Curriculum vitae

PERSONAL INFORMATION

Family name, First name:	Gautun, Odd Reidar		
Date of birth:	14.09.1961	Sex:	M
Nationality:	Norwegian		

HIGHER EDUCATION/OTHER TRAINING

	Subjects/degree/	Name of institution, country
1993	Organic Chemistry/Dr.ing.	NTH, Norway
1986	Organic Chemistry/Siv.ing. (Master for technology)	NTH, Norway

POSITIONS

Current Position

	Job title/name of employer/country
2000-	Associate Professor of Chemistry/Dep. of Chemistry, NTNU/Norway

Previous positions held

	Job title/name of employer/country
1996-2000	Associate Professor (Organic Synthesis) (5 years)/Dep. of Chemistry, UiT/Norway
1994-1995	Post doc/University of Uppsala (2 years)/Sweden
1992-1993	Researcher/NTH (Statoil project, 2 years)/Trondheim

Positions in professional associations

(2017 –) Section leader, organic chemistry group, IKJ, NTNU

(2015 –) Board member, Norwegian Chemical Society, Trondheim branch

PROJECT MANAGEMENT EXPERIENCE

	Project/topic/role in project/funding from
2017-2021	RAPid quantitative VIRal detection using organic electronic sensors in lateral flow (RAPVIR) – post docs, research project/partner and supervisor in organic synthesis/RCN no 262152
2018-2022	Preparation of Efficient and Stable Dye-Sensitized Solar Cells (DSSCs) – David M. Almenningen PhD project/supervisor/NTNU stipend
2019-2023	Synthesis of stable isotope labelled poly-/per-halogenated alkanes as reference standards for environmental analysis. Solveig Valderhaug Industrial PhD project (nærings PhD), industrial partner CHIRON AS /supervisor/RCN no 298628
2015-	Building up a new laboratory in organic electronics at Department of Chemistry, NTNU/partner/other key partners Prof. John de Mello, Assoc Prof. Solon Oikonomopoulos and Prof Bård Helge Hoff

TRACK RECORD

Odd Reidar Gautun received his Siv. Ing. degree in organic synthetic chemistry from Department of Organic Chemistry, NTH in 1987, and completed his Dr. ing. thesis in physical and synthetic organic chemistry in 1993 at the same department. His research experience is broad and covers different aspects of synthetic organic chemistry: (*i*) mechanistic studies of organic reactions, (*ii*) development of new synthetic methodology, including organo-metallic chemistry, (iii) tactics and synthesis planning of more complex targets, and (iv) synthesis and structure activity studies (SAR) of libraries targeted for medicinal compounds (antibacterial) and organic electronics (dyes for Dye-Sensitized Solar Cells, DSSC). He has published ca 60 papers, and supervised post docs (3), PhDs (8 + 1 current) and master students (62 + 4 current).

Publication List for 2018-2023

* Synthesis, identification, chiral separation and crystal structure of (3*R*,4*R*,7*S*,8*S*)-3,4,7,8-tetrachlorodecane and its stereoisomers. Solveig Valderhaug, Natalie Paškanová, Jiří Tůma, Jana Herciková, Václav Eigner, Huiling Liu, Alexey Gorovoy, Jon Eigill Johansen, Odd Reidar Gautun. Submitted to *Journal of molecular structure*.

* Synthesis of constitutionally defined chlorinated paraffins as reference standards. Solveig Valderhaug, Huiling Liu, Alexey Gorovoy, Jon Eigill Johansen, Odd Reidar Gautun. Submitted to *Results in Chemistry.*

* Strategies for successful Suzuki-Miyaura cross-couplings with thienylboronic acids: From model studies to dye structures. Eivind Andreas Strømsodd, Audun Formo Buene, David Moe Almenningen, Odd Reidar Gautun, Bård Helge Hoff. *Dyes and pigments* 2023, *209*, 110899. DOI: 10.1016/j.dyepig.2022.110899

* Synthetic Efforts to Investigate the Effect of Planarizing the Triarylamine Geometry in Dyes for Dye-Sensitized Solar Cells. David Moe Almenningen, Veslemøy Minge Engh, Eivind Andreas Strømsodd, Henrik Erring Hansen, Audun Formo Buene, Bård Helge Hoff, Odd Reidar Gautun. *ACS Omega* 2022, *7*, 22046. DOI: 10.1021/acsomega.2c03163

* Adamantyl Side Chains as Anti-Aggregating Moieties in Dyes for Dye-Sensitized Solar Cells. David Moe Almenningen, Brita Susanne Haga, Henrik Erring Hansen, Audun Formo Buene, Bård Helge Hoff, Odd Reidar Gautun. *Chemistry - A European Journal* 2022, *28*, e202201726. DOI: 10.1002/chem.202201726

* Effect of seven different terthiophene π-spacers on dye performance in dye-sensitized solar cells. David Moe Almenningen, Henrik Erring Hansen, Audun Formo Buene, Bård Helge Hoff, Odd Reidar Gautun. *Dyes and Pigments* 2022, *207*, 110700. DOI: 10.1016/j.dyepig.2022.110700

* Nuclear magnetic resonance as a tool to determine chlorine percentage of chlorinated paraffin mixtures. Solveig Valderhaug, Liu Huiling, Alexey Gorovoy, Jon Eigill Johansen, Louise van Mourik, Jacob de Boer, Odd Reidar Gautun. *Chemosphere* 2022, *308*. 136312. DOI: 10.1016/j.chemosphere.2022.136312

* Effect of thiophene-based π-spacers on N-arylphenothiazine dyes for dye-sensitized solar cells. David Moe Almenningen, Henrik Erring Hansen, Martin Furru Vold, Audun Formo Buene, Vishwesh Venkatraman, Svein Sunde, Bård Helge Hoff, Odd Reidar Gautun. *Dyes and Pigments* 2021, *185*, 108951. DOI: 10.1016/j.dyepig.2020.108951

* First Report of Chenodeoxycholic Acid-Substituted Dyes Improving the Dye Monolayer Quality in Dye-Sensitized Solar Cells. Audun Formo Buene, David Moe Almenningen, Anders Hagfeldt, Odd Reidar Gautun, Bård Helge Hoff. *Solar RRL* 2020, *4*, 1900569. DOI: 10.1002/solr.201900569

* Synthesis of Novel 3,6-Dithienyl Diketopyrrolopyrrole Dyes by Direct C-H Arylation. Amsalu Efrem Yemene, Vishwesh Venkatraman, David Moe Almenningen, Bård Helge Hoff, Odd Reidar Gautun. *Molecules* 2020, *25*, 2349. DOI: 10.3390/molecules25102349

* Effect of π-linkers on phenothiazine sensitizers for dye-sensitized solar cells. Audun F. Buene, Nora Uggerud, Solon P. Economopoulos, Odd R. Gautun and Bård H. Hoff. *Dyes and Pigments* 2018, *151*, 263. DOI: 10.1016/j.dyepig.2018.01.011

* Synthesis, Characterization and Drug Loading of Multiresponsive p(NIPAM-*co*-PEGMA] (core)/p[NIPAm-*co*-AAc] (Shell) Nanogels with Monodisperse Size Distribution. Rajesh Raju, Sulalit Bandyopadhyay, Anuvansh Sharma, Susana V. Gonzalez, Per H. Carlsen, Odd R. Gautun, Wilhelm R. Glomm. *Polymers* 2018, *10*, 309. DOI: 10.3390/polym10030309