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.
Private Address	[redacted]
Work	+ 31-(0)20-525-2184
E-mail	t.noel@uva.nl
Twitter	@NoelGroupUvA, @tnoel82
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

2024 - Fellow of the Royal Society of Chemistry

2023 - ChemSocRev Pioneering Investigator Lectureship Award (Shared with Prof. Ryan Shenvi)

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 = 63; Total citations = 13,961 (updated on 13/12/2023)*

215 Photocatalytic Late-stage Functionalization of Dehydroalanine-derived Peptides in Batch and Flow.
Kaplaneris, N.; Akdeniz, M.; Fillols, M.; Arrighi, F.; Raymenants, F.; Sanil, G.; Gryko, D. T. and Noël, T., *submitted for publication.*

214 In-flow generation of thionyl fluoride (SOF_2) enables the rapid and efficient synthesis of acyl fluorides from carboxylic acids.
Mazzarella, D.; Stanic, J.; Bernus, M.; Mehdi, A. S.; Henderson, C. J.; Boutureira, O. and Noël, T., *submitted for publication.*

213 A facile strategy to determine photon flux and effective optical path length in intensified continuous-flow photoreactors.
Zondag, S. D. A.; Schuurmans, J. H. A.; Chaudhuri, A.; Visser, R. P. L.; Soares, C.; Padoin, N.; Kuijpers, K. P. L.; Dorbec, M.; van der Schaaf, J. and Noël, T., *submitted for publication.*

212 Multiphasic Continuous-Flow Reactors for Handling Gaseous Reagents in Organic Synthesis: Enhancing Efficiency and Safety in Chemical Processes.
Laporte, A. A. H.; Masson, T. M.; Zondag, S. D. A. and Noël, T. *Angew. Chem. Int. Ed.*, 2023, accepted.

211 Metal-free Photocatalytic Cross-Electrophile Coupling enables C1 Homologation and Alkylation of Carboxylic Acids with Aldehydes.
Bonciolini, S.; Pulcinella, A.; Leone, M.; Schiroli, D.; Luguera Ruiz, A.; Sorato, A.; Dubois, M.; Gopalakrishnan, R.; Masson, G.; Della Ca', N.; Protti, S.; Fagnoni, M.; Zysman-Colman, E.; Johansson, M. and Noël, T. *ChemRxiv,* **2023** DOI: 10.26434/chemrxiv-2023-fcl2j

210 Modular Synthesis of Congested b2,2-Amino Acids via the Merger of Photocatalysis and Oxidative Functionalisations.
Anwar, K.; Capaldo, L.; Wan, T.; Noël, T. and Gómez-Suárez, A. *ChemRxiv,* **2023**, DOI: 10.26434/chemrxiv-2023-dbc9d

209 Rapid and Scalable Photocatalytic $C(sp^2)$–$C(sp^3)$ Suzuki−Miyaura Cross-Coupling of Aryl Bromides with Alkyl Boranes.
Wan, T.; Capaldo, L; Djossou, J.; Staffa, A.; de Zwart, F; de Bruin, B. and Noël, T. *ChemRxiv,* **2023**, DOI: 10.26434/chemrxiv-2023-4g3xz.

208 Automated self-optimization, intensification and scale-up of photocatalysis in flow.
Slattery, A; Wen, Z; Tenblad, P.; Pintossi, D.; Sanjose-Orduna, J.; den Hartog, T. and Noël, T. *Science*, ASAP (For the preprint version, see ChemRxiv, 2023, DOI: 10.26434/chemrxiv-2023-r0drq)

207 A modular flow platform for sulfur(VI) fluoride exchange ligation of small molecules, peptides and proteins.
Bernus, M.; Mazzarella, D.; Stanic, J.; Zhai, Z.; Vazquez A. Y.; Boutureira, O. Gargano, A. F. G.; Grossmann, T. and Noël, T. Nature Synthesis, 2023, DOI: 10.1038/s44160-023-00441-0 (For the preprint version, see 10.26434/chemrxiv-2023-gngqd)

206 Telescoped synthesis of vicinal diamines via ring-opening of electrochemically generated aziridines in flow.
Laktsevich-Iskryk, M.; Krech, A.; Fokin, M.; Kimm, M.; Jarg, T.; Noël, T. and Ošeka, M. *J. Flow Chem.*, **2023** DOI: 10.1007/s41981-023-00296-8

205 Solar-Driven Continuous CO_2 Reduction to CO and CH_4 using Heterogeneous Photothermal Catalysts: a Review Outlining Recent Progress and Remaining Challenges.
Schuurmans, J.; Masson, T. M.; Zondag, S. D. A.; Buskens, P; and Noël, T. *ChemSusChem*, **2023**, e202301405.

204 Electrosynthesis of Aryliminophosphoranes in Continuous Flow.
Costa, R.; Vega, C.; Regnier, M.; Capaldo, L.; Wesenberg, L.; Lowe, G.; de Oliveira, K. and Noël, T. *Adv. Synth. Catal.*, **2023**, DOI: 10.1002/adsc.202300635. (VIP article)

203 Ni-Catalyzed Electro-Reductive Cross-Electrophile Couplings of Alkyl Amine-Derived Radical Precursors with Aryl Iodides.
Wesenberg, L. J.; Sivo, A.; Vilé, G. and Noël, T. *J. Org. Chem.* **2023**, DOI: 10.1021/acs.joc.3c00859

202 Accelerated Electrophotocatalytic C(sp^3)–H Heteroarylation Enabled by an Efficient Continuous-Flow Reactor.
Ioannou, D.; Capaldo, L.; Sanramat, J.; Reek, J. and Noël, T. *Angew. Chem. Int. ed.*, **2023**, e202315881 (For the preprint version, see 10.26434/chemrxiv-2023-1xbvv) (VIP article)

201 A field guide to flow chemistry for synthetic organic chemists.
Capaldo, L.; Wen, Z. and Noël, T. *Chem. Sci.*, **2023**, *14*, 4230-4247

200 Scale-Up of Photochemical Reactions: Transitioning from Lab Scale to Industrial Production.
Zondag, S. D. A.; Mazzarella, D. and Noël, T. *Annu. Rev. Chem. Biomol. Eng.*, **2023**, *14*, 283-300.

199 Efficient C(sp^3)-H carbonylation of light and heavy hydrocarbons with carbon monoxide via HAT photocatalysis in flow.
Raymenants, F.; Masson, T.; San Jose Orduna, J. and Noël, T. *Angew. Chem. Int. Ed.*, **2023**, *62*, e202308563 DOI: 10.1002/anie.202308563 (For the preprint version, see 10.26434/chemrxiv-2023-jbjh2) (VIP article)

198 Lights, flow, transfer.
West, T. *Nature Synthesis* **2023***, 2*, 198-199. (An interview with Timothy Noël about how flow technologies and photocatalytic methods enable C(sp^3)–H functionalization reactions.)

197 Flow photochemical Giese reaction via silane-mediated activation of alkyl bromides.
Fanini, F.; Luridiana, A.; Mazzarella, D.; Alfano, A. I.; van der Heide, P.; Rincón, J. A.; García-Losada, P.; Mateos, C.; Frederick, M. O.; Nuño, M. and Noël, T. *Tetrahedron Letters* **2023***, 117*, 154380.

196 Photocatalytic Alkylation of C(sp^3)−H Bonds Using Sulfonylhydrazones.
Pulcinella, A.; Bonciolini, S.; Lukas, F.; Sorato, A.; and Noël, T. *Angew. Chem. Int. Ed.* **2023**, *62*, e202215374 *(*Preprint available DOI: 10.26434/chemrxiv-2022-h91bz)

195 Photoinduced Halogen-Atom Transfer (XAT) by N-heterocyclic carbene boryl radicals for C(sp^3)−C(sp^3) bond formation.
Wan, T.; Capaldo, L.; Ravelli, D.; Vitullo, W.; de Zwart, F.; de Bruin, B. and Noël, T. *J. Am. Chem. Soc.* **2023**, *145*, 991-999. (preprint available DOI: 10.26434/chemrxiv-2022-8j1df)

194 Dual role of benzophenone enables a fast and scalable C-4 selective alkylation of pyridines in flow.
Sanjosé-Orduna, J.; Silva, R. C.; Raymenants, F.; Reus, B.; Thaens, J.; de Oliveira, K. T.; and Noël, T. *Chem. Sci.* **2022***, 13*, 12527-12532.

193 The Merger of Benzophenone HAT Photocatalysis and Silyl Radical-Induced XAT Enables Both Nickel-Catalyzed Cross-Electrophile Coupling and 1,2-Dicarbofunctionalization of Olefins.
Luridiana, A.; Mazzarella, D.; Capaldo, L.; Rincón, J. A.; García-Losada, P.; Mateos, C.; Frederick, M. O.; Nuño, M.; Buma, W. J. and Noël, T. *ACS Catal.* **2022**, *12*, 1216–11225.

192 Rapid and Replaceable Luminescent Coating for Silicon-Based Microreactors Enabling Energy-Efficient Solar Photochemistry.
Masson, T. M.; Zondag, S. D. A.; Debije, M. G. and Noël, T. *ACS Sus. Chem. Eng.* **2022**, *10*, 10712–10717.

191 Membrane-based TBADT recovery: increasing the sustainability of continuous-flow photocatalytic HAT transformations.
Wen, Z.; Pintossi, D.; Nuno, M. and Noël, T. *Nature Commun.* **2022**, *13*, 6147.

190 Synthetic Applications of Photocatalyzed Halogen-radical mediated Hydrogen Atom Transfer for C−H Bond Functionalization.
Bonciolini, S.; Noël, T. and Capaldo, L. *Eur. J. Org. Chem.* **2022**, *2022*, e202200417.

189 Interfacing single-atom catalysis with continuous-flow organic electrosynthesis.
Bajada, M. A.; Sanjosé-Orduna, J.; Di Liberto, G.; Tosoni, S.; Pacchioni, G.; Noël, T. and Vilé, G. *Chem. Soc. Rev.* **2022**, *51*, 3898-3925.

188 Accelerating the Photocatalytic Atom Transfer Radical Addition Reaction Induced by Bi_2O_3 with Amines: Experiment and Computation.
Riente, P.; Fianchini, M.; Pericàs, M. A.; Noel, T. *ChemCatChem.* **2022**, *14*, e202200319.

187 Direct Synthesis of α-Sulfenylated 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**, *87*, 5856-5865.

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**, *2*, 957-966.

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**, *20*, e202200011.

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 $C(sp^3)$–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. *Chem. Sci.* **2022**, *3*, 7325-7331.

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**, *21*, 705–717.

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.; Cambié, 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(sp^3)–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(sp^3)–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(sp^3)–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.; Noel, 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.; Noel, T.; Hessel, V. *AIChE J.* 2021, 67, e17067.

160 Gas Bubbles Have Controversial Effects on Taylor Flow Electrochemistry.
Cao, Y.; Soares, C.; Padoin, N.; Noel, 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.; Noel, T.; Randviir, E. P. *Chem. Commun.* **2020**, *56*, 13681–13688.

158 Optimization of a Decatungstate-Catalyzed C(sp^3) –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(sp^3)–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-alkylpyrydinium 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 Sulfonyl 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 Csp^2-Csp^3 Kumada cross-coupling in flow.
Wei, X.-J.; Abdiaj, I.; Sambiagio, 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 D_3 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 sp^3 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.; Madder, 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 D_3.
Gruber-Woelfler, H.; Escriba-Gelonch, M.; Noël, T.; Maier, M.C.; Hessel, V. *Chem. Eng. Technol.* **2017**, *40*, 2016-2024.

111 Access to cyclic gem-difluoroacyl scaffolds via electrochemical and visible light photocatalytic radical tandem cyclization of heteroaryl chlorodifluoromethyl ketones.
Adouama, C.; Keyrouz, R.; Pilet, G.; Monnereau, C.; Gueyrard, D.; Noël, T.; Medebielle, M. *Chem. Commun.* **2017**, *53*, 5653-5656.

110 Visible light induced trifluoromethylation of highly functionalized arenes and heteroarenes in continuous flow.
Abdiaj, I.; Bottecchia, C.; Alcazar, J.; Noël, T.; *Synthesis* **2017**, *49*, 4978-4985. (highlighted on the Thieme Chemistry homepage; Highlighted in "Green Chemistry Articles of Interest to the Pharmaceutical Industry" OPRD 2018, DOI: 10.1021/acs.oprd.8b00363)

109 Continuous-flow in-line solvent-switch crystallization of Vitamin D3.
Escriba-Gelonch, M.; Hessel, V.; Maier, M. C.; Neiro dÁngelo, F.; Noël, T.; Gruber-Woelfler, H. *Chem. Eng. J.* **2017**, submitted.

108 Visible-Light Photocatalytic Decarboxylation of α,β-Unsaturated Carboxylic Acids: Facile access to Stereoselective Difluoromethylated Styrenes in Batch and Flow.
Wei, X.-J.; Hessel, V.; Noël, T.; *ACS Catalysis* **2017**, *7*, 7136-7140. (Highlighted in OPRD, DOI: 10.1021/acs.oprd.7b00371)

107 A Modular Flow Design for the Meta-selective C−H Arylation of Anilines.
Gemoets, H. P. L.; Laudadio, G.; Verstraete, K.; Hessel, V.; Noël, T.; *Angew. Chem. Int. Ed.* **2017**, *56*, 7161-7165.

106 Scale up of a luminescent solar concentrator based photomicroreactor via numbering-up.
Zhao, F.; Cambie, D.; Janse, J.; Wieland, E. W.; Kuijpers, K. P. L.; Hessel, V.; Debije, M. G.; Noël, T.; **2017**, *7*, 7136-7140.

105 Every Photon Counts: Understanding and Optimizing Photon Paths in Luminescent Solar Concentrator-based Photomicroreactors (LSC-PMs).
Cambie, D.; Zhao, F.; Hessel, V.; Debije, M. G.; Noël, T.; *React. Chem. Eng.* **2017**, *2*, 561-566.

104 Merger of Visible Light Photoredox Catalysis and C–H Activation for the Room Temperature C-2 Acylation of Indoles in Batch and Flow.
Sharma, U. K.; Gemoets, H. P. L.; Schroeder, F.; Noël, T.; Van der Eycken, E. V. *ACS Catalysis.* **2017**, *7*, 3818-3823. (highlighted in OPRD **2017**, DOI: 10.1021/acs.oprd.7b00193 and DOI: 10.1021/acs.oprd.7b00251)

103 Safety assessment in development and operation of modular continuous-flow processes.
Kockmann, N.; Thenee, P.; Fleischer-Trebes, C.; Laudadio, G.; Noël, T. *React. Chem. Eng.* **2017**, *2*, 258-280.

102 A sensitivity analysis of a numbered-up photomicroreactor system.
Kuijpers, K. P. L.; van Dijk, M. A. H.; Rumeur, Q.; Hessel, V.; Su, Y.; Noël, T. *React. Chem. Eng.* **2017**, *2*, 109-115. (Invited contribution for the Emerging Investigators issue)

101 Flow Chemistry Perspective for C–H Bond Functionalization.

Laudadio, G.; Noël, T. In *Strategies for Palladium-Catalyzed Non-Directed and Directed C-H Bond Functionalization*, Maiti, D. & Kapdi, A. Eds., Elsevier, **2017**, pp. 275-288.

100 A leaf-inspired luminescent solar concentrator for energy efficient continuous-flow photochemistry.
Cambie, D.; Zhao, F.; Hessel, V.; Debije, M.G.; Noël, T. *Angew. Chem. Int. Ed.* **2017**, *56*, 1050-1054. (selected as VIP paper, which denotes the top 5% papers by the referees and the editor)

99 Practical Photocatalytic Trifluoromethylation and Hydrotrifluoromethylation of Styrenes in Batch and Flow.
Straathof, N. J. W.; Cramer, S. E.; Hessel, V.; Noël, T. *Angew. Chem. Int. Ed.* **2016**, *55*, 15549-15553.

98 Micro-Flow Photosynthesis of New Dienophiles for Inverse-Electron-Demand Diels-Alder Reactions. Potential applications for pretargeted in vivo PET imaging.
Billaud, E. M. F.; Shahbazali, E.; Ahamed, M.; Cleeren, F.; Noël, T.; Koole, M.; Verbruggen, A.; Hessel, V.; Bormans, G. *Chem. Sci.* **2017**, *8*, 1251-1258.

97 Disulfide-Catalyzed Visible-Light Oxidative Cleavage of C=C Bonds and Evidence of an Olefin-Disulfide Charge-Transfer Complex.
Deng, Y.; Wei, X.-J.; Wang, H.; Sun, Y.; Noël, T.; Wang, X. *Angew. Chem. Int. Ed.* **2017**, *56*, 832-836. (selected as Hot paper)

96 Mild and selective base-free C–H arylation of heteroarenes: Experiment and computation.
Gemoets, H. P. L.; Kalvet, I.; Nyuchev, A. V.; Erdmann, N.; Hessel, V.; Schoenebeck, F.; Noël, T. *Chem. Sci*., **2017**, *8*, 1046-1055.

95 Photo-Claisen Rearrangement of Allyl Phenyl Ether in Micro-Flow: Influence of Phenyl Core Substituents and Vision on Orthogonality.
Shahbazali, E.; Noël, T.; Hessel, V. *J. Flow Chem.,* **2016**, *6*, 252-259.

94 A mechanistic investigation of the visible light photocatalytic trifluoromethylation of heterocycles using CF_3I in flow.
Su, Y.; Kuijpers, K. P. L.; Konig, N.; Shang, M.; Hessel, V.; Noël, T. *Chem. Eur. J.,* **2016**, *22*, 12295-12300.

93 Kinetic study of hydrogen peroxide decomposition at high temperatures and concentrations in two capillary microreactors.
Shang, M.; Noël, T.; Su, Y.; Hessel, V. *AIChE J.,* **2017**, *63*, 689-697.

92 Batch and flow synthesis of disulfides by visible light induced TiO_2 photocatalysis.
Bottecchia, C.; Erdmann, N.; Tijssen, P. M. A.; Milroy, L.-G.; Brunsveld, L.; Hessel, V.; Noël, T. *ChemSusChem,* **2016**, *9*, 1781-1785. (Highlighted in OPRD DOI: 10.1021/acs.oprd.6b00321)

91 Visible Light-Induced Trifluoromethylation and Perfluoroalkylation of Cysteine Residues in Batch and Continuous Flow.
Bottecchia, C.; Wei, X.-J.; Kuijpers, K. P. L.; Hessel, V.; Noël, T. *J. Org. Chem.* **2016**, *81*, 7301-7307.

90 From alcohol to 1,2,3-triazole via a multi-step continuous-flow synthesis of a rufinamide precursor.
Borukhova, S.; Noël, T.; Metten, B.; de Vos, E.; Hessel, V. *Green Chem.* **2016**, *18*, 4947-4953.

89 Palladium-catalyzed aerobic oxidative coupling of o-xylene in flow: a safe and scalable protocol for cross-dehydrogenative coupling.

Erdmann, N. E.; Su, Y.; Bosmans, B.; Hessel, V.; Noël, T. *Org. Process Res. Dev.,* **2016**, *20*, 831-835.

88 Utilization of milli-scale coiled flow inverter in combination with phase separator for continuous-flow liquid-liquid extraction processes.
Vural-Guersel, I.; Kurt, S. K.; Aalders, J.; Wang, Q.; Noël, T.; Nigam, K.D.P.; Kockmann, N.; Hessel, V. *Chem. Eng. J.,* **2016**, *283*, 855-868.

87 Hydrogen chloride gas in solvent-free continuous conversion of alcohols to chlorides in microflow.
Borukhova, S.; Noël, T.; Hessel, V. *Org. Process Res. Dev.,* **2016**, *20*, 568-573.

86 High pressure direct synthesis of adipic acid from cyclohexene and hydrogen peroxide via capillary microreactors.
Shang, M.; Noël, T.; Su, Y.; Hessel, V. *Ind. Eng. Chem. Res.,* **2016**, *55*, 2669-2676.

85 Continuous ruthenium-catalyzed methoxycarbonylation with supercritical carbon dioxide.
Stouten, S.C.; Noël, T.; Wang, Q.; Beller, M.; Hessel, V. *Catal. Sci. Technol.,* **2016**, *6*, 4712-4717.

84 Applications of continuous-flow photochemistry in organic synthesis, material science and water treatment.
Cambié, D.; Bottecchia, C.; Straathof, N. J. W.; Hessel, V.; Noël, T. *Chem. Rev.,* **2016**, *116*, 10276-10341.

83 Continuous-flow multi-step synthesis of Cinnarizine, Cyclizine and a Buclizine derivative from bulk alcohols.
Borukhova, S.; Noël, T.; Hessel, V. *ChemSusChem,* **2016**, *9*, 67-74.

82 Accelerated Gas-liquid Visible Light Photoredox Catalysis with Continuous-Flow Photochemical Microreactors.
Straathof, N. J. W.; Su, Y.; Hessel, V.; Noël, T., *Nature Protocols,* **2016**, *11*, 10-21

81 A convenient numbering-up strategy for the scale-up of gas-liquid photoredox catalysis in flow.
Su, Y.; Kuijpers, K.; Hessel, V.; Noël, T., *React. Chem. Eng.,* **2016**, *1*, 73-81. (cover article)

80 Beyond organometallic flow chemistry: the principles behind the use of continuous-flow reactors for synthesis.
Noël, T.; Su, Y.; Hessel, V., *Top. Organomet. Chem.,* **2016**, *57*, 1-42.

79 Liquid phase oxidation chemistry in continuous-flow
Gemoets, H. P. L.; Su, Y.; Shang, M.; Hessel, V.; Luque, R.; Noël, T., *Chem. Soc. Rev.* **2016**, *45*, 83-117.

78 Leaching-Free Supported Gold Nanoparticles Catalyzing Cycloisomerizations under Microflow Conditions.
Schröder, F.; Erdmann, N.; Noël, T.; Luque, R.; Van der Eycken, E. V. *Adv. Synth. Catal.,* **2015**, *357*, 3141-3147.

77 Controlled Photocatalytic Aerobic Oxidation of Thiols to Disulfides in an Energy Efficient Photomicroreactor.
Su, Y.; Talla, A.; Hessel, V.; Noël, T., *Chem. Eng. Technol,* **2015**, *38*, 1733-1742. (cover article)

76 Heterocat, homocat, and biocat. What does better flow?
Hessel, V.; Noël, T., *Chim. Oggi* **2015**, *33*, 44-49.

75 Supported Liquid Phase Catalyst coating in micro flow Mizoroki–Heck.
Stouten, S.; Noël, T.; Wang, Q.; Hessel, V. *Chem. Eng. J* **2015**, *279*, 143-148.

74 Supported Gold Nanoparticles as an Efficient, Reusable and Green Heterogeneous Catalyst for Cycloisomerization Reactions. Schröder, F.; Ojeda, M.; Erdmann, E.; Jacobs, J.; Van Meervelt, L.; Luque, R.; Noël, T.; Van der Eycken, J.; Van der Eycken, E. V. *Green Chem.* **2015**, *17*, 3314-3318.

73 Room temperature catalysis enabled by light. Noël, T., In *Sustainable catalysis, energy-efficient reactions and applications.* Luque, R.; Lam, F., Eds, Wiley-VCH, Berlin, **2015**, 135-154.

72 Pressure-Accelerated Azide–Alkyne Cycloaddition: Micro Capillary versus Autoclave Reactor Performance. Borukhova, S.; Seeger, A. D.; Noël, T.; Wang, Q.; Busch, M.; Hessel, V., *ChemSusChem* **2015**, *8*, 504-512.

71 Separation/Recycling Methods of Homogeneous Transition Metal Catalysts in Continuous Flow. Vural-Gursel, I.; Noël, T.; Wang, Q.; Hessel, V., *Green Chem.* **2015**, *17*, 2012-2026.

70 Visible light photoredox catalysis.
Erdmann, N.; Noël, T., In *Green Chemistry in Drug Discovery: From academia to industry*, Le, P. T.; Richardson, P. F., Eds, Springer Science, **2015**, accepted for publication.

69 Reactor Concepts for Aerobic Liquid-phase Oxidation: Microreactors and tube reactors.
Gemoets, H.; Hessel, V.; Noël, T., In *Liquid Phase Aerobic Oxidation Catalysis – Industrial applications and academic perspectives*, Stahl, S. S.; Alsters, P. L., Eds, Wiley-VCH, Berlin, **2016**, pp. 399-419.

68 A compact photochemical design combining a capillary microreactor with small-scale LEDs for gas-liquid photocatalytic transformations.
Su, Y.; Hessel, V.; Noël, T., *AIChE J.* **2015**, *61*, 2215-2227.

67 Accelerating Visible Light Photoredox Catalysis in Continuous-flow Reactors.
Straathof, N. J. W.; Noël, T., In *Visible light photocatalysis in organic chemistry*, C. R. J. Stephenson, T. Yoon, D. W. C. MacMillan, Eds., Wiley-VCH, Berlin, **2018**, pp. 389-413.

66 Iridium(I)-catalyzed ortho-directed hydrogen-isotope exchange in continuous-flow reactors.
Habraken, E. R. M.; Vliegen, M.; Noël, T., *J. Flow Chem.* **2015**, *5*, 2-5.

65 Continuous Metal Scavenging and Coupling to One-pot Copper-Catalyzed Azide-Alkyne Cycloaddition Click Reaction in Flow.
Vural-Gursel, I.; Aldiansyah, F.; Wang, Q.; Noël, T.; Hessel, V. *Chem. Eng. J.* **2015**, *270*, 468-475.

64 Metal-free photocatalytic aerobic oxidation of thiols to disulfides in batch and continuous-flow.
Talla, A.; Driessen, B.; Straathof, N. J. W.; Milroy, L.-G.; Brunsveld, L.; Hessel, V.; Noël, T., *Adv. Synth. Catal.* **2015**, *357*, 2180-2186.

63 Connected nucleophilic substitution-Claisen rearrangement in flow – Analysis for kilo-lab process solutions with orthogonality.
Shahbazali, E.; Spapens, M.; Kobayashi, H.; Ookawara, S.; Noël, T.; Hessel, V. *Chem. Eng. J.* **2015**, *281*, 144-154.

62 Cross-coupling chemistry in continuous flow.
Noël, T.; Hessel, V., In *New Trends in cross-coupling: Theory and applications*, T. Colacot, Ed., RSC, Cambridge (UK), **2015**, pp. 608-642.

61 2- and 3-stage temperature ramping for the direct synthesis of adipic acid in micro-flow packed-bed reactors.
Shang, M.; Noël, T.; Wang, Q.; Su, Y.; Miyabayashi, K.; Hessel, V.; Hasebe, S., *Chem. Eng. J.* **2015**, *260*, 454-462.

60 Aerobic C–H olefination of indoles via a cross-dehydrogenative coupling in continuous flow.
Gemoets, H. P. L.; Hessel, V.; Noël, T., *Org. Lett.* **2014**, *16*, 5800-5803.

59 The Claisen Rearrangement – Part 1: Mechanisms and Transition States, Revisited with Quantum Mechanical Calculations and Ultrashort Pulse Spectroscopy
Zelentsov, S.; Hessel, V.; Shahbazali, E., Noël, T., *ChemBioEng Rev.* **2014**, *1*, 230-240.

58 The Claisen Rearrangement – Part 2: Impact Factor Analysis of the Claisen Rearrangement, in Batch and in Flow.
Hessel, V.; Shahbazali, E., Noël, T.; Zelentsov, S., *ChemBioEng Rev.* **2014**, *1*, 244-261.

57 Claisen-Umlagerung im Ruhr- und Durchflussbetrieb: Verstandnis des Mechanismus und Steuerung der Einflussgroßen
Hessel, V.; Shahbazali, E., Noël, T.; Zelentsov, S., *Chem. Ing. Tech.* **2014**, *86*, 2160-2179.

56 A mild and fast photocatalytic trifluoromethylation of thiols in batch and continuous-flow.
Straathof, N. J. W.; Tegelbeckers, B. J. P.; Hessel, V.; Wang, X.; Noël, T., *Chem. Sci.* **2014**, *5*, 4768-4773

55 Photochemical transformations accelerated in continuous-flow reactors: basic concepts and applications.
Su, Y.; Straathof, N. J. W.; Hessel, V.; Noël, T., *Chem. Eur. J.* **2014**, *20*, 10562-10589. (Highlighted on the Chem Eur J facebook webpage; highlighted on Organic Chemistry Portal by Douglass F. Taber, 28/09/2015; cover of volume 20, issue 34; As of November/December 2015, this highly cited paper received enough citations to place it in the top 1% of its academic field based on a highly cited threshold for the field and publication year. Source: Essential Science Indicators).

54 Biotechnical microflow processing at the edge: lessons to be learnt for a young discipline.
Hessel, V.; Tibhe, J.; Noël, T.; Wang, Q. *Chem. Biochem Eng. Q.* **2014**, *83*, 167-188.

53 Catalyst retention in continuous flow with supercritical carbon dioxide.
Stouten, S. C.; Noël, T.; Wang, Q.; Hessel, V. *Chem. Eng. Process.* **2014**, *28*, 26-32.

52 Micro Flow Chemistry: New possibilities for synthetic chemists.
Noël, T., In *Discovering the future of molecular sciences*, B. Pignataro, Ed., Wiley-VCH, Weinheim (Germany), **2014**, pp.137-164.

51 Eco-efficiency analysis for intensified production of an active pharmaceutical ingredient: a case study.
Hessel, V.; Dencic, I.; Ott, D.; Kralisch, D.; Noël, T.; Meuldijk, J.; de Croon, M. H. J. M.; Laribi, Y.; Perrichon, P., *Org. Process Res. Dev.* **2014**, *18*, 1326-1338.

50 Heat-integrated novel process of liquid fuel production from bioresources – process simulation and costing study.
Vural-Gursel, I.; Wang, Q.; Noël, T.; Hessel, V.; Kolb, G. A.; van Veen, A., *Chem. Eng. Trans.* **2014**, *39*, 931-936.

49 Rapid trifluoromethylation and perfluoroalkylation of five-membered heterocycles by photoredox catalysis in continuous flow.
Straathof, N. J. W.; Gemoets, H.; Wang, X.; Schouten, J. C.; Hessel, V.; Noël, T., *ChemSusChem* **2014**, *7*, 1612-1617. (*Invited artwork for the cover of ChemSusChem*)

48 Visible Light Photocatalytic Metal-Free Perfluoroalkylation of Heteroarenes in Continuous Flow.
Straathof, N. J. W.; van Osch, D. J. G. P.; Schouten, A.; Wang, X.; Schouten, J. C.; Hessel, V.; Noël, T., *J. Flow Chem.* **2014**, *4*, 12-17.

47 The accelerated preparation of 1,4-dihydropyridines using microflow reactors.
Baraldi, P.T.; Noël, T.; Wang, Q.; Hessel, V., *Tetrahedron Lett.* **2014**, *55*, 2090-2092.

46 Metallic nanoparticles made in flow and their catalytic applications in organic synthesis.
Shahbazali, E.; Hessel, V.; Noël, T.; Wang, Q., *Nanotechnology Rev.* **2014**, *3*, 65-86.

45 Solvent- and catalyst-free Huisgen cycloaddition towards Rufinamide in flow with decision on a greener and less expensive dipolarophile.
Borukhova, S.; Noël, T.; Metten, B.; de Vos, E.; Hessel, V., *ChemSusChem* **2013**, *6*, 2220-2225.

44 Ferrocene-derived P,N ligands: Synthesis and application in enantioselective catalysis.
Noël, T.; Van der Eycken, J., *Green Processing and Synthesis* **2013**, *2*, 297-309.

43 Improving energy efficiency of process of adipic acid synthesis in flow using pinch analysis.
Vural-Gursel, I.; Wang, Q.; Noël, T.; Hessel, V.; Tinge, J. T., *Ind. Eng. Chem. Res.* **2013**, *52*, 7827-7835.

42 Flow Synthesis of phenylserine using threonine aldolase immobilized on Eupergit support.
Tibhe, J.; Fu, H.; Noël, T.; Wang, Q.; Meuldijk, J.; Hessel, V., *Beilstein J. Org. Chem.* **2013**, *9*, 2168-2179.

41 Accelerating photoredox catalysis in continuous microflow.
Noël, T.; Wang, X.; Hessel, V., *Monographic suppl. Series of Chimica Oggi - Chem. Today: Organometallic chemistry, biocatalysis and catalysis,* **2013,** *31*, 10-14.

40 A mild, one-pot Stadler-Ziegler synthesis of arylsulfides facilitated by photoredox catalysis in batch and continuous-flow.
Wang, X.; Cuny, G. D.; Noël, T., *Angew. Chem. Int. Ed.* **2013**, *52*, 7860-7864.

39 Lipase based biocatalytic flow process in a packed bed microreactor.
Dencic, I.; de Vaan, S.; Noël, T.; Meuldijk, J.; de Croon, M.; Hessel, V., *Ind. Eng. Chem. Res.* **2013**, *52*, 10951-10960.

38 Novel Process Windows for Enabling, Speeding-up and Uplifting Flow Chemistry.
Hessel, V.; Kralisch, D.; Kockmann, N.; Noël, T.; Wang, Q., *ChemSusChem* **2013**, *6*, 746-789. (Special attention: one of the most frequently cited papers in ChemSusChem among those published in 2012 or 2013; most cited paper in 2015)

37 The impact of Novel Process Windows on the Claisen rearrangement.
Kobayashi, H.; Driessen, B.; van Osch, D. J. G. P.; Talla, A., Noël, T.; Hessel, V., *Tetrahedron* **2013**, *69*, 2885-2890.

36 Implementation of heat integration for efficient process design of direct adipic acid synthesis in flow.
Vural-Gürsel, I.; Wang, Q.; Noël, T.; Hessel, V. *Chem. Eng. Trans.* **2013**, *35*, 775-780.

35 A view through Novel Process Windows.
Stouten, S. C.; Noël, T.; Wang, Q.; Hessel, *Aust. J. Chem.* **2013**, *66*, 121-130.

34 Supported aqueous phase catalyst coating in micro flow Mizoroki-Heck reaction.
Stouten, S. C.; Noël, T.; Wang, Q.; Hessel, *Tetrahedron Lett.* **2013**, *54*, 2194-2198.

33 Packed-bed microreactor for continuous-flow adipic acid synthesis from cyclohexene and hydrogen peroxide.
Shang, M.; Noël, T.; Wang, Q.; Hessel, V. *Chem. Eng. Technol.* **2013**, *36*, 1001-1009.

32 Micro Process Technology – 3. Applications

Hessel, V.; Noël, T. *Ullmann's Encyclopedia of Industrial Chemistry*, DOI: 10.1002/14356007.o16_o02.

31 Membrane microreactors: Gas-liquid reactions made easy.
Noël, T.; Hessel, V. *ChemSusChem* **2013**, *6*, 405-407.

30 Micro reaction technology for valorization of biomolecules using enzymes and metal catalysts.
Dencic, I.; Noël, T.; Meuldijk, J.; de Croon, M.; Hessel, V. *Eng. Life Sci.* **2013**, *13*, 326-343.

29 Chemical intensification in flow chemistry through harsh reaction conditions and new reaction design.
Noël, T.; Hessel, V. In *Microreactors in preparative chemistry: Practical aspects in bioprocessing, nanotechnology, catalysis and more*, W. Reschetilowski, Ed., Wiley-VCH, Weinheim (Germany), **2013**, pp. 273-295. (DOI: 10.1002/9783527652891.ch11)

28 Direct synthesis of adipic acid in flow – A sustainable process alternative.
Vural-Gürsel, I.; Wang, Q.; Noël, T.; Hessel, V. *Chem. Eng. Trans.* **2012**, *29*, 565-570.

27 Green is the future of chemistry.
Noël, T. *Green Proc. Synth.* **2012**, *1*, 399-401.

26 Window of opportunity – Increase in profitability using modular compact plants and microreactor based flow processing.
Vural-Gürsel, I.; Hessel, V.; Wang, Q.; Noël, T.; Lang, J. *Green Proc. Synth.* **2012**, *1*, 315-336.

25 Chiral imidate-ferrocenylphosphanes: Synthesis and application as P,N-ligands in iridium(I)-catalyzed hydrogenation of unfunctionalized and poorly functionalized olefins.
Bert, K.; Noël, T.; Kimpe, W.; Goeman, J. L.; Van der Eycken, J. *Org. Biomol. Chem.* **2012**, *10*, 8539-8550.

24 Threonine aldolase immobilization on different supports for engineering of productive, cost-efficient enzymatic microreactors.
Fu, H.; Dencic, I.; Tibhe, J.; Pedraza, C. A. S.; Wang, Q.; Noël, T.; Meuldijk, J.; de Croon, M.; Hessel, V.; Weizenmann, N.; Oeser, T.; Kinkeade, T.; Hyatt, D.; Van Roy, S.; Dejonghe, W.; Diels, L. *Chem. Eng. J.* **2012**, *207-208*, 564-576.

23 Modeling of anionic polymerization in flow with coupled variations of concentration, viscosity and diffusivity.
Cortese, B.; Noël, T.; de Croon, M.H.J.M.; Schulze, S.; Klemm, E.; Hessel, V. *Macromol. React. Eng.* **2012**, *6*, 507-515. (Cover article)

22 Copper(I)-catalyzed azide-alkyne cycloadditions in microflow: Catalyst activity, high T operation, and an integrated continuous copper scavenging unit.
Varas, A. C.; Noël, T.; Wang, Q.; Hessel, V. *ChemSusChem* **2012**, *5*, 1703-1707.

21 Micro Process Technology – 1. Introduction
Hessel, V.; Noël, T. *Ullmann's Encyclopedia of Industrial Chemistry*, DOI: 10.1002/14356007.q16_q01

20 Micro Process Technology – 2. Processing
Hessel, V.; Noël, T. *Ullmann's Encyclopedia of Industrial Chemistry*, DOI: 10.1002/14356007.b16_b37.pub2

19 Potential analysis of smart flow processing and micro process technology for fastening process development – Use of chemistry and process design as intensification fields.
Hessel, V.; Vural-Gürsel, I.; Wang, Q.; Noël, T.; Lang, J. *Chem. Eng. Technol.* **2012**, *35*, 1184-1204.

18 Potentialanalyse von Milli- und Mikroprozesstechniken fuer die Verkuerzung von Prozessentwicklungszeiten – Chemie und Prozess Design als Intensivierungsfelder.
Hessel, V.; Vural-Gürsel, I.; Wang, Q.; Noël, T.; Lang, J. *Chem. Ing. Tech.* **2012**, *84*, 660-684.

17 Chiral Imidate Ligands: Synthesis and Applications in Asymmetric Catalysis.
Noël, T.; Bert, K.; Janssens, P.; Van der Eycken, J. In *Innovative Catalysis in Organic Synthesis: Oxidations, Hydrogenations and C–X Bond Forming Reactions*, P. G. Andersson, Ed., Wiley-VCH, Weinheim (Germany), **2012**, pp. 309-325.

16 Accelerating Pd-catalyzed C–F bond formation: Use of a microflow packed-bed reactor.
Noël, T.; Maimone, T. J.; Buchwald, S.L. *Angew. Chem. Int. Ed.* **2011**, *50*, 8900-8903.
(*Selected as a hot paper by the editors of Angewandte Chemie. Highlighted in Org. Process Res. Dev.* **2012** *DOI: 10.1021/op300251d*)

15 Suzuki-Miyaura cross-coupling of heteroaryl halides and aryl boronic acids in continuous-flow.
Noël, T.; Musacchio, A. J. *Org. Lett.* **2011**, *13*, 5180-5183.

14 A Teflon microreactor with integrated piezoelectric actuator to handle solid forming reactions.
Kuhn, S.; Noël, T.; Gu, L.; Heider, P. L.; Jensen, K. F. *Lab Chip* **2011**, *11*, 2488-2492.
(*Selected as a Hot Paper; Invited artwork for the cover of Lab on a Chip, volume 11, number 15*)

13 Suzuki-Miyaura cross-coupling reactions in flow: Multistep synthesis enabled by a microfluidic extraction.
Noël, T.; Kuhn, S.; Musacchio, A. J.; Jensen, K.F.; Buchwald, S.L. *Angew. Chem. Int. Ed.* **2011**, *50*, 5943-5946.
(*Highlighted in Chemical & Engineering News* **2011**, *89*, pp. 39)

12 Palladium-catalyzed amination reactions in flow: overcoming the challenges of clogging *via* acoustic irradiation.
Noël, T.; Naber, J.R.; Hartman, R.L.; McMullen, J.P.; Jensen, K.F.; Buchwald, S.L. *Chem. Sci.* **2011**, *2*, 287-290.
(*Highlighted in Chemistry World + interview with T. Noël: 13 january 2011; Highlighted in Conveying News: 24 january 2011; Top Ten Most Accessed Articles in December 2010, January 2011*)

11 Chloro(2-dicyclohexylphosphino-2',4',6'-triisopropyl-1,1'-biphenyl)[2-(2-aminoethyl)phenyl)]palladium (II), XPhos first generation precatalyst.
Noël, T. *e-EROS Encyclopedia of Reagents for Organic Synthesis* **2011**, DOI: 10.1002/047084289X.rn01343.

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 C_2-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 C_2-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 C_2-symmetric ligands for asymmetric transition metal catalysis.
Vervecken, E.; Van Overschelde, M.; Noël, T.; Gök, Y.; Alvárez 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.

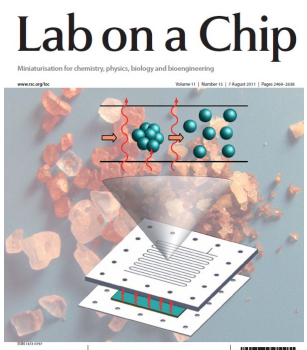
2 Efficient one-step synthesis of chiral oxazoline-alcohol ligands via a cyclic imidate ester rearrangement.
Noël, T.; Robeyns, K.; Van Meervelt, L.; Van der Eycken, E.; Van der Eycken, J. *Tetrahedron: Asymmetry* **2009**, *20*, 1962-1968.

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

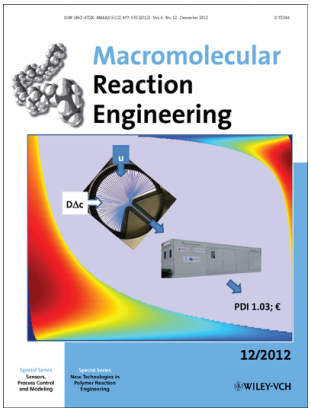
1 A CHANGE OF ART - There's more to chemistry than the round-bottomed flask
Noël, T. *Chemistry World* **2019**, Link: https://www.chemistryworld.com/opinion/flow-into-the-chemistry-curriculum/4010382.article.

Cover articles



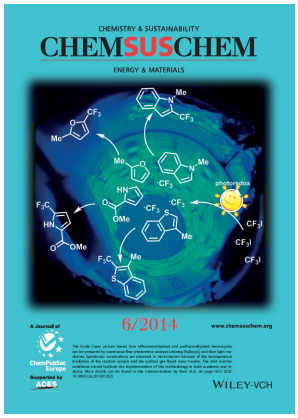
Lab Chip

2011, *11*, 2488-2492



Macromol. React. Eng.

2012, *6*, 507-515

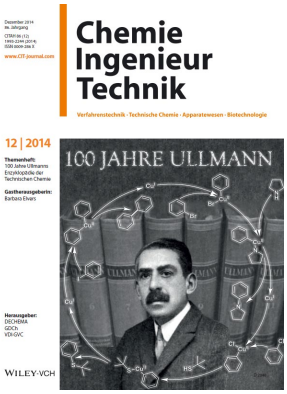


ChemSusChem

2014, *7*, 1612-1617

Chem. Eur. J.

2014, *20*, 10562-10589

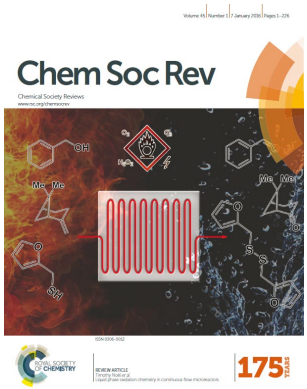


Chem. Ing. Tech.

2014, *12*, 2160-2179

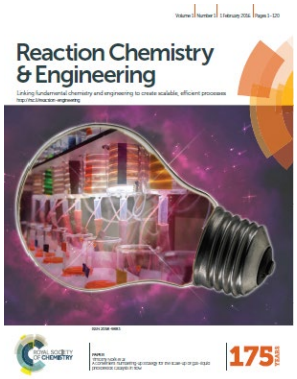
Chem. Eng. Technol.

2015, *38*, 1733-1742



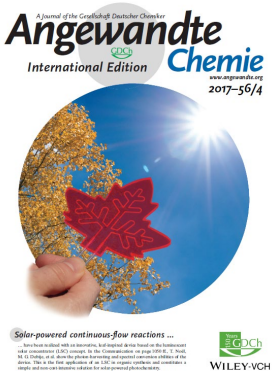
Chem. Soc. Rev.

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)
2018 ACHEMA 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, Hawai, 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)

2023 *Merging methodology & technology for light-mediated synthesis.*
Ting Wan (UvA).
2022 *Green, scalable and automated photochemistry in flow.*
Zhenghui Wen (UvA).
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)

2022 Dr. Luca Capaldo. Current position: Assistant Professor (U Parma, Italy)
2022 Dr. Lars Wesenberg. Current position: SpiroChem (Basel, Switzerland)
2022 Dr. Grace Lowe. Current position: Start up (UK)
2022 Dr. Alberto Luridiana. Current position: Assistant Professor (U Cagliari, Italy)
2022 Dr. Daniele Mazzarella. Current position: Assistant Professor (U Padova, Italy)
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. Gabriele Laudadio. Current position: Postdoc in Baran Group (Scripps, La Jolla, USA)
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 Guangdon 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 Boehringher 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

2024	Industrial grant from Covestro, 1 PhD. *RoboChem.*	600 k€
2023	EIC Pathfinder Open 2021, 1 PhD *Fibre-based plasmonic micro reactor for flow chemistry (reaCtor)*	3,112 k€
2023	NWO-OTP, 1 PhD Developing an innovative reactor for industrially relevant photocatalytic conversions (PhotoScale)	1,000 k€
2023	Marie Curie ITN, 1 PhD position. *Microprocess Engineering for Electrosynthesis - new synthesis concepts for pharmaceutical/ fine chemical industry (MIEL)*	
2022-3	Industrial grant from Novartis, 1 PD. *New metallophotocatalytic approaches to establish C(sp2)–C(sp3) bonds using non-precious metal photocatalysts*	300 k€
2022	NWO ENW M2 Grant, 1 PhD. *Bioorthogonal photocatalytic reactions for the site-specific modification of antibodies (PClabel)*	700 k€
2022	ERC Consolidator Grant, 4 PhD + 1 Postdoc position. *Site-selective C(sp3)–H functionalization with gaseous rea-gents using Hydrogen Atom Transfer photocatalysis in flow (FlowHAT)*	2,000 k€
2022	Marie Curie ITN, 1 PhD position. *Green and digital continuous-flow pharmaceutical manufacturing (GreenDigiPharma)*	2,681 k€
2022	Horizon-RIA grant, 1 PhD + 1 Postdoc position. *Merging sustainable and digital chemical technologies for the development of greener-by-design pharmaceuticals (SusPharma)*	6,898 k€

2022	Horizon-RIA grant, 2 Postdoc positions. *Artificial PHOTOsynthesis to produce FUELs and chemicals: hybrid systems with microorganisms for improved light harvesting and CO_2 reduction (Photo2Fuel)*	3,171 k€
2022	EIC Pathfinder Open 2021, 1 PhD *Reaction robot with intimate photocatalytic and separation functions in a 3-D network driven by artificial intelligence (CATART)*	3,255 k€
2022	Marie Curie Intra-European Fellowship, Dr. Jesus Orduna. *Selective Alkylation of Complex Molecules in Flow (SELECTFLOW)*	188 k€
2021	Marie Curie Intra-European Fellowship, Dr. Daniele Mazzarella. *Constructing chiral molecules merging ELECTRochemistry and ORGANOcatalysis (ELECTRORGANO)*	176 k€
2021	Marie Curie Intra-European Fellowship, Dr. Luca Capaldo. *Flow Photoelectrocatalysis via Hydrogen-Atom Transfer: net-oxidative C-H to C-C bond conversion (HAT-TRICK)*	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. *FLow chemistry for Isotopic eXchange (FLIX)*	3,470 k€
2019	Marie Curie Intra-European Fellowship, Dr. Laura Buglioni *Electrochemical Sulfonylation of Lysine Residues in Continuous Flow Microreactors* (*Electrosulf)*	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.	178 k€

	Application of Metal Oxide Semiconductors in Photocatalysis (MOSPhotocat)	
2018	Marie Curie Intra-European Fellowship, Dr. Carlo Sambiagio. *Flow Chemistry for CH activation (FlowAct)*	166 k€
2017	Host of a CSC scholarship, Ir. Yiran Cao. *Electrochemistry in flow.*	200 k€
2017	Collaboration with AbbVie. *CH oxidation.*	25 k€
2015	VIDI award from Dutch Science Foundation, NWO, personal grant. *Sensitized photoredox catalysis in continuous-flow microreactors* (SensPhotoFlow).	800 k€
2015	Marie Curie Innovative Training Network, coordinator of the project, incl. 3 Ph.D. positions and a part-time project manager. *Accelerating photoredox catalysis in continuous-flow systems.* (Photo4Future)	2,289 k€
2014	Marie Curie Intra-European Fellowship, Dr. Yuanhai Su. *Synthesis of trifluoromethylstyrene compounds via gas-liquid photoredox catalysis in continuous-flow microreactors.* (PhotoFlow)	200 k€
2013	CatchBio grant from Dutch Science Foundation, NWO. *Boosting organometallic-catalyzed C–H oxidation reactions in continuous-flow microreactors.*	225 k€
2013	ECHO grant from Dutch Science Foundation, NWO. *Breaking the unbreakable: C-H carbonylation in micro flow and vision to process.*	260 k€
2013	Marie Curie Career Integration Grant, personal grant. *C–H Activation and Carbonylation in Continuous Microflow (FLACH)*	100 k€
2012	VENI award from Dutch Science Foundation, NWO, personal grant. *The Fluor Revolution: Boosting Fluorination in Continuous-Flow.*	250 k€
2010	Fulbright-Hays award, Bureau of Educational and Cultural Affairs, US Department of State, personal grant. *Multistep Microchemical Synthesis of Imatinib – Towards a Continuous Manufacturing of Pharmaceuticals.*	---[a]
2005-2009	Extraordinary Research Fund fellow (BOF grant), personal grant. *Novel efficient chiral ligands for asymmetric catalysis.*	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, Synlett, ACS Organic & Inorganic Au, Advanced Synthesis and Catalysis.
- 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 teach at University of Amsterdam the course on Flow Chemistry and have implemented Flow Chemistry in the practical course.
- 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