine Learning for Physicochemical Property Prediction of Complex Hydrocarbon Mixtures
330. R. M. dos Passos, R. M. da Silva, P. V. D. Pontes, M.A. Morgano, A.J.A. Meirelles, C.V. Stevens, M.C. Ferreira, K.A. Sampaio, *LWT-Food Science and Technology*, 159, 113197 (2022). Doi.org/10.1016/j.lwt.2022.113197
Phospholipase cocktail: A new degumming technique for crude soybean oil
329. T. Cauwenbergh, N.V. Tzouras, T. Scattolin, A. Simoens, C.V. Stevens, C. S. J. Cazin, S.P. Nolan, *ChemSusChem* (2021)
Continuous Flow Synthesis of NHC-Coinage Metal Amido and Thiolato Complexes: A Mechanism-based Process Development
328. S. Deketelaere, E. Van Den Broeck, L. Cools, D. Deturck, H. Naeyaert, K. Van Hecke, C. V. Stevens, V. Van Speybroeck, M. D'hooghe, *Eur. J. Org. Chem.*, 5823 - 5830 (2021), doi: 10.1002/ejoc.202100975.

- Unexpected formation of 2,2-dichloro-N-(chloromethyl)acetamides during attempted Staudinger 2,2-dichloro- β -lactam synthesis
327. M. Debruyne, V. Van Speybroeck, P. Van Der Voort, C.V. Stevens, *Green Chemistry*, **23**, 7361 – 7434 (2021) (selected as hot article). DOI: 10.1039/d1gc02319e
Porous Organic Polymers as metal free heterogeneous organocatalysts
326. J. Everaert, M. Debruyne, F. Vanden Bussche, K. Van Hecke, T.S.A. Heugebaert, P. Van Der Voort, V. Van Speybroeck, Christian V. Stevens, *Synthesis-Stuttgart* (2021). DOI: 10.1055/a-1626-5749.
Synthesis of Nitrile-Functionalized Polydentate N-Heterocycles as Building Blocks for Covalent Triazine Frameworks
325. D. Olejnik, E. Liwarska-Bizukojc, M. Galamon, E. Delbeke, K.M. Van Geem, C.V. Stevens, *Sustainability*, **13**, 7417 (2021). Doi.org:10.3390/su13137417
Effect of newly synthesized salts and three common micropollutants on the biochemical activity of nitrifiers
324. T. Cauwenbergh, N.V. Tzouras, T. Scattolin, S. Bhandary, A. Simoens, K. Van Hecke, C.V. Stevens, S.P. Nolan, *Chem, Eur. J.*, **27**, 13342 -13345 (2021).
Continuous Flow Synthesis of [Au(NHC)(Aryl)] (NHC = *N*-heterocyclic carbene) Complexes
323. Z. Yinwei, I. Verstraeten, H. Khai Trinh, T. Heugebaert, C.V. Stevens, I. Garcia-Maquilon, P.L. Rodriguez Egea, S. Vanneste, D. Geelen, *Genes*, **12**, (2021). DOI : 10.3390/genes12081141.
Arabidopsis hypocotyl adventitious root formation is suppressed by ABA signaling
322. P. Plehiers, I. Lengyel, D.H. West, G.B. Marin, C.V. Stevens, K.M. Van Geem, *Chemical Engineering Journal*, **426**, (2021). DOI : 10.1016/j.cej.2021.131304.
Fast estimation of standard enthalpy of formation with chemical accuracy by artificial neural network correction of low-level-of-theory ab initio calculations
321. P.P. Plehiers, G.B. Marin, C.V. Stevens, K.M. Van Geem, *Journal of Cheminformatics*, **10**, article 11, doi: 10.1186/s13321-018-0269-8 (2018)
Automated reaction database and reaction network analysis: extraction of reaction templates using cheminformatics
320. K. Dumoleijn, E. Van Den Broeck, J. Stavinoha, V. Van Speybroeck, K. Moonen, C.V. Stevens, *Journal of Catalysis*, **400**, 103 – 113 (2021).
Reductive imino-pinacol coupling reaction of halogenated aromatic imines and iminium ions catalyzed by precious metal catalysts using hydrogen
319. T. Cauwenbergh, T. Scattolin, N. Tzouras, A. Simoens, C.V. Stevens. S.P. Nolan, *Eur. J. Org. Chem.*, (2021). Doi.org/10.1002/ejoc.202101296
Continuous Flow Synthesis of Sulfur- and Selenium-NHC Compounds (NHC = *N*-Heterocyclic Carbene)
318. K. Dumoleijn, A. Villa, M. Marelli, L. Prati, K. Moonen, C.V. Stevens, *ChemCatChem*, **13**, 3021 – 3026 (2021).
Heterogeneous catalyzed chemoselective reductive amination of halogenated aromatic aldehydes
317. E. Liwarska-Bizukojc, E.I.P. Delbeke, K.M. Van Geem, C.V. Stevens, *Ecotoxicology*, **30**, 658 - 666 (2021). doi.org/10.1007/s10646-021-02378-6.
Endocrine disrupting potency and toxicity of novel sophorolipid quaternary ammonium salts
316. M.R. Dobbelaere, P.P. Plehiers, R. Van de Vijver, C.V. Stevens, K.M. Van Geem, J. *Phys. Chem. A*, **125**, 5166 - 5179 (2021). DOI : 10.1021/acs.jpca.1c01956
Learning Molecular Representations for Thermochemistry Prediction of Cyclic Hydrocarbons and Oxygenates

315. F. Vanden Bussche, A. M. Kaczmarek, V. Van Speybroeck, Pascal Van Der Voort, C. V. Stevens, *Chem. – A Eur. J.*, 27, 7214 - 7230 (2021). DOI: 10.1002/chem.202100007.
The overview of N-rich antennae investigated in lanthanide-based temperature sensing
314. A. Simoens, T. Scattolin, T. Cauwenbergh, G. Pisano, C. Cazin, C.V. Stevens, S. Nolan, *Chemistry – A European Journal*, 27, 5653 - 5657 (2021) doi.org/10.1002/chem.202100190 (hot paper).
Continuous Flow Synthesis of Metal-NHC (NHC = N-heterocyclic carbene) Complexes
313. S. Borgmans, S. Rogge, J. De Vos, P. Van Der Voort, C.V. Stevens, V. Van Speybroeck, *Angewandte Chem*, (2021). Doi: org/10.1002/anie.202017153.
Quantifying the likelihood of structural models through a dynamically enhanced powder X-ray diffraction protocol
312. L. De Bruecker, J. Everaert, P. Van Der Voort, C.V. Stevens, M. Waroquier, V. Van Speybroeck, *ChemPhysChem*, 21, 2489 -2505 (2020). Doi: 10.1002/cphc.202000592
Structural and Photophysical Properties of Various Polypyridyl Ligands: A Combined Experimental and Computational Study
311. M. Dobbelaere, P. Plehiers, R. Van de Vijver, C. V. Stevens, K. Van Geem, *Engineering*, 7, 1201 – 1211 (2021).
Machine Learning in Chemical Engineering: Strengths, Weaknesses, Opportunities and Threats
310. A.A. Ba, J. Everaert, P. Le Griel, A. Poirier, W. Soetaert, S. L. K. W. Roelants, D. Hermida-Merino, C.V. Stevens, N. Baccile, *Green Chemistry*, 22, 8323 - 8336 (2020). Doi: 10.1039/d0gc03053h
Synthesis and self-assembly of aminyl and alkynyl substituted sophorolipids
309. A. Harizaj, B. Descamps, C. Mangodt, S. Stremersch, A. Stoppa, L. Balcaen, T. Brans, H. De Rooster, N. Devriendt, J. Fraire, E. Bolea Fernandez, O. De Wever, W. Willaert, F. Vanhaecke, C.V. Stevens, S. De Smedt, B. Roman, C. Vanhove, I. Lentacker, K. Braeckmans, *Biomaterials Science* (2020). Doi: 10.1039/d1bm00479d.
Cytosolic delivery of gadolinium via photoporation enables improved in vivo magnetic resonance imaging of cancer cells
308. C. Krishnaraj, H. Sekhar Jena, L. Bourda, A. Laemont, P. Pachfule, J. Roeser, V. Chandrasekharan Nair, S. Borgmans, S. Rogge, K. Leus, C.V. Stevens, J.A. Martens, V. Van Speybroeck, E. Breynaert, A. Thomas, P. Van Der Voort, *J. Am. Chem. Soc.*, 47, 20107 - 20116 (2020). <https://doi.org/10.1021/jacs.0c09684>
Strongly reducing (Diaryl-amino)benzene functionalized Covalent Organic Framework for metal-free visible light photocatalytic H₂O₂ generation
307. T. van der Meer, P. Willems, A. Verlee, F. Impens, K. Gevaert, C. Testerink, C.V. Stevens, F. Van Breusegem, P. Kerchev, *Cells*, 9, nr. 2026 (2020). Doi:10.3390/cells9092026
Chemical Genetics Approach Identifies Abnormal Inflorescence Meristem 1 as a Putative Target of a Novel Sulfonamide That Protects Catalase2-Deficient Arabidopsis against Photorespiratory Stress
306. A. Jasiak, K. Owsianik, B. Gostyski, G. Mielniczak, C.V. Stevens, J. Drabowicz, *Org. Chem. Frontiers*, 7, 3664 - 3674 (2020), DOI: 10.1039/D0QO01129K.
Experimental study on the microreactor-assisted synthesis of phosphinic chlorides with varying steric hindrance
305. D. Rathnayake, E. Meers, C.E. Egene., Onoseehidiamhen, C. V. Stevens, F. Ronsse, *Journal of Analytical and Applied Pyrolysis* (accepted).
Investigation of biomass and agricultural plastic co-pyrolysis: Effect on biochar yield and properties

304. M. Carrera, L. De Coen, M. Coppens, W. Dermaut, C.V. Stevens, *Org. Proc. Res. & Dev.*, **24**, 2260 - 2265 (2020). <https://doi.org/10.1021/acs.oprd.0c00318>
A Vilsmeier chloroformylation by continuous flow chemistry
303. P.P. Plehiers, C.W. Coley, H. Gao, F.H. Vermeire, M.R. Dobbelaere, C.V. Stevens, K.M. Van Geem, W.H. Green, *Frontiers in Chem. Eng.*, **2**, Article 5, 1 – 19 (2020). [Doi:org/10.3389/fceng.2020.00005](https://doi.org/10.3389/fceng.2020.00005)
Artificial Intelligence for Computer-Aided Synthesis in Flow: Analysis and Selection of Reaction Components
302. F. Vanden Bussche, A.M. Kaczmarek, S. Veerapandian, J. Everaert, M. Debruyne, S. Abednatanzi, R. Morent, N. De Geyter, V. Van Speybroeck, P. Van Der Voort, C.V. Stevens, *Chemistry – A European Journal*, **26**, 15596 - 15604 (2020) doi.org/10.1002/chem.202002009.
N-rich porous polymer with isolated Tb³⁺-ions displays unique temperature dependent behavior through the absence of thermal quenching
301. A.S. Doost, F. Devlieghere, C.V. Stevens, M. Claeys, P. Van der Meeren, *Food Chemistry*, **327**, article 126970 (2020). DOI: 10.1016/j.foodchem.2020.126970
Self-assembly of Tween 80 micelles as nanocargos for oregano and trans-cinnamaldehyde plant-derived compounds
300. S. Abednatanzi, P.G. Derakhshandeh, P. Tack, F. Muniz-Miranda, Y.-Y.Liu, J. Everaert, M. Meledina, F. Vanden Bussche, L. Vincze, C.V. Stevens, V. Van Speybroeck, H. Vrielinck, F. Callens, K. Leus, P. Van Der Voort, *Applied Catalysis B: Environmental*, **269**, nr. 118769 (2020). Doi: 10.1016/j.apcatb.2020.118769.
Elucidating the promotional effect of a covalent triazine framework in aerobic oxidation
299. H. Wang, C.-W. Tsang, M. Ho To, G. Kaur, S.L.K.W. Roelants, C.V. Stevens, W. Soetaert, C.S.K. Lin, *Bioresource Technology*, **303**, 122852 (2020). Doi: 10.1016/j.biortech.2020.122852.
Techno-economic evaluation of a biorefinery applying food waste for sophorolipid production – A case study for Hong-Kong
298. P. Kerchev, T. van der Meer, N. Sujeeth, A. Verlee, C.V. Stevens, F. Van Breusegem, T. Gechev, *Biotechnology Advances*, **40**, nr. 107503 (2020). Doi: 10.1016/j.biotechadv.2019.107503.
Molecular priming as an approach to induce tolerance against abiotic and oxidative stresses in crop plants
297. G.B. Messaoud, P. Le Griel, S. Prévost, D. Hermida Merino, W. Soetaert, S.L.K.W. Roelants, C.V. Stevens, N. Baccile, *Soft Matter*, **16**, 2528 - 2539 (2020).
Single-Molecule Lamellar Hydrogels from Bolaform Microbial Glucolipids
296. P.P. Plehiers, S.H. Symoens, I. Amghizar, G.B. Marin, C.V. Stevens, K.M. Van Geem, *Engineering*, **5**, 1027 - 1040 (2019). DOI : 10.1016/j.eng.2019.02.013
Artificial Intelligence in Steam Cracking Modeling: A deep learning Algorithm for detailed Effluent Prediction
295. M. De Graeve, I. Van de Velde, L. Saey, M. Chys, H. Oorts, H. Kahrman, S. Mincke, C. Stevens, S. De Maeseneire, S. Roelants, W. Soetaert, *FEMS Yeast Research*, 2019 (in press).
Production of long-chain hydroxy fatty acids by *Starmerella bombicola*
294. F. Vanden Bussche, A.M. Kaczmarek, L. Schmidt, C.V. Stevens, P. Van der Voort, *J. Materials Chem. C*, **7**, 10972 – 10980 (2019).
Lanthanide grafted phenanthroline-polymer for physiological temperature range sensing
293. A. De Vylder, J. Lauwaert, J. De Clercq, C.V. Stevens, P. Van Der Voort, J.W. Thybaut, *Reaction Chemistry and Engineering*, **4**, 1948 - 1956 (2019).

- Kinetic Evaluation of Chitosan Derived Catalysts for the Aldol Reaction in Water
292. A. Verlee, T. Heugebaert, T. van der Meer, P. Kerchev, K. Van Hecke, F. Van Breusegem, C.V. Stevens, *ACS Catalysis*, **9**, 7862 - 7869 (2019). <https://doi.org/10.1021/acscatal.9b02275>
Gold and Palladium Mediated Bimetallic Catalysis: Mechanistic Investigation through the Isolation of the Organogold(I) Intermediates
291. N. Jebli, K. Van Hecke, C.V. Stevens, S. Touil, *J. Mol. Structure*, **1196**, 356 – 369 (2019).
Synthesis, spectroscopic studies, X-ray crystal structure and Hirshfeld surface analysis of unprecedented symmetrical trans- α,α' - bis(diphenylphosphoryl)cycloalkanol derivatives
290. E.I.P. Delbeke, J. Everaert, O. Lozach, T. Le Gall, M. Berchel, T. Mortier, P.-A. Jaffrès, P. Rigole, T. Coenye, M. Brennich, N. Baccile, S.L.K.W. Roelants, W. Soetaert, I.N.A. Van Bogaert, K.M. Van Geem, C.V. Stevens, *ChemSusChem*, **12**, 3642 – 3653 (2019).
Lipid-based quaternary ammonium Sophorolipid Amphiphiles with antimicrobial and transfection activities
289. R. Ganigué, P. Naert, P. Candry, J. De Smedt, C.V. Stevens, K. Rabaey, *Biores. Technol.*, **289**, 121574 (2019).
Fruity flavors from waste: a novel process to upgrade crude glycerol to ethyl valerate
288. F. Muniz-Miranda, L. De Bruecker, A. De Vos, F. Vanden Bussche, C.V. Stevens, P. Van Der Voort, K. Lejaeghere, V. Van Speybroeck, *J. Phys. Chem. A*, **123**, 6854 – 6867 (2019).
Optical Properties of Isolated and Covalent Organic Framework-embedded Ruthenium Complexes
287. R. Van Kerrebroeck, P. Naert, T. Heugebaert, M. D'hooghe, C.V. Stevens, *Molecules*, **24**, 2116 - 2125 (2019). doi: 10.3390/molecules24112116
Electrophilic Bromination in Flow: a Safe and Sustainable Alternative to the Use of Molecular Bromine in Batch
286. T. Girma Asere, S. Mincke, K. Folens, F. Vanden Bussche, L. Lapeire, K. Verbeken, P. Van Der Voort, D. A. Tessema, G. Du Laing, C.V. Stevens, *Reactive and Functional Polymers*, **141**, 145 – 154 (2019).
Dialdehyde carboxymethyl cellulose cross-linked chitosan for the recovery of palladium and platinum from aqueous solution
285. S. Mincke, T. G. Asere, I. Verheye, K. Folens, F. Vanden Bussche, L. Lapeire, K. Verbeken, P. Van Der Voort, D. A. Tessema, F. Fufa, G. Du Laing, C.V. Stevens, *Green Chemistry*, **21**, 2295 - 2306 (2018). DOI: 10.1039/C9GC00166B
Functionalized chitosan adsorbents allow recovery of palladium and platinum from acidic aqueous solutions
284. S. Abednatanzi, P. Gohari Derakhshandeh, P. Tack, F. Muniz-Miranda, Y.-Y Liu, J. Everaert, F. Vanden Bussche, L. Vince, C.V. Stevens, V. Van Speybroeck, H. Vrielinck, F. Callens, K. Leus, P. Van Der Voort, *Applied Catalysis B: Environmental*, **269**, 118769 (2019).
Elucidating the Promotional Effect of a Covalent Triazine Framework in Aerobic Oxidation
283. N. Baccile, E.I.P. Delbeke, M. Brennich, C. Seyrig, J. Everaert, S. Roelants, W. Soetaert, I.N.A. Van Bogaert, K. Van Geem, C.V. Stevens, *The Journal of Physical Chemistry, Part B*, **123**, 3841 – 3858 (2019). Doi: 10.1021/acs.jpccb.9b01013
Asymmetrical, Symmetrical, Divalent and Y-Shaped (Bola)amphiphiles: The Relationship between Molecular Structure and Self-assembly in Amino Derivatives of Sophorolipid Biosurfactants
282. A.S. Doost, P. Van der Meeren, A. Setiowati, C.V. Stevens, M. Akbari, *Trends in Food Science and Technology*, **86**, 16 – 24 (2019). Doi: 10.1016/j.tifs.2019.02.001

- A review on nuclear Overhauser enhancement (NOE) and rotating-frame Overhauser effect (ROE) NMR techniques in food science: basic principles and applications
281. G. Ben Messaoud, P. Le Griel, S.F. Prévost, D. Hermida-Merino, S.L.K.W. Roelants, W. Soetaert, C.V. Stevens, N. Baccile, *Chemistry of Materials*, **31**, 4817 - 4830 (2019). Doi: 10.1021/acs.chemmater.9b01230
pH-Controlled Self-Assembled Fibrillar Network Hydrogels: Evidence of a Kinetic Control of the Mechanical Properties
280. M. Movsisyan, L. De Coen, T.S.A Heugebaert, A. Verlee, B.I. Roman, C.V. Stevens, *Eur. J. Org. Chem.*, 1350 -1354, (2019). DOI: 10.1002/ejoc.201801689.
Continuous-Flow Synthesis of Phenothiazine Antipsychotics: A feasibility Study.
279. T.G. Asere, C.V. Stevens, G. Du Laing, *Science of the Total Environment*, **676**, 706 -720 (2019).
Use of (modified) natural adsorbents for Arsenic remediation: a review
278. A. De Vos, K. Lejaeghere, F. Muniz Miranda, C.V. Stevens, P. Van der Voort, V. Van Speybroeck, *Journal of Materials Chemistry A*, **7**, 8433 - 8442 (2019), DOI: 10.1039/C9TA00573K.
Electronic properties of heterogenized Ru(II) polypyridyl photoredox complexes on covalent triazine frameworks
277. C. Valotteau, N. Baccile, V. Humblot, S. Roelants, W. Soetaert, C.V. Stevens, Y. Dufrière, *Nanoscale Horizons*, DOI:10.1039/c9nh00006b, open access, published March 25th, (2019).
Nanoscale antiadhesion properties of sophorolipid-coated surfaces against pathogenic bacteria
276. M.N. Nasrabadi, S.A.H Goli, A.S. Doost, B. Roman, K. Dewettinck, C.V. Stevens, P. Van Der Meeren, *Colloids and Surfaces A –Physiochemical and Engineering Aspects*, **563**, 170 – 182 (2019).
Plant based Pickering stabilization of emulsions using soluble flaxseed protein and mucilage nano-emulsions
275. A.S. Doost, V. Kassozi, K. Dewettinck, C.V. Stevens, M.N. Nasrabadi, P. Van Der Meeren, *Food Hydrocolloids*, **88**, 218 - 227 (2019).
Pickering Stabilization of thymol through green emulsification using soluble fraction of almond gum –whey protein isolate nano-complexes
274. N.Tahir, F. Muniz-Miranda, J. Everaert, P. Tack, T. Heugebaert, K. Leus, L. Vince, C.V. Stevens, V. Van Speybroeck, P. Van Der Voort, *Journal of Catalysis*, **371**, 135-143 (2019).
Immobilization of Ir(I) complex on Covalent Triazine Frameworks for C-H Borylation Reactions: A Combined Experimental and Computational Study
273. E. Liwarska-Bizukojc, D. Olejnik, E.I.P. Delbeke, K.M. Van Geem, C.V. Stevens, *New Biotechnology*, **44**, S163 – S163, P 36-9 (2018).
Effect of sophorolipid quaternary ammonium salts on activated sludge system
272. A. Verlee, T. Heugebaert, T. Van Der Meer, P. Kerchev, F. Van Breusegem, C.V. Stevens, *Org. Biomol. Chem.*, **16**, 9359 - 9363 (2018).
Domino reaction of a gold catalyzed 5-endo-dig cyclization and a [3,3]-sigmatropic rearrangement towards polysubstituted pyrazoles
271. B.I.R. Roman, R.C. Guedes, C.V. Stevens, A.T. Garcia-Sosa, *Frontiers in Chemistry*, **6**, article number 179 (2018). Doi: 10.3389/fchem.2018.00179
Recovering Actives in Multi-Antitarget and Target Design of Analogs of the Myosin II Inhibitor Blebbistatin

270. R. Geys, M. De Graeve, S. Lodens, J. Van Malderen, C. Lemmens, M. De Smet, S. Mincke, I. N. A. Van Bogaert, C. V. Stevens, S. De Maeseneire, S. L. K. W. Roelants, W. Soetaert, *Colloids and Interfaces*, 2, Article nr. 42 (2018).
Increasing uniformity and diversity of biosurfactant production in *Starmerella bombicola* by chimeragenesis of cytochrome P450s
269. P. Naert, K. Rabaey, C.V. Stevens, *Green Chem.*, 20, 4277 - 4286 (2018). (selected as “Green Chemistry Hot Article”) DOI: 10.1039/c8gc01869c
Ionic liquid ion exchange: exclusion from strong interactions condemns cations to the most weakly interacting anions and dictates reaction equilibrium
268. N. Jebli, Y. Arfaoui, K. Van Hecke, C.V. Stevens, S. Touil, *J. Mol. Structure*, 1171, 279 – 293 (2018).
X-Ray crystal structure, Hirshfeld surface analysis, thermal stability and photophysical properties of some symmetrical *trans*- α,α' -bis(diphenylphosphoryl)- and α,α' -bis(diphenylphosphorothioyl)-cycloalkanones
267. E.I.P. Delbeke, J. Everaert, O. Lozach, T. Le Gall, M. Berchel, T. Mortier, P.-A. Jaffrès, P. Rigole, T. Coenye, M. Brennich, N. Baccile, S.L.K.W. Roelants, W. Soetaert, I.N.A. Van Bogaert, K.M. Van Geem, C.V. Stevens, *ACS Sustainable Chemistry & Engineering*, 6, 8992 - 9005 (2018).
Synthesis and Biological Evaluation of Bolaamphiphilic Sophorolipids
266. M. Movsisyan, T.S.A Heugebaert, B.I. Roman, R. Dams, R. Van Campenhout, M. Conradi, C.V. Stevens, *Chem. A Eur. J.*, 24, 11779 - 11784 (2018). Doi:10.1002/chem.201802208.
Atom- and mass-economical continuous flow production of 3-chloropropionyl chloride and its subsequent amidation
265. S. Seghers, T.S.A. Heugebaert, M. Moens, J. Sonck, J. W. Thybaut, C.V. Stevens, *ChemSusChem*, 11, 2248 - 2254 (2018).
Design of a mesoscale continuous flow route toward lithiated methoxyallene
264. A. Sedaghat Doost, D. Rahadian Aji Muha mmad, C.V. Stevens, K. Dewettinck, P. Van der Meeren, *Food Hydrocolloids*, 83, 190 – 201 (2018).
<https://doi.org/10.1016/j.foodhyd.2018.04.050>
Fabrication and characterization of quercetin loaded almond gum-shellac nanoparticles prepared by antisolvent precipitation
263. S. Seghers, J.W. Thybaut, C.V. Stevens, *Chimica Oggi; Chemistry Today*, Vol. 36 (2), March/April 2018, 40 – 43.
The Diels-Alder reaction: doomed to academic praise only?
262. E. Uitterhaegen, J. Parinet, L. Labonne, T. Mérian, S. Ballas, T. Véronèse, O. Merah, T. Talou, C.V. Stevens, F. Chabert, P. Evon, *Composites Part A – Applied Science and Manufacturing*, 113, 254 - 263 (2018).
Performance, durability and recycling of thermoplastic biocomposites reinforced with coriander straw
261. M.A. Lopez-Heredia, A. Lapa, K. Reczynska, K. Pietryga, L. Balcaen, A.C. Mendes, D. Schaubroeck, P. Van Der Voort, A. Dokupil, A. Plis, C.V. Stevens, B.V. Parahonskiy, S.K. Samal, F. Vanhaecke, F. Chai, I.S. Chronakis, N. Blanchemain, E. Pamula, A.G. Skirtach, T. Douglas, *Journal of Tissue Engineering and Regenerative Medicine*, 12, 1825 – 1834 (2018), Doi: 10.1002/term.2675
Mineralization of gellan gum hydrogels with calcium and magnesium carbonates by alternate soaking in solutions of calcium/magnesium carbonate ion solutions
260. B.I. Roman, S. Verhasselt, C.V. Stevens, *J. Med. Chem.*, 61, 9410 - 9428 (2018).
Medicinal chemistry and use of myosin II inhibitor (*S*)-Blebbistatin and its derivatives
259. B.I. Roman, S. Verhasselt, C. Mangoldt, O. De Wever, C.V. Stevens, *Bioorg. Med. Chem. Lett.* 13, 2261 – 2264 (2018).

- Synthesis of C-ring-modified blebbistatin derivatives and evaluation of their myosin II ATPase inhibitory potency
258. S. Seghers, J. Lefevere, S. Mullens, A. De Vylder, J. W. Thybaut, C.V. Stevens, *ChemSusChem*, **11**, 1686 - 1693 (2018).
Enhancing zeolite performance by catalyst shaping in a mesoscale continuous flow Diels-Alder process
257. K. Sampaio, N. Zyaykina, E. Uitterhaegen, W. De Greyt, R. Verhé, A.J. de Almeida Meirelles, C.V. Stevens, *LWT-Food Science and Technology*, **107**, 145 - 150 (2019).
Enzymatic Degumming of Corn Oil using Phospholipase C from a Selected Strain of *Pichia pastoris*
256. L.M. De Coen, B.I. Roman, M. Movsisyan, T.S.A. Heugebaert, C.V. Stevens, *Eur. J. Org. Chem.* 2148 – 2166 (2018).
Synthesis and biological activity of oxazolopyrimidines
255. E. Uitterhaegen, K. Burianová, S. Ballas, T. Véronèse, O. Merah, T. Talou, C.V. Stevens, P. Evon, *Industrial Crops & Products*, **122**, 57-65 (2018).
Characterization of volatile organic compound emissions from self-bonded boards resulting from a coriander biorefinery
254. N. Ristic, M. Djokic, E. Delbeke, A. Gonzalez Quiroga, C. Stevens, K. Van Geem, G. Marin, *Energy & Fuels*, **32**, 1276 - 1286 (2018). DOI: 10.1021/acs.energyfuels.7b03242
Compositional Characterization of Pyrolysis Oil from Naphtha and Vacuum Gas Oil.
253. J.K.E.T. Berton, H. Salemi, J.L. Pirat, D. Virieux, C.V. Stevens, *J. Org. Chem.*, **23**, 12439 – 12446 (2017).
Three-step Synthesis of Chiral Spirocyclic Oxaphospholenes
252. J.K.E.T. Berton, T.S.A. Heugebaert, D. Virieux, C.V. Stevens, *Chem. A Eur. J.*, **69**, 17413 – 17431 (2017).
Fifty years of (Benz)oxaphospholene Chemistry
251. S. Mincke, S. Ledegem, S. Debrouwer, C. Stevens, W. Soetaert, *Biotechnology and Bioengineering*, 2017 (early view). Doi 10.1002/bit.26539.
From lab to market: An integrated bioprocess design approach for new-to-nature biosurfactants produced by *Starmerella bombicola*
250. M.A. Lopez-Heredia, A. Lapa, A.C. Mendes, L. Balcaen, S.K. Samal, F. Chai, P. Van der Poort, C.V. Stevens, B.V. Parakhonskiy, I.S. Chronakis, F. Vanhaecke, N. Blanchemain, E. Pamula, A.G. Skirtach, T.E.L. Douglas, *Material Letters*, **190**, 13 – 16 (2017).
Bioinspired, biomimetic, double-enzymatic mineralization of hydrogels for bone regeneration with calcium carbonate
249. E. Liwarska-Bizukojc, D. Olejnik, E.I.P. Delbeke, K.M. Van Geem, C.V. Stevens, *Chemosphere*, **200**, 561 - 568 (2018).
<https://doi.org/10.1016/j.chemosphere.2018.02.145>
Evaluation of biological properties and fate in the environment of a new class of biosurfactants
248. T.E.L. Douglas, J. Schietse, A. Zima, S. Gorodzha, B.V. Parakhonskiy, D. KhaleNkow, R. Shkarin, A. Ivanova, T. Baumbach, V. Weinhardt, C.V. Stevens, V. Vanhoorne, C. Vervaet, L. Balcaen, F. Vanhaecke, A. Slosarczyk, M.A. Surmeneva, R.A. Surmenev, A.G. Skirtach, *Journal of Biomedical Materials Research Part A*, **106**, 822 – 828 (2018).
Novel self-gelling injectable hydrogel/alpha-tricalcium phosphate composites for bone regeneration: physio-chemical and microcomputer tomographical characterization
247. N. Jebli, W. Debrouwer, J.K.E.T. Berton, K. Van Hecke, C.V. Stevens, *Synlett*, **28**, 1160-1164 (2017). (IF = 2,369) (Q2)

- Direct Regio and Diastereoselective Diphosphonylation of Cyclic Enamines: One pot Synthesis of α,α' -Bis(diphenylphosphoryl) and α,α' -Bis(diphenylphosphorylthio)cycloalkanones
246. T. G. Asere, K. Verbeken, D.A. Tessemae, F. Fufa, C.V. Stevens, G. Du Laing, *Environm. Sci.& Pollution Res.*, 24, 20446 – 20458 (2017). (IF = 2,800) (Q2)
Adsorption of As(III) vs As(V) from aqueous solutions by cerium-loaded volcanic rocks
245. R. De Vreese, K. Muylaert, C. Maton, L. Dereu, F. Taillieu, T. Harth, R. Van Deun, H. Vrielinck, C.V. Stevens, M. D'hooghe, *Tetr. Lett.*, 58, 3803-3807 (2017). (IF = 2,125) (Q2)
Synthesis of bis-8-hydroxyquinolines *via* an imination or a Suzuki-Miyaura coupling approach
244. E. Ruysbergh, K. Van Hecke, C.V. Stevens, N. De Kimpe, S. Mangelinckx, *J. Org. Chem.*, 82, 6210 – 6222 (2017). (IF = 4,805) (Q1)
Synthesis of 1,4-Oxazepane-2,5-diones via Cyclization of Rotationally Restricted Amino Acid Precursors and Structural Reassignment of Serratin
243. L. De Coen, B. Roman, M. Movsisyan, B. D'hont, N. De Vos, K. Van Hecke, C.V. Stevens, *Tetrahedron Lett.*, 58, 3803-3807 (2017). (IF = 2,125) (Q2)
A new class of bicyclic dicationic salts based on the 7-azoniabicyclo[2.2.1]heptane scaffold
242. T. G. Asere, S. Mincke, J. De Clercq, K. Verbeken, D.A. Tessemae, F. Fufa, C.V. Stevens, G. Du Laing, *International Journal of Environmental Research and Public Health*, 14, article 895, 1 - 19 (2017). DOI 10.3390/ijerph14080895. (IF = 2,145) (Q2)
Removal of Arsenic (V) From Aqueous Solutions Using Chitosan-Red Scoria and Chitosan-Pumice Blends
241. S. Verhasselt, C.V. Stevens, T. Van den Broecke, M.E. Bracke, B.I. Roman, *Bioorg. Med. Chem. Lett.*, 27, 2986 - 2989 (2017). (IF = 2,442) (Q2)
Insights into the myosin II inhibitory potency of A-ring modified (S)-blebbistatin analogs
240. S. Verhasselt, B.I. Roman, M.E. Bracke, C.V. Stevens, *Eur. J. Med. Chem.*, 136, 85 -103 (2017). (IF = 4,816) (Q1)
Improved synthesis and comparative analysis of the tool properties of new and existing D-ring modified (S)-blebbistatin analogs
239. S. Deketelaere, C.V. Stevens, M. D'hooghe, *Chemistry Open*, 6, 301 - 319 (2017). Doi: 10.1002/open.201700051. (IF = 2,801) (Q2)
Synthetic approaches toward monocyclic 3-amino- β -lactams
238. M. Movsisyan, T.S.A. Heugebaert, C.V. Stevens, *Chimica Oggi – Chemistry Today*, 35, 60 - 63, May/June (2017). (IF = 0,396) (Q4)
Safely scaling hazardous chemistry through continuous flow chemistry
237. A. Verlee, T. Heugebaert, T. Van der Meer, P. Kerchev, F. van Breusegem, C.V. Stevens, *Beilstein J. Org. Chem.*, 13, 303-312 (2017) (IF = 4,805) (Q1)
A chemoselective and continuous synthesis of *m*-sulfamoyl benzamide analogues
236. S. Verhasselt, B.I. Roman, O. De Wever, K. Van Hecke, R. Van Deun, M.E. Bracke, C.V. Stevens, *Org. Biomol. Chem.*, 15, 2104 -2118 (2017). (IF = 3,423) (Q2)
Discovery of (S)-3'-hydroxyblebbistatin and (S)-3'-aminoblebbistatin: polar myosin II inhibitors with superior research tool properties
235. A. Verlee, S. Mincke, C.V. Stevens, *Carbohydrate Polymers*, 164, 268 - 283 (2017). DOI: 10.106/j.carbpol.2017.02.001 (IF = 5,158) (Q1)
Recent developments in antibacterial and antifungal chitosan and its derivatives
234. S. Seghers, L. Protosova, S. Mullens, J.W. Thybaut, C.V. Stevens, *Green Chemistry*, 19, 237 – 248 (2017). (IF = 8,586) (Q1)

- Improving the efficiency of the Diels-Alder process by using flow chemistry and zeolite catalysis
233. K. Muylaert, M. Jatzak, S. Mangelinckx, C.V. Stevens, *Curr. Med. Chem.*, **23**, 4784 – 4823 (2016). (IF = 3,249) (Q2)
Synthesis of Pyrido-annelated Diazepines, Oxazepines and Thiazepines
232. M. Movsisyan, T.S.A. Heugebaert, R. Dams, C.V. Stevens, *ChemSusChem*, **9**, 1945 – 1952 (2016). (IF = 7,226) (Q1)
Safe, selective and high-yielding synthesis of acryloyl chloride in a continuous-flow system
231. T. G. Asere, J. De Clercq, K. Verbeke, D.A. Tessema, F. Fufa, C.V. Stevens, G. Du Laing, *Applied Geochemistry*, **78**, 83-95 (2017). DOI:10.1016/j.apgeochem.2016.12.013 (IF = 3,088) (Q2)
Uptake of Arsenate by Aluminum oxide coated red scoria and pumice
230. W. Debrouwer, D. Hertsen, T. Heugebaert, E. Boydas, V. Van Speybroeck, S. Catak, C.V. Stevens, *J. Org. Chem.*, **82**, 188 - 201 (2017). DOI: 10.1021/acs.joc.6b02340. (IF = 4,805) (Q1)
Tandem addition of phosphite nucleophiles across unsaturated nitrogen-containing systems: mechanistic insights on regioselectivity
229. T. Douglas, A. Lapa, K. Reczynska, M. Krok-Borkowicz, K. Pietryga, S. Samal, H. Declercq, D. Schaubroeck, M. Boone, P. Van der Voort, K. De Schamphelaert, C.V. Stevens, V. Bliznuk, L. Balcaen, B. Parahonskiy, F. Vanhaecke, V. Cnudde, E. Pamula, A. Skirtach, *Biomedical Materials* **6**, article 065011 (2016). DOI 10.1088/1748-6041/11/6/065011 (IF = 2,469) (Q3)
Novel injectable, self-gelling hydrogel-microparticle composites for bone regeneration consisting of gellan gum and calcium and magnesium carbonate microparticles
228. N. Baccile, A.S. Cuvier, S. Provost, C. Stevens, E. Delbeke, J. Berton, W. Soetaert, I.N.A. Van Bogaert, S. Roelants, *Langmuir*, **32**, 10881 – 10894 (2016). (IF = 3,833) (Q2)
Self-assembly mechanism of pH-responsive glycolipids: micelles, fibres, vesicles and bilayers
227. E. Uitterhaegen, K.A. Sampaio, E.I.P. Delbeke, W. De Greyt, M. Cerny, P. Evon, O. Merah, T. Talou, C.V. Stevens, *Molecules*, **21**, 1202 – 1215 (2016). (IF = 2,862) (Q2)
Characterization of French Coriander Oil as source of Petroselinic acid.
226. E. Ruysbergh, C.V. Stevens, N. De Kimpe, S. Mangelinckx, *RSC Advances*, **6**, 73717 – 73730 (2016). (IF = 3,108) (Q2)
Synthesis and analysis of stable isotope-labelled *N*-acyl homoserine lactones
225. M. Movsisyan, E.I.P. Delbeke, J.K.E.T. Berton, C. Battilocchio, S.V. Ley, C.V. Stevens, *Chem. Soc. Rev.*, **45**, 4892 – 4928 (2016). DOI: 10.1039/C5CS00902B. (IF = 38,618) (Q1)
Taming hazardous chemistry by continuous flow technology
224. E. Delbeke, S. Roelants, N. Matthijs, B. Everaert, W. Soetaert, T. Coenye, K. Van Geem, C. Stevens, *Ind. & Eng. Chem. Res.*, **55**, 7273 - 7281 (2016), doi. 10.1021/acs.iecr.6b00629. (IF = 2,843) (Q2)
Sphorolipid amine oxide production by a combination of fermentation scale-up and chemical modification
223. E. Uitterhaegen, Q.H. Nguyen, O. Merah, C.V. Stevens, T. Talou, L. Regal, P. Evon, *Journal Renewable Materials*, **4**, 225 – 238 (2015). (IF = 1,263) (Q4)
New Renewable and Biodegradable Fiberboards from a Coriander Press Cake
222. N. Baccile, M. Selmane, P. Le Griel, S. Prévost, J. Perez, C.V. Stevens, E. Delbeke, S. Zibek, M. Guenther, W. Soetaert, I.N.A. Van Bogaert, S. Roelants, *Langmuir*, **32**, 6343 – 6359 (2016). (IF = 3,833) (Q2)
pH-driven self-assembly of acidic microbial glycolipids

221. S.J. Andersen, J.K.E.T. Berton, P. Naert, S. Gildemyn, K. Rabaey, C.V. Stevens, *ChemSusChem*, **9**, 2059 – 2063 (2016). (IF = 7,226) (Q1)
Extraction and esterification of low-titre short chain volatile fatty acids from anaerobic fermentation with ionic liquids
220. E.I.P. Delbeke, J. Everaert, E. Uitterhaegen, S. Verweire, A. Verlee, T. Talou, W. Soetaert, I.N.A. Van Bogaert, C.V. Stevens, *AMB Express*, DOI:10.1186/s13568-016-0199-7 (2016). (IF = 1,825) (Q3)
Petroselinic acid purification and its use for the fermentation of new sophorolipids
219. E.I.P. Delbeke, O. Lozach, T. Le Gall, M. Berchel, T. Montier, P.-A. Jaffrès, K.M. Van Geem, C.V. Stevens, *Org. Biomol. Chem.*, **14**, 3744 – 3751 (2016). Doi: 10.1039/c6ob00241b. (IF = 3,564) (Q1)
Evaluation of the transfection efficacies of quarternary ammonium salts prepared from sophorolipids
218. J. Berton, T.S.A. Heugebaert, W. Debrouwer, C.V. Stevens, *Org. Lett.*, **18**, 208 - 211 (2016), doi:10.1021/acs.orglett.5b03314. (IF = 6,579) (Q1)
3-Imidoallenylphosphonates: in situ formation and beta-alkoxylation
217. D. Gendaszewska, E. Liwarska-Bizukoje, C. Maton, C.V. Stevens, *Archives of Environmental Protection*, **41**, 40 – 48 (2015). (IF = 0,919) (Q4)
Influence of the newly synthesized imidazolium ionic liquids on activated sludge process
216. C. Valotteau, C. Calers, S. Casle, J. Berton, C.V. Stevens, F. Babonneau, C.M. Padrier, V. Humblot, N. Baccile, *ACS Applied Materials and Interfaces*, **7**, 18086 – 18095 (2015). (IF = 7,145) (Q1)
Biocidal Properties of a Glycosylated Surface: Sophorolipids on Au (111)
215. L. De Coen, T.S.A. Heugebaert, D. Garcia, C.V. Stevens, *Chem. Rev.*, **116**, 80 - 139 (2016), doi:10.1021/acs.chemrev.5b00483. (IF = 47,928) (Q1)
Synthetic Entries to and biological activity of pyrrolopyrimidines
214. J. Drabowicz, F. Jordan, M.H. Kudzin, Z.H. Kudzin, C.V. Stevens, P. Urbaniak, *Dalton Transactions*, **45**, 2308 - 2317 (2016), DOI: 10.1039/C5DT03083H (IF = 4,029) (Q1)
Reactivity of Aminophosphonic Acids. Oxidative Dephosphonylation of 1-Aminoalkylphosphonic Acids by aqueous halogens
213. E.I.P. Delbeke, M. Movsisyan, K.M. Van Geem, C.V. Stevens, *Green Chem.*, **18**, 76 – 104 (2016). DOI 10.1039/C5GC02187A. (IF = 9,125) (Q1)
Chemical and enzymatic modification of sophorolipids
212. E. Liwarska-Bizukoje, C. Maton, C.V. Stevens, *Biodegradation*, **26**, 453 – 463 (2015), doi: 10.1007/s10532-015-9747-0 (IF = 2,208) (Q2)
Biodegradation of imidazolium ionic liquids by activated sludge microorganisms
211. A-S. Cuvier, F. Babonneau, J. Berton, C. V. Stevens, G. C. Fadda, G. Péhau-Arnaudet, P. Le Griel, S. Prévost, J. Perez, N. Baccile, *Chem. Eur. J.*, **21**, 19265 – 19277 (2015). DOI: 10.1002/chem.201502933 (IF = 5,771) (Q1)
Nanoscale platelet formation by monounsaturated and saturated sophorolipids under basic pH conditions
210. W. Debrouwer, T.S.A. Heugebaert, B.I. Roman, C.V. Stevens, *Adv. Synth. & Catalysis*, **357**, 2975 – 3006 (2015) (DOI: 10.1002/adsc.201500520). (selected as VIP; very important paper) (IF = 6,453) (Q1)
Homogeneous Gold-catalyzed cyclisation reactions of alkynes with N- and S-nucleophiles
209. F. De Bruyn, B. De Paepe, J. Maertens, J. Beauprez, J. De Cocker, S. Mincke, C. Stevens, M. De Mey, *Biotechnology and Bioengineering*, **112**, 1594 – 1603, (2015). (IF = 4,243) (Q1)
Development of an in vivo glucosylation platform by coupling production to growth: Production of phenolic glucosides by a glycosyltransferase of *Vitis vinifera*

208. A.S. Cuvier, F. Babonneau, J. Berton, C.V. Stevens, G.C. Fadda, I. Genois, P. Le Griel, G. Péhau-Arnaudet, N. Baccile, *Chem. – An Asian J.*, **10**, 2419 – 2426 (2015). (IF = 4,592) (Q1)
Synthesis of uniform, monodisperse, sophorolipid twisted ribbons
207. S. Seghers, F.E.A. Van Waes, A. Cukalovic, J.-C. Monbaliu, J. De Visscher, J.W. Thybaut, T.S.A. Heugebaert, C.V. Stevens, *J. Flow Chem.*, **5**, 220 - 227 (2015), DOI: 10.1556/1846.2015.00029. (IF = 1,942) (Q2)
Efficient continuous flow benzotriazole activation and coupling of amino acids
206. I. Wauters, H. Goossens, E. Delbeke, K. Muylaert, B.I. Roman, K. Van Hecke, V. Van Speybroeck, C.V. Stevens, *J. Org. Chem.*, **80**, 8046 -8054 (2015). (IF = 4,785) (Q1)
Beyond the diketopiperazine family with alternatively bridged brevianamide F analogues
205. E. Uitterhaegen, Q.H. Nguyen, K.A. Sampaio, C.V. Stevens, O. Merah, T. Talou, L. Rigal, Ph. Evon, *J. Am. Oil Chem. Soc.*, **92**, 1219 – 1233 (2015). (IF = 1,505) (Q2)
Extraction of coriander oil using twin-screw extrusion: Feasibility study and potential press cake applications
204. B.I. Roman, T. De Ryck, A. Patronov, S. Slavov, B.W.A. Vanhoecke, A.R. Katritzky, M.E. Bracke, C.V. Stevens, *Eur. J. Med. Chem.*, **101**, 627 – 639 (2015). (IF = 3,902) (Q1)
4-Fluoro-3',4',5'-trimethoxychalcone as a new anti-invasive agent. From discovery to initial validation in an *in vivo* metastasis model.
203. B.I. Roman, T. De Ryck, S. Verhasselt, M.E. Bracke, C.V. Stevens, *Bioorg. Med. Chem. Lett.*, **25**, 1021 – 1025 (2015). (IF = 2,923) (Q2)
Further studies on anti-invasive chemotypes: An excursion from chalcones to curcuminoids
202. T. De Ryck, E. Vanlancker, C. Grootaert, B. Roman, L.M. De Coen, I. Vandenberghe, C.V. Stevens, M. Bracke, T. Van de Wiele, B. Vanhoecke, *AMB Express*, **5**, article.27 (2015). (DOI 10.1186/s13568-015-0116-5). (IF = 2,167) (Q2)
Microbial inhibition of oral epithelial wound recovery: potential role for quorum sensing molecules?
201. E.I.P. Delbeke, B.I. Roman, G.B. Marin, K.M. Van Geem, C.V. Stevens, *Green Chem.*, **17**, 3373 -3377 (2015). (DOI: 10.1039/c5gc00120j). (IF = 8,506) (Q1)
A new class of antimicrobial biosurfactants: quarternary ammonium sophorolipids
200. M. Van Overtveldt, T.S.A. Heugebaert, I. Verstraeten, D. Geelen, C.V. Stevens, *Organic and Biomolecular Chemistry*, **13**, 5260 – 5264 (2015). (IF = 3,559) (Q1)
Phosphoramidate pyrabactin analogues as abscisic acid agonists
199. L.M. De Coen, M. Jatzak, K. Muylaert, S. Mangelinckx, C.V. Stevens, *Synthesis (feature article)*, **47**, 1227 – 1237 (2015). (IF = 2,652) (Q2)
Straightforward synthesis of functionalised furo[3,4-d]pyrimidine-2,4-diones
198. K. Muylaert, M. Jatzak, S. Mangelinckx, C.V. Stevens, *Current Medicinal Chemistry*, **22**, 1086 – 1125 (2015). (IF = 3,455) (Q1)
Synthesis of Pyrido-Annulated Seven-Membered N-Containing Heterocycles
197. M.E. Bracke, B.I. Roman, C.V. Stevens, L.M. Mus, V.S. Parmar, O. De Wever, M.M. Mareel, *JoVE*, <http://www.jove.com/video/52792>, *Journal of Visualized Experiments*, issue 100, article number e52792, June 2015. (IF = 1,113) (Q2)
Chick heart invasion assay for testing the invasiveness of cancer cells and the activity of potentially anti-invasive compounds
196. C. Maton, K. Van Hecke, C.V. Stevens, *New J. Chem.*, **29**, 461 – 468 (2015); DOI: 10.1039/c4nj01301h. (IF = 3,227) (Q2)
Peralkylated imidazolium carbonate ionic liquids: synthesis using dimethyl carbonate, reactivity and structure

195. D.S. Panmand, A.D. Tiwari, S.S. Panda, J.-C. Monbaliu, L.K. Beagle, A.M. Asiri, C.V. Stevens, P.J. Steel, C.D. Hall, A.R. Katritzky, *Tet. Lett.*, 55, 5898 – 5901 (2014). (IF = 2,379) (Q2)
New benzotriazole-based reagents for the phosphonylation of various N-, O-, and S-nucleophiles
194. T.S.A. Heugebaert, C.V. Stevens, O. Kappe, *ChemSusChem*, 8, 1648 - 1651 (2015). (IF = 7,116) (Q1)
Continuous flow singlet oxygen oxidation of 5-HMF
193. E.I.P. Delbeke, J. Van den Abeele, K.M. Van Geem, C.V. Stevens, Abstracts of papers of the American Chemical Society, 248, 65-IEC, Aug. 2014.
Innovative Sophorolipid Analogs as green surface-active compounds
192. H. Goossens, T.S.A. Heugebaert, B. Dereli, M. Van Overtveldt, O. Karahan, I. Dogan, M. Waroquier, V. Van Speybroeck, C.V. Stevens, *Eur. J. Org. Chem.*, 1211 – 1217 (2014). <http://dx.doi.org/10.1002/ejoc.201403457>. (IF = 3,065) (Q1)
Elucidating the structural Isomerism of fluorescent Strigolactone Analogue CISA-1
191. N. De Vos, C. Maton, C.V. Stevens, *ChemElectroChem*, 1, 1258 – 1270, 2014).
Electrochemical stability of ionic liquids: General influences and degradation mechanisms
190. S.M. Silva, K.A. Sampaio, R. Ceriani, R. Verhé, C.V. Stevens, W. De Greyt, A.J.A. Meirelles, *LWT- Food Science & Technol.*, 59, 1258 – 1264 (2014). (IF = 2,416) (Q1)
Effect of type of bleaching earth on the final color of refined palm oil
189. W. Debrouwer, R.A.J. Seigneur, T.S.A. Heugebaert, C.V. Stevens, *Chem. Comm.*, 51, 729 – 732 (2015). (IF = 6,567) (Q1)
Gold superacid-catalyzed preparation of benzo[c]thiophenes
188. K. Muylaert, S. Mangelinckx, M. Jatzak, L.M. De Coen, K. Van Hecke, C.V. Stevens, *Arkivoc*, vi, 139 - 155 (2014). (IF = 1,165) (Q3).
The Cu(OTf)₂ catalysed microwave assisted synthesis of a new scaffold, 7-aryl-7,8-dihydropyrido[4,3-c]pyridazin-5(6H)-one
187. M. Syrpas, E. Ruysbergh, C.V. Stevens, N. De Kimpe, S. Mangelinckx, *Beilstein J. Org. Chem.*, 10, 2539 – 2549, (2014). (IF = 4,721) (Q1).
Synthesis and biological evaluation of novel N- α -haloacylated homoserine lactones as quorum sensing modulators
186. S.J Andersen, T. Hennebel, S. Gildemyn, M. Coma, J. Desloover, J. Berton, J. Tsukamoto, C. Stevens, K. Rabaey, *Environ. Sci. & Technol.*, 48, 7135 - 7142 (2014). (IF = 5,330) (Q1)
Electrolytic membrane extraction enables production of fine chemicals from biorefinery sidestreams
185. M. Jatzak, K. Muylaert, L. De Coen, J. Keemink, B. Wuyts, P. Augustijns, C.V. Stevens, *Bioorg. Med. Chem.*, 22, 3947 – 3956 (2014). (IF = 2,793) (Q2)
Straightforward entry to pyrido[2,3-d]pyrimidine-2,4(1H, 3H)-diones and their ADME properties
184. K. Sampaio, N. Zyaykina, B. Wozniak, W. De Greyt, C.V. Stevens, *Eur. J. Lipid Sci. Technol.*, 117, 81 – 86 (2015). (IF = 1,953) (Q2)
Enzymatic degumming: degumming efficiency versus yield increase
183. I. Wauters, W. Debrouwer, C.V. Stevens, *Beilstein J. Org. Chem.*, 10, 1064 -1096 (2014). (IF = 4,721) (Q1)
Preparation of Phosphines through C-P bond Formation
182. K. Muylaert, M. Jatzak, B. Wuyts, L.M. De Coen, H. Loones, J. Keemink, D. García, S. Mangelinckx, P. Annaert, C.V. Stevens, *Synlett*, 25, 1443 - 1447 (2014). (IF = 2,419) (Q2)

- Synthesis and early ADME evaluation of a novel Scaffold, Tetrahydro-6*H*-pyrido[3,2*b*]azepin-6-one
181. F.E.A. Van Waes, S. Seghers, W. Dermaut, B. Cappuyns, C.V. Stevens, J. Flow Chem., 4, 118 - 124 (2014). doi: 10.1556/JFC-D-14-00006 (IF = 1,878) (Q2)
Efficient Continuous Flow Bromination of Methyl Sulfones and Methanesulfonates and Continuous Synthesis of Hypobromite
 180. F.E.A. Van Waes, W. Debrouwer, T.S.A. Heugebaert, C.V. Stevens, Arkivoc, *i*, 386 - 427 (2014), Account. (IF = 1,165) (Q3)
On the discovery and development of tandem 1,4- and 1,2-addition of phosphites to 1-azadienes
 179. N. Wybouw, W. Dermauw, L. Tirry, C. Stevens, M. Grbić, R. Feyereisen, Thomas Van Leeuwen, eLife (2014), *3*, e02365. DOI: 10.7554/eLife.02365, 17 pp. (IF = 9,322) (Q1)
A gene horizontally transferred from bacteria protects arthropods from host plant cyanide poisoning
 178. B.I. Roman, J.-C. Monbaliu, L. De Coen, S. Verhasselt, B. Schuddinck, E. Van Hoeylandt, C.V. Stevens, Eur. J. Org. Chem., 2594 - 2611(2014), DOI: 10.1002/ejoc.201301895. (IF = 3,065) (Q1)
Feruloylbenzotriazole and Weinreb Amide as Bioinspired Building Blocks: A Reactivity Study towards O-, N-, S-, and C-Nucleophiles
 177. W. Debrouwer, T.S.A. Heugebaert, C.V. Stevens, J. Org. Chem., 79, 4322 - 4331(2014). (IF = 4,721) (Q1)
Preparation of tetrasubstituted 3-Phosphonopyrroles through hydroamination: scope and limitations
 176. A.-S. Cuvrer, J. Berton, C. Stevens, G.C. Fadda, F. Babonneau, I.N.A. Van Bogaert, W. Soetaert, G. Pehau-Arnaudet, N. Baccile, Soft Matter, 10, 3950 - 3959 (2014). (IF = 4,029) (Q1)
pH-Triggered Formation of Nanoribbons from yeast-derived glycolipid Surfactants
 175. T.S.A. Heugebaert, M. Van Overtveldt, A. De Blicke, B. Wuyts, P. Augustijns, E. Ponce-Gómez, A. Rivera, D. De Groote, R.A. Lefebvre, P. Wouters, J. Devulder, C.V. Stevens, RSC Advances, 4, 2226 -2234 (2013). (IF = 3,708) (Q1)
Synthesis of 1-substituted epibatidine analogues and their *in vitro* and *in vivo* evaluation as $\alpha 4\beta 2$ nicotinic acetylcholine receptor ligands
 174. I. Wauters, A. De Blicke, K. Muylaert, T.S.A. Heugebaert, C.V. Stevens, Eur. J. Org. Chem., 1296-1304 (2014), DOI: 10.1002/ejoc.201301397. (IF = 3,065) (Q1)
Synthesis of novel epibatidine analogues having a 2-substituted 2-azabicyclo[2.2.2]octane skeleton
 173. F.-D. Boyer, A. de Saint Germain, J.-B. Pouvreau, G. Clavé, J.-P. Pillot, A. Roux, A. Rasmussen, S. Depuydt, D. Laouressgues, N. Frei dit Frey, T.S.A. Heugebaert, C.V. Stevens, D. Geelen, S. Goormachtig, C. Rameau, Molecular Plant, 7, 675 – 690 (2014). (IF = 6,337) (Q1)
New Strigolactone Analogs as Plant Hormones with low Activity in the Rhizosphere
 172. K.A. Sampaio, A.P. Ariseto, J.V. Ayala, C.V. Stevens, R. Ceriani, R. Verhé, A.J.A. Meirelles, Toxicology Letters, 221, S122 (2013) (IF = 3,355) (Q1)
Influence of the process conditions on the formation of 3-MCPD esters in palm oil
 171. C. Maton, N.R. Brooks, L. Van Meervelt, K. Binnemans, S. Schaltin, J. Fransaeer, C.V. Stevens, ChemPhysChem., 14, 3503 – 3516 (2013). (IF = 3,360) (Q1)
Synthesis and properties of alkoxy- and alkenyl-substituted peralkylated imidazolium ionic liquids
 170. W. Debrouwer, T. Heugebaert, K. Van Hecke, C.V. Stevens, J. Org. Chem., 78, 8232 - 8241 (2013). (IF = 4,638) (Q1)

- Synthetic entry into 1-phosphono-3-azabicyclo[3.1.0]hexanes
169. E. Liwarska-Bizukojc, C. Maton, C.V. Stevens, D. Gendaszewska, J. Chem. Technol. & Biotechnol., (2013), DOI 10.1002/jctb.4187. (IF = 2,494) (Q1)
Biodegradability and kinetics of removal of new peralkylated imidazolium ionic liquids
168. B.I. Roman, L.M. De Coen, S. Mortier, T. De Ryck, B.W.A. Vanhoecke, A.R. Katritzky, M. E. Bracke, C.V. Stevens Bioorg. Med. Chem. 21, 5054 - 5063 (2013). (IF = 2,951) (Q2)
Design, synthesis and structure-activity relationships of some novel, highly potent anti-invasive (E)- and (Z)-stilbenes
167. N. De Vos, C. Maton, P. De Vreese, N.R. Brooks, K. Binnemans, C.V. Stevens, Eur. J. Org. Chem., 3741 – 3750 (2013). (IF = 3,154) (Q1)
Ionic Liquids based on the 7-Azabicyclo[2.2.1]heptane Skeleton: Synthesis and Properties
166. L.N. Protasova, M. Bulut, D. Ormerod, A. Buekenhoudt, J. Berton, C.V. Stevens, Org. Process Res. Develop., 760 – 791 (2013). (IF = 2,549) (Q1)
Latest Highlights in Liquid-Phase Reactions for Organic Synthesis in Microreactors
165. S.M. Silva, K.A. Sampaio, R. Ceriani, R. Verhé, C. Stevens, W. De Greyt, A.J.A. Meirelles, J. Food Eng., 118, 341 – 349 (2013). (IF = 2,564) (Q1)
Adsorption of Carotenes and Phosphorus from Palm Oil onto Acid Activated Bleaching Earth: Equilibrium, kinetics and thermodynamics
164. C. Maton, N. De Vos, C.V. Stevens, Chem. Soc. Rev., 42, 5963 - 5977 (2013). (IF = 30,425) (Q1)
Ionic liquid thermal stabilities: decomposition mechanisms and analysis tools
163. D. Garcia, M. Jatzak, K. Muylaert, L. De Coen, C.V. Stevens, Eur. J. Org. Chem., 1732 – 1739 (2013). (IF = 3,154) (Q1)
Straightforward Microwave-assisted Synthesis of novel 5,8-Disubstituted-5,6,8,9-tetrahydro-4H,7H-2,5,6a,8,9a-pentazaphenalene-1,3-diones
162. M. Van der Steen, I. Bretz, S. Kabasci, C.V. Stevens, Industrial Crops and Products, 46, 238 - 245 (2013). (IF = 3,208) (Q1)
Synthesis of Biobased multivalent Cross-linkers from a Castor Oil-derived C22-Acyloin
161. J-C.M. Monbaliu, L.K. Beagle, F.K. Hansen, C.V. Stevens, C. McArdle, A.R. Katritzky, RSC Advances, 3, 4152 – 4155 (2013). (IF = 3,708) (Q1)
Capture of Benzotriazole-Based Mannich Electrophiles by CH-Acidic Compounds.
160. B.I. Roman, T.S.A. Heugebaert, M.E. Bracke, C.V. Stevens, Curr. Med. Chem., 20, 186 – 221 (2013). (IF = 3,715) (Q1)
Assessment of the Antineoplastic Potential of Chalcones in Animal Models
159. K. Shrestha, C.V. Stevens, B. De Meulenaer, J. Agric. Food Chem., 60, 7506 – 7512 (2012). (IF = 2,906)
Isolation and Identification of a potent radical scavenger (Canolol) from roasted high erucic mustard seed oil from Nepal and its formation during roasting
158. A. Rasmussen, T. Heugebaert, C. Matthys, R. Van Deun, F.-D. Boyer, S. Goormachtig, C. Stevens, D. Geelen, Molecular Plant, 6, 100 - 112 (2013).
A Fluorescent Alternative to the Synthetic Strigolactone GR24
157. J.-C. Monbaliu, G. Dive, C.V. Stevens, A.R. Katritzky, Journal of Chemical Theory and Computation, 9, 927 - 934 (2013).
Governing Parameters of Long-Range Intramolecular S-to-N Acyl Transfers within (S)-Acyl Isopeptides
156. A. De Blicke, S. Catak, W. Debrouwer, J. Drabowicz, K. Hemelsoet, T. Verstraelen, M. Waroquier, V. Van Speybroeck, C. V. Stevens, Eur. J. Org. Chem., 1058 - 1067 (2013).
Correction: Eur. J. Org. Chem., 1058-1067 (2013).

- Diphosphonylation of Aromatic Diazaheterocycles and Theoretical Rationalization of Product Yields
155. A. Cukalovic, J.-C.M. Monbaliu, Y. Eeckhout, C. Echim, R. Verhé, G. Heynderickx, C.V. Stevens, *Biomass and Bioenergy*, 56, 62 - 69 (2013).
Development, Optimization and Scale-up of Biodiesel Production from crude Palm Oil and effective Use in developing Countries
154. P. Van Nieuwenhuysse, P. Demaeght, W. Dermauw, M. Khalighi, C.V. Stevens, B. Vanholme, L. Tirry, P. Lümmlen, T. Van Leeuwen, *Pesticide Biochemistry and Physiology*, 104, 88 – 95 (2012). (IF = 2,111)
On the mode of action of bifenazate: New evidence for a mitochondrial target site
153. K. Ha, J.-C.M. Monbaliu, B. Williams, G.G. Pillai, C. E. Ocampo, M. Zeller, C.V. Stevens, A.R. Katritzky, *Org. & Biomol. Chem.*, 10, 8055 – 8058 (2012). (IF = 3,568)
A convenient synthesis of difficult medium-sized cyclic Peptides by Staudinger mediated ring-closure
152. J.-C.M. Monbaliu, L.K. Beagle, J. Kovacs, M. Zeller, C.V. Stevens, A.R. Katritzky, *RSC Advances*, 2, 8941 – 8945 (2012). (IF = 2,562)
En route towards α -benzotriazolyl nitroso derivatives
151. L.K. Beagle, F.K. Hansen, J.-C. M. Monbaliu, M.P. DesRosiers, A.M. Phillips, C.V. Stevens, A.R. Katritzky, *Synlett*, 2337 – 2340 (2012). (IF = 2,655)
Efficient Synthesis of 2,5-Diketopiperazines by Staudinger-Mediated Cyclization
150. F.E.A. Van Waes, J. Drabowicz, A. Cukalovic, C.V. Stevens, *Green Chem.*, 14, 2776 - 2779 (2012). (IF = 6,828)
Efficient and catalyst-free condensation of acid chlorides and alcohols using continuous flow.
149. A. Cukalovic, J.-C.M. Monbaliu, G.J. Heynderickx, C.V. Stevens, *J. Flow Chem.*, 2, 43 -46 (2012). (IF = 4,091)
User friendly and flexible Kiliani reaction on Ketoses using Microreaction Technology.
148. B.I. Roman, T. De Ryck, L. Dierickx, B.W.A. Vanhoecke, A.R. Katritzky, M. Bracke, C.V. Stevens, *Bioorg. Med. Chem.*, 20, 4812 – 4819 (2012). (IF = 2,903)
Exploration of the SAR of anti-invasive chalcones: Synthesis and biological evaluation of conformationally restricted analogues
147. C. Maton, N. De Vos, B.I. Roman, E. Vanecht, N.R. Brooks, K. Binnemans, S. Schaltin, J. Fransaer, C.V. Stevens, *ChemPhysChem.*, 13, 3146 – 3157 (2012). (IF = 3,349)
Continuous Synthesis of peralkylated Imidazoles and their transformation into Ionic Liquids with improved (electro)chemical Stabilities
146. T.S.A. Heugebaert, B.I. Roman, C.V. Stevens, *Chem. Soc. Rev.*, 41, 5626-5640 (2012). (IF = 24,892)
Synthesis of Isoindoles and related Iso-condensed heteroaromatic Pyrroles
145. E. De Gussem, P. Bultinck, M. Feledziak, J. Marchand-Brynaert, C.V. Stevens, W. Herrebout, *Physical Chemistry Chemical Physics*, 14, 8562 – 8571 (2012). (IF = 3,829)
Vibrational Circular Dichroism versus Optical Rotation Dispersion and Electronic Circular Dichroism for diastereoisomers: the stereochemistry of 3-(1'-hydroxyethyl)-1-(3'-phenylpropanoyl)-azetidine-2-one
144. K. Ha, M. Chahar, J.-C. Monbaliu, E. Todadze, F.K. Hansen, A.O. Oliferenko, C.E. Ocampo, D. Leino, A. Lillicotch, C.V. Stevens, A.R. Katritzky, *J. Org. Chem.*, 77, 2637 – 2648 (2012). (IF = 4,564)
Long-Range Intramolecular S-N Acyl Migration: A Study of the Formation of Native Peptide Analogues via 13-, 15-, and 16-Membered Cyclic Transition States
143. J.-C. Monbaliu, F.K. Hansen, L.K. Beagle, M.J. Panzner, P.J. Steel, E. Todadze, C.V. Stevens, A.R. Katritzky, *Chem. Eur. J.*, 18, 2632 - 2638 (2012). (IF = 5,831)

- A new Benzotriazole-mediated stereoflexible Gateway to Hetero-2,5-diketopiperazines
142. T.S.A. Heugebaert, S. De Corte, T. Sabbe, T. Hennebel, W. Verstraete, N. Boon, C.V. Stevens, *Tetrahedron Lett.*, **53**, 1410 – 1412 (2012). (IF = 2,397)
Biodeposited Pd/Au bimetallic Nanoparticles as a novel Suzuki Catalyst
141. V. Vandermeulen, M. Van der Steen, C.V. Stevens, G. Van Huylbroeck, *Biofpr*, **6**, 453 – 464 (2012). (IF = 4,035)
Industry Expectations regarding the Transition toward a Biobased Economy
140. B.I. Roman, M. Guégan, N. De Vos, C. Maton, C.V. Stevens, *Heterocycles*, **84**, 537-554 (2012). (IF = 1,077)
Synthesis and reactivity of novel 1*H*-isochromeno[3,4-*d*]imidazol-1-onium salts.
139. C. Midrier, M. Lantsoght, J.-N. Volle, J.-L. Pirat, D. Virieux, C.V. Stevens, *Tetrahedron Lett.*, **52**, 6693 – 6696 (2011). (IF = 2,683)
Hydrophosphonylation of Alkenes or Nitriles by double radical Transfer mediated by Titanocene/propylene oxide
138. J.-C.M.R. Monbaliu, M. Winter, B. Chevalier, F. Schmidt, Y. Jiang, R. Hoogendoorn, M. Kousemaker, C.V. Stevens, *Biores. Tech.*, **102**, 9304 - 9307 (2011). (IF = 4,980)
Effective Production of the Biodiesel Additive STBE by a Continuous Flow Process.
137. D. Aerts, T.F. Verhaeghe, B.I. Roman, C.V. Stevens, T. Desmet, W. Soetaert, *Carbohydrate Research*, **346**, 1860 - 1867 (2011). (IF = 2,332)
Transglucosylation potential of six sucrose phosphorylases towards different classes of acceptors.
136. J.-C. Monbaliu, J. Jorda, B. Chevalier, C.V. Stevens, B. Morvan, *Chimica oggi/Chemistry Today*, **29**, May/June, 50 - 52 (2011). (IF = 0,593)
Continuous-flow production of alkyl nitrites
135. P. Mortier, F. Van Waes, K. Masschelein, T.S.A. Heugebaert, C.V. Stevens, *Tetrahedron Lett.*, **52**, 4273 - 4276 (2011). (IF = 2,683)
Synthesis of N-vinyl 2,2-bisphosphonoaziridines from 1,1-bisphosphono-2-aza-1,3-dienes
134. A. De Blicck, C.V. Stevens, *Synlett*, 1748 – 1752 (2011). (IF = 2,71)
Synthesis of a variety of 2-Alkyl-2-azabicyclo[3.1.1]heptane-1-carbonitriles via a dynamic addition-intramolecular substitution sequence
133. J.-C. M.R. Monbaliu, K.G.R. Masschelein, C.V. Stevens, *Chem. Soc. Rev.*, **40**, 4708 - 4739 (2011). (IF = 28,760)
Electron-deficient 1- and 2-Azabuta-1,3-dienes: a Comprehensive Survey of their Synthesis and Reactivity
132. T.S.A. Heugebaert, L.P.D. Vervaecke, C.V. Stevens, *Org. Biomol. Chem.*, **9**, 4791 - 4794 (2011). (IF = 3,696)
Gold(III)chloride catalyzed Synthesis of 5-Alkylidenedihydrothiazoles
131. M. Van der Steen, M. Vilums, C.V. Stevens, *Arkivoc*, ix, 261-271 (2011). (IF = 1,252)
Synthesis of novel urethanes from a Castor oil derived C22-acyloin
130. Z.H. Kudzin, M.H. Kudzin, J. Drabowicz, C.V. Stevens, *Curr. Org. Chem.*, **15**, 2015 – 2071 (57) (2011). (IF = 3,064)
Aminophosphonic Acids - Phosphorus Analogues of Natural Amino Acids Part 1: Synthesis of α -aminophosphonic Acids
129. S. Van der Jeught, N. De Vos, K. Masschelein, I. Ghiviriga, C.V. Stevens, *Eur. J. Org. Chem.*, 5444 – 5453 (2010). (IF = 3.206)
Kharasch-type cyclizations of 2-substituted Indole derivatives surprisingly lead to spiroindoles

128. J.-C.M.R. Monbaliu, M. Winter, B. Chevalier, F. Schmidt, Y. Jiang, R. Hoogendoorn, M. Kousemaker, C.V. Stevens, *Chimica Oggi/Chemistry Today*, 28, July-August (2010). (IF = 0.405)
Feasibility study for industrial production of fuel additives from glycerol
127. J.-C. M.R. Monbaliu, A. Cukalovic, J. Marchand-Brynaert, C.V. Stevens, *Tet. Lett.*, 51, 5830 – 5833 (2010). (IF = 2.618)
Straightforward hetero Diels-Alder cycloadditions of nitroso dienophiles by microreactor technology
126. B.I. Roman, N. De Kimpe, C.V. Stevens, *Chem. Rev.*, 110, 5914 – 5988 (2010). (IF = 33.033)
Synthesis of β , γ , δ , ..., ω -Halogenated Ketones and Aldehydes
125. D.D. Claeys, C.V. Stevens, B.I. Roman, P. Van De Caveye, M. Waroquier, V. Van Speybroeck, *Org. Biomol. Chem.*, 8, 3644 – 3654 (2010). (IF = 3.451)
Experimental and computational Study of the ring opening of tricyclic Oxanorbornenes to polyhydro isoindole phosphonates
124. T.S.A. Heugebaert, B.I. Roman, A. De Blicck, C.V. Stevens, *Tetrahedron Lett.*, 51, 4189 – 4191 (2010). (IF = 3.011)
A safe production method for acetone cyanohydrin
123. A. Cukalovic, C.V. Stevens, *Green Chem*, 12, 1201 – 1206 (2010). (IF = 5.472)
Production of biobased HMF derivatives by reductive amination.
122. D.D. Claeys, T. Verstraelen, E. Pauwels, C.V. Stevens, M. Waroquier, V. Van Speybroeck *J. Phys. Chem. A.*, 114, 6879 - 6887 (2010). (IF = 2.732)
Conformational Sampling of Macrocyclic Alkenes using A Kennard Stone-based Algorithm
121. J. Drabowicz, D. Krasowska, A. Lopusinski, T.S.A. Heugebaert, C.V. Stevens, *Curr. Org. Chem.*, 14, 483-499 (2010). (IF = 2.920)
Cyclic Tri- and Pentavalent Amidoesters and Diamides with a Stereogenic Phosphorus Atom in Asymmetric Synthesis: Part I: Stoichiometric reagents.
120. S. Van der Jeught, K.G.R. Masschelein, C.V. Stevens, *Eur. J. Org. Chem.*, 1333 – 1338 (2010). (IF = 3.206)
Synthesis of phosphonobenzocarbaephems by intramolecular radical cyclization of haloaryl-substituted β -lactams
119. T. Heugebaert, J. Van Hevele, W. Couck, V. Bruggeman, S. Van der Jeught, K. Masschelein, C.V. Stevens, *Eur. J. Org. Chem.* 1017 - 1020 (2010). (IF = 4.002)
A straightforward Entry to 7-Azabicyclo[2.2.1]heptane-1-carbonitriles in the synthesis of novel Epibatidine Analogues.
118. S.K.C. Lin, C. Du, A.C. Blaga, M. Camarut, C. Webb, C.V. Stevens, W. Soetaert, *Green Chem.*, 12, 666 - 671 (2010). (IF = 5.472)
Novel resin-based vacuum distillation-crystallisation method for recovery of succinic acid crystals from fermentation broths
117. C. Echim, R. Verhé, W. De Greyt, C.V. Stevens, *Energy Environ. Sci.*, 2, 1131-1141 (2009). (IF: 8.500)
Production of biodiesel from side-stream refining products
116. A. De Blicck, K.G.R. Masschelein, F. Dhaene, E. Rozycka-Sokolowska, B. Marciniak, J. Drabowicz, C.V. Stevens, *Chem. Comm.*, 46, 258 - 260 (2010). (IF: 5.787)
One-pot tandem 1,4-1,2-addition of phosphites to quinolines
115. T. Heugebaert, C.V. Stevens, *Org. Lett.*, 11, 5018-5021 (2009). (IF: 5.420)
Gold(III)Chloride catalyzed synthesis of 1-Cyanoisoindoles
114. M. Van der Steen, C.V. Stevens, *ChemSusChem*, 2, 692 - 713 (2009). (IF: 4.767)

- Undecylenic acid, a valuable and physiologically active renewable Building Block from Castor Oil
113. S. Van der Jeught, C.V. Stevens, Chem. Rev., 109, 2672 - 2702 (2009). (IF: 34.284)
Direct Phosphonylation of Aromatic Azaheterocycles
 112. J. Jacobs, T. Nguyen Van, C.V. Stevens, P. Markusse, P. De Cooman, L. Maat, N. De Kimpe, Tetrahedron Lett., 50, 3698 - 3701 (2009). (IF: 2.660)
1,4-Dehydrochlorination of 1-(Haloalkyl)-3,4-dihydroisoquinolines as a New Route to Functionalized Isoquinolines
 111. F. Roncaglia, C.V. Stevens, F. Ghelfi, M. Van der Steen, M. Pattarozzi, L. De Buyck, Tetrahedron, 65, 1481 – 1487 (2009). (IF: 3.219)
A new Synthetic Route to Tyromycin A and its analogue from Renewable Resources
 110. E.I. Rabea, M.E.I. Badawy, W. Steurbaut, C.V. Stevens, Eur. Pol. J., 45, 237-245 (2009). (IF: 2.310)
In vitro Assesment of N-(Benzyl)chitosan derivatives against some plant pathogenic bacteria and fungi
 109. J. Jacobs, T. Nguyen Van, P. Markusse, C.V. Stevens, L. Maat, N. De Kimpe, Tetrahedron, 65, 1188 - 1192 (2009). (IF: 3.219)
New Synthesis of 1-[(3,4-dimethoxyphenyl)methoxymethyl]-6,7-dimethoxyisoquinoline (setigerine), a naturally occurring alkaloid, and some derivatives of papaverine.
 108. B. Singh, C.V. Stevens, D.R.J. Acke, V.S. Parmar, E.V. Van der Eycken, Tetrahedron Lett., 50, 15 – 18 (2009). (IF: 2.660)
Copper-mediated N- and O-arylations with Arylboronic Acids in a continuous flow Reactor: a new Avenue for efficient Scalability.
 107. D.D. Claeys, K. Moonen, B.I. Roman, V.N. Nemykin, V.V. Zhdankin, M. Waroquier, V. Van Speybroeck, C.V. Stevens, J. Org. Chem., 73, 7921 – 7927 (2008). (IF: 3,952)
Synthesis of Tricyclic Phosphonopyrrolidines via IMDAF: Experimental and Theoretical Investigation of the Observed Stereoselectivity.
 106. A. Cukalovic, C.V. Stevens, Biofuels, Bioproducts and Biorefining, 505 – 529 (2008). (IF: 2,909)
Feasibility of Production Methods for Succinic acid derivatives: a marriage of renewable resources and chemical technology.
 105. K.G.R. Masschelein, C.V. Stevens, Tetrahedron Lett., 49, 4336 – 4338 (2008). (IF: 2,538)
Synthesis of 1,1-Bisphosphono-2-aza-1,3-dienes, a new class of electron-deficient dienes.
 104. D.R.J. Acke, C.V. Stevens, B.I. Roman, Org. Proc. Res. Dev., 12, 921 - 928 (2008).
Microreactor Technology: Continuous Synthesis of 1H-Isochromeno[3,4-d]imidazol-5-ones (IF: 1,905)
 103. M. Van der Steen, C.V. Stevens, Y. Eeckhout, L. De Buyck, F. Ghelfi, F. Roncaglia, Eur. J. Lipid Sci. & Tech., 110, 846 - 852 (2008). (IF: 1,354)
Undecylenic Acid: a valuable renewable Building Block on route to Tyromycin A Derivatives
 102. N. Dieltiens, C.V. Stevens, K.G.R. Masschelein, G. Hennebel, S. Van der Jeught, Tetrahedron, 64, 4295 - 4303 (2008). (IF: 2,897)
Ring-closing Metathesis and Ring-closing Metathesis-Isomerisation Approach to 1-Phosphonylated 2-Benzazocines
 101. D. D. Claeys, C. V. Stevens, N. Dieltiens, Eur. J. Org. Chem., 171 - 179 (2008). (IF: 3,952)
The Formation of Trans-fused Macrocycles from N(3), N'(3)-polymethylenebishydantoins using Ring-Closing Metathesis
 100. B. Allaert, N. Ledoux, N. Dieltiens, H. Vander Mierde, C. V. Stevens, P. Van Der Voort, F. Verpoort, Catalysis Communications, 9, 1054 - 1059 (2008). (IF:2,791)
Secondary Metathesis with Grubbs Catalysts in the 1,4-polybutadiene System

99. S. Van der Jeught, C. V. Stevens, N. Dieltiens, *Synlett*, 3183 - 3187 (2007). (IF: 2,763)
Synthesis of Oxazinyl Analogues of Fosmidomycin using RCM Methodology
98. K.G.R. Masschelein, C.V. Stevens, *J. Org. Chem.*, 72, 9248 - 9252 (2007). (IF: 3,959)
Double Nucleophilic 1,2-Addition of Silylated Dialkyl Phosphites to 4-Phosphono-1-aza-1,3-dienes: Synthesis of γ -Phosphono- α -aminophosphonates
97. C. V. Stevens, E. Van Meenen, K. G. R. Masschelein, Y. Eeckhout, W. Hooghe, B. D'hondt, V. N. Nemykin, V. V. Zhdankin, *Tetrahedron Lett.*, 48, 7108 - 7111 (2007). (IF: 2,615)
A Copper-catalyzed Domino Radical Cyclization Route to Benzospiro-indolizidinepyrrolidinones
96. C. V. Stevens, E. Van Meenen, K. G. R. Masschelein, K. Moonen, A. De Blicq, J. Drabowicz, *Synlett*, 2549 - 2552 (2007). (IF: 2,763)
One-pot Tandem 1,4-1,2-Addition of Phosphites to α,β -Unsaturated Hydrazones
95. B. Vanderhoydonck, C. V. Stevens, *Tetrahedron*, 63, 7679 - 7689 (2007). (IF: 2,869)
Ring Transformations of Aziridinyl 2-phosphonates: Synthesis of 5-Phosphono-2-oxazolidinones and 5-Phosphono-2-imidazolidinones
94. M. E. Bracke, B. W. A. Vanhoecke, L. Derycke, S. Possemiers, A. Heyerick, C. V. Stevens, D. De Keukeleire, H. T. Depypere, W. Verstraete, S. Tomar, D. Sharma, C. Williams, A. K. Prasad, A. L. DePass, V. S. Parmar, *Anti-Cancer Agents in Medicinal Chemistry*, 8, 171 - 185 (2008).
Plant Polyphenolics as Anti-invasive Cancer Agents
93. K. G. R. Masschelein, C. V. Stevens, N. Dieltiens, D. D. Claeys, *Tetrahedron*, 63, 4712 - 4724 (2007). (IF: 2,869)
Exploiting the Regioselectivity of Pyroglutamate Alkylations for the Synthesis of 6-Azabicyclo[3.2.1]octanes and 4-Azabicyclo[3.3.0]octanes
92. N. Dieltiens, C. V. Stevens, *Org. Lett.*, 9, 465 - 468 (2007). (IF: 4,802)
Metal-Free Entry to Phosphonylated Isoindoles by a Cascade of 5-exo-dig Cyclization, a [1,3]-Alkyl Shift, and Aromatization under Microwave Heating
91. D. R. J. Acke, C. V. Stevens, *Green Chemistry*, 9, 386 - 390 (2007). (IF: 4,836)
A HCN-based Reaction under Microreactor Conditions: Industrially Feasible and Continuous Synthesis of 3,4-Diamino-1H-isochromen-1-ones
90. T. M. Rogge, C. V. Stevens, A. Colpaert, B. Levecke, K. Booten, *Biomacromolecules*, 8, 485 - 489 (2007). (IF: 4,169)
Use of Acyl Phosphonates for the Synthesis of Inulin Esters and their Use as Emulsion Stabilizing Agents
89. N. Dieltiens, K. Moonen, C.V. Stevens, *Chem. Eur. J.*, 13, 203 - 214 (2007). (IF: 5,330)
Enyne Metathesis-Oxidation Sequence for the Synthesis of 2-Phosphono Pyrroles, Proof of the "Ene-then-yne" Pathway.
88. A. R. Katritzky, M. Kuanar, D. A. Dobchev, B. W. A. Vanhoecke, M. Karelson, V. S. Parmar, C. V. Stevens, M. E. Bracke, *Bioorg. Med. Chem.*, 14, 6933 - 6939 (2006). (IF: 2,624)
QSAR modeling of anti-invasive activity of organic compounds using structural descriptors
87. B. Allaert, N. Dieltiens, N. Ledoux, C. Vercaemst, P. Van der Voort, C.V. Stevens, A. Linden, F. Verpoort, *J. Mol. Cat. A*, 260, 221 - 226 (2006). (IF: 2,511)
Synthesis and Activity for ROMP of bidentate Schiff base substituted second generation Grubbs Catalysts
86. N. Dieltiens, C.V. Stevens, *Synlett*, 2771 - 2776 (2006). (IF: 2,838)
Domino Ring-closing Enyne-Metathesis-Cross-Metathesis Approach to 1-Phosphonylated Benzazepines

85. E. Van Meenen, K. Moonen, A. Verwée, C.V. Stevens, *J. Org. Chem.*, **71**, 7903 - 7906 (2006). (IF: 3,790)
Tandem Addition of Trialkyl phosphites to α,β -Unsaturated Imines: A Comparison with Silylated Phosphites
84. N. Dieltiens, D.D. Claeys, C.V. Stevens, *J. Org. Chem.*, **71**, 3863 – 3868 (2006).
Synthesis of N(3),N'(3)-Polymethylene-bis-hydantoins and their Macrocyclic Derivatives (IF: 3,790)
83. V. Van Speybroeck, K. Moonen, K. Hemelsoet, C.V. Stevens, M. Waroquier, *J. Am. Chem. Soc.*, **128**, 8468 – 8478 (2006). (IF: 7,696)
Unexpected four-membered over six-membered Ring Formation during the Synthesis of Azaheterocyclic Phosphonates: Experimental and Theoretical Evaluation
82. K. Moonen, N. Dieltiens, C.V. Stevens, *J. Org. Chem.*, **71**, 4006 – 4009 (2006). (IF: 3,790)
Synthesis of 2-Phosphonopyrroles via a One-pot RCM/oxidation sequence
81. D.R.J. Acke, R.V.A. Orru, C.V. Stevens, *QSAR and Comb. Sci.*, **25**, 474 - 483 (2006). (IF: 1,987)
Continuous Synthesis of Tri- and Tetrasubstituted Imidazoles via a Multicomponent Reaction under Microreactor Conditions
80. D.R.J. Acke, C.V. Stevens, *Org. Proc. Res. Dev.*, **10**, 417 – 422 (2006). (IF:2,004)
Study of the Baylis-Hillman Reaction in a Microreactor Environment: First Continuous Production of Baylis-Hillman adducts
79. N. Dieltiens, D.D. Claeys, V.V. Zhdankin, V.N. Nemykin, B. Allaert, F. Verpoort, C.V. Stevens, *Eur. J. Org. Chem.*, 2649 - 2660 (2006). (IF: 2,769). Addition and correction: *Eur. J. Org. Lett.*, 3372 (2018). Doi 10.1002/ejoc.201800986.
The pyroglutamate hydantoin Rearrangement
78. E.I. Rabea, M.E.I. Badawy, T.M. Rogge, C.V. Stevens, W. Steurbaut, M. Höfte, G. Smagghe, *Pest Management Science*, **62**, 890 – 897 (2006). (IF: 1,428)
Enhancement of Fungicidal and Insecticidal Activity by reductive Alkylation of Chitosan
77. C.V. Stevens, N. Dieltiens, D.D. Claeys, *Org. Lett.*, **7**, 5347 (2005). Additions and Corrections (IF: 4,659)
Straightforward Ring Expansion of Pyroglutamates to Perhydro-1,3-diazepine-2,4-diones.
76. K. Moonen, E. Van Meenen, A. Verwée, C.V. Stevens, *Angew. Chem. Int. Ed.*, **44**, 7407 – 7411 (2005) (IF: 9,596)
One-pot tandem 1,4-1,2-Addition of Phosphites to α,β -unsaturated Imines for the Synthesis of Glutamic acid Analogues
75. E. Van Meenen, K. Moonen, D. Acke, C.V. Stevens, *Arkivoc*, (i) 31 – 45 (2006). (IF: 0,800)
Straightforward continuous Synthesis of α -Aminophosphonates under Microreactor Conditions
74. C.V. Stevens, E. Van Meenen, Y. Eeckhout, B. Vanderhoydonck, W. Hooghe, *Chem. Comm.*, 4827 - 4829 (2005) (IF: 4,426)
Synthesis of highly functionalised Spiro-indoles by a Halogen Atom Transfer Radical Cyclization
73. K. Moonen, C.V. Stevens, *Synthesis*, 3603 - 3612 (2005). (IF: 2,401)
One Pot Synthesis of *N*-Chloroacetyl 1-Aminoalkyl Phosphonates - Precursors of 4-Phosphono- β -lactams
72. N. Dieltiens, D.D. Claeys, B. Allaert, F. Verpoort, C.V. Stevens, *Chem. Comm.*, 4477 - 4478 (2005). (IF: 4,426)
Synthesis of 1,3-Dioxo-hexahydropyrido[1,2-*c*][1,3]diazepine carboxylates, a new bicyclic skeleton formed by ring-expansion RCM methodology
71. T.M. Rogge, C.V. Stevens, A. Vandamme, K. Booten, B. Levecke, C. D'hooge, B. Haelterman, J. Corthouts, *Biomacromolecules*, **6**, 1992 – 1997 (2005). (IF:3,618)

- Application of Ethoxylated Inulin in Water-blown Polyurethane Foams
70. N. Dieltiens, C.V. Stevens, K.G.R. Masschelein, T. Rammeloo, *Tetrahedron*, **61**, 6749 – 6756 (2005). (IF: 2,610)
[1,2] Boc Migration during Pyroglutamate Alkylations
69. M.E.I. Badawy, E.I. Rabea, T.M. Rogge, C.V. Stevens, W. Steurbaut, M. Höfte, G. Smagghe, *Polymer Bulletin*, **54**, 279 - 289 (2005). (IF: 0,904)
Fungicidal and Insecticidal Activity of O-Acyl Chitosan Derivatives
68. R.S. Bon, B. van Vliet, N.E. Sprenkels, R.F. Schmitz, F.J.J. de Kanter, C.V. Stevens, M. Swart, F.M. Bickelhaupt, M.B. Groen, R.V.A. Orru, *J. Org. Chem.*, **70**, 3542 - 3553 (2005). (IF: 3,675)
Multicomponent Synthesis of 2-Imidazolines
67. C.V. Stevens, N. Dieltiens, D.D. Claeys, *Org. Lett.*, **7**, 1117 - 1119 (2005). (IF: 4,368)
Straightforward Ring Expansion of Pyroglutamates to Perhydro-1,3-diazepine-2,4-diones
66. C.V. Stevens, G. Smagghe, T. Rammeloo, N. De Kimpe, *J. Agric. Food. Chem.*, **53**, 1945 - 1948 (2005). (IF: 2,507)
Insect repellent/antifeedant Activity of 2,4-Methanoproline and Derivatives against a leaf- and seed feeding Pest Insect
65. E.I. Rabea, M.E.I. Badawy, T.M. Rogge, C.V. Stevens, M. Höfte, W. Steurbaut, G. Smagghe, *Pest Management Science*, **61**, 951 - 960 (2005). (IF: 1,175)
Insecticidal and fungicidal Activity of new synthesized Chitosan Derivatives
64. B. Vanderhoydonck, C.V. Stevens, *J. Org. Chem.*, **70**, 191 - 198 (2005). (IF: 3,675)
Conjugate Addition to 1-Phosphono-2-aza-1,3-butadienes: Synthesis of Phosphonylated γ -lactams
63. N. Dieltiens, C.V. Stevens, B. Allaert, F. Verpoort, *Arkivoc*, (i) 92 - 97 (2005). (IF: 0,694)
A new protocol for Pyrrole Synthesis by a Combination of Ringclosing Metathesis and *in situ* oxidative Aromatization
62. P. Van der Veken, I. El Sayed, J. Joossens, C.V. Stevens, K. Augustyns, A. Haemers, *Synthesis*, 634 – 638 (2005). (IF: 2,401)
Lewis Acid Catalyzed Synthesis of N-Protected Diphenyl 1-Aminoalkylphosphonates
61. Y. Dejaegher, B. Denolf, C.V. Stevens, N. De Kimpe, *Synthesis*, 193 – 198 (2005). (IF: 2,401)
The halogen-lithium Exchange Reaction of 3,3-Dichloro-2-azetidinones: Application to the Synthesis of *cis*-4-Aryl-3-chloro-2-azetidinones
60. T.F. Tadros, Vandamme A., Booten, K., Leveck, B., Stevens, C.V., *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **250**, 133 – 140 (2004). (IF: 1,513)
Stabilisation of emulsions using hydrophobically modified inulin (polyfructose)
59. N. Dieltiens, C.V. Stevens, D. De Vos, B. Allaert, R. Drozdak, F. Verpoort, *Tetrahedron Lett.*, **45**, 8995 – 8998 (2004). (IF: 2,484)
Pyrrole Synthesis using a tandem Grubbs' carbene-RuCl₃ catalytic System
58. K. Moonen, I. Laureyn, C.V. Stevens, *Chem. Rev.*, **104**, 6177 - 6215 (2004). (Review). (IF: 20,233)
Synthetic Methods for Azaheterocyclic Phosphonates and their Biological Activity
57. T.M. Rogge, C.V. Stevens, *Biomacromolecules*, **5**, 1799 - 1803 (2004). (IF: 3,299)
Facilitated Synthesis of Inulin Esters by Transesterification
56. I. Laureyn, C.V. Stevens, R. Kowalczyk, *Synlett*, 1823 - 1825 (2004). doi:[10.1055/s-2004-829559](https://doi.org/10.1055/s-2004-829559) (IF: 2,738)
Entry to γ -Amino- α -bromo-alkenylphosphonates by a Bromination – Elimination Sequence
55. T.F. Tadros, A. Vandamme, B. Leveck, K. Booten, C.V. Stevens, *Advances in Colloid and Interface Science*, **108**, 207 – 226 (2004). (IF:4,033)
Stabilization of Emulsions using Polymeric Surfactants based on Inulin

54. G. Verniest, S. Boterberg, J. Colpaert, T. Van Thienen, C.V. Stevens, N. De Kimpe, *Synlett*, 1273 - 1275 (2004) (IF: 2,738)
Synthesis of 2-substituted Cyclobutanones as γ -irradiation marker products of lipid-containing Foods
53. G. Verniest, S. Boterberg, F. Bombeke, C.V. Stevens, N. De Kimpe, *Synlett*, 1059 – 1063 (2004). (IF: 2,738)
New ring expansion of Cyclobutanones: Synthesis of Pyrrolinones, Pyrrolidines and Pyrroles
52. B. Vanderhoydonck, C.V. Stevens, *Synthesis*, 722 – 734 (2004). (IF: 2,203)
Synthesis of 1-Phosphono-2-aza-1,3-dienes and scope of their aziridination
51. M.E.I. Badawy, E.I. Rabea, T.M. Rogge, C.V. Stevens, G. Smagghe, W. Steurbaut, M. Höfte, *Biomacromolecules*, 5, 589 – 595 (2004). (IF: 3,299)
Synthesis and Fungicidal Activity of New N,O-acyl Chitosan Derivatives
50. T. Rammeloo, C.V. Stevens, B. Soenen, *Eur. J. Org. Chem.*, 1271 – 1279 (2004). (IF: 2,426)
Synthesis of new constrained tricyclic Amines and tricyclic Aminophosphonates containing the 2-azatricyclo[3.3.0.0^{3,6}]octane Skeleton
49. T.M. Rogge, C.V. Stevens, K. Booten, B. Levecke, A. Vandamme, C. Vercauteren, B. Haelterman, J. Corthouts, C. D'hooghe, *Topics in Catalysis*, 27, 37 - 45 (2004). (IF:2,493)
Improved Synthesis and physicochemical Properties of alkoxyated Inulin
48. E.I. Rabea, M.E.I. Badawy, C.V. Stevens, G. Smagghe, W. Steurbaut, *Biomacromolecules*, 4, 1457 – 1465 (2003). (Review) (IF: 2,824)
Chitosan as antimicrobial agent : Applications and mode of Action
47. I. Laureyn, C.V. Stevens, M. Soroka, P. Malysa, *Arkivoc*, 102 – 115 (iv) (2003). (IF: 0,392)
Synthesis of γ -amino- α,β -unsaturated Phosphonates via a substitution-elimination Sequence of Dibromophosphonates
46. T. Rammeloo, C.V. Stevens, *New. J. Chem.*, 27, 668 – 671 (2003). (IF: 2,272)
Synthesis of the new 2-Azatricyclo[3.3.0.0^{3,6}]octane Skeleton as a constrained Proline Analogue
45. F. Ghelfi, C.V. Stevens, I. Laureyn, E. Van Meenen, T.M. Rogge, L. De Buyck, K.V. Nikitin, R. Grandi, E. Libertini, U.M. Pagnoni, L. Schenetti, *Tetrahedron*, 59, 1147 – 1157 (2003). (IF: 2,641)
Synthesis of 5-methoxylated 3-Pyrrolin-2-ones via the Rearrangement of chlorinated Pyrrolidin-2-ones
44. C.V. Stevens, W. Vekemans, K. Moonen, T. Rammeloo, *Tetrahedron Lett.*, 44, 1619 – 1622 (2003). (IF: 2,326)
Synthesis of 4-Phosphono- β -lactams via phosphite Addition to Acyliminium salts
43. T. Rammeloo, C.V. Stevens, N. De Kimpe, *J. Org. Chem.*, 67, 6509 – 6513 (2002). (IF: 3,217)
Synthesis of 2,4-Methanoproline derivatives via an addition intramolecular substitution Sequence
42. C.V. Stevens, G. Van Heecke, C. Barbero, K. Patora, N. De Kimpe, R. Verhé, *Synlett*, 1089 – 1092 (2002). (IF:2,695)
Synthesis of substituted Cyclopropylphosphonates by Michael Induced Ring closure (MIRC) Reactions
41. T. Rammeloo, C.V. Stevens, *Chem. Commun.*, 250 - 251 (2002). (IF: 4,038)
A new and short Method for the Synthesis of 2,4-Methanoproline
40. C.V. Stevens, A. Meriggi, M. Peristeropoulou, P.P. Christov, K. Booten, B. Levecke, A. Vandamme, N. Pittevels, T.F. Tadros, *Biomacromolecules*, 2, 1256 - 1259 (2001). (IF: 1,913)

- Polymeric Surfactants based on Inulin, a Polysaccharide extracted from Chicory. Part 1 : Synthesis and Interfacial Properties
39. C.V. Stevens, T. Rammeloo, N. De Kimpe, *Synlett*, 1519 – 1522 (2001). (IF: 2,465)
Directing the Regioselectivity of the Alkylation of Pyroglutamate Carbamates by Formation of a Stable Counter-ion Complex
 38. C.V. Stevens, M. Peristeropoulou, N. De Kimpe, *Tetrahedron*, 57, 7865 - 7870 (2001). (IF: 2,276)
Synthesis of 2,5-difunctionalised-3,3-dimethylpiperidines via ω -halogenated Imines
 37. C.V. Stevens, B. Kesteleyn, E. Rosas Alonso, N. De Kimpe, *Tetrahedron*, 57, 7685 – 7692 (2001). (IF:2,276)
Synthesis of 3-Chloroanthranilates from α,γ,γ -Trichloro- β -iminoesters
 36. F. Bellesia, L. De Buyck, M.V. Colucci, F. Ghelfi, I. Laureyn, E. Libertini, A. Mucci, U.M. Pagnoni, A. Pinetti, T.M. Rogge, C.V. Stevens, *Tetrahedron Lett.*, 42, 4573 - 4575 (2001). (IF: 2,280)
Unusual Access to 5-Methoxy or 5,5-Dimethoxy-4-methyl-3-pyrrolin-2-ones from Chlorinated 4-Methylpyrrolidin-2-ones
 35. C.V. Stevens, B. Vanderhoydonck, *Tetrahedron*, 57, 4793 – 4800 (2001). (IF: 2,276)
Use of Acylphosphonates for the Synthesis of α -Chlorinated Carboxylic Acids and for α,α' -Dichloro Dicarboxylic Acids and their Derivatives
 34. C.V. Stevens, A. Meriggi, K. Booten, *Biomacromolecules*, 2, 1 - 16 (2001). (Review). (IF: 1,913)
Chemical Modification of Inulin, a Valuble Renewable Resource, and its Industrial Applications
 33. C. Stevens, M. Gallant, N. De Kimpe, *Tetrahedron Lett.*, 40, 3457 – 3460 (1999). (IF: 2,400)
Synthesis of 1-Phosphono-2-aza-1,3-dienes and their Conversion into 1-Vinyl-2-phosphonoaziridines
 32. L. Van Puyvelde, J. Bosselaers, C. Stevens, N. De Kimpe, J. Van Gestel, P. Van Damme, *J. Agric. and Food Chem.*, 47, 2116 – 2119 (1999). (IF: 1,453)
Phytotoxins from the Leaves of *Laggera decurrens*
 31. B. Kesteleyn, E.R. Alonso, C. Stevens, Y. Dejaegher, M. Peristeropoulou, T.N. Van, O. Kulinkovich, N. De Kimpe, *Tetrahedron*, 55, 4153 – 4166 (1999). (IF: 2,121)
A New Synthesis of Alkyl 1-Alkyl-2-methylpyrrole-3-carboxylates by Ring Transformation of 2-Chloro-2-acetimidoilbutyrolactones
 30. C. Stevens, L. De Buyck, N. De Kimpe, *Tetrahedron Lett.*, 39, 8739 - 8742 (1998). (IF: 2,617)
The Acylphosphonate Function as an Activating and Masking Moiety for the α -Chlorination of Fatty Acids
 29. C. Stevens, A. Verbeke, N. De Kimpe, *Synlett*, 180 - 182 (1998). (IF: 2,752)
A Convenient Synthesis of Dialkyl[[2-(Bromomethyl)aziridin-1-yl]methyl]phosphonates, New Heterocyclic β -Azaphosphonates
 28. N. De Kimpe, K. A. Tehrani, C. Stevens, P. De Cooman, *Tetrahedron*, 53, 3693 - 3706 (1997).
Synthesis of 3-Halopyrroles
 27. C. Stevens, N. De Kimpe, *J. Org. Chem.*, 61, 2174 - 2178 (1996).
A New Entry into 2-Azabicyclo[2.1.1]hexanes via 3-(Chloromethyl)cyclobutanone
 26. N. De Kimpe, C. Stevens, M. Virag, *Tetrahedron*, 52, 3303 – 3312 (1996).
Rearrangement of α,δ -Dichloroaldimines to 2-Formylpyrrolidines: α,α -Azacyclobis-alkylation of Aldehydes

25. A.R. Katritzky, I.B. Puschmann, C.V. Stevens, A.P. Wells, *J. Chem. Soc. Perkin Trans 2*, 1645 – 1649 (1995).
The first examples of the Addition of Heterocyclic NH to unactivated Olefins
24. A.R. Katritzky, J. Li, C.V. Stevens, *J. Org. Chem.*, 60, 3401 - 3404 (1995).
Facile Synthesis of 2-Substituted Indoles and Indolo[3,2-b]carbazoles from 2-(Benzotriazol-1-ylmethyl)indole
23. A.R. Katritzky, C.V. Stevens, G.F. Zhang, J. Jiang, N. De Kimpe, *Heterocycles*, 40, 231 - 240 (1995).
Imidoylbenzotriazoles : a stable alternative to Imidoyl chlorides
22. N. De Kimpe, C. Stevens, *Tetrahedron*, 51, 2387 - 2402 (1995).
Syntheses of the Principal Bread Flavor Component, 6-Acetyl-1,2,3,4-tetrahydropyridine, and Acetal Protected Precursors
21. A.R. Katritzky, R. Mazurkiewicz, C.V. Stevens, M.F. Gordeev, P.J. Steel, *Synthetic Communications*, 24, 2955 – 2972 (1994).
A Convenient two-pot Conversion of Aldehydes to sec-Alkyl Primary Amines : Reactions of α -(Benzotriazol-1-yl)alkyliminophosphoranes with Organocerium (III) or Grignard Reagents
20. A.R. Katritzky, R. Mazurkiewicz, C.V. Stevens, M.F. Gordeev, *J. Org. Chem.*, 59, 2740 – 2742 (1994).
A New and Safe Approach to N-Vinyliminophosphoranes
19. A.R. Katritzky, J. Li, C.V. Stevens, *Org. Prep. Proc. Int.*, 26, 439 - 444 (1994).
An Alternative Synthesis of Aryl and Heteroaryl Bromides from Activated Aryl Hydroxy Compounds
18. C.V. Stevens, N.G. De Kimpe, A.R. Katritzky, *Tetrahedron Letters*, 35, 3763 – 3766 (1994).
 α,α -Cyclobisalkylation of Aldehydes via ω -Haloaldimines
17. A.R. Katritzky, A.V. Ignatchenko, X. Lan, H. Lang, C.V. Stevens, A. Opitz, R. Koch, E. Anders, *Tetrahedron*, 50, 6005 - 6016 (1994).
Benzotriazole-assisted β -Lithiation of Vinyl Ethers
16. A.R. Katritzky, V. Gupta, C. Garot, C. Stevens, M.F. Gordeev, *Heterocycles*, 38, 345 - 356 (1994).
Benzotriazolylalkylation of Aromatic Compounds by 1-Benzenesulfonylbenzotriazole and Synthesis of Triarylmethanes
15. N. De Kimpe, M. Keppens, C. Stevens, *Tetrahedron Lett.*, 34, 4693 - 4696 (1993).
Synthesis of Cyclic Imines via Ethylenetetramethyldisilyl-Protected ω -Aminoimines. Application to the Synthesis of Alkaloids
14. N. De Kimpe, C. Stevens, M. Keppens, *J. Agric. Food Chem.*, 41, 1458 – 1461 (1993).
Synthesis of 2-Acetyl-1-Pyrroline, the Principal Rice Flavor Component
13. D. Enders, J. Tiebes, N. De Kimpe, M. Keppens, C. Stevens, G. Smagghe, O. Betz, *J. Org. Chem.*, 58, 4881 - 4884 (1993).
Enantioselective Synthesis and Determination of the Configuration of Stenusine, the Spreading Agent of the Beetle *Stenus comma*
12. N. De Kimpe, C. Stevens, *J. Org. Chem.*, 58, 2904 – 2906 (1993).
A Convenient Synthesis of 6-Acetyl-1,2,3,4-tetrahydropyridine, the principle Bread Flavor Component
11. C. Stevens, N. De Kimpe, *J. Org. Chem.*, 58, 132 – 134 (1993).
Synthesis of Stenusine, the Spreading agent of the Beetle *Stenus comma*
10. N. De Kimpe, C. Stevens, *Synthesis*, 89 – 92 (1993).
Synthesis of 2-Alkyl- and 2-Arylazetidines from β -Chloroimines
9. N. De Kimpe, C. Stevens, *Bull. Soc. Chim. Belg.*, 101, 569 - 578 (1992).
Synthesis of Azaheterocycles from functionalized Imines

8. N. De Kimpe, W. De Cock, C. Stevens, *Tetrahedron*, 48, 2739 - 2760 (1992).
Synthesis and Reactivity of α -Halomethyl Ketimines
7. N. De Kimpe, W. Coppens, A. Krauze, B. De Corte, C. Stevens, J. Welch, *Bull. Soc. Chim. Belg.*, 101, 237 – 241 (1992).
A facile Method for the α -Monochlorination of Aldimines and Aldehydes
6. N. De Kimpe, P. Sulmon, C. Stevens, *Tetrahedron*, 47, 4723 - 4738 (1991).
Synthesis of 1-Amino-2,2-Dialkylcyclopropanecarboxylic acids from β -chloroaldimines
5. C. Stevens, N. De Kimpe, *Synlett*, 351 – 352 (1991).
A convenient Synthesis of 1,5-Dialkyl-1,2,3,4-tetrahydropyridines. Synthons for Alkaloid Synthesis
4. N. De Kimpe, C. Stevens, *Tetrahedron*, 47, 3407 – 3416 (1991).
A convenient Method for the Synthesis of β -Chloramines by Electrophilic Reduction of α -Chlorimines
3. N. De Kimpe, C. Stevens, *Tetrahedron*, 46, 6753 – 6770 (1990).
Silver Ion Induced Reactions of α -Haloimines
2. N. De Kimpe, C. Stevens, *Bull. Soc. Chim. Belg.*, 99, 41 - 45 (1990).
Oxidation of Aldehydes to α,β -unsaturated Aldehydes via α -chloroaldimines
1. C. Stevens, N. De Kimpe, *Org. Prep. Proc. Int.*, 22, 589 - 595 (1990).
Synthesis of α -Chloro- α,β -unsaturated Aldimines and of α -Chloro- α,β -unsaturated Aldehydes