

**Curriculum Vitae**

Name: Thies Thiemann  
*Affiliation:* Faculty of Science, United Arab Emirates University, Al Ain, UAE  
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Date of Birth: June 27<sup>th</sup>, 1960  
Place of Birth: Kiel, Germany  
Marital Status: married, two sons  
Tim-Sebastian, born March 18<sup>th</sup>, 1998  
Nicholas-Joel, born Oct. 25<sup>th</sup>, 1999



Education:

1966 – 1967 Carl-Eitz-Schule, Pinneberg, Germany  
1967 – 1968 Academy Street School, Glassboro, N.J., USA  
1968 – 1970 Carl-Eitz-Schule, Pinneberg, Germany  
1970 – 1971 Theodor-Heuss Gymnasium, Pinneberg, Germany  
1971 – 1972 Yokohama International School, Yokohama, Japan  
1972 – 1975 Deutsche Schule Tokyo, Tokyo, Japan  
1975 – 1977 Staples High School, Westport, Conn., USA  
High School Graduation (Honors)  
1977 – 1979 Theodor-Heuss-Gymnasium, Pinneberg, Germany  
Abitur (German High School Graduation)  
  
1979 – 1980 Compulsory Military Service (Hamburg, Flensburg, Germany)

University Studies:

1980 – 1982 University of Hamburg, Germany (Majors: Chemistry and Physics)

1982 – 1983 University of Tübingen, Germany

1983 – 1992 University of Hamburg, Germany

(Organic Chemistry)

MSc equivalent degree (Diplom) 1986

PhD-thesis (with Prof. Dr. A. de Meijere): Neue Möglichkeiten zur Darstellung von Aminocyclopropan-carbonsäuren und spirocyclopropan-annelierten Alicyclen; neue oligofunktionelle Bausteine für homochirale Diquinan- und Cyclopentanderivate

*(New possibilities for the preparation of cyclopropane amino acids and spirocyclopropane annelated alicycles; new oligofunctional building blocks for homochiral diquinanes and cyclopentane-derivatives)*

1978 – 1982 Stipendiat der deutschen Studienstiftung

Activities up to the acquisition of the PhD degree:

Summer 1982 Industrial vocational training, refinery, Notre Dame de Gravenchon, Normandy, France

Summer 1983 Industrial vocational training, refinery, Coryton, Essex, UK

1984 – 1985 Demonstrator for the Experimental Lecture in Physical Chemistry

1986 – 1987 Employed within a project of the Deutsche Forschungsgemeinschaft (DFG) (University of Hamburg)

1987 – 1990 Employed as Assistant at the University of Hamburg (Institute of Organic

Chemistry)

Teaching: Advanced Lab Courses in Organic Chemistry

1991 Employed within a project of the Deutsche Forschungsgemeinschaft (DFG)  
(University of Hamburg)

Teaching (1991): Lab Courses for Medical Students

Postdoctoral and Employment History:

1992 – 1993 Post-doctoral fellow at the Institute of Advanced Material Study (Prof. Dr. M. Tashiro), Kyushu University, Fukuoka, Japan

1993 – 1994 Assistant Professor at the Institute of Advanced Material Study, Kyushu University, Fukuoka, Japan

Topics of Research: Oxidative cycloaddition of thiophenes in the construction of novel cyclophanes and crown ethers; synthesis and photochemical behaviour of C-16 substituted steroids.

Teaching (Class): Aromatic Chemistry

1995 – 1996 Employed within a European Research Programme (HCM) on Sonoelectrochemistry, based at the University of Coimbra, Portugal (Prof. Dr. A. Campos-Neves)

Topics of Research: Electrochemical transformations of steroids and heterocycles.

1996 – Collaboration with the Instituto Tecnológico e Nuclear, Lisbon, Portugal  
(Member of a PRAXIS Project 1997 – 1999)

1996 Joint project between the University of Hamburg and Beiersdorf AG, Hamburg  
(Dr. V. Vill)

Topics of Research: Lyotropic behaviour of gels as basic structures

1997 Employed within a CECA project on char-based de-NO<sub>x</sub> catalysts, based at the Université Libre de Bruxelles, Belgium (Prof. Dr. A. Fontana, Prof. Dr. C. Braekman-Danheux)

Topics of Research: Studies on and activation of chars from the co-pyrolysis of waste oils and coal as potential de-NO<sub>x</sub> catalysts (SEM, studies of surface areas, determination of metal distribution and content in heterogeneous materials, steam activation of chars)

Teaching: Lab Classes for Chemical Engineering Students

1997 – 2006 Associate Professor at the Institute Advanced Material Study, then at the Institute of Materials Chemistry and Engineering, Kyushu University, Fukuoka, Japan

Topics of Research: Thiophene *S*-monoxides (Synthesis, Reactivity [incl. Photo- and Electrochemistry, Physical Properties, and Applications]); C7-substituted Steroids as Potential Radioligands for Tumour Imaging, Expanded Steroids, Multi-component one-pot reactions under metal catalysis

Teaching (Classes): Organometallic Chemistry, Reactive Intermediates, Spectroscopy of Organic Compounds; Chemistry and the Environment

Collaborations: A. de Meijere (Goettingen, Germany), C. das Neves Oliveira (and formerly L. Catela) (ITN, Sacavem, Portugal), F. Marken (U. Loughborough, UK; formerly with R. Compton, Oxford U., UK), A. Oliveira Brett (U. Coimbra, Portugal), D. J. Walton (Coventry U., UK), V. Vill (U. Hamburg, Germany), J. Iniesta (Alicante U., Spain), I. Mochida (Kyushu U., Japan)

2006 - 2009 Associate Professor, Interdisciplinary Graduate School of Engineering Sciences, Kyushu University

Teaching (Classes): Chemistry and the Environment Parts 1 and 2; Organic Materials (International Doctor Course Students); Debate Course on Energy Policy (within the G-COE course of IGSES)

2008 Invitation for the position of Professor, Universiti Teknologi Malaysia (UTM) (declined)

2009 - Professor, United Arab Emirates University, Al Ain, UAE

Teaching (Classes): Organic Chemistry I, Organic Chemistry II, General Chemistry, General Chemistry Engineering Application I, Organic Chemistry – Engineering Application I and II, Organic Chemistry for Non-Majors, Ethics in Scientific Research I (PhD course, Master course), Advanced Organic Synthesis (Graduate course), Advanced Organic Chemistry and Biocatalysis (PhD course, co-teaching), Natural Product Chemistry (PhD course), Catalysis in Chemistry (PhD course), Special Topics in Organic Chemistry (Photochemistry, PhD course), Professional Transferable Skills Course, Independent Study Course (MSc course, Water logistics in the UAE), Research Methodology Skills (General Education Course), Special Topics in Inorganic Chemistry (PhD course), Organic Reaction Mechanisms (PhD course), Special Topics in Organic Chemistry – Heterocycles (Graduate Course), Graduation Project in Chemical Engineering (GP1-Eng, Undergraduate), Research Project (Chemistry, Undergraduate), Internship, Spectroscopy of small molecules (Graduate Course), Independent Study (MEnv Course, Development of HSE management systems), Independent Study (MEnv Course, Organic Materials), Independent Study (MEnv Course, Dust on Solar Photovoltaics), Special Topics in Environmental Sciences (MEnv Course, Waste Treatment), Ethics in Scientific Research II (PhD course), Environmental Chemistry (MEnv Course), Polymer Chemistry (MSc Course), Research Project (Biology, Co-advisor, Undergraduate), Special Topics – Corrosion (MSc Course), Independent Study (MSc Course, Waste Treatment), Independent Study (MSc Course, Green corrosion inhibitors), Selected Topics in Organic Reaction Mechanisms (PhD course)

Collaborations V. Vill, B. Bugenhagen (U. Hamburg, Germany), J. Iniesta (Alicante U., Spain), C. das Neves Oliveira (ITN, Sacavem, Portugal), C. Panicker (TKM College, Kollam, India)

Supervision of graduate students: BSc (thesis): 2; MSc: 15; DSc: 3, all at Kyushu U., Fukuoka,

Japan (1999 – 2009); DSc-equivalent degree at ITN, Sacavem, Portugal (2000): 1; Dpharm degree at the University of Lisbon, Portugal (2006): 1; MEnv degree at the United Arab Emirates University, UAE (2013;2018): 2; MSc degree at the United Arab Emirates University (2015-2021): 6; MEnv degree (CS, 2023):1; PhD at the United Arab Emirates University (CS, Env Sci., 2022): 1.

Co-Supervision of graduate students at universities other than Kyushu U. and UAEU: MEng (Env. Eng.): 1 (Heriot-Watt U., Dubai, UAE, 2021); PhD (Zool.): 1 (Islamia U. Bahawalpur, Pakistan, 2023)

Host of Postdoctoral fellows: 2 (2001-2002; 2004-2005) and co-hosting of a postdoctoral fellow (main host at Coventry U., UK, 2003-2004).

Trainees: 1 (U. Hamburg, auszubildende Chemielaborantin, 1989); 1 (Al Jahili Institute of Science and Technology, Adveti, Al Ain, 2023)

External Referee: Promotion at the Dept. of Solid State Physics, Indian Association for the Cultivation of Science, Calcutta, India (2000-2001[1])

External Referee: Faculty Promotion at the King Abdulaziz University, Jeddah, Saudi Arabia (2010[1]/2016[1]/2017[1]/2018[1]/2021[1]/2022[1]/2023[1]); Jazan University, Jazan, Saudi Arabia (2014[1]/2015[1]/2019[1]); Umm Al Qura University, Mecca, Saudi Arabia (2023[1])

External Referee (Doctoral Thesis): Benares Hindi University, Benares, India (2007[1]/2009[1]), University of Lisbon, Portugal (2011[1]), Karpagam University, Coimbatore, India (Dept. of Physics, 2014[1]/ 2016-2017[1]), KwaZulu University, Durban, Rep. of South Africa (2020[1])

Internal evaluator (MSc thesis): UAEU (2020[1];2021[1])

External Referee: Project Funding at the Sultan Qaboos University in Muscat, Oman (2009)

Referee for DFG on behalf of the Japanische-Deutsche-Zentrum, Berlin (2011)

Advisor: FCT-project, Instituto Tecnológico e Nuclear (ITN), Sacavem, Portugal (Jan. 2011-2012)

Internal reviewer within the program review of the Department of Philosophy, UAEU, 2014

External reviewer, course on “Bioethics”, Qatar University, Qatar, 2014

Local Organizing Committee Member:

31<sup>st</sup> Congress of Heterocyclic Chemistry, Kitakyushu, Japan (2000)  
Summer School of Synthetic Organic Chemistry, Moji-ku, Japan (2001)  
IAMS-8 Meeting, Fukuoka, Japan (2002)  
CSS-10, Fukuoka, Japan (2008)  
ACS Regional MEA Conference – UAE (ongoing)

Organizer:

UAE Universities Safety, Health, Environment Organization Meeting – USHER-2 (2017)

Invited Lectures at Conferences:

EAHM-2 (Novgorod, Russia, 2002)  
ESS-9 (Badajoz, Spain, 2004)  
KISPOC-XI (Fukuoka, Japan, 2005)  
3<sup>rd</sup> International Forum (Kumamoto, Japan, 2006)  
Post-ISNA 12 (Fukuoka, Japan, 2007)  
Flohet-10 (Gainesville, USA, 2009)  
RSC Meeting, UAE chapter, DUBAL (Dubai, UAE, 2010)  
Meeting on Environmentally Friendly Industry and Sustainable Economic Development – RAK  
Dept. of Economic Development (Ras al Khaimah, UAE, 2010)  
IIC-2010 (Ras al Khaimah, UAE, 2010)  
RSC Meeting, UAE chapter, DUBAL (Dubai, UAE, 2011)

International Scientific Advisory Committee Member at International Conferences:

EAHM-3 (Novosibirsk, Russia, 2004), ECSOC-9 (2005), CSS-9 (Pohang, S.-Korea, 2007),  
ECSOC-12 (2008), ECSOC-13 (2009), ECSOC-14 (2010), IIC-2010 "Perspectives of Industrial  
Investment in the Gulf Cooperation Council Countries" (Ras al Khaimah, UAE, 2010), ESCOC-  
15 (2011), ECSOC-16 (2012), ECSOC-17 (2013), ECSOC-18 (2014), COC-2015 (Suzhou, China,  
2015), ECSOC-19 (2015), COC-2016 (Nanjing, China, 2016), ECSOC-20 (2016), ECSOC-21  
(2017), ECSOC-22 (2018), ECSOC-23 (2019), ECSOC-24 (2020), ECSOC-25 (2021), ECSOC-  
26 (2022), ECSOC-27 (2023).

Editorial Advisory Board:

*Kyushu Daigaku Kinobushitsu Kenkyusho Hokoku* (1998 – 2001)

*Der Pharmacia Lettre* (Online Journal for Medicinal Chemistry,  
Pharmaceutical Chemistry and Computational Chemistry) (ISSN: 0975-5071)  
(2009 - 2018)

*Archives of Applied Science Research* (ISSN: 0975-508X) (2009 - )

*Der Pharmacia Chimica* (2009 - 2018)

*International Journal of Organic Chemistry* (2011 - 2012)

*Mediterranean Journal of Chemistry* (2011 – 2012; Associated Editor  
2012 -2015; 2016-)

*Journal of the Chemical Society of Pakistan.* (2012 - )

*Monatshefte für Chemie / Chemistry Monthly* (Springer Nature) (2017 - 2020)

*Open Journal of Chemistry* (Bentham) (2017 - 2021; Section Editor (Organic  
Chemistry 2018 - 2021)

*Karbala International Journal of Modern Science* (Associate Editor, 2018 - )

*Journal of Water Resource and Protection* [JWARP/SCIRP] (2020 - )

*Frontiers in Organic Chemistry* (Review Editor) (2021 - )

*Egyptian Journal of Aquatic Research* (Elsevier) (2022 - )

Editorial Board: *International Journal of Organic Chemistry* (2012 - )

Guest Editor: Special Issue on “Plastic pollution in water bodies” for *Journal of Water Resource and Protection* (JWARP) (in progress)

Special Issue on “Heterocyclic: Structures and Optical Properties” for *Molecules* (MDPI) (in progress)

Former member of:

2006 - 2009 COST group of high energy microenvironments (ultrasound and microwave)

2006 - 2016 Centro de Investigacao em Meio Ambiente, Genetica e Oncobiologia, U. Coimbra, Portugal



2005 - 2007 JST-CREST project on Carbon nanofibers (I. Mochida)

Lecture Series given at other Universities:

2001 Aichi University of Education, Kariya, Japan (Organic Chemistry)

2007 Ehime University, Matsuyama, Japan (Chemistry and the Environment)

Consultant:

LCI Publishers (Hamburg) 1997 – 2000

Visits as Professor to Universities abroad

July 2010 University of Alicante, Spain (host: J. Iñiesta)

Peer-Refereeing: *Journals*: ACS Appl. Mat. Interf., Adv. Environ. Eng. (Lidsen), Adv. Synth. & Catal., Afric. J. Biotechnol., Agronomy (MDPI) (2), Animals (MDPI), Applied Chem (MDPI), Applied Organomet. Chem. (2), Appl. Sci. (MDPI, 2), Arab. J. Chem., Asian J. Appl. Chem. Res., Beilstein J. Org. Chem., Biocontrol Sci. Technol. (3), Biofuels (11), Bioorg. Med. Chem. Lett., Bull. Chem. Soc. Ethiopia, Can. J. Chem., Can. J. Chem. Eng., Chem. Data Collect. (4), Centr. Eur. J. Chem., Chem. Commun. (3), Chemistry International, Chem. Lett., Chemosphere (2), Chem. Intern., Chem. Papers (Slov.), Chem. Phys., Chem. Rev. (2), Coatings (MDPI) (5), Curr. Cat. (Bentham) (2), Curr. Green Chem. (Bentham), Curr. Appl. Sci. Technol., Egypt. J. Aquat. Res. (Elsevier) (89), Emerg. Contamin. (2), Energies (MDPI) (2), Env. Pollut. Bioavail. (Taylor & Francis), Env. Sci. Pollut. Res. (19), Environ (AIMS press) (3), Env. Sci. & Technol., Foods (MDPI), Frontiers in Chemistry – Inorg. Chem. (2), Frontiers in Chemistry - Org. Chem. (2), Frontiers in Chemistry – Med. Pharm. Chem., Frontiers in Plant Science – Functional Plant Ecology, Fuel Proc. Technol., gels (MDPI) (2), Green Chem. Lett. Rev., Heliyon, Inorg. Chim. Acta, IJOC (6), Int. J. Adv. Agric. Res., Int. J. Pharmacog. Phytochem., Int. J. Sci. UAEU, Int. Res. J. Pure Appl. Chem., J. Basic Appl. Sci. (Beni-Suef U.) (2), J. Chem. Soc. Pak., J. Env. Chem. Eng. (41), J. Hazard. Mat. (4), J. Heterocycl. Chem., J. Mat. Env. Sci., J. Mol. Cat. A, J. Mol. Graphics Model. (2), J. Mol. Struct. (11), J. Org. Chem. (19), J. Water Resource Protect. (30), J. Xenobiotics (MDPI), KIJOMS (Elsevier) (12), Lett. Org. Chem. (Bentham) (87), Maritime

Technology and Research (5), Medicinal Chemistry (Bentham), Medit. J. Chem., Mini Rev. Med. Chem. (Bentham) (4), Metals (MDPI) (2), Molbank, Molecules (2), Monatsh. Chem. (40), MRJMMS, National Science Review (OUP) (3), Natural Product Research, New J. Chem., Open J. Chem. (24), Open J. Fluid Dynamics, Oriental J. Chem., Org. Biomol. Chem. (3), Org. Lett. (2), Phosphorus, Sulfur and Silicon (2), Phychem (Peshawar), Plant Cell Biotechnol. Mol. Biol. (ikpress), PLoS One, Polycyclic Aromatic Compounds (2), Polymers (MDPI) (6), Process Safety Environ. Protect. (Elsevier), Recycling (MDPI) (2), RSC Advances (2), Steroids, Structural Chemistry (Springer), Sustainability (MDPI) (6), Synlett (3), Synth. Commun., Tetrahedron Lett, Waste (MDPI) (3), Water (MDPI), Water, Air & Soil Pollution (publons top 1% reviewer in chemistry for the period Oct. 2017 - Sept. 2018, Oct. 2018 – 2019; publons top 1% reviewer in cross-field for the period Oct. 2018 - Sept. 2019).

Peer-Refereeing: *Conferences*: ECSOC (multiple), EEEP-2017 (1), EMSS'17 (2), EEEP-2019 (1)

Peer-Refereeing: *Book-Draft Review*: Chpt. 4, 10 and 18 of Study and Communication Skills for the Chemical Sciences (Tina Overton, Stuart Johnson, and Jon Scott), 3<sup>rd</sup> edition, United Oxford Press, **2018**.

Peer-Refereeing: *Book-Draft Review*: Chpt. 3 of Microplastics Analysis and Characterization, Wiley (2023).

Member of GDCh (German Chemical Society), former member of ACS (American Chemical Society), former member of RSC (Royal Society of Chemistry, invited e-member, 2015) and PIE (Publication Integrity and Ethics, affiliated member)

## List of Publications

### a.) Original Papers

- 1 M. Stoebbe, O. Reiser, T. Thiemann, R. G. Daniels, A. de Meijere, *Tetrahedron Lett.*, **1986**, 27, 2353 – 2356.  
*Regiodirected Substitution of [2.2]Paracyclophanes through Tricarbonyl-chromium*

*Complexation*

- 2 T. Thiemann, S. Kohlstruk, G. Schwaer, A. de Meijere In *Strain and Its Implications in Organic Chemistry* (A. de Meijere, S. Blechert, eds.), Kluwer, Dordrecht, **1989**, 507 – 508.  
*Diels-Alder Reactions of Siloxyallylidencyclopropanes: Synthesis of Spiro[2.5]octan-5-ones*
- 3 T. Thiemann, S. Kohlstruk, G. Schwaer, A. de Meijere, *Tetrahedron Lett.*, **1991**, **32**, 3483 – 3486.  
*[4+2]-Cycloadditions of 2-(Trialkylsilyloxy)allylidencyclopropanes – Synthesis of Spiro[2.5]octan-5-ones*
- 4 A. Mertin, T. Thiemann, I. Hanss, A. de Meijere, *Synlett*, **1991**, 87 – 89.  
*C-Alkylation of Functionally Substituted Carbanions with Cyclopropiminium Ions: A new Route to Cyclopropane Amino Acids*
- 5 T. Thiemann, B. Gehrcke, A. de Meijere, *Synlett*, **1993**, 483 – 485.  
*Dimerization of an Allylidencyclopropane at a surprisingly low Temperature*
- 6 G. Fukata, Y. Kubota, S. Mataka, T. Thiemann, M. Tashiro, *Bull. Chem. Soc. Jpn.*, **1994**, **67**, 592 – 594.  
*Preparation of 4-Bromo- and 4-chloro-3-tert-butylphenol*
- 7 C. Thiemann, T. Thiemann, Y. Q. Li, T. Sawada, Y. Nagano, M. Tashiro, *Bull. Chem. Soc. Jpn.*, **1994**, **67**, 1886 – 1893.  
*SO-Photoextrusion of 7-Thiabicyclo[2.2.1]hept-2-ene 7-oxides*
- 8 H. Tsuzuki, H. Iyama, T. Tsukinoki, M. Mukumoto, T. Yonemitsu, Y. Nagano, T. Thiemann, S. Mataka, M. Tashiro, *J. Chem. Res.*, **1994**, *18(S)*, 302 – 303; **1994**, *18(M)*, 1701 – 1716.

*Reductive Dehalogenation and Ring Saturation of Halogenated Hydroquinones, Cathechol, and Resorcinol with Raney Alloys in NaOD-D<sub>2</sub>O solution leading to Hydroquinones, 1,4-Cyclohexanediol, and 1,3-Cyclohexanediol Labeled with Deuterium*

- 9 Y. Q. Li, T. Thiemann, T. Sawada, M. Tashiro, *J. Chem. Soc., Perkin Trans. 1*, **1994**, 2323 - 2329.

*Novel Crown Ethers by Oxidative Cycloaddition of Thiopheno Crown Ethers*

- 10 T. Sawada, A. Tsuge, T. Thiemann, S. Mataka, M. Tashiro *J. Incl. Phenomena Mol. Recogn. Chem.*, **1994**, 19, 301 – 313.

T. Sawada, A. Tsuge, T. Thiemann, S. Mataka, M. Tashiro *In Calixarenes 50<sup>th</sup> Anniversary* (J. Vicens, Z. Asfari, J. McB. Harrowfield, eds.), Kluwer, Dordrecht, **1995**, 301 – 313.

*Ionophoric Properties and Characterization of four Conformers of a [2.1.2.1]Metacyclophane*

- 11 S. Mataka, J. Ma, T. Thiemann, J. Rudzinski, M. Tashiro, *Tetrahedron Lett.*, **1995**, 36, 6105 – 6108.

*Aromatic Ring-System controls  $\pi$ -Facial Selectivity in Diels-Alder Reactions of [3.3]Orthoanthracenophanes*

- 12 T. Thiemann, Y. Q. Li, S. Mataka, M. Tashiro, *J. Chem. Res. (S)*, **1995**, 19, 384; *(M)*, **1995**, 19, 2364 – 2379.

*Intramolecular Oxidative Cycloaddition of Thiophenes*

- 13 T. Ishi-I, T. Sawada, S. Mataka, M. Tashiro, T. Thiemann, *Chem. Ber.*, **1996**, 129, 289 – 296.

*A Study on Electronic Interaction between two [2.2]Metacyclophane Systems connected with a C=C Bond: Preparation, Structure, Complexation and Electronic spectra of (E)- and (Z)-8,8'-(Ethene-1,2-diyl)bis(tert-butyl[2.2]meta cyclophane)*

- 14 Y. Q. Li, M. Matsuda, T. Thiemann, T. Sawada, S. Mataka, M. Tashiro, *Synlett*, **1996**, 461

– 464.

*Lewis Acid catalysed Oxidative Cycloaddition of Thiophenes*

- 15 S. Mataka, J. Ma, H. Tsuzuki, K. Nishiyama, T. Thiemann, M. Tashiro, *Rep. Inst. Adv. Mat. Kyushu Univ.*, **1996**, 10(1), 93 – 94.  
*Inverse Secondary Deuterium Kinetic Isotope Effect in Diels-Alder Reaction of Orthonaphtho[3.3]orthoanthracenophane with Maleic Anhydride*
- 16 S. Mataka, J. Ma, T. Thiemann, J. M. Rudzinski, H. Tsuzuki, T. Sawada, M. Tashiro, *Tetrahedron*, **1997**, 53, 885 – 902.  
*Diels-Alder Reaction of Anthraceno[3.3]orthobenzophane and -naphthophane. Control of  $\pi$ -facial Diastereoselectivity by underlying  $\pi$ -Systems*
- 17 S. Mataka, Y. Mitoma, T. Thiemann, T. Sawada, M. Taniguchi, M. Kobuchi, M. Tashiro, *Tetrahedron*, **1997**, 53, 3015 – 3026.  
*Synthesis, Spectra and Structures of Triple-layered [3.3][3.3]Orthocyclophanes*
- 18 T. Thiemann, V. Vill, *Liq. Cryst.*, **1997**, 22, 519 – 523.  
*Development of an incremental System for the Prediction of the nematic-isotropic Phase Transition Temperature of Liquid Crystals with two aromatic Rings*
- 19 S. Mataka, J. Ma, T. Thiemann, T. Mimura, T. Sawada, M. Tashiro, *Tetrahedron*, **1997**, 53, 6817 – 6824.  
*Substituent Effect on the Selectivity of [3.3]Orthoanthracenophanes in the Diels-Alder reaction with N(p-substituted phenyl)maleimides*
- 20 T. Thiemann, V. Vill, *J. Chem. Phys. Ref. Data*, **1997**, 26, 291 – 333.  
*Homologous Series of Liquid Crystalline Steroidal Lipids*
- 21 T. Thiemann, C. Thiemann, S. Sasaki, V. Vill, S. Mataka, M. Tashiro, *J. Chem. Res.*, **1997**, 21(S) 248 – 249; **1997**, 21(M) 1736 – 1750.

*Synthesis and Photochemical Behaviour of C-16 substituted Steroids*

- 22 F. Marken, R. G. Compton, S. G. Davies, S. D. Bull, T. Thiemann, M. L. Sa e Melo, A. S. Campos Neves, J. Castillo, C. G. Jung, A. Fontana, *J. Chem. Soc., Perkin Trans. 2*, **1997**, 2055 – 2059.

*Rapid Electrolysis in the Presence of Ultrasound: Cell Geometries for the Application of Extreme Rates of Mass Transfer in Electrosynthesis*

- 23 Y. Q. Li, T. Thiemann, T. Sawada, S. Mataka, M. Tashiro, *J. Org. Chem.*, **1997**, 62, 7926 – 7936.

*Lewis Acid Catalysis in the Oxidative Cycloaddition of Thiophenes*

- 24 T. Thiemann, M. Noltemeyer, A. de Meijere, *Rep. Inst. Adv. Mat. Kyushu Univ.*, **1997**, 11(2), 147 – 152; *Chem. Abstr.*, **1999**, 130, 311 748j.

*Chiral Building Blocks from (+)-(S)-7,7a-Dihydro-7a-methylindane- 1,5(6H)-dione (Hajos-Parrish Diketone)*

- 25 T. Sawada, K. Mimura, T. Thiemann, T. Yamato, M. Tashiro, S. Mataka, *J. Chem. Soc., Perkin Trans. 1*, **1998**, 1369 – 1372.

*Endoperoxide of Pentamethyl[2.2]metacyclophane; Structure and Deoxygenation*

- 26 S. Mataka, Y. Mitoma, T. Sawada, T. Thiemann, M. Taniguchi, M. Tashiro, *Tetrahedron*, **1998**, 54, 5171 – 5186.

*Benzo[3.3]benzo[3.3]benzo- and Naphtho[3.3]benzo[3.3]naphtho orthocyclophane bisalcohols. Preparations and Structures*

- 27 T. Thiemann, M. L. Sa e Melo, A. S. Campos Neves, Y. Q. Li, S. Mataka, M. Tashiro, U. Geissler, D. J. Walton, *J. Chem. Res.*, **1998**, 22(S) 346 – 347.

*Preparation and Electrooxidative SO-Extrusion of halogenated 7-Thiabicyclo[2.2.1]heptene 7-oxides*

- 28 K. Kamata, Y. Tominaga, A. Tori-I, T. Thiemann, S. Mataka, *Heterocycles*, **1998**, *48*, 1663 – 1668.  
*Reduction of 9-substituted Acridines with Nickel-aluminum alloy*
- 29 Y. Q. Li, T. Thiemann, K. Mimura, T. Sawada, S. Mataka, M. Tashiro, *Eur. J. Org. Chem.*, **1998**, 1841 – 1850.  
*Oxidative Cycloaddition of Thiophenophanes – [n](2,5)-Parathiophenophane (n = 8, 10-12, 14), [8](2,4)Metathiophenophane and [2.2](2,5)Parameta- thiophenophane*
- 30 S. Mataka, K. Shigaki, T. Sawada, Y. Mitoma, M. Taniguchi, T. Thiemann, K. Ohga, N. Egashira, *Angew. Chem.*, **1998**, *110*, 2626 – 2628; *Angew. Chem. Int. Ed. Engl.*, **1998**, *37*, 2532 – 2534.  
*Quadruple decker [3.3][3.3][3.3]Orthocyclophane Acetal – Preparation and Properties of an Orthocyclophane Ladder*
- 31 M. Taniguchi, S. Mataka, T. Thiemann, T. Sawada, K. Mimura, Y. Mitoma, *Bull. Chem. Soc. Jpn.*, **1998**, *71*, 2661 – 2668.  
*The study of  $\pi$ - $\pi$  interaction in layered [3.3]Orthocyclophanes – Charge-transfer complexes of [3.3]Orthocyclophanes with Tetracyanoethylene*
- 32 M. Taniguchi, T. Thiemann, T. Sawada, S. Mataka, *Rep. Inst. Adv. Mat. Kyushu Univ.*, **1998**, *12*(2), 131 – 135; *Chem. Abstr.*, **1999**, *130*, 324 358c.  
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f.) Additional Manuscripts

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- 13 M. Elkashlan, V. Poulouse, R.Z. Habib, O. Karabala, A. Aldhanhani, M. Shakir, H. Shaath, T. Ramachandran, A.I. Mourad, F. Hamed, R. Al Kendi, T. Thiemann, *J Environ. Protect. (JEP)*, **2022**, 13, 539-556.

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*Microplastic in an arid region: identification, quantification and characterization on and along-side roads in Al Ain, Abu Dhabi, United Arab Emirates*
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h) Selected Proceedings in Journals

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*Our experience of using thermally recycled silica gel in a teaching and small research laboratory setting*

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*Adsorption of model dyes on recycled silica gel*

- 5 F. Al Junaibi, H. Aldhanhani, H. Alawani, A.A. Hmoudi, A Al-Hemyari, T. Thiemann, *MDPI Proceedings*, **2019**, 41, 6. <https://doi.org/10.3390/ecsoc-23-06461>

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- 6 A. Al-Hemyari, A. Hashim, M. Bufaroosha, T. Thiemann, *MDPI Proceedings*, **2019**, 41, 4. <https://doi.org/10.3390/ecsoc-23-06460>

*Use of triphenylphosphine-bromotrichloromethane (PPh<sub>3</sub>-BrCCl<sub>3</sub>) in the preparation of acylhydrazines, N-methylamides, anilides and N-arylmaleimides from carboxylic acids.*

- 7 A. Hashim, V. Poulouse, T. Thiemann, *Chem. Proc.*, **2021**, 3(1), 3. <https://doi.org/10.3390/ecsoc-24-08350>.

*3-(Biphenyl)acrylates by One-Pot Suzuki Cross Coupling–Wittig Olefination Reactions*

- 8 A. Hashim, V. Poulouse, T. Thiemann, *Chem. Proc.*, **2021**, 3(1), 99. <https://doi.org/10.3390/ecsoc-24-08288>

*One pot O-alkylation/Wittig olefination of hydroxybenzaldehydes in DMSO.*

9. A. Al-Hemyari, M. Bufaroosha, T. Thiemann, *Chem. Proc.*, **2022**, 8(1), 106.

<https://doi.org/10.3390/ecsoc-25-11685>

*Synthesis of 4-alkoxy-4-( $\omega$ -cinnamoylalkoxy)azobenzenes and their photoswitchable behavior.*

10. R.Z. Habib, R. Al Kindi, T. Thiemann, *AIP Conf. Proc.*, **2022**, 2676(1), 030003.  
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*Quantification and characterization of microplastic originating in the emirate of Abu Dhabi, United Arab Emirates* (presented at: Industrial, Mechanical and Electrical Engineering Conference, Malaysia, online).

i) Others

- 1 T. Thiemann, *Leben und Arbeiten in Japan* In Berufs- und Karriereplaner 2004/2005, 2<sup>nd</sup> ed., Teubner/Gabler Verlag, Wiesbaden, **2004**, p. 162 – 171.
- 2 T. Thiemann, M. Watanabe, *Nachrichten aus der Chemie*, **2003**, 51, 418.  
*Ein Riese im Umbruch – Grundlegende Aenderungen im japanischen Hochschulsystem*
- 3 S. Kanemasa, T. Thiemann, *Nachrichten aus der Chemie*, **2003**, 51, B850.  
*My favorite organic synthesis*
- 4 T. Thiemann, *Engineering Sciences Report, Kyushu University*, **2009**, 30(4), 402 - 404.  
*The first English debate class of the IGSES' Global Centre of Excellence on Novel Carbon Resources*
- 5 T. Thiemann, *Proceedings IIC-2010*, **2011**.  
*Developing Human Resources for the Chemical Industry – Chemistry at Universities: A Comparison of educational and research structures of Japan, Germany and GCC countries*
- 6 T. Thiemann, *Rietaj*, **2012**, 3, 32 – 33.



*An argument for a laboratory-based learning of chemistry*

7. T. Thiemann, Y. Al Jasem, H. Butt, B. al Hindawi, M. Barkhad, M. al Khazali, M. al Azani, 3<sup>rd</sup> World Sustainability Forum, Sciforum Electronic Conference Series, Vol. 3, **2013**, d-002. Doi:10.3390/wsf3-d002.

*New Heat Transfer Fluids (HTFs) for Solar Thermal Applications*

8. Y. Majedi, E. Alhilali, M. Al Nehayan, A. Rashed, S. Ali, N. al Rawashdeh, T. Thiemann, A. Soliman, In Proceedings of the 4th World Sustainability Forum, Sciforum Electronic Conference Series, Vol. 4, **2014**, d009. Doi:10.3390/wsf-4-d009.

*Treatment of Dye-Loaded Wastewater with Activated Carbon from Date Palm Leaf Wastes*

9. B. Selem, A. Alkarbi, A. Alhosani, F. Ahmad, F., M. Elemam, S.H. Iftikhar, A. H. Mourad, T. Thiemann, In Proceedings of the 18th International Conference on Environmental Science and Technology, Athens, Greece, 2023. [https://cms.gnest.org/sites/default/files/Proceedings/cest2023\\_00485/cest2023\\_00485.pdf](https://cms.gnest.org/sites/default/files/Proceedings/cest2023_00485/cest2023_00485.pdf)

*Plastic to microplastic in the United Arab Emirates – plastic bottle caps in a hot, arid environment*

author/co-author of more than 300 posters and talks at national and international conferences about 30 talks at universities (Japan, Germany, Portugal, France, UK, United Arab Emirates, Spain and S.-Korea)

citations: > 3152 (Publons) / 3338 (Scopus) / 4396 (Google Scholar) / 4032 (researchgate)

$\eta_h = 27$  (Publons) /  $\eta_h = 28$  (Scopus) /  $\eta_h = 32$  (Google Scholar) /  $\eta_h = 29$  (researchgate)

### **Administrative duties**

Coordinator of Teaching Laboratories, Department of Chemistry (2010-), UAEU

Chair of the departmental graduate studies committee (2009-2011, 2018-2020), UAEU

Chair of the departmental promotion committee (2010-2012, 2014-), UAEU

Chair of the college of science “safety and space planning” committee (2010-), UAEU

Safety Coordinator for the main campus of the UAEU (2010–2012)

[trained to be an internal auditor OHSAS, ISO 45001, SGS, Nov. 2019, renewed July 2022]

Member of the university research ethics committee (RERB) (2017-2023), UAEU [Chair of the hazardous materials ethics committee] (2017-)

### **Recent and current projects (2017-2023):**

Industrial collaboration with Dubai Electricity and Water on Dust Analysis and Dust Remediation on Solar Photovoltaic Panels

SURE-2017 undergraduate research project on ion-selective electrodes

SURE-2018 undergraduate research project on ion-selective electrodes

SURE-2019 undergraduate research project on microplastics in cosmetics (co-PI)

SURE-2022 undergraduate research project on the degradation of plastics in the environment

SURE-2022 undergraduate research project on microplastic in fish from the coastline of UAE (co-PI)

SDG-2023 undergraduate research project on biomass usage in the purification of produced water from GCC oil fields

SURE-2023 undergraduate research project on the evaluation of plastic debris along roads and road sides in the Al Ain area

### **Research (TT and students) in the news:**

<http://www.alittihad.ae/details.php?id=7866&y=2013&article=full>

<http://wwtonline.co.uk/news/portable-device-detects-lead-in-grey-water-at-source>

<http://www.gulftoday.ae/portal/7183d718-b812-4be4-825d-98c3efead94f.aspx>

<https://www.thenational.ae/uae/environment/students-set-to-clean-up-with-water-pollutant-detection-device-1.192871>

<http://www.abudhabienv.ae/news-38972.html>

[https://www.alfajr-](https://www.alfajr-news.net/details/%D9%81%D8%B1%D9%8A%D9%82-%D8%A8%D8%AD%D8%AB%D9%8A-%D8%A8%D8%AC%D8%A7%D9%85%D8%B9%D8%A9-%D8%A7%D9%84%D8%A5%D9%85%D8%A7%D8%B1%D8%A7%D8%AA-%D9%8A%D8%AA%D9%88%D8%B5%D9%84-%D8%A5%D9%84%D9%89-%D8%B7%D8%B1%D9%8A%D9%82%D8%A9-%D9%85%D8%A8%D8%AA%D9%83%D8%B1%D8%A9-%D9%84%D8%AA%D8%AD%D9%88%)

[news.net/details/%D9%81%D8%B1%D9%8A%D9%82-%D8%A8%D8%AD%D8%AB%D9%8A-%D8%A8%D8%AC%D8%A7%D9%85%D8%B9%D8%A9-%D8%A7%D9%84%D8%A5%D9%85%D8%A7%D8%B1%D8%A7%D8%AA-%D9%8A%D8%AA%D9%88%D8%B5%D9%84-%D8%A5%D9%84%D9%89-%D8%B7%D8%B1%D9%8A%D9%82%D8%A9-%D9%85%D8%A8%D8%AA%D9%83%D8%B1%D8%A9-%D9%84%D8%AA%D8%AD%D9%88%](https://www.alfajr-news.net/details/%D9%81%D8%B1%D9%8A%D9%82-%D8%A8%D8%AD%D8%AB%D9%8A-%D8%A8%D8%AC%D8%A7%D9%85%D8%B9%D8%A9-%D8%A7%D9%84%D8%A5%D9%85%D8%A7%D8%B1%D8%A7%D8%AA-%D9%8A%D8%AA%D9%88%D8%B5%D9%84-%D8%A5%D9%84%D9%89-%D8%B7%D8%B1%D9%8A%D9%82%D8%A9-%D9%85%D8%A8%D8%AA%D9%83%D8%B1%D8%A9-%D9%84%D8%AA%D8%AD%D9%88%)

D9%8A%D9%84-%D8%A7%D9%84%D8%B7%D8%A7%D9%82%D8%A9-%D8%A7%D9%84%D8%B4%D9%85%D8%B3%D9%8A%D8%A9-%D8%A5%D9%84%D9%89-%D9%83%D9%87%D8%B1%D8%A8%D8%A7%D8%A1

<https://al-ain.com/article/uae-university-solar-energy-electricity>

[https://www.zawya.com/uae/en/story/UAEU\\_converts\\_solar\\_energy\\_to\\_electricity\\_using\\_innovative\\_method-ZAWYA20180703104941/](https://www.zawya.com/uae/en/story/UAEU_converts_solar_energy_to_electricity_using_innovative_method-ZAWYA20180703104941/)

[https://clarivate.com/webofsciencegroup/wp-](https://clarivate.com/webofsciencegroup/wp-content/uploads/sites/2/2019/09/WS371049217_ACVR_UAE_USLetter_CMYK_v8_DIGITAL_SMALL.pdf)

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### **Current supervision of graduate students:**

Feras Salem (Supervisor, PhD): Produced water from oil and gas fields of Kuwait

Rana AlSaidi (Supervisor, PhD): Natural product isolation from UAE plants

Zainab Ali (Supervisor, MSc): New anticorrosion materials for the preservation of bronze artefacts

Abdul Salam Omar AlHashimi (Supervisor, PhD): Microplastic assessment in the Abu Dhabi environment