

Curriculum Vitae

Kari Tapani Rissanen

Professor, PhD, FRSC

1.6.2018

Personal data

Born 29.11.1959, married, four children (b. 1986, 1988, 1990 and 1992)

Present employment: Professor and Head of Organic Chemistry, University of Jyväskylä, Finland

Chemistry studies, University of Jyväskylä, 1980 - 1985

- M.Sc. in Organic Chemistry, 18.12.1985, University of Jyväskylä.
- Ph.Lic. in Inorganic Chemistry, 3.6.1987, University of Jyväskylä.
- Ph.D. in Chemistry, 14.3.1990, University of Jyväskylä.

Honours and scientific prizes

- Commander, of the *Order of the Lion of Finland* (SL K), 6.12.2016
- Knight, First Class, of the *Order of the White Rose of Finland* (SVR R 1), 6.12.2008
- Humboldt Research Award (60 000 €), November 2017
- Nanotech Finland Award (recognition), The Finnish Funding Agency for Technology and Innovation, (2010)
- Magnus Ehrnrooth Prize in Chemistry (12 000 €), *Societas Scientiarum Fennica*, 2005
- Ph. D. Thesis Prize (3364 €), *Finnish Academy of Science and Letters*, 1991

Major scientific posts

- Deputy assistant, Department of Chemistry, University of Jyväskylä, 1985-1986
- Assistant, Department of Chemistry, University of Jyväskylä, 1986 - 1990.
- Assistant Professor (Senior Assistant), Department of Chemistry, University of Jyväskylä, 1990-1993.
- Research Fellow, Finnish Academy, 1988-1991 (on leave from the above Assistant Professorship).
- Senior Research Fellow, Finnish Academy, 1991-1993 (on leave from Assistant Professorship)
- Docent in Chemistry, University of Jyväskylä, 1991 – 1995 (terminated due to the professorship in the same faculty)
- Professor in Organic Chemistry, 1993-1995, University of Joensuu
- Senior Scientist Grant, A23 salary class, Finnish Academy, 1.8.1995 - 31.7.1996.
- Senior Scientist, A30 salary class, Finnish Academy, 1.8.2000 – 31.7.2001
- Academy Professor, 1.1.2008 – 31.12.2017, The Academy of Finland/University of Jyväskylä
- Full Professor in Organic Chemistry, 1.11.1995 -> present, University of Jyväskylä

Memberships and positions of trust

- Fellow of the Royal Chemical Society (2005->)
- Member of *Finnish Academy of Science and Letters* (2004 ->)
- Member of Finnish-French Technical Society (2005->)
- Member of American Chemical Society (2006 ->)
- Member of *Academia Europaea* (2008 ->)
- Editor, Volume 3, *Comprehensive Supramolecular Chemistry II*, Elsevier, 2016-17
- Editor, *Supramolecular Chemistry, Reference Module in Chemistry, Molecular Science and Chemical Engineering*, Elsevier, 2017 ->
- A founder and member of the executive committee of the Division of Synthetic Chemistry of the Finnish Chemical Society, 1992 – 1994 (secretary), 1996-97 (vice-chairman), 1998-1999 (chairman)
- The Finnish representative at the Management Committee of the COST Chemistry Action D7 (Molecular Recognition Chemistry), 1992 – 1997
- The Finnish representative and vice-chairman at the Management Committee of the COST Chemistry Action D11 (Supramolecular Chemistry), 1998 – 2003
- The Finnish representative and chairman (2004 – 2005) at the Management Committee of the COST Chemistry Action D31 (Organising Non-Covalent Chemical Systems with Selected Functions), 2004 – 2009
- The Finnish representative at the Management Committee of the COST Chemistry Action CM1005 (Supramolecular Chemistry in Water), 2011 - 2015
- The Chairman of the Jyväskylä Professors Union 1998-2001
- The Chairman of the Jyväskylä Summer School 2002 (JSS12), www.jyu.fi/summerschool/

- Member of the review panel of Nessling Foundation (1998 – 2000)
- Member of the Ethics Council of the University of Jyväskylä (1999 – 2000)
- Member of the Scientific Committee of Finnish Chemical Industry (2002 ->2007)
- Member of International Advisory Board, *New J. Chem.*, (2000 ->), *CrystEngComm.* (2003 -> 2008)
- Member of the Research Council for Natural Sciences and Engineering of the Finnish Academy, (2004 –2006)
- Chairman (2005 - 2006) and expert member (2007 ->) of the Steering Committee of the Academy of Finland nanoscience research programme, FinNano
- Member of the Science Council of the University of Jyväskylä (2006 ->)
- Member of TEKES FinNano Chemical Industries vision workgroup (2006)
- Referee > 50 publications/year (*Science*, *PNAS*, *Angew. Chem.*, *J. Am. Chem. Soc.*, *Chem. Eur. J.*, *Chem. Comm.*, *New J. Chem.*, *CrystEngComm.*, *J. Org. Chem.*, *J. Phys. Chem.*, *Eur. J. Org. Chem.*, *Eur. J. Inorg. Chem.*)

Supervised 40 post graduate (Ph.D. or Ph.Lic.) and > 140 M.Sc. degrees

Ph.D. (29): Juhani Huuskonen (1995); Jari Ratilainen (1997); Karri Airola (1998); Maija Nissinen, Elina Wegelius, Deszo Falabu (2001); Minna Luostarinen (2002); Tanja Lahtinen, Kalle Nättinen (2003); Pauli Saarenketo, Jarmo Ropponen (2004); Heidi Mansikkamäki, Sara Busi (2006); Keijo Mäntykoski (2007); Sami Nummelin, Ngong Kodiah Beyeh, Anna Lähde (2008); Tero Tuuttila (2009); Laura Ilander, Kari Raatikainen (2010); Chandan Giri, Hana Bunzen (2013); Miiika Löfman, Pia Bonakdarzadeh, Filip Topic (2015); Toni Mäkelä, Leticia Arnedo-Sanchez (2016); Lotta Turunen (2017); Rajendraprasad Tatikonda (March 2018)

Ph.Lic. (13): Satu Pirinen, Satumari Loukiala, Tommi Nyrönen (1997); Anu Jäntti (1998); Tanja Lahtinen, Jari Koistinen, Maija Nissinen, Elina Wegelius (1999); Maarit Lahtinen, Sami Nummelin, Jarmo Ropponen, Deszo Falabu (2000), Tiina Rajamäki (2003). Ph.Lic degrees were not granted after 2003.

Major external funding (€) since 1997

AF = Academy of Finland, TS = TEKES, N = Neste Chemicals Co., N,F = Neste Co., Research Foundation, F,C = various Finnish companies

Source	amount	period	Title of the project
N,F	5064	1997	Visits of Prof. Ernst/ETH ja Prof. Traficante/Rhode Island
N	169783	1997-98	Modeling of Functional Polymers and Complex Esters
AF	74000	1997-98	Supramolecular Assemblies, Hosts and Materials: From Molecules to Nano Devices
N,F	29433	1997-98	Polyester Dendrimers
TS	165329	1997-99	Synthesis, Structures and Applications of Complex and Semi-Esters
AF	20183	1997-99	Chiral Macrocyclic and Macrobicyclic Receptor Molecules
F,C	79469	1997-00	Industry grants for M.Sc. theses
AF	126141	1999-01	Luminescent Lanthanide-Resorcarene Complexes, Syntheses and Characterisation
AF	22033	2000-02	Molecular Nanochemistry: New Dendrimers, Catenanes and Rotaxanes
TS	509777	2000-05	Dendrimer Technology in Materials and Polymer Chemistry
AF	82462	2000-01	Supramolecular and Nanochemistry
AF	94606	2001-03	Weak Intermolecular Interactions in Organic Supramolecular Guest-Host Complexes
TS	394500	2001-04	Nanochemistry
AF	148005	2002-05	Expression of Molecular Information in Nano-sized Assemblies
TS	100000	2002-03	Low VOC-compounds
TS	176000	2003-06	Self-Organized Molecular Electronics and Photonics
AF	26300	2003-05	Self-Assembling Supramolecular Nanostructures
AF	100000	2003-05	Synthesis of Intelligent Nanomolecules
AF	150000	2003-06	Nanosensors
AF	50000	2004-05	New Materials for Ionic Liquids and Molecular Recognition
TS	120000	2004-06	Modern Coatings
AF	55000	2005-06	Nanostructured Gelled Fuels
AF	12000	2006-07	Hierarchical Self-Organising Nanostruct., Studies in Solid State, Solut. and Gas Phase
TS	60000	2006-07	Molecular Electronics
AF	239940	2008-09	Academy professorship (salary)
AF	587350	2008-10	Self-Assembly of Nano-sized Supramolecular Assemblies (Acad. Prof. res. proj.)
AF	240000	2009-12	Functional Materials by Metal-directed Self-Assembly

(AF-JST joint project with prof. Makoto Fujita, Tokyo University, Japan)

AF	25000	2010-11	Metal-Ion-Assisted Supramolecular Synthesis of Nano- and Supramolecular Structures (AF-DAAD joint res. exchange proj. with prof. Christoph Schalley, FUB, Germany)
AF	359910	2010-12	Academy professorship (salary)
AF	434300	2011-12	Self-Assembly of Nano-sized Supramolecular Assemblies (Acad. Prof. res. proj.)
AF	773 990	2011	Laboratory of Structural Nano and Supramolecular Chemistry, NaSuChem-lab, (Finnish Research Infrastructure 2010) € (448 990 € from AF and 285 000 € from JYU)
AF	324 819	2012-14	Intermolecular Charge Transfer (ICT) Based Fluorescent Probes for Monitoring Zinc(III) and Anions in Gold Nano Particles, (AF-DST joint project with Ass. Prof. Prasenjit Mal, National Institute of Science Education and Research (NISER), Bhubaneswar, India)
AF	20000	2012-13	Supramolecular Complexes and Networks – Design, Photocontrol and Function (AF-DAAD researcher exchange proj. with prof. Jochen Mattay, Bielefeld, Germany)
AF	740 332	2012-16	New water-soluble chemo-responsive luminescent (coll. prof. Luisa De Cola, Strasbourg, France)
AF	732 920	2013-17	Academy professorship (salary)
AF	748 205	2013-15	Weak Interactions as Structural Elements in Self-assembling Molecular Systems (Academy professor research project)
AF	25000	2014-15	Supramolecular Coordination Oligomers in Solution, Solid-state, Gas-phase and on Surfaces (AF-DAAD res. exchange proj. with prof. Christoph Schalley, Berlin, German)
AF	439 747	2016-17	Weak Interactions as Structural Elements in Self-assembling Molecular Systems (Academy professor research project)
AF	25000	2017-18	Halogen-Bonded Supramolecular Capsules in Solution, the Solid State and the Gas Phase (AF-DAAD res. exchange proj. with prof. Christoph Schalley, Berlin, German)

2006-2009 Nordforsk 3 x 296 000 NOK (ca. 90 000 €), Chairman of the Baltic Network on “Crystal Engineering and Supramolecular Materials”, funds managed by Chalmers Tech. Univ. Gothenburg, Sweden.

Total external funding since 1997 > 9 000 000 €


Cambridge Crystallographic Data Centre (CCDC), 49th in the world author list with 1522 structures (user statistics, 5th Jan 2018).

Publications

1987 – present: > 615 publications in peer-reviewed journals (1 *Nature*, 3 *Science*, 2 *Nat. Chem.*, 1 *Chem.*, 1 *Chem. Rev.*, 1 *Chem. Soc. Rev.*, 1 *Chem.*, 2 *ACS Nano*, 19 *JACS*, 36 *Angew. Chem.*, 1 *PNAS*, 11 *Chem. Sci.*, 45 *Chem. Commun.*, 13 *Org. Lett.* and 44 *Chem. Eur. J.*), 6 book chapters, 3 edited books, 18 patents/patent applications and >400 posters/lectures in scientific conferences. Total number of citations > 14500 with $h = 57$ (Scopus), 55 (ISI WoK).

Research topics: Intermolecular interactions, Structural and Synthetic Supramolecular, Organic Chemistry and Nanochemistry, X-ray Crystallography, Crystal Engineering.

Jyväskylä 1.6.2018


Kari Rissanen, Professor