

Curriculum Vitae: Prof. Dr. ing. Timothy Noël

Personal Information

Name	Timothy Noël
Work Address	University of Amsterdam, Van 't Hoff Institute for Molecular Sciences (HIMS), Science Park 904 (C2.223), 1098 XH Amsterdam, The Netherlands.
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Website	www.NoelResearchGroup.com
Date of Birth	[REDACTED]
Place of Birth	Aalst
Nationality	Belgian
Civil status	[REDACTED]

Professional Experience

2020 – current	Full Professor Chair of Flow Chemistry Group Van 't Hoff Institute for Molecular Sciences (HIMS) University of Amsterdam (UvA), Amsterdam, The Netherlands
2017 – 2020	Associate Professor (UHD 1) Head of Micro Flow Chemistry and Synthetic Methodology Department of Chemical Engineering and Chemistry Eindhoven University of Technology, Eindhoven The Netherlands
2012 – 2017	Assistant Professor Micro Flow Chemistry and Process Technology Department of Chemical Engineering and Chemistry Eindhoven University of Technology, Eindhoven The Netherlands
2013 – 2020	10% Research Professor Department of Organic Chemistry (S4) Ghent University, Ghent Belgium

2010 – 2011 Post-doctoral Research: Fulbright Scholar
 Department of Chemistry
 Novartis – MIT Center for Continuous Manufacturing
 Massachusetts Institute of Technology (MIT), Cambridge
 United States of America
 Host: Prof. Dr. Stephen L. Buchwald
 Collaboration with group of Prof. Dr. Klavs F. Jensen (Department of Chemical Engineering)
 Research Topic: *Cross-coupling reactions in continuous-flow – Towards a continuous manufacturing of pharmaceuticals.*

Education

2005 – 2009 Ph.D. in Sciences – Chemistry: BOF Research Fellow
 Laboratory for Organic and Bioorganic Synthesis
 Department of Chemistry
 Ghent University, Ghent
 Belgium
 Supervisor: Prof. Dr. Johan Van der Eycken
 Ph.D. Thesis: *Synthesis and application of chiral dienes and chiral imidates for asymmetric transition metal catalysis.*

2005 – 2008 Doctoral School
 Department of Chemistry
 Ghent University, Ghent
 Belgium

Graduated with marks equivalent to high distinction.

Courses: *Organometallic Chemistry; Asymmetric Synthesis; Bioorganic Chemistry; Advanced NMR; Advanced Chromatography; Advanced Academic English Writing Skills; Management of Research and Development in University and Industry.*

2004 – 2005 Predoctoral Training in Chemistry
 Department of Chemistry
 Ghent University, Ghent
 Belgium

Graduated with marks equivalent to high distinction – First of the year.

2000 – 2004 Industrial Chemical Engineer (M.Sc.)
 Department of Chemical Engineering
 KaHo Sint-Lieven, Ghent
 Belgium

M.Sc. Thesis: *The synthesis of a fluorescence label with improved spectral properties for labeling D10-p5-2k as an HIV-1 inhibitor.*

Graduated with high distinction – First of the year.

1994 – 2000 High School – Latin-Sciences

Sint-Jozefscollege, Aalst
Belgium

Recipient of the Excellence Award and Science Award.

Graduated with high distinction – First of the year.

Scientific Awards

- 2022** - ACS Sustainable Chemistry & Engineering Lectureship award
- 2022** - ERC Consolidator Grant, 2 M€
- 2021** - KNCV Golden Medal
- 2020** - IUPAC-ThalesNano Prize for Flow Chemistry
- 2019** - Hoogewerff Jongerenprijs
- 2017** - DECHEMA award “in recognition of ground-breaking work on continuous photo-chemical conversion in microfluidic systems”.
- 2016** - “Thieme Chemistry Journal Award” for promising young professors at the beginning of their career.
- 2015** - VIDI grant (Netherlands Institute for Scientific Research, NWO), 800 k€.
- 2013** - Marie Curie Career Integration Grant, 100 k€.
- 2012** - VENI grant (Netherlands Institute for Scientific Research, NWO), 250 k€.
- Finalist European Young Chemist Award, EuCheMS Conference.
- 2011** - Incentive Award for Young Researchers 2011 (Comité de Gestion du Bulletin des Sociétés Chimiques Belges), 2,500 €.
- 2010** - Fulbright – Hays Award.
- 2006** - Best poster presentation in the chemistry section at the Ph.D. Symposium, Ghent University, 250 €.
- 2004** - Extraordinary Research Fund Fellowship (BOF fellowship, Ghent University).
- 2000** - Excellence Award at Sint-Jozefscollege, Aalst, Belgium.
- Science Award at Sint-Jozefscollege, Aalst, Belgium.

Research Publications

Google Scholar: *h-index* = 53; *Total citations* = 10,150 (updated on 27/04/2022)

- 188** Accelerating the Photocatalytic Atom Transfer Radical Addition Reaction Induced by Bi₂O₃ with Amines: Experiment and Computation.
Riente, P.; Fianchini, M.; Pericàs, M. A.; Noel, T. *ChemCatChem*. **2022**, DOI: 10.1002/cctc.202200319.
- 187** Direct Synthesis of α -Sulfonylated Ketones under Electrochemical Conditions.
de Souza, A. A. N.; Bartolomeu, A. de A.; Brocksom, T. J.; Noel, T.; Oliveira, K.T. *J. Org. Chem.* **2022**, DOI: 10.1021/acs.joc.2c00147.
- 186** Photocatalytic generation of ligated boryl radicals from tertiary amine-borane complexes: An emerging tool in organic synthesis.
Capaldo, L.; Noel, T.; Ravelli, D. *Chem Catalysis* **2022**, DOI: 10.1016/j.checat.2022.03.005.
- 185** Electrochemical Hydroxylation of Electron-Rich Arenes in Continuous-Flow.
Kooli, A.; Wesenberg, L.; Beslać, M.; Krech, A.; Lopp, M.; Noel, T.; Oseka, M. *Eur. J. Org. Chem.* **2022**, DOI: 10.1002/ejoc.202200011.
- 184** Scale-Up of a Heterogeneous Photocatalytic Degradation Using a Photochemical Rotor–Stator Spinning Disk Reactor.
Chaudhuri, A.; Zondag, S. D. A.; Schuurmans, J. H. A.; van der Schaaf, J.; Noel, T. *Org. Process Res. Dev.* **2022**, 26, 1279-1288.
- 183** Boosting the valorization of biomass and green electrons to chemical building blocks: A study on the kinetics and mass transfer during the electrochemical conversion of HMF to FDCA in a microreactor.
Delparish, A.; Uslu, A.; Cao, Y.; de Groot, T.; van der Schaaf, J.; Noel, T.; Neira d’Angelo, M. F. *Chem. Eng. J.* **2022**, 438, 135393.
- 182** The promise and pitfalls of photocatalysis for organic synthesis.
Noel, T.; Zysman-Colman, E. *Chem Catalysis* **2022**, 2, 468-476.
- 181** Accelerated and Scalable C(sp³)–H Amination via Decatungstate Photocatalysis Using a Flow Photoreactor Equipped with High-Intensity LEDs.
Wan, T.; Wen, Z.; Laudadio, G.; Capaldo, L.; Lammers, R.; Rincón, J. A.; García-Losada, P.; Mateos, C.; Frederick, M. O.; Broersma, R.; Noel, T. *ACS Central Sci.* **2022**, 8, 51-56.
- 180** On the performance of liquid-liquid Taylor flow electrochemistry in a microreactor – A CFD study.
Cao, Y.; Padoin, N.; Soares, C.; Noel, T. *Chem. Eng. J.* **2022**, 427, 131443.
- 179** A Meso-Scale Ultrasonic Milli-Reactor Enables Gas-Liquid-Solid Photocatalytic Reactions in Flow.
Dong, Z.; Zondag, S. D. A.; Schmid, M.; Wen, Z.; Noel, T. *Chem. Eng. J.* **2022**, 428, 130968.
- 178** Technological Innovations in Photochemistry for Organic Synthesis: Flow Chemistry, High-Throughput Experimentation, Scale-up, and Photoelectrochemistry.
Buglioni, L.; Raymenants, F.; Slattery, A.; Zondag, S. D. A.; Noel, T. *Chem. Rev.* **2022**, 122, 2752-2906.
- 177** Modular allylation of C(sp³)–H bonds by combining decatungstate photocatalysis and HWE olefination in flow.
Capaldo, L.; Bonciolini, S.; Pulcinella, A.; Nuno, M.; Noel, T. *ChemRxiv*. **2022**, DOI: 10.26434/chemrxiv-2021-5vdm7. (submitted to Chemical Science)

- 176 The development of luminescent solar concentrator-based photomicroreactors: a cheap reactor enabling efficient solar-powered photochemistry.
Zondag, S.D.A.; Masson, T.M.; Debije, M.G.; Noel, T. *Photochem. Photobiol. Sci.* **2022**, DOI: 10.1007/s43630-021-00130-x.
- 175 On the performance of liquid-liquid Taylor flow electrochemistry in a microreactor – A CFD study.
Cao, Y.; Padoin, N.; Soares, C.; Noel, T. *Chem. Eng. J.* **2022**, 427, 131443.
- 174 Development of an off-grid solar-powered autonomous chemical mini-plant for producing fine chemicals.
Masson, T. M.; Zondag, S. D. A.; Kuijpers, K.P.L.; Cambie, D.; Debije, M. G.; Noel, T. *ChemSusChem* **2021**, 4, 5417-5423.
- 173 Photochemical transformations in continuous-flow reactors.
Laudadio, G.; Noel, T. In *Volume 2 Flow Chemistry – Applications*; Darvas, F.; Dormán, G.; Hessel, V.; Ley, S.V. (Eds.), De Gruyter, **2021**, 1-30. DOI: 10.1515/9783110693690-001.
- 172 Photocatalytic C–H Azolation of Arenes using Heterogeneous Carbon Nitride in Batch and Flow.
Wen, Z.; Wang, T.; Vijeta, A.; Casadevall, C.; Buglioni, L.; Reisner, E.; Noel, T. *ChemSusChem* **2021**, 14, 5265-5270.
- 171 Homogeneous Catalytic C(sp³)–H Functionalization of Gaseous Alkanes.
Pulcinella, A.; Mazzarella, D.; Noel, T. *Chem. Commun.* **2021**, 57, 9956-9967.
- 170 Dehydrogenative Azolation of Arenes in a Microflow Electrochemical Reactor.
Buglioni, L.; Beslac, M.; Noel, T. *J. Org. Chem.* **2021**, 86, 16195-16203.
- 169 Rapid and Direct Photocatalytic C(sp³)–H Acylation and Arylation in Flow.
Mazzarella, D.; Pulcinella, A.; Bovy, L.; Noel, T. *Angew. Chem. Int. Ed.* **2021**, 60, 21277-21282.
- 168 Decatungstate-Mediated C(sp³)–H Heteroarylation via Radical-Polar Crossover in Batch and Flow.
Wan, T.; Capaldo, L.; Laudadio, G.; Nyuchev, A.; Rincon, J.; Garcia-Losada, P. Mateos Gutierrez, C.; O. Frederick, M.; Nuno, M.; Noel, T. *Angew. Chem. Int. ed.* **2021**, 60, 1793-17897.
- 167 Scale-up of Micro- and Milli-Reactors: An Overview of Strategies, Design Principles and Applications..
Dong, Z.; Wen, Z.; Zhao, F.; Kuhn, S.; Noel, T. *Chem. Eng. Sci. X* **2021**, 100097.
- 166 Continuous-Flow Synthesis of Pyrylium Tetrafluoroborates: Application to Synthesis of Katritzky Salts and Photoinduced Cationic RAFT Polymerization.
Sambiagio, C.; Ferrari, M.; van Beurden, K.; Ca', N. della; van Schijndel, J.; Noel, T. *Org. Lett.* **2021**, 23, 2042–2047.
- 165 Shedding Light on the Nature of the Catalytically Active Species in Photocatalytic Reactions Using Bi₂O₃ Semiconductor.
Riente, P.; Fianchini, M.; Llanes, P.; Pericàs, M. A.; Noel, T. *Nature Commun.* **2021**, 12, 625.
- 164 Electrochemical Aziridination of Internal Alkenes with Primary Amines.
Oseka, M.; Laudadio, G.; van Leest, N. P.; Dyga, M.; de Andrade Bartolomeu, A.; Goossen, L.; de Bruin, B.; Thiago de Oliveira, K.; Noel, T. *Chem (Cell)* **2021**, 7, 255–266. (For the preprint version, see: 10.26434/chemrxiv.12824135.v1)
- 163 A Divergent Paired Electrochemical Process for the Conversion of Furfural Using a Divided-Cell Flow Microreactor.

- Cao, Y.; Knijff, J.; Delparish, A.; Neira d'Angelo, M. F.; Noël, T. *ChemSusChem* **2021**, 14, 590–594.
- 162** Flow Chemistry Experiments in the Undergraduate Teaching Laboratory: Synthesis of Diazo Dyes and Disulfides.
Kuijpers, K. P. L.; Weggemans, W. M. A.; Verwijlen, C. J. A.; Noël, T. *J. Flow Chem.* **2021** 11, 7-12.
- 161** Photo Isomerization of Cis-Cyclooctene to Trans-Cyclooctene: Integration of a Micro-Flow Reactor and Separation by Specific Adsorption.
Shahbazali, E.; Billaud, E. M. F.; Fard, A. S.; Meuldijk, J.; Bormans, G.; Noël, T.; Hessel, V. *AIChE J.* 2021, 67, e17067.
- 160** Gas Bubbles Have Controversial Effects on Taylor Flow Electrochemistry.
Cao, Y.; Soares, C.; Padoin, N.; Noël, T. *Chem. Eng. J.* **2021**, 406, 12681
- 159** Five Years of the #RSCPoster Twitter Conference.
Baker, M. J.; Gempf, K. L.; McDonald, H.; Kerr, H. E.; Hodges, C.; Anastasaki, A.; Noël, T.; Randviir, E. P. *Chem. Commun.* **2020**, 56, 13681–13688.
- 158** Optimization of a Decatungstate-Catalyzed C(sp³)–H Alkylation Using a Continuous Oscillatory Milli-Structured Photoreactor.
Wen, Z.; Maheshwari, A.; Sambiagio, C.; Deng, Y.; Laudadio, G.; van Aken, K.; Sun, Y.; Gemoets, H. P. L.; Noël, T. *Org. Process Res. Dev.* **2020**, 24, 2356–2361.
- 157** C(sp³)–H Functionalizations of Light Hydrocarbons Using Decatungstate Photocatalysis in Flow.
Laudadio, G.; Deng, Y.; van der Wal, K.; Ravelli, D.; Nuño, M.; Fagnoni, M.; Guthrie, D.; Sun, Y.; Noël, T. *Science* **2020**, 369, 92-96.
- 156** Photocatalytic Trifluoromethoxylation of Arenes and Heteroarenes in Continuous-Flow.
Nyuchev, A. V.; Wan, T.; Cendón, B.; Sambiagio, C.; Struijs, J. J. C.; Ho, M.; Gulías, M.; Wang, Y.; Noël, T. *Beilstein J. Org. Chem.* **2020**, 16, 1305–1312.
- 155** Process Intensification Education Contributes to Sustainable Development Goals. Part 1.
Rivas, D.F.; Noël, T. et al. *Educ. Chem. Eng.* **2020**, 32, 15–24
- 154** Process Intensification Education Contributes to Sustainable Development Goals. Part 1.
Rivas, D.F.; Noël, T. et al. *Educ. Chem. Eng.* **2020**, 32, 1–14
- 153** Organophotoredox Hydrodefluorination of Trifluoromethylarenes with Translational Applicability to Drug Discovery.
Sap, J. B. I.; Straathof, N. J. W.; Knauber, T.; Meyer, C. F.; Medebielle, M.; Buglioni, L.; Genicot, C.; Trabanco, A. A.; Noël, T.; am Ende, C. W.; Gouverneur, V. J. *Am. Chem. Soc.* **2020**, 142, 9181-9187
- 152** Photocatalytic Deaminative Benzylation and Alkylation of Tetrahydroisoquinolines with N-alkylpyridinium Salts.
Schönbauer, D.; Sambiagio, C.; Noël, T.; Schnürch, M. *Beilstein J. Org. Chem.* **2020**, 16, 809–817.
- 151** Accelerating Sulfonyl Fluoride Synthesis through Electrochemical Oxidative Coupling of Thiols and Potassium Fluoride in Flow.
Cao, Y.; Adriaenssens, B.; de A. Bartolomeu, A.; Laudadio, G.; de Oliveira, K. T.; Noël, T.; *J. Flow Chem.* **2020**, 10, 191-197.
- 150** Pushing the Boundaries of C–H Bond Functionalization Chemistry Using Flow Technology.
Govaerts, S.; Nyuchev, A.; Noël, T.; *J. Flow Chem.* **2020**, 10, 13-71.

- 149 Preparation of Bio-Based Styrene Alternatives and Their Free Radical Polymerization.
van Schijndel, J.; Molendijk, D.; van Beurden, K.; Alberto Canalle, L.; Noël, T. and Meuldijk, J. *Eur. Polym. J.* **2020**, *125*, 109534.
- 148 Repeatable molecularly recyclable semi-aromatic polyesters derived from lignin.
Van Schijndel, J.; Molendijk, D.; van Beurden, K.; Vermeulen, R.; Noël, T.; Meuldijk, J. *J. Polym. Sci.* **2020**, *58*, 1655–1663.
- 147 Intensification of Photochemical Oxidations Using a High Throughput Rotor-Stator Spinning Disk Reactor: A Strategy for Scale Up.
Chaudhuri, A.; Kuijpers, K.P.L.; Hendrix, R.; Hacking, J.; Shivaprasad, P.; Emanuelsson, E. A.; Noël, T.; Van Der Schaaf, J. *Chem. Eng. J.* **2020**, *400*, 125875. (For the preprint version, see: 10.26434/chemrxiv.11560224.v1).
- 146 Silyl Radical-Mediated Activation of Sulfamoyl Chlorides Enables Direct Access to Aliphatic Sulfonamides from Alkenes.
Hell, S.M.; Meyer, C. F.; Laudadio, G.; Misale A.; Willis, M.C.; Noël, T.; Trabanco, A.A.; Gouverneur, V. *J. Am. Chem. Soc.* **2020**, *142*, 720-725.
- 145 CFD Analysis of a Luminescent Solar Concentrator-Based Photomicroreactor (LSC-PM) with Feedforward Control Applied to the Synthesis of Chemicals under Fluctuating Light Intensity.
de Oliveira, G. X.; Lira, J. O. B.; Cambié, D.; Noël, T.; Riella, H. G.; Padoin, N. and Soares, C. *Chem. Eng. Res. Des.* **2020**, *153*, 626-634.
- 144 Screening of Functional Solvent System for Automatic Aldehyde and Ketone Separation in Aldol Reaction: A Combined COSMO-RS and Experimental Approach.
Zhang, C.; Song, Z.; Jin, C.; Nijhuis, J.; Zhou, T.; Noël, T.; Groeger, H.; Sundmacher, K.; van Hest, J.; Hessel, V. *Chem. Eng. J.* **2020**, *385*, 123399.
- 143 Flow Photochemistry: Shine Some Light on Those Tubes!
Sambiagio, C.; Noël, T. *Trends in Chemistry.* **2020**, *2*, 92-106. (Invited contribution)
- 142 The Fundamentals behind the Use of Continuous-Flow Reactors in Electrochemistry.
Noël, T.; Cao, Y.; Laudadio, G. *Acc. Chem. Res.* **2019**, *52*, 2858-2869. (Invited contribution to special issue “Electrifying Synthesis”; Highlighted in “Some Items of Interest to Process R&D Chemists and Engineers” *Org. Process Res. Dev.* **2020**, *24*, 1-11)
- 141 Iron-Catalyzed Cross-Coupling of Alkynyl and Styrenyl Chlorides with Alkyl Grignard Reagents in Batch and Flow.
Deng, Y.; Wei, X.-J.; Wang, X.; Sun, Y.; Noël, T. *Chem. Eur. J.* **2019**, *25*, 14532-14535.
- 140 Photoarylation of Pyridines Using Aryldiazonium Salts and Visible Light: An EDA Approach.
Bartolomeu, A. A.; Silva, R. C. ; Brocksom, T. J.; Noël, T.; de Oliveira, K. T. *J. Org. Chem.* **2019**, *84*, 10459-10471.
- 139 Application of Metal Oxide Semiconductors in Light-Driven Organic Transformations.
Riente Paiva, P.; Noël, T. *Catal. Sci. Technol.* **2019**, *9*, 5186-5232.
- 138 Energy-efficient solar photochemistry with Luminescent Solar Concentrator-based photomicroreactors.
Cambie, D.; Dobbelaar, J.; Riente Paiva, P.; Vanderspikken, J.; Shen, C.; Seeberger, P. H.; Gilmore, K.; Debije, M. G.; Noël, T. *Angew. Chem. Int. Ed.* **2019**, *58*, 14374-14378. (Special Attention: Selected as HOT paper; Highlighted in De Standaard, National Geographic, News Atlas, Market Research Finance, Tech Explorist, NWO-TTW, NY Post, Vice News)

- 137 Sulfonfyl Fluoride Synthesis through Electrochemical Oxidative Coupling of Thiols and Potassium Fluoride.
Laudadio, G.; Bartolomeu, A. A.; Verwijlen, L. M. H. M.; Cao, Y.; de Oliveira, K. T.; Noël, T. *J. Am. Chem. Soc.* **2019**, *141*, 11832-11836. (Special Attention: Highlighted in Synform; Highlighted in OPRD's "Green Chemistry Articles of Interest to the Pharmaceutical Industry" DOI: <https://dx.doi.org/10.1021/acs.oprd.0c00154>)
- 136 Visible light-promoted Fe-catalyzed Csp²-Csp³ Kumada cross-coupling in flow.
Wei, X.-J.; Abdiaj, I.; Sambaglio, C.; Alcazar, J.; Noël, T. *Angew. Chem. Int. Ed.* **2019**, *58*, 13030-13034. (Special Attention: Highlighted in "Some Items of Interest to Process R&D Chemists and Engineers" *Org. Process Res. Dev.* **2019**, DOI: 10.1021/acs.oprd.9b00327; and in Synfacts 2019, 15, 1087.)
- 135 Sulfonamide synthesis through electrochemical oxidative coupling of amines and thiols.
Laudadio, G.; Barmpoutsis, E.; Schotten, C.; Struik, L.; Govaerts, S.; Browne, D. L.; Noël, T. *J. Am. Chem. Soc.* **2019**, *141*, 5664-5668. (Highlighted in "Some Items of Interest to Process R&D Chemists and Engineers" *Org. Process Res. Dev.* **2020**, *24*, 1-11)
- 134 Efficient electrocatalytic reduction of furfural to furfuryl alcohol in a microchannel flow reactor.
Cao, Y.; Noël, T. *Org. Process. Res. Dev.* **2019**, *23*, 403-408.
- 133 De novo design of organic photocatalysts: bithiophene derivatives for the visible-light induced C-H functionalization of heteroarenes.
Bottecchia, C.; Martin, R.; Abdiaj, I.; Crovini, E.; Alcazar, J.; Jorduna, J.; Blesa, M.; Carrillo, J.; Prieto, P.; Noël, T. *Adv. Synth. Catal.*, **2019**, *361*, 945-950. (Selected as VIP paper; highlighted in Synfacts 2019, DOI: 10.1055/s-0039-1689908)
- 132 Photocatalytic modification of amino acids, peptides and proteins.
Bottecchia, C.; Noël, T. *Chem. Eur. J.* **2019**, *25*, 26-42.
- 131 Solar photochemistry in flow.
Cambié, D.; Noël, T. *Top. Curr. Chem.*, **2018**, *376*, 45. DOI: 10.1007/s41981-018-0024-3.
- 130 Intermolecular Transition-Metal-Catalyzed C–C Coupling Reactions in Continuous Flow.
Bottecchia, C.; Noël, T. In *Science of Synthesis: Flow Chemistry in Organic Synthesis*, Eds. T.F. Jamison and G. Koch, **2018**, *313*, 313-346. (DOI 10.1055/sos-SD-228-00200)
- 129 Design and Application of a Modular and Scalable Electrochemical Flow Microreactor.
Laudadio, G.; de Smet, W.; Struik, L.; Cao, Y.; Noël, T. *J. Flow Chem.* **2018**, *8*, 157-165.
- 128 Flow Photochemistry.
Booker-Milburn, K.; Noël, T. *ChemPhotoChem* **2018**, *2*, 830. [editorial]
- 127 Visible-Light Photocatalytic Difluoroalkylation-induced 1, 2-Heteroarene Migration of Allylic Alcohols in Batch and Flow.
Wei, X.-J.; Noël, T. *J. Org. Chem.* **2018**, *83*, 11377-11384.
- 126 Photo isomerization of cis-cyclooctene to trans-cyclooctene: integration of a micro flow reactor and separation by specific adsorption.
Shahbazali, E.; Billaud, E. M. F.; Meuldijk, J.; Bormans, G.; Noël, T.; Hessel, V. submitted for publication.
- 125 Homogeneous and Gas-Liquid Catellani-type Catalysis Enabled by Continuous-Flow Chemistry.
Casnati, A.; Gemoets, H. P. L.; Motti, E.; Della Ca, N.; Noël, T. *Chem. Eur. J.* **2018**, *24*, 14079-14083.

- 124 A fully automated continuous-flow platform for fluorescence quenching studies and Stern-Volmer analysis.
Kuijpers, K. P. L.; Bottecchia, C.; Cambie, D.; Drummen, K.; Koenig, N. J.; Noël, T. *Angew. Chem. Int. Ed.* **2018**, *57*, 11278-11282.
- 123 Laser mediated photo-high-p,T intensification of Vitamin D₃ synthesis in continuous-flow.
Escriba-Gelonch, M.; Halpin, A.; Noël, T.; Hessel, V. *ChemPhotoChem* **2018**, *2*, 922-930.
- 122 Real-time reaction control for solar production of chemicals under fluctuating irradiance.
Zhao, F.; Cambie, D.; Hessel, V.; Debije, M. G.; Noël, T. *Green Chem.* **2018**, *20*, 2459-2464. (Hot paper in Green Chemistry; Highlighted in Chemistry World, Le Monde, Radio Omroep Brabant, Chemical Processing)
- 121 Biocatalytic synthesis of the Green Note trans-2-hexenal in a continuous-flow microreactor.
Van Schie, M. M. C. H.; Pedroso de Almeida, T.; Laudadio, G.; Tieves, F.; Fernandez-Fueyo, E.; Noël, T.; Arends, I. W. C. E.; Hollmann, F. *Beilstein J. Org. Chem.* **2018**, *14*, 697-703.
- 120 Selective sp³ C-H Aerobic Oxidation enabled by Decatungstate Photocatalysis in Flow.
Laudadio, G.; Govaerts, S.; Wang, Y.; Ravelli, D.; Koolman, H. F.; Fagnoni, M.; Djuric, S. W.; Noël, T. *Angew. Chem. Int. Ed.* **2018**, *57*, 4078-4082.
- 119 Continuous-flow in-line solvent-swap crystallization of Vitamin D₃.
Escriba-Gelonch, M.; Hessel, V.; Maier, M.C.; Noël, T.; Neira D'Angelo, M. F.; Gruber-Woelfler, H. *Org. Process Res. Dev.* **2018**, *22*, 178-189.
- 118 Micro-flow high-p,T intensification of Vitamin D₃ synthesis using a ultraviolet lamp.
Escriba-Gelonch, M.; Noël, T.; Hessel, V. *Org. Process Res. Dev.* **2018**, *22*, 147-155.
- 117 Scale up of a luminescent solar concentrator based photomicroreactor via numbering-up.
Zhao, F.; Cambie, D.; Janse, J.; Wieland, E.; Kuijpers, K. P. L.; Hessel, V.; Debije, M. G.; Noël, T. *ACS Sustainable Chem. Eng.* **2018**, *6*, 422-429.
- 116 A personal perspective on the future of flow photochemistry.
Noël, T. *J. Flow Chem.* **2017**, *7*, 87-93.
- 115 Visible Light-Mediated Selective Arylation of Cysteine in Batch and Flow.
Bottecchia, C.; Rubens, M.; Gunnoo, S. B.; Hessel, V.; Maddar, A.; Noël, T. *Angew. Chem. Int. Ed.* **2017**, *56*, 12701-12707. (Highlighted in OPRD, DOI: 10.1021/acs.oprd.7b00371)
- 114 An environmentally benign and selective electrochemical oxidation of sulfides and thiols in a continuous-flow microreactor.
Laudadio, G.; Straathof, N. J. W.; Lanting, M. D.; Knoops, B.; Hessel, V.; Noël, T. *Green Chem.* **2017**, *19*, 4061-4066.
- 113 Flow Synthesis of Diaryliodonium Triflates.
Laudadio, G.; Gemoets, H. P. L. Hessel, V.; Noël, T.; *J. Org. Chem.* **2017**, *82*, 11735-11741. (Highlighted in OPRD 2017, *21*, 1187-1195)
- 112 Effect of Acetonitrile-Based Crystallization Conditions on the Crystal Quality of Vitamin D₃.
Gruber-Woelfler, H.; Escriba-Gelonch, M.; Noël, T.; Maier, M.C.; Hessel, V. *Chem. Eng. Technol.* **2017**, *40*, 2016-2024.
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Noël, T. *e-EROS Encyclopedia of Reagents for Organic Synthesis* **2011**, DOI: 10.1002/047084289X.m01343.
- 10 Cross-Coupling in Flow.
Noël, T.; Buchwald, S.L. *Chem. Soc. Rev.* **2011**, *40*, 5010-5029.
(One of the most accessed reviews in August 2011; highlighted in Faculty of 1000; Highlighted in *Org. Process Res. Dev.* **2012** DOI: 10.1021/op300251d)
- 9 Imidate-Phosphane ligands as highly versatile ligands for Palladium-catalyzed allylic substitution reactions.
Noël, T.; Bert, K.; Van der Eycken, E.; Van der Eycken, J. *Eur. J. Org. Chem.* **2010**, 4056-4061.
- 8 Rhodium/olefin-catalyzed reaction of arylboronic acids with an alfa-acetamido acrylic ester: Mizoroki-Heck-type reaction versus conjugate addition.
Noël, T.; Gök, Y.; Van der Eycken, J. *Tetrahedron: Asymmetry* **2010**, *21*, 540-543.
- 7 Novel C₂-symmetrical bisoxazolines with a chiral *trans*-2,3-diphenylcyclopropane backbone: Preparation and application in asymmetric catalytic reactions.
Gök, Y.; Noël, T.; Van der Eycken, J. *Tetrahedron: Asymmetry* **2010**, *21*, 2275-2280.
- 6 A novel C₂-symmetrical bisphosphane ligand with a cyclopropane backbone: Synthesis and application in Rh(I)-catalyzed Asymmetric 1,4-addition of arylboronic acids to cyclic enones.
Gök, Y.; Noël, T.; Van der Eycken, J. *Tetrahedron: Asymmetry* **2010**, *21*, 2768-2774.
- 5 *Trans*-(2*R*,3*R*)-diphenylcyclopropane-1,1-dimethanol: a pivotal diol for the synthesis of novel C₂-symmetric ligands for asymmetric transition metal catalysis.
Vervecken, E.; Van Overschelde, M.; Noël, T.; Gök, Y.; Álvarez Rodríguez, S.; Cogen, S.; Van der Eycken, J. *Tetrahedron: Asymmetry* **2010**, *21*, 2321-2328.
- 4 Cyclic Imidate Ligands.
Noël, T.; Vandyck, K.; Van der Eycken, J. PCT Int. Appl. **2010**, WO 2010115903 A1 20101014 (date filed: 02/06/2010).

- 3 Chiral imidates as a new class of nitrogen-based chiral ligands: synthesis and catalytic activity in asymmetric aziridinations and diethylzinc additions.
Noël, T.; Vandyck, K.; Robeyns, K.; Van Meervelt, L.; Van der Eycken, J. *Tetrahedron* **2009**, 65, 8879-8884.
- 2 Efficient one-step synthesis of chiral oxazoline-alcohol ligands via a cyclic imidate ester rearrangement.
Noël, T.; Robeyns, K.; Van Meervelt, L.; Van der Eycken, E.; Van der Eycken, J. *Tetrahedron: Asymmetry* **2009**, 20, 1962-1968.
- 1 Some new C_2 -symmetric bicyclo[2.2.1]heptadiene ligands: synthesis and catalytic activity in rhodium(I)-catalyzed asymmetric 1,4- and 1,2-additions.
Noël, T.; Vandyck, K.; Van der Eycken, J. *Tetrahedron* **2007**, 63, 12961-12967.

Opinion Articles

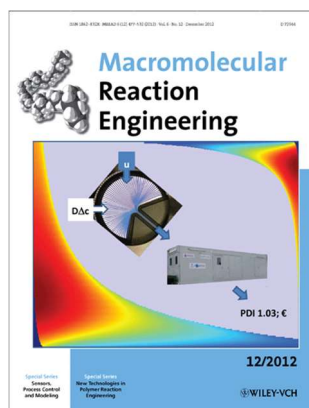
- 1 A CHANGE OF ART - There's more to chemistry than the round-bottomed flask
Noël, T. *Chemistry World* **2019**, Link: <https://www.chemistryworld.com/opinion/flow-into-the-chemistry-curriculum/4010382.article>.

Cover articles



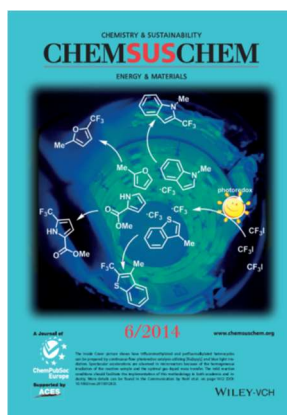
Lab Chip

2011, 11, 2488-2492



Macromol. React. Eng.

2012, 6, 507-515



ChemSusChem

2014, 7, 1612-1617



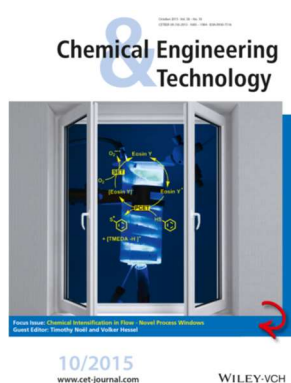
Chem. Eur. J.

2014, 20, 10562-10589



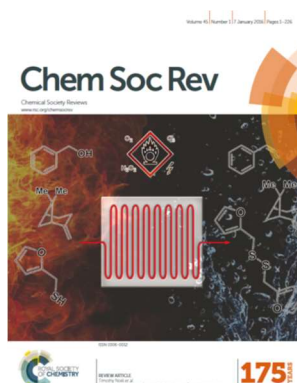
Chem. Ing. Tech.

2014, 12, 2160-2179



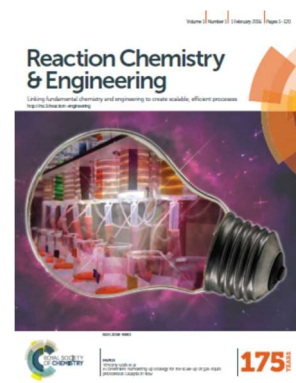
Chem. Eng. Technol.

2015, 38, 1733-1742



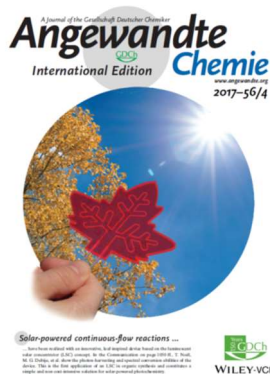
Chem. Soc. Rev.

2016, 45, 83-117.



React. Chem. Eng.

2016, 1, 73-81.



Angew. Chem Int. Ed.

2017, 56, 1050-1054

Guest Editorials

- 2012** Guest editor of a special issue of Challenges: “Challenges in Chemical Processes”. (Together with Volker Hessel)
- 2015** Guest editor of a special issue in Journal of Flow Chemistry, volume 5, issue 3, pp. 123-194 “Flow Chemistry in North America”. (Together with Aaron Beeler)
- 2015** Guest editor of a special issue in Chemical Engineering Technology: “Chemical intensification in flow” **2015**, issue 10 (Together with Volker Hessel)
- 2016** Guest editor of a special issue of Challenges: “Challenges in Chemical Processes”. (Together with Volker Hessel)
- 2018** Guest editor of a special issue in ChemPhotoChem: “Flow photochemistry”, volume2, issue 10, pp. 825-944. (Together with Kevin-Booker Milburn)
- 2020** Guest editor of a special issue in Beilstein J. Org. Chem.: “Advances in Photoredox Catalysis”. (<https://www.beilstein-journals.org/bjoc/series/101>)

Books

- 2022** Flow Chemistry, Noël, T. & Mazzarella, D., ACS in Focus, *in preparation*.
- 2020** Accounts on Sustainable Flow Chemistry, Noël, T. & Luque, R. eds., Springer, Heidelberg (Germany) **2020**, ISBN: 978-3030365714.
- 2017** Photochemical processes in continuous-flow reactors: From engineering principles to chemical applications, Noël, T. ed., World Scientific Publishing, London (UK), **2017**, ISBN 9781786342188.
- 2016** Organometallic Flow Chemistry, Noël, T. ed., Springer, Heidelberg (Germany), **2016**, ISBN 978-3-319-33243-7.

Conferences participation – Oral Presentations (only in person lectures have been listed)

- 2020** Dream Lecture (Warsaw, Poland) (Invited Lecture).
- 2020** Flow Chemistry Europe Meeting – Cambridge (UK) (Invited Lecture, Conference chair).
- 2020** Seminar at University of Twente (Enschede, NL) (Invited Lecture).
- 2019** Australian Flow Chemistry Symposium (Melbourne, Australia) (Keynote Lecture).
- 2019** SelectBio Flow Chemistry Asia (Tokyo, Japan) (Keynote Lecture, Conference Chair).
- 2019** Seminar on Photoredox Catalysis at the West German Catalysis Teaching Association (Halterm am See, Germany).
- 2019** 11th Continuous-Flow Reactor Technology for Industrial Applications (Glasgow, Scotland) (Keynote Lecture).
- 2019** FROST 7 (7th Conference on Frontiers in Organic Synthesis Technology) (Budapest, Hungary) (Keynote Lecture).
- 2019** Chemistry meets Industry and Society – A creative showcase conference (Salerno, Italy) (Keynote talk).
- 2019** Seminar at Universiteit van Amsterdam (Amsterdam, NL) (Invited talk).
- 2019** Seminar at Signify (Eindhoven, NL) (Invited talk).
- 2019** Lab on a Chip Conference (Rotterdam, The Netherlands) (Invited Talk).
- 2019** Seminar at AstraZeneca (Macclesfield, UK) (Invited talk).

2019 Seminar at University of Manchester (Manchester, UK) (Invited talk).
2019 Colloquium at Freie Universitaet Berlin (Berlin, Germany) (Invited talk).
2019 Beilstein Meeting on Electrochemistry (Mainz, Germany) (Invited talk).
2019 5 lectures at the ACS National Meeting (Orlando, USA).
2019 1st International Young Professionals Conference on Process Engineering (YCOPE) (Magdeburg, Germany) (Keynote Lecture)
2019 Colloquium at University of Saint Andrews – Saint Andrews (Saint Andrews, UK) (Invited talk).
2019 Short course on Flow Chemistry – KU Leuven (Leuven, Belgium).
2019 Flow Chemistry Europe Meeting – Cambridge (UK) (Keynote Lecture).
2019 Colloquium at Wageningen University (Wageningen, The Netherlands) (Invited talk)
2019 LABEX CheMISyst (Montpellier, France) (Invited talk)
2019 Colloquium at TU Dortmund (Dortmund, Germany) (Invited talk)
2018 2 Plenary Lectures at ICIQ-INTECAT school (Tarragonna, Spain) (Plenary lecture)
2018 Seminar at AbbVie Inc. (Chicago, USA) (Invited lecture)
2018 Seminar at Genentech (San Francisco, USA) (Invited lecture)
2018 Seminar at Princeton University (Princeton, USA) (Invited lecture)
2018 Seminar at Boston University (Boston, USA) (Invited lecture)
2018 SK Biotek “The future of pharmaceutical development” (Boston, USA) (Invited lecture)
2018 Seminar at WWU Muenster (Muenster, Germany) (Invited lecture)
2018 IMRET 15, the International Conference on Micro Reaction Technology (Karlsruhe, Germany) (Plenary Lecture)
2018 8th biennial ‘Celebration of Organic Chemistry’ Symposium, UCB (Braine l’Alleud, Belgium) (Invited Lecture)
2018 Invited Seminar at Bayer (Leverkusen, Germany) (Invited Lecture)
2018ACHEMA World Forum, Dechema Award lecture (Frankfurt, Germany) (Plenary Lecture)
2018 Lab on a Chip Conference (Rotterdam, The Netherlands) (Invited Talk).
2018 Seminar at RWTH Aachen (Aachen, Germany) (Invited Seminar)
2018 Lecture at Heriot-Watt University (Edinburgh, Scotland) (Invited Lecture)
2018 Modern Photocatalysis Beilstein Meeting (Potsdam, Germany) (Invited Lecture)
2018 EPSRC Center for Doctoral Training in Critical Resource Catalysis (CRITICAT) (Edinburgh, Scotland) (Keynote Lecture)
2018 Journées de la Catalyse (Gif-sur-Yvette, France) (Keynote lecture)
2018 Lecture at the Annual Internal Meeting for the Cluster of Excellence RESOLV (Velen, Germany) (Invited Lecture).
2018 Synthesis in flow seminar (Bleriot-Plage, France) (Invited Lecture)
2018 Lecture at Cardiff University (UK) (Invited Lecture)
2018 Lecture at PhotoTrain meeting – Bologna (Italy) (Invited Lecture)
2018 Flow Chemistry Europe Meeting – Cambridge (UK) (Invited Lecture).
2018 5th Innovation for Health (Rotterdam, The Netherlands) (Invited Lecture).
2018 University Seminar at University of Graz (Graz, Austria) (Invited Lecture).
2017 Syngenta Chemistry Lecture 2017 (Stein, Switzerland) (Invited Lecture).
2017 Joint Meeting of 11th International Symposium on Integrated Synthesis (ISONIS-11) and 3rd International Symposium on Middle Molecular Strategy (3rd ISMMS) (Awaji Island, Japan) (Invited Lecture).

- 2017** University Seminar at University of Osaka (Osaka, Japan) (Invited Lecture).
- 2017** 1692th Zasshikai Seminar – University of Tokyo (Tokyo, Japan) (Invited Lecture).
- 2017** 17th Tateshina Conference (Tateshina, Japan) (Invited Lecture).
- 2017** iCAT-TUE Symposium (International Symposium on Catalysis for Sustainable Society) (Eindhoven, The Netherlands) (Invited Lecture)
- 2017** University Seminar Aarhus University (Aarhus, Denmark) (Invited Lecture).
- 2017** FROST 6 (6th Conference on Frontiers in Organic Synthesis Technology) (Budapest, Hungary) (Keynote Lecture, Conference Chair).
- 2017** Organic Chemistry day (La Giornata della Chimica Organica) (Pavia, Italy) (Invited Lecture).
- 2017** Advancing chemical synthesis through automation, processes and thinking, Beilstein Organic Chemistry Symposium 2017 (Potsdam, Germany) (Invited Lecture).
- 2017** COST Summer School CHAOS (Tallinn, Estonia) (Training Seminar).
- 2017** AMN/ISMM/APBCM/ANZNMF meeting (Tasmania, Australia) (Keynote Lecture).
- 2017** Invited seminar at University of Leipzig (Leipzig, Germany) (Invited Talk).
- 2017** Lab on a Chip Conference (Munich, Germany) (Invited Talk).
- 2017** Workshop “Electron Transfer, Radical Ions and Radical Chemistry” (Lyon, France) (Invited Talk).
- 2017** Invited seminar at Indian Institute of Science-Bangalore (Bangalore, India) (Invited Talk).
- 2017** Invited seminar at Indian Institute of Technology-Bombay (Mumbai, India) (Invited Talk).
- 2017** Advances in Organic Synthesis (AOS-2017) (Pune, India) (Invited Talk).
- 2017** Prof. K.V.Thomas Endowment International Symposium on New Trends in Applied Chemistry (Kochi, India) (Plenary Lecture).
- 2017** Flow Chemistry Conference Europe 2017 (Cambridge, UK) (Keynote Lecture).
- 2016** Dutch Design & Synthesis Guest Lectures seminar at Syncom (Groningen, The Netherlands) (Invited Talk).
- 2016** Flow Chemistry Society – Miami (USA) (Invited Talk).
- 2016** Invited seminar at Merck (New Jersey, USA) (Invited Talk).
- 2016** Invited seminar at Abbvie (Chicago, USA) (Invited Talk).
- 2016** Invited seminar at Virginia Commonwealth University (Richmond, USA) (Invited Talk).
- 2016** The international conference on microreaction technology, IMRET 14 (Beijing, China) (Keynote Talk).
- 2016** 22nd International Congress of Chemical and Process Engineering, CHISA 2016 (Prague, Czech Republic) (Keynote Talk).
- 2016** 27th European Colloquium on Heterocyclic Chemistry (Amsterdam, The Netherlands) (Keynote Talk).
- 2016** 39th Annual Meeting of the Brazilian Chemical Society (Goiania, Brazil) (Keynote Talk).
- 2016** Research Seminar at the Federal University of Rio de Janeiro (Rio de Janeiro, Brazil) (Invited Talk).
- 2016** NextGenChem@NL symposium (Nijmegen, Netherlands)
- 2016** Zing Flow Conference (Albufeira, Portugal) (Invited Talk, Session chair).
- 2016** Organic colloquium at Johannes Gutenberg University Mainz (Mainz, Germany) (Invited Talk).
- 2016** Research Seminar at Radboud University of Nijmegen (Nijmegen, The Netherlands) (Invited Talk).
- 2016** Research Seminar at University of Antwerp (Antwerp, Belgium) (Invited Talk).

- 2016** Research Seminar at University of Twente (Twente, The Netherlands) (Invited Talk).
- 2016** Flow Chemistry Conference Europe 2016 (Cambridge, UK) (Conference Chair – Invited Talk).
- 2016** Flow Workshop Hasselt 2016 (Hasselt, Belgium) (Invited Talk).
- 2015** Webinar on 9th December 2015 for Technology Networks (Invited Talk).
- 2015** Pacifichem 2015 (Honolulu, Hawaii, USA) (Invited Talk).
- 2015** EPIC5 (European Process Intensification Conference) (Nice, France) (Keynote Talk).
- 2015** Photochemistry Gordon Research Conference (Stonehill College, Easton, MA, USA) (Invited Talk).
- 2015** 17th International Symposium on Relations between Homogeneous and Heterogeneous Catalysis (ISHHC17) (Utrecht, Netherlands).
- 2015** NextGenChem@NL symposium (Leiden, Netherlands)
- 2015** ACS Meeting Denver, New Trends in Cross-Coupling Catalysis in Industry and Academia, Session dedicated to the 2015 ACS Award in Industrial Chemistry in honor of Dr. Thomas J. Colacot (Johnson Matthey) (Denver, CO, USA) (Invited Talk).
- 2015** Lecture at DSM – Geleen (Netherlands) (Invited talk).
- 2015** Flow Chemistry Society – Berlin (Germany) (Conference & Session Chair – Keynote Lecture).
- 2014** Netherlands Process Technology Symposium (NPS 14) (Netherlands) (Keynote Lecture).
- 2014** NextGenChem@NL symposium (Eindhoven, Netherlands).
- 2014** Automation in chemistry: Carbohydrate synthesis and continuous-flow (Germany) (Invited Talk).
- 2014** Queen's University Belfast (UK) (Invited Talk).
- 2014** Flow Chemistry Society – Boston (USA) (Invited Talk).
- 2014** Engineering for a Sustainable Future – Eindhoven (NL) (Invited Talk).
- 2014** Flow Chemistry Society – Barcelona (Spain) (Invited Talk).
- 2014** University of Amsterdam – Amsterdam (NL) (Invited Talk).
- 2013** FROST 4 – Flow Chemistry Society – Budapest (Hungary) (Invited Talk).
- 2013** Prof. Guangwen Chen's Group – Dalian Institute of Chemical Physics – Dalian **2013** (China) (Invited talk).
- 2013** Global Congress of Catalysis – Dalian **2013** (China) (Invited talk). Special attention: Chair of Photocatalysis session.
- 2013** FLOHET – 2013, Annual Florida Heterocyclic and Synthetic IUPAC – Sponsored Conference, Florida **2013** (USA) (Invited talk).
- 2013** Lecture at Janssen Pharmaceuticals – Beerse (Belgium) (Invited talk).
- 2012** MinacNed Conference, Amsterdam **2012** (The Netherlands), (Invited talk).
- 2012** European Young Chemist Award at Euchems Chemistry Conference, Prague **2012** (Czech Republic), (Invited talk).
- 2012** Euchems Chemistry Conference, Prague **2012** (Czech Republic).
- 2012** Incentive Award for Young Researchers Lecture at Vlaams Jongeren Congres, Oostende **2012** (Belgium), (Invited talk).
- 2012** Microwave & Flow Chemistry Conference, Lanzarote **2012** (Spain).
- 2011** 15th Sigma-Aldrich Organic Synthesis Meeting, Spa **2011** (Belgium), Opening and Plenary Lecture, (Invited talk).
- 2011** Lecture at Ghent University, Department of Chemistry, Ghent 2011 (Belgium), (Invited talk).
- 2011** Lecture at EcoSynth, Oostende **2011** (Belgium), (Invited talk).

- 2010** Metals In Synthesis Seminars, Massachusetts Institute of Technology **2010** (USA).
2010 Flemish Youth Conference of Chemistry, Blankenberge **2010** (Belgium).
2009 13th Sigma-Aldrich Organic Synthesis Meeting, Spa **2009** (Belgium).
2009 42nd IUPAC Conference, Glasgow **2009** (Scotland, UK).
2009 COST Chemistry D.40, Turku **2009** (Finland).
2007 Flemish Youth Conference of Chemistry, Antwerp **2007** (Belgium).

Supervision and guidance of Ph.D. students as first promotor (co- or second promotor are not listed)

- 2021** *Engineering Electrochemical Transformations in Continuous-Flow Reactors.*
 Yiran Cao (TU/e).
2020 *New synthetic methods enabled by photochemistry and electrochemistry in flow.*
 Gabriele Laudadio (TU/e).
2020 *Scaling and automation of photochemistry in continuous flow.*
 Koen Kuijpers (TU/e).
2019 *Photocatalytic Difluoromethylation and Light-Induced Iron Cross-Coupling in Flow.*
 Xiao-Jing Wei (TU/e).
2019 *The development of Luminescent Solar Concentrator Photomicroreactors to enable solar photochemistry.*
 Dario Cambié (TU/e). Special attention: Cum Laude.
2019 *Photocatalytic modification of bioactive molecules in continuous-flow microreactors.*
 Cecilia Bottecchia (TU/e). Special attention: Cum Laude.
2018 *Enabling and accelerating C–H functionalization through continuous-flow chemistry.*
 Hannes P. L. Gemoets (TU/e).
2017 *Accelerated (photo)redox chemistry in continuous-flow microreactors.*
 Natan J. W. Straathof (TU/e).

Supervision and guidance of postdoctoral researchers (past members)

- 2021** Dr. Gabriele Laudadio. Current position: Postdoc in Baran Group (Scripps, La Jolla, USA)
2021 Dr. Diego Pintossi. Current position: Data analyst (Amsterdam)
2021 Dr. Laura Buglioni. Current position: High school teacher (Italy).
2020 Dr. Alexander Nyuchev. Current position: Assistant Professor at Lobachevsky State University of Nizhny Novgorod (Russia).
2020 Dr. Maksim Oseka. Current position: Assistant Professor at Tallinn University of Technology (Estonia).
2020 Dr. Zhengya Dong. Current position : Associate Professor at Guangdong University (China)
2020 Dr. Carlo Sambiagio. Current position: Researcher at Sygnature Discovery.
2020 Dr. Paola Riente Paiva. Current position: Postdoc at University of Amsterdam
2020 Dr. Matthias Schmid. Current position: Researcher at Boehringer Ingelheim (Germany)
2017 Dr. Fang Zhao. Current position: Lecturer at East China University of Science and Technology (ECUST).

- 2016** Dr. Yuanhai Su. Current position: Professor at Shanghai Jiao Tong University. Special attention: recipient of 1000-talents scholarship.
- 2015** Dr. Nico Erdmann. Current position: consultant at Accenture.

Research Funding

Granted Research Project Applications

2022	ERC Consolidator Grant, 4 PhD + 1 Postdoc position. <i>Site-selective C(sp³)-H functionalization with gaseous reagents using Hydrogen Atom Transfer photocatalysis in flow (FlowHAT)</i>	2,000 k€
2022	Marie Curie ITN, 1 PhD position. <i>Green and digital continuous-flow pharmaceutical manufacturing (GreenDigiPharma)</i>	2,681 k€
2022	Horizon-RIA grant, 1 PhD + 1 Postdoc position. <i>Merging sustainable and digital chemical technologies for the development of greener-by-design pharmaceuticals (SusPharma)</i>	6,898 k€
2022	Horizon-RIA grant, 2 Postdoc positions. <i>Artificial PHOTOSynthesis to produce FUELS and chemicals: hybrid systems with microorganisms for improved light harvesting and CO₂ reduction (Photo2Fuel)</i>	3,171 k€
2022	EIC Pathfinder Open 2021, 1 PhD <i>Reaction robot with intimate photocatalytic and separation functions in a 3-D network driven by artificial intelligence (CATART)</i>	3,255 k€
2022	Marie Curie Intra-European Fellowship, Dr. Jesus Orduna. <i>Selective Alkylation of Complex Molecules in Flow (SELECTFLOW)</i>	188 k€
2021	Marie Curie Intra-European Fellowship, Dr. Daniele Mazzarella. <i>Constructing chiral molecules merging ELECTROchemistry and ORGANOCatalysis (ELECTRORGANO)</i>	176 k€
2021	Marie Curie Intra-European Fellowship, Dr. Luca Capaldo. <i>Flow Photoelectrocatalysis via Hydrogen-Atom Transfer: net-oxidative C-H to C-C bond conversion (HAT-TRICK)</i>	176 k€
2020	Lilly Research Award Program, 1 PD Application of flow reactors for the development of new photocatalytic and electrochemical transformations for Late-Stage Functionalization (LSF).	265 k\$
2020	NWO-OTP, 1 PhD + 1 PD, coordinator Development of a high-throughput experimentation platform for photocatalytic functionalization of organic molecules (MultiModalPhotochem)	900 k€
2020	Marie Curie ITN, 2 PhD, coordinator Photocatalysis as a tool for synthetic organic chemistry (PhotoReAct)	3,990 k€
2020	Marie Curie ITN, 1 PhD, co-applicant C-H Activation for Industrial Renewal (CHAIR)	3,945 k€

2019	RIA grant, 2 PhD, co-applicant Heterogenous Photo(electro)catalysis in Flow using Concentrated Light: modular integrated designs for the production of useful chemicals (FlowPhotoChem)	6,993 k€
2019	Host of a CSC scholarship, Ms. Ting Wan	200 k€
2019	Research Grant Aspen – 1-year postdoc	90 k€
2019	FETopen, 1 PhD + 1 postdoc, co-applicant. <i>Flow chemistry for Isotopic eXchange (FLIX)</i>	3,470 k€
2019	Marie Curie Intra-European Fellowship, Dr. Laura Buglioni <i>Electrochemical Sulfonylation of Lysine Residues in Continuous Flow Microreactors (Electrosulf)</i>	176 k€
2019	Research Grant AbbVie – 1-year postdoc	80 k€
2018	Host of a CSC scholarship, Ir. Zhenghui Wen	200 k€
2018	Marie Curie Intra-European Fellowship, Dr. Paola Riente. <i>Application of Metal Oxide Semiconductors in Photocatalysis (MOSPhotocat)</i>	178 k€
2018	Marie Curie Intra-European Fellowship, Dr. Carlo Sambigiato. <i>Flow Chemistry for CH activation (FlowAct)</i>	166 k€
2017	Host of a CSC scholarship, Ir. Yiran Cao. <i>Electrochemistry in flow.</i>	200 k€
2017	Collaboration with AbbVie. <i>CH oxidation.</i>	25 k€
2015	VIDI award from Dutch Science Foundation, NWO, personal grant. <i>Sensitized photoredox catalysis in continuous-flow microreactors (SensPhotoFlow).</i>	800 k€
2015	Marie Curie Innovative Training Network, coordinator of the project, incl. 3 Ph.D. positions and a part-time project manager. <i>Accelerating photoredox catalysis in continuous-flow systems. (Photo4Future)</i>	2,289 k€
2014	Marie Curie Intra-European Fellowship, Dr. Yuanhai Su. <i>Synthesis of trifluoromethylstyrene compounds via gas-liquid photoredox catalysis in continuous-flow microreactors. (PhotoFlow)</i>	200 k€
2013	CatchBio grant from Dutch Science Foundation, NWO. <i>Boosting organometallic-catalyzed C–H oxidation reactions in continuous-flow microreactors.</i>	225 k€
2013	ECHO grant from Dutch Science Foundation, NWO. <i>Breaking the unbreakable: C-H carbonylation in micro flow and vision to process.</i>	260 k€
2013	Marie Curie Career Integration Grant, personal grant. <i>C–H Activation and Carbonylation in Continuous Microflow (FLACH)</i>	100 k€

2012	VENI award from Dutch Science Foundation, NWO, personal grant. <i>The Fluor Revolution: Boosting Fluorination in Continuous-Flow.</i>	250 k€
2010	Fulbright-Hays award, Bureau of Educational and Cultural Affairs, US Department of State, personal grant. <i>Multistep Microchemical Synthesis of Imatinib – Towards a Continuous Manufacturing of Pharmaceuticals.</i>	--- ^[a]
2005-2009	Extraordinary Research Fund fellow (BOF grant), personal grant. <i>Novel efficient chiral ligands for asymmetric catalysis.</i>	200 k€

^[a] Involves sponsorship of VISA, flight tickets, health insurance, etc.

Outreach activities

- Co-organizer of the RSC Twitter Poster Conference, since 2020. (See also, Five Years of the #RSCPoster Twitter Conference. Chemical Communications 2020, 56 (89), 13681–13688 DOI: 10.1039/D0CC90441D)
- Podcast Episode of *The Sound of Science* with host Lieven Scheire: <https://soundcloud.com/user-563469139/sound-of-science-7-timothy>
- Ted Talk at TEDxAUCollege “The sunny side of chemistry” (Amsterdam, March 7th, 2017): <https://www.youtube.com/watch?v=bZ89r2tK3xc>
- Participation in the BZT show for the demonstration of chemical experiments with children (Dutch television, Ned 3, February 2, 2013).
- Teacher days: Presentation for high school science teachers during docentendag ST (2013-2014).
- Presentation about photoredox catalysis in microreactors for highly gifted children.
- Demonstration of chemical experiments (Basisschool EigenWijs, Veldhoven, groep 7-8).
- Uitleggen van wetenschappelijke fenomenen op de Nederlandse Radio (NPO Radio 2, Programma: Bureau Kijk in de Vegte)
 - 1) 26-07-2015 ‘Waarom klinkt heet water schenken anders dan koud water?’
http://www.npo.nl/bureau-kijk-in-de-vegte/26-07-2015/RBX_KRO_729397/RBX_KRO_1520543
(radio interview)
 - 2) 05-07-2015 ‘Waarom blijft plastic nat in de vaatwasser?’
http://www.npo.nl/bureau-kijk-in-de-vegte/05-07-2015/RBX_KRO_729394/RBX_KRO_1283784
(radio interview)
 - 3) 11-10-2015 ‘Waarom loopt het geluid op als je met een lepel op de bodem van een kop koffie tikt?’
<http://www.kro-ncrv.nl/bureaukijkindevegte/seizoenen/2015/30-141062-11-10-2015/290-105413-waarom-loopt-het-geluid-op-als-je-met-een-lepel-op-de-bodem-van-een-kop-koffie-tikt> (radio interview)
- Twitter: @NoelGroupTUE (~ 2000 followers), @tnoel82 (> 700 followers)
- We blog about our most important discoveries: <http://www.noelresearchgroup.com/category/blog/>
- For notable scientific papers, short movie scripts are prepared in collaboration with TU/e Media Relations: <https://www.youtube.com/watch?v=PE6N6gQ9x4I> (Artificial leaf as mini-factory for medicine)
- Media attention: Our work has also been covered on LabTube (online interview), in popular Dutch Media such as Cursor, Elements and Talent (see: <http://www.noelresearchgroup.com/news/>), and we received author profiles in Angewandte Chemie, Reaction Chemistry and Engineering and Synform (<http://www.noelresearchgroup.com/timothy-noel/>). Our most covered paper details on

the development of an ‘artificial leaf’ for solar photochemistry (Angew. Chem. Int. Ed. 2017, 56, 1050; VIP article). This paper was covered by several news agencies around the world, including Reuters, Le Monde, De Volkskrant, Science & Vie, Radio BNR, Dutch Radio 1, TechCrunch, Engadget, Daily Mail, Sputnik News, Yahoo, etc. Furthermore, the discovery has been highlighted in scientific media, amongst others in Nature Photonics, The Chemical Engineer, Electro Optics and Photonics news, etc.

- Museum expositions: Our LSC-PM reactor was also exposed at the London Science Museum (<https://blog.sciencemuseum.org.uk/creating-medicine-from-sunlight/>) and in the “Shine on Me-Wir und die Sonne” exposition in the Stiftung Deutsches Hygiene Museum in Dresden.

Other professional activities

- Permanent scientific Consultant for InnoStudio, ThalesNano and Comminex (Hungary).
- Flow Chemistry consultant at Novo Nordisk.
- Member of the Board of Directors of the Flow Chemistry Society.
- I am Editor in Chief for Journal of Flow Chemistry (Since 2019); Associate Editor of Journal of Flow Chemistry (2014-2018).
- Member of the Advisory Board of Reaction Chemistry & Engineering, since February 2018.
- Conference Chair and organizer of Flow Chemistry Europe – Berlin 2015, Flow Chemistry Europe – Cambridge 2016, FROST 6 – Hungary 2017, Photo4Future symposium – Eindhoven 2018, Flow Chemistry Asia – Narita 2019, Japan.
- Member of the Faculty Council and the Scientific Committee, department Chemical Engineering & Chemistry at TU Eindhoven.
- Member of the TU/e Young Academy of Engineering (since 2018)
- Member of the COST action ‘CHAOS’ (C–H activation in organic synthesis)
- Member of the Flow Chemistry Society, Dutch Chemist Association (KNCV), American Chemical Society (ACS).
- Scientific Board member of Creaflow (development of innovative and scalable continuous-flow reactors).
- In 2012-2013, 2015-2016, 2019-2020, I was a docent coach at TU/e for novel bachelor students in the department Chemical Engineering and Chemistry.

Teaching

- I have obtained my Basis Kwalificatie Onderwijs (BKO, i.e. a Teaching Certificate for Teaching in Higher Education – obligatory in The Netherlands) in 2015.
- I have taught the following courses at Eindhoven University of Technology:

Title	ECTS	Level	# Students	Teaching method	Role	Remark
Practical Introduction Course to Chemistry and Chemical Engineering	5	B. Sc. 1	120	Practical course	Responsible Docent	Ongoing
Micro Flow Chemistry & Process Technology	5	M.Sc. 1/2	60-70	Lectures	Responsible Docent	Ongoing
Inorganic chemistry and materials	5	M.Sc. 1/2	50	Lectures	Co-docent	Ongoing
Introduction to chemical reactor technology	5	B.Sc. 2	70	Lectures	Co-docent	Three years
Advanced Organic Chemistry	5	M.Sc. 1	70	Lectures	Co-docent	Four years

- I have been “docent-coach” for four academic years for first-year bachelor students.
- I have mentored in total >40 M.Sc. thesis students and >30 B.Sc. thesis students at TU/e.

- For my vision on flow chemistry in the curriculum, see:
<https://www.chemistryworld.com/opinion/flow-into-the-chemistry-curriculum/4010382.article>