Curricum Vitae Theo Rasing, April 2020

Biographical details

Full name and title(s):	RASING, Theodorus Henricus Maria, Prof. Dr
Date of birth:	May 26, 1953, Didam, the Netherlands
Nationality:	Dutch
Married to:	Claudia Maria Leary
Children:	Layla (18-03-1985), Mira (18-04-1993)
Affiliation:	RadboudUniversityNijmegen Institute for Molecules and Materials (IMM), Faculty of Science, Toernooiveld 1, 6525 ED Nijmegen, TheNetherlands Phone +31.24.365.31.02 Fax +31.24.365.21.90 Email th.rasing@science.ru.nl
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Theo Rasing is a full professor of experimental physics, elected member of the Royal Dutch Academy of Arts and Sciences (KNAW) and the Academia Europaea, and member of many national and international advisory boards and committees (see below). In 2007 he received the Physics Price of the Dutch Physics Society. In 2008 he received the Spinoza Prize and the Prize for "Science and Society", for his breakthroughs in the field of manipulating magnetism with light.

Training

1970-1982	Radboud University Nijmegen, Faculty of Science
1973	BSc, Physics, Radboud University Nijmegen, with honour
1976	MSc, Physics, Radboud University Nijmegen, cum laude Master Thesis: Pairbreaking in strong coupling superconductors Thesis supervisor: Prof. P. Wyder, Radboud University Nijmegen
1982	PhD, Physics, RadboudUniversityNijmegen PhD Thesis: Experimental investigation of 4-dimensional super space crystals Thesis supervisors: Profs A.G.M. Janner and P. Wyder, Radboud University Nijmegen

Present positions

Full Professor Experimental Solid State Physics
Advisory Editor Journal of Magnetism and Magnetic Materials
Member International Advisory Committees of MORIS, ICMFS, Spin Waves and OSI
Member International Advisory Committee ICM'15
Member Governing Board Advanced Research Center for NanoLithography (ARCNL)
Member Scientific Board Business Cluster Semiconductors Netherlands (BCSEMINL)
Chairman Section Physics Royal Dutch Academy of Arts and Sciences (KNAW)
Member NTW board Royal Dutch Academy of Arts and Sciences (KNAW)

Former positions

Director Institute for Molecules and Materials (IMM)

Director Nijmegen Center for Advanced Spectroscopy (NCAS)
Member Proposal Review Panel LCLS, Stanford;
Member Executive Board Institute for Molecules and Materials
Member Executive Board FOM and Physics Board NWO
Member Governing Board FOM
Member Governing Board NanoNext
Member International Advisory Committee for the Joint EuropeanMagneticSymposia(JEMS)
Co-director of the bi-annual School of Solid State Physics: EPIOPTICS, Erice

Awards and honours

2019	ERC Synergy Grant 3D-MAGiC, EU
2019	Honorary Professor, Wuhan University of Technology
2017	Unesco Medal "Contribution to Nanoscience and Technologies", 2017
2014	Honarary member Ioffe Institute, St. Petersburg
2013	ERC Advanced Grant 339813 EXCHANGE, EU
2013	Elected member Academia Europaea.
2010	Elected member Royal Dutch Academy of Arts and Sciences (KNAW)
2010	Knight of the Order of the Dutch Lion
2010	Visiting Fellow, Magdalen College, Oxford University
2009	Distinguished Lecturer, IEEE Magnetics Society
2008	Spinoza Prize 2008, the Netherlands Organisation for Scientific Research(NWO)
2008	Prize for Science and Society 2008
2007	Physics Price 2007 of the Dutch Physics Society
2007	INPAC lecturer, University of Leuven
2005	Visiting Professor, MagdalenCollege, University of Oxford.
2003	Visiting Professor, SaitamaUniversityTokyoJapan.
1994	Visiting Professor, Universite de Paris-Sud, Orsay.
1982-1984	I.B.M. Postdoctoral Fellowship

Professional Career

Past positions

2016-2019	Director Institute for Molecules and Materials (IMM)
2006-2019	Director Nijmegen Center for Advanced Spectroscopy (NCAS), Faculty of Science, RU Nijmegen
2006-2007	Director Nano*Lab*Nijmegen, Faculty of Science, RU Nijmegen
2005-2011	Member Governing Board Dutch NanoNed initiative
2005-2007	Vice Director Institute for Molecules and Materials (IMM)
2003-2005	Chairman Department of Physics
2001-2011	Member Scientific Council FVO (Belgium)
1994-1999	Director Research School"Research Institute for Materials", RU Nijmegen.
1992-1994	Chairman Research Institute for Materials, RU Nijmegen.
1988-1997	Associate Professor Experimental SolidState Physics RadboudUniversityNijmegen, the Netherlands
1986-1988	Staff Scientist, Center for Advanced Materials Deputy Program Leader Instrumentation for Surface Science LawrenceBerkeley Laboratory, Berkeley, California, USA
1984-1986	Postdoctoral Fellow, Center for Advanced Materials LawrenceBerkeley Laboratory, Berkeley, California, USA

1982-1984 Postdoctoral Fellow (with Prof. Y.R. Shen)
University of California, Berkeley, California, USA
1979-1982 Several short stays at Josef Stefan Institute, Ljubljana, Slovenia
NMR measurements on incommensurate crystals (with Prof. R. Blinc)
1976-1982 Research and Teaching Assistant
Physics Department, RadboudUniversityNijmegen

Present Research
To make, study and manipulate the properties of functional molecules and materials, using linear and nonlinear optical and scanning probe techniques with emphasis on nanometer length and femtosecond time scales. *Major themes* are:
- Optical control of Magnetism
- Neuromorphic data processing
- Ultrafast (spin- and magnetization) dynamics
- Structure and dynamics of molecular crystals
- Nanostructures by controlled selforganization.

Referee (journals)
Applied Physics APhysical Review Letters

Aplied Physics Letters	Physical Review A and B
J. Optical Soc. Am. B	J. Phys. and Chem. of Solids
Nature Journals	Surface Science
Science	Physica

Referee (project proposals and faculty positions)
- Netherlands Organisation for Scientific Research (NWO/FOM)
- Netherlands Organisation for Scientific Research (NWO/STW)
- Netherlands Organisation for Scientific Research (NWO)
- Institute for the Promotion of Innovation by Science and Technology in Flanders/Belgium
- Human Capital and Mobility (EU)
- European Research Council (EU)
- Ministry of Science and Technology, Slovenia
- University of Ljubljana, Slovenia
- Irish Science and Technology Agency
- International Science Foundation (Soros)
- Alexander von Humboldt Foundation Germany
- Max-Planck-Gesellschaft, Germany
- Deutscher Akademischer Austausch Dienst (DAAD) Germany
- Austrian Science Fund
- Italian Science Foundation
- Japan prize
- Hong Kong Innovation and Technology Fund
- French National Agency for Research (CNRS)
- Helmholtz Association, Germany

Teaching Experience
1976-1982 Research Laboratory (RU Nijmegen)
Supervision master thesis research
1982-1986 Solid State Physics and Nonlinear Optics (UC Berkeley)
Supervision graduate thesis research

since 1988 Research Laboratory (RU Nijmegen)
Undergraduate and graduate Physics courses (Structure of Matter, Solid State Physics, Physics and Society, Surface Science, Materials Science, Nonlinear Optics, Surface Magnetism, Nanoscience, Introduction Nanotechnology, Advanced Spectroscopy, Introduction Quantum Mechanics).
Supervision master thesis research
Supervision PhD thesis research

Invited lectures at international conferences and invited colloquia: over 175 in the past 10 year

Invited lectures at Summer/Winter Schools and Graduate Courses

- Summer School of Advanced Physics Heraklion, Greece, July 1--28, 1990 Nonlinear Optics
- FOM graduate course, Condensed Matter Physics, Nijmegen, May 6--7, 1992 Surface and Interfaces
- InternationalSchool of Material Science, Ameland, June 1--5, 1992
- Workshop on Surfaces and Interfaces Moscow, Russia, April 11--16, 1994
- Nonlinear Electromagnetic Interactions in Semiconductors Trieste, Italy, August 1--10, 1994
- FOM graduate course, Condensed Matter Physics: Electrons at Surfaces and Interfaces, Nijmegen, February 23, 1995
- Magnetism; InternationalSchool of Material Science Ameland, June 12--16, 1995
- Third International Aalborg Summer School on Nonlinear Optics Aalborg, Denmark, August 7--12, 1995 Nonlinear Optics
- Joint Materials Research Schools, Ameland, June 9--13, 1997 Nonlinear magneto-optics: a new tool to study magnetic interfaces,
- International School of Solid State Physics, 14th Workshop: EPIOPTICS 5, Erice, Sicily, June 17--22, 1998.
- Joint Summer School on Mesomagnetism, Spin Dynamics and Spin Electronics, Rhodos, Griekenland, 12-19 september 1999
- Nonlinear Optical Probing of Surface Chemistry Summerschool Catalysis DPI, Dronten, 1 september 1999
- Int. School of Solid State Physics, EPIOPTICS 2000, 19-25 July 2000, Erice-Sicily, Italy.
- Ultrafast spin- and magnetization dynamics, Joint Summer Workshop on "Mesomagnetism, Spin Dynamics and Spin Electronics", June 30 - July 5 2001, Santorini, Griekenland
- International School of Solid State Physics, 22nd Course, EPIOPTICS 7, 20-26 juli 2002, Erice, Italië.
- Nonlinear magneto optics, EpiOpticsSchool, Erice, Italie, 23 juli 2004, Italy
- Ultrafast spin and magnetization dynamics in magnetic nanostructures, Academy Colloquium, Royal Dutch Academy of Science (KNAW) 15-19 June 2004.
- MIREA Institute, Moscow, June 28 2005: Introduction to NanoscienceMIREA Institute, Moscow, June 28 2005: Ultrafast spin and magnetization dynamics in magnetic nanostructures.
- Intern. Winterschool on Application of Modern Optics to Condensed Matter Sciences January 2006, Beijing:" Dynamics of Magnetic Nanostructures: Investigation and coherent control by femtosecond laser pulses
- InternationalSchool of SolidState Physics, 15th Workshop:"Nonlinear Magneto Optics" EPIOPTICS-9 July 20-26 , 2006.
- InternationalSchool of SolidState Physics, 15th Workshop:"Magnetization Dynamics" EPIOPTICS-9 July 20-26 , 2006.
- SummerUniversity, Nijmegen: Nano-magnetism Aug. 2006.
- International School of Solid State Physics, 15th Workshop: "Magnetization Dynamics" EPIOPTICS-10, June 2008
- Spring School 2009, Spintronics, Julich, Germany

- Honours program Radboud University Nijmegen spring 2009
- InternationalSchool of Solid State Physics, ”Magnetization Dynamics” EPIOPTICS-11 July 19-25, 2010
- Gordon Conference: Ultrafast Phenomena in Cooperative Systems, Hotel Galvez in Galveston TX United States, Titel: Ultrafast Magnetism and Data Storage (Discussion Leader) 02/19/2012 - 02/24/2012, Galveston TX United States
- International School of Solid State Physics, ”Magnetization Dynamics” EPIOPTICS-July 24-30, 2012
- Summerschool on oxides and oxide interfaces, IFOX Hesselberg, Advanced Spectroscopy: Linear and Nonlinear Magneto-optics July 29-Agust 3, Germany
- Stanford Ultrafast X-ray Summer school; Ultrafast Opto-magnetism June 18-21, 2013
- 14thSwieca School on Quantum Optics and Nonlinear Optics, January 27-february 7, 2014
- Epi-Optics 26 juli – 1 augustus all optical probing and control of magnetism: from fundamentals to nanoscale recording
- IP Summerschool Femtomag 03-08-2014-16-08-2014 Radboud University
- School on Cooperative Phenomena in Condensed Matter: From Bose-Einstein Condensates to Quantum Optics: November 2-13 2015 Buea Cameroon
  - Lecture 1: femtosecond magneto-optics: probing ultrafast magnetization dynamics
  - Lecture 2: femtosecond opto-magnetism: controlling magnetism by light
- Zomerschool Ameland: “Bits and Brains”: New materials and brain-inspired concepts for low energy information processing, june 2016
- Mainz: Antiferromagnetic Workshop: SPICE September 26-30-2016: Title: Controlling antiferromagnetic spins by light
- Wuhan University of Technology, China, 12 mei – 17 mei; student lecture: Controlling Magnetism at the speed of light
- les Diablerets , Switzerland, July 8-11, GRC Conference on Spintronics; title: All-Optical Control of magnetism: from ferri- to ferromagnets, nanoscale engineering and brain inspired computing
- Brno, ESM, Tsjechie, September 4-7; title: All-Optical Control of magnetism I: Pump-probe techniques
- Brno, ESM, Tsjechie, September 4-7; title: All-Optical Control of magnetism II: from fundamentals to nanoscale engineering

Administrative and management activities

1986-1988	Deputy program leader "Instrumentation for Surface Science", at the Center for Advanced Materials, Laurence Berkeley Laboratory, Berkeley, California.
1988-1994	Organiser General Physics Colloquium, RU Nijmegen.
1988-	Member Library Committee, Dept. of Physics, RU Nijmegen.
1988-now	Member of many (>50) Faculty search committees (full and associate professorships), national and international.
1988-now	Member of many (> 100) doctor thesis committees (local as well as abroad).
1988-2001	Deputy group leader Experimental Solid State Physics group (total of 12 PhD students, 5 undergraduate students, 10 postdocs, 6 technicians).
1988- now	Research group leader, at the moment consisting of 4 PhD students, 1 postdoc, 1 assistant.
1991 - 1992	Secretary Research Institute for Materials, RU Nijmegen
1993 - 1995	Member Faculty board, Faculty of Science, RU Nijmegen.
1993 - 1994	Member Sub-Faculty board, Subfaculty of Physics, RU Nijmegen.

1993	Co-organizer International Conference: “Dynamical Properties of Solids”, DYPROSO XXIII, Lunteren, The Netherlands, Sept. 1993.
1994 - 1995	Member Governing board, Subfaculty of Physics, RU, Nijmegen.
1995	Co-organizer "European Meeting on Ferroelectrics (EMF8)", Nijmegen, July 1995.
	Co-organizer “European Meeting on Integrated Ferroelectrics (EMIF1)”, Nijmegen, July 1995.
1990 - 1997	Chairman Organisation Committee Summer Schools “InternationalSchool for Material Science”, the Netherlands (joint activity between the RU, TUD and RUG).
1997 - 2005	Chairman Organisation Committee Summer Schools “Joint Material Research Schools”, the Netherlands (joint activity between RU, RUG and UT)
1999	Advisory committee international conference Optics at Surfaces and Interfaces (OSI)
1999	Int. Organizing committee of the Magneto Optical Recording International Symposia, MORIS
2000	Co-director bi-annual Int. Solid State Physics school "EPIOPTICS", Erice, Sicily
1996 - 2000	Coordinator European TMR Network NOMOKE (1.25 M€, 6 partners)
2000	Member International Advisory Committee for the Joint European Magnetic Symposia (JEMS)
2000	Member Advisory Committee of the European Magentic Materials and Applications Conference. EMMA
2001	Chairman International Conference “Nonlinear Optics at Interfaces” – NOPTI 2001, Nijmegen.
1997 - 2001	Coordinator European TMR Network SILC (1.3 M€, 9 partners)
2001 - 2011	Lid Wetenschappelijke Raad van het Fonds voor Wetenschappelijk Onderzoek Vlaanderen (FVO)
2002 - 2006	Coordinator European Training Network DYNAMICS (2M€, 14 partners)
2004 - 2009	Member Governing Board Dutch NanoNed initiative.
2005 - 2008	Lid, Werkgemeenschapscommissie Nanofysica/technologie Stichting FOM
2006	Co-chairman Magneto Optical Recording International Symposium (MORIS), Chiba, Japan.
2006 - 2008	Coordinator European INTAS: project 05-1000008-8112, Ultrafast spin dynamics at phase transitions in magnetically ordered systems. (6 partners)
2006 - 2009	Coordinator, NWO- RFBR project Ultrafast magneto photonics (4partners)
2006 -2019	Director Nijmegen Center for Advanced Spectroscopy (NCAS), Faculty of Science, RU Nijmegen
2007	Co-chair and member advisory committee International Symposium, Spin Waves, St. Petersburg June, 16-21 2007.
2007	Member Committee "Actieplan Natuurkunde" (plan for the future of Physics in the Netherlands, on behalf of the Ministry of Science and Education)
2008 - 2016	Member Executive Board FOM and Physics Board NWO.
2009 - 2012	Member Executive Board Institute for Molecules and Materials (IMM)
2010	Member International Advisory Committee of the ICMFS (International Colloquiumon Magnetic Thin Films and Surfaces)
2010	Member of the International Scientific Committee Photoinduced Phase Transitions and Cooperative Phenomena (PIPT)
2011	Chairman International Conference MORIS2011, Nijmegen
2010	Member International Advisory Committee JEMS
2008	Member Intern. Advisory Committees of MORIS, ICMFS, Spin Waves and OSI
2013	Scientific Board Ultrafast Conference Magnetism
2015	Chairman Ultrafast Conference Magnetism, Nijmegen, the Netherlands

2016 - 2019 Director Executive Board Institute for Molecules and Materials (IMM)
2016 Chairman Section Physics Royal Dutch Academy of Arts and Sciences (KNAW)
2018 Member Governing Board of ARCNL
2019 -2021 Member PhotonDelta Expert Panel
2019 – Member Scientific Board Business Cluster Semiconductors Netherlands (BCSEMINL)

Research Grants

National Research Grants (= Coordinator)*

1988-1992* Research Grant, Dutch Science Foundation (NWO/STW):
The nonlinear optical properties of KTP, BBO and TeO and their relation to their crystal growth history and physical and chemical properties.

1989* Research Grant, Dutch Science Foundation (NWO/FOM):
Nonlinear optics for condensed matter (National program).

1990-1993 Research Grant, Radboud University Nijmegen:
Scanning tunneling microscopy with polarised electrons.

1990-1994 Research Grant, Dutch Science Foundation (NWO/FOM):
A spin polarized scanning tunneling microscope.

1990-1994 Research Grant, Dutch Science Foundation (NWO/FOM):
Study of surface disordering by optical second harmonicgeneration.

1992-1996 Research Grant Dutch Science Foundation (NWO/STW):
Fabrication and characterization of polymeric organicmolecules for electro-optical applications.

1992-1996 Research Grant Dutch Science Foudation (NWO/STW):
Growth, characterization and research on cationdopednonlinear optical crystals KTP, KTA and BBO.

1992-1995 Research Grant Dutch Science Foundation (NWO/FOM): Scanning tunneling electronenergy loss spectroscopy.

1992-1995 Research Grant, RadboudUniversityNijmegen:
Development novel magnetic local probe techniques and theirapplication for magnetic recording.

1993-1995 Research Grant Dutch Science Foundation (NWO/FOM):
Study of surface and thin film magnetism by localmagnetic probe techniques.

1993-1996* Research Grant Dutch Science Foundation (NWO/FOM):
Carrier dynamics in lower dimensional structures.

1993-1996 Research Grant Dutch Science Foundation (NWO/FOM):
Nanometer resolution in optical spectroscopy ofsemi-conducting surfaces.

1994-1997 Research Grant Dutch Science Foundation (NWO/STW):
Carrier heating effects as a means for ultrahigh speed operation of a GaInAsP/InP distribution feedback laser.

1994 Investment Research Grant Dutch Sience Foundation (NWO/FOM):
Nanoscopic studies of surface and interface magnetism.

1995 Investment Research Grant Dutch Science Foundation (NWO/FOM):
Fast tunable laser and optical parametric oscillator.

1995-1998 Research Grant Dutch Science Foundation (NWO/FOM):
Picosecond phonon dynamics on a nanometer length scale.

1996-1999 Research Grant Dutch Science Foundation (NWO/FOM):
Laser manipulated magnetic nanostructures.

1996-1999 Research Grant Dutch Science Foundation (NWO/STW):

	Ferroelectric films for optical and piezoelectric applications
1996-1999	Research Grant Dutch Science Foundation (NWO/STW): Vertically integrated transistor-laser structure for high-speed low-chirp modulation.
1998-2001	Russian-Dutch Research Cooperation (NWO): Nonlinear Magneto-Optics
1998-2002	Research Grant Dutch Science Foundation (NWO/FOM): Femtosecond magnetization dynamics
1998-2002	Research Grant Dutch Science Foundation/Philips (NWO/FOM): Nonlinear optical near-field microscope for interface characterization (LaboratoriumzonderMuren)
1999-2002	Research Grant Dutch Science Foundation (NWO/FOM): Physics of laser controlled atomic beam deposition
2000-2004	Research Grant Dutch Science Foundation (NWO/STW): Liquid Crystal Alignment for Display applications
2000-2003	Rusian-Dutch Research Cooperation (NWO): New nonlinear dielectric films for nanotechnology
2000-2004	Research Grant Dutch Science Foundation (NWO/FOM): New approaches to single molecule optics and dynamics on surfaces
2000	Research Grant Dutch Science Foundation (NWO/FOM) Investment budget Ellipsometer
2003-2007	Research Grant Dutch Science Foundation (NWO/FOM) Electronic structure and Dyanmics of low Dimensional Magenticnansostructues
2003-2007	Research Grant Dutch Science Foundation (NWO/FOM) 1D and 2D tunable photonic waveguides
2006-2010	Research Grant Dutch Science Foundation (NWO/FOM) New directions in atomic lithography
2003-2007	Besluit Subsidie Investering Kennnisinfrastructuur (BSIK). NanoImpuls, NanoNed Terahertz Switching of magnetic memory by magnetic field pulse shaping.
2003-2008	Besluit Subsidie Investering Kennnisinfrastructuur (BSIK); NanoImpuls, NanoNed Spin-Injection, spin transport and interfaces in lateral semiconductor spin transistors.
2005-2009	Besluit Subsidie Investering Kennnisinfrastructuur (BSIK); NanoNed STM assisted Nano-optical detection
2005-2009	Besluit Subsidie Investering Kennnisinfrastructuur (BSIK); NanoNed NanoLab
2005-2009	Besluit Subsidie Investering Kennnisinfrastructuur (BSIK); NanoNed Optical spin control in hybrid spintronic devices
2005-2009	Besluit Subsidie Investering Kennnisinfrastructuur (BSIK); NanoNed Materials growth/deposition: Novel oxides by cluster beam manufacturing
2005-2009	Besluit Subsidie Investering Kennnisinfrastructuur (BSIK); NanoNed Photonic devices via atom-optical nanofabrication
2005*	Besluit Subsidie Investering Kennnisinfrastructuur (BSIK); NanoNed Investment NanoNed 3.3. M€
2005*	European Fund Regional Development (EFRO), NanoLab, Investment 1 M€
2006*	NWO-BIG NationalProgramme Investments in Large Research Facilities, 26 M€: NationalCenter for Advanced Spectroscopy
2006-2009*	NWO- RFBR 047.017.031 Ultrafast magneto photonics
2006-2012	Coherent Quantum Control of Magnetic order (FOM)
2009-2013	Femtosecond nano-optical magnetic recording and retrieval.
2009-2014*	Research Programme “Controlling spin dynamics in magnetic nanostructures” (SPIN) k€ 3007

2009-2013 Femtosecond Opto Magnetism (FOM, SPIN)
2009-2014 Nanoscale Manipulation of magnetization by plasmonic structures (FOM, SPIN)
2010-2014 Quantum Coherence in picometer-size magnets (Personeel, Investering en materieel, FOM)
2010-2014 Ultrafast Kinetics of magnetic phase transitions studied by time-resolved stimulated Raman scattering (Personeel, Investering en materieel) (FOM).
2012-2015 Non-equilibrium magnetism on the time scale of exchange and spin-orbit interactions.
2013 Valorization Grant "Magneto-Optical Switching" (STW)
2014-2020 FOM Exciting Exchange (EEX) k€ 2246
2017-2019 NWA Brain-inspired Computing k€ 142

European Research Grants (= Coordinator)*
1994 INTAS-93-370:Nonlinear optics in nanostructrures: quantum dots, quantum wells andsuperlattices (25 k€).
1994 HCM Network CHRX-CT94-0563, The physical and electronic structure of surfaces and interfaces (250 k€).
1994-1996 HCM Institutional Fellowship ERB-CHBG CT.93-0444 (100 k€).
1994-1996* CIPA-CT93-0159 (Cooperation in Science and Technology with Central and Eastern European Countries):Liquid Crystals in Restricted Geometries (200 k€).
1995-1998* INTAS-94-2675:
Nonlinear optical phenomena in thin magnetic film structures (35 k€).
1995-1997 Institutional Fellowships ERB-CHBG-CT94-0746 (100 k€).
1996-1999* TMR Network NOMOKE (1.25M€).
Nonlinear magneto-optical Kerr effect studies of thin magnetic films.
1996-1999 INTAS-95-722, Nonlinear-Optical Studies of Structuraland Dynamic Properties of Ferroelectric Thin Ceramic Films.
1997-2002* TMR Network SILC, Surfaces and Interfaces of Liquid Crystals
1997-2000* INTAS-97-705, Magnetizationdynamicson a femtosecond time scale
1998-2001 Brite Euram BRPR-CT98-0657/Tunnelsense, coordinator: Siemens
Wafer scale high performance magnetic sensors based on the magnetic tunnel effect
2001-2004 EU, SPINOSA Spin polarized injection in nanostructures and devices k€ 284
2001–2006* DYNAMICS of magnetic nanostructures, 14 partners, 2M€
2002-2005 INTAS-01-0075, Ferroelectric templated in nanopouros membrane.
2003-2006* INTAS-03-3784, Tunable magnetic phononic crystals as the new media for photonics.
2004-2007 MOIF: Photovoltaic Materials from Novel Self-Assembling Nanostructured Liquid Crystals. LC-Energy
2006-2008* INTAS: 05-1000008-8112.Ultrafast spin dynamics at phase transitions in magnetically ordered systems.
2008-2011* EU, ULTRAMAGNETRON, 8 partners, 3.2 M€
2008-2012* EU, FANTOMAS, 10 partners, 2.9 M€
2008-2012 EU, HIERARCHY, 10 partners: 4.4 M€
2010-2014* EU, IFOX, 16 partners: 11.3 M€
2012-2016 FEMTOSPIN, 9 partners 4M€
2012-2015 EU, NMP Go Fast, 6 partners 1.1 M€
2013-2018* EU, ERC Adv.Gr. EXCHANGE, 2.5 M€
2016-2020 EU, FETOPEN- SPICE, 675 k€
2017-2020 EU, FETOPEN FemtoTerabyte 470 k€
2019-2015 EU, ERC Synergy Grant 3DMAGiC, 2.0 M€

PhD-students [present position]

1. Wierenga, H. (1995, Dutch), Magnetization induced optical Second Harmonic Generation on magnetic multilayers. [R&D Philips, Korea].
2. Wittebrood, M. (1997, Dutch), Phase transitions and dynamics in confined nematic liquid crystals. [Physics Teacher, Blariacumcollege, Blerick].
3. Jongma, R. (1997, Dutch), Molecular beam experiments and scattering studies with state-selected metastable CO [ASML, Veldhoven].
4. Hasselt, C.W. van (1997, Dutch), Nonlinear and linear optical studies of Si-SiO interfaces [NXP-Nijmegen].
5. Jong, W. de (1999, Dutch), Nonlinear optical study of ultrafast carrier dynamics in GaAs [TNO-FEL, den Haag].
6. Veenstra, K.J. (2000, Dutch), Phase sensitive nonlinear magneto-optical spectroscopy [NXP-Nijmegen].
7. Jurdik, E. (2001, Slowakian, Dutch), Laser manipulation of atoms and nanofabrication [Deputy CEO TurkStream].
8. Kim, M.W. (2001, Korean) Electric and magnetic field induced anisotropy in polymer films for liquid crystal alignment [TexasUniversity].
9. Boer, A.P. de (2002, Dutch), Picosecond Optical Studies of the Carrier Dynamics in semiconductor Optical Amplifiers [R&D, KPN].
10. Gerrits, Th. (2004, German), Coherent Control of fast Precession Dynamics in Magnetic Thin Films [NIST, USA].
11. Hoogboom, J. (2004, Dutch), Supramolecular Liquid Crystal Displays, Construction en Applications [ASML].
12. Bal, K. (2005, Dutch), Thermal Stabililty of Ultrathin Magnetic Metallic Multilayers [ASML].
13. Myszkiewicz, G. (2005, Polish), High Resolution UV spectroscopy and laser focused nanofabrication [ASML, Veldhoven].
14. Hansteen, F. (2006, Norwegian), Ultrafast Optical Control of Magnetization in Ferrimagnetic Garnets [Shell, the Netherlands].
15. Valev, V. (2006, French), Investigation of Ferromagnetic/Antiferromagnetic Interfaces with Magnetization–Induced Second Harmonic Generation [Prof. of Physics, Univ. of Bath, UK].
16. Guyader, L. le (2008, French), Ultrafast Laser-Induced Spatially Modulated Excitation in Magnetic Systems [European XFEL]
17. Stanciu, D. (2008, Romanian), Laser Induced Femtosecond magnetic recording [CANON]
18. Kalashnikova, A. (2009, Russian), Ultrafast Light Induced dynamics of spins and lattice in iron oxides [Head of Lab., Ioffe Institute, St. Petersburg].
19. Versluis, J. (2010, Dutch), Ultrafast and spectrally selective optical control of spins in semiconductor quantum wells [AMOLF]
20. Atoneche, F. (2011, Cameroun), Laser manipulation of atoms and spins, towards smaller and faster magnetic devices [OCE]
21. Vahaplar K. (2011, Turkey) Ultrafast Path for Magnetization reversal in FerrimagneticGdFeCo Films [Company Turkey]
22. Gielkens, O. (2011, Dutch) Picosecond resolution in photoconductively gated scanning tunneling microscopy [ASML, Veldhoven]
23. Malik, D. (2011 Russian) Coherent control of angular momentum – a route to ultrafast control of spins [Radboud University]
24. Dijk, C. van (2011 Australia), Structure and magnetism of atomic clusters [UvA]
25. Johan de Jong (2012 Dutch) Laser-Induced Ultrafast Spin Dynamics in Rare-Earth Orthoferrites [ASML, Veldhoven]

26. S. Lazarenko (2012 Ukrainian) Investigation and manipulation of liquid crystal interface structure [Medisch Centrum Alkmaar]
27. J. Mentink (2012 Dutch) Magnetism on a timescale of the exchange interaction: explanations and predcictions [Assistant Professor, Radboud University]
28. Addis Mekonnen Adamu (2013 Ethiopian) Laser pulse control of spins in ferrimagneticGdCo(Fe)amorphous alloys [Ass. Prof. Bahir Dar Univ., Ethiopia]
29. Sam Khorsand (2013 Dutch) Spectroscopic Study of Ultrafast Laser-induced Magnetization Reversal [ASML, Veldhoven]
30. Jan Kieslewski (2013 Polish) Controlling the Magnetic Anisotropy in Ultrathin Metallic Films [Bialystok, Poland]
31. Jing Zhang (2013 Chinese) Alignment of Liquid Crystals on Geometrically and Chemically Modified Surfaces
32. Rajasekhar Medapalli (2014 Indian) Efficient Optical-Control of Ultrafast Magnetization Dynamics in Thin Film RE-TM Alloys [University of California, San Diego]
33. Benny Koene (2014 Dutch), Magnetization Dynamics, Coherent precession, optical manipulation, and nanoscale switching [Adimec Eindhoven]
34. Davide Bossini (2015 Italian), Femtosecond Optical Excitation of Spins in Antiferromagnetic fluorides: An opto-magnetic journey from the center of the edges of the Billouin zone [Ass. Prof. Dortmund Univ.]
35. Sergey Semin (2015 Russian) Optical properties of organic micro and nanostructures, [Researcher, Radboud University]
36. Changhoon Heo (Korean) Statics and dynamics of magnetic Skyrmions in ultrathin nanomagnets. [IMEC Leuven]
37. Ruslan Subkhangulov (Russian) Ultrafast laser induced dynamics in magnetic semiconductors – optomagnetism and propagation effects. [ASM Laser Separation International (ALSI) B.V.]
38. Dmytro Afanasiev (2015 Ukranian) Large-amplitude spin dynamics induced by femtosecond laser excitation in iron oxides [Delft University]
39. Jonas Becker (2016 Duits) Ultrafast Laser Induced Magnetization Dynamics in High Magnetic Fields [ASML, Veldhoven]
40. Thomas Huisman (2016 Dutch) THz Spectroscopy for THz Spintronics [NXP, Nijmegen]
41. Wei Ta Wu (2016 Taiwan) Liquid Crystal Pretilt Angle Control [Taiwan]
42. Yury Tsema (2017 Russia) Laser Induced Magnetization Dynamics and switching in Multilayers [ASML, Veldhoven]
43. Siebe Rossen (2019 Dutch) Magnetization disorder at finite temperature [ASML, Veldhoven]
44. Anna Gatilova (2019 Ukrain) Ultrafast laser-induced spin dynamics beyond the three temperature model
45. Yulong Duan (2019 China) Functional molecular crystals for optical and thermoelastic materials
46. Saliba Barsaume (2019 Germany) Photo-induced Spin Dynamics in Magnetic Semiconductors: from visible light to THz pumping [2SPL PartG mbB]

Presently supervising 4 PhD students

Postdoctoral fellows, present position

Dr. K. Yamada	30-08-17 – 30-08-20 Tokyo Institute of technology
Dr. A. Chakravarty	15-09-17 – 31-12-19
Dr. C. Davies	01-10-16 – 01-10-18 FELIX Radboud University
E. Mashkovic	01-09-17 – 01-09-19 Radboud University
Dr. K. Szerenos	01-06-17 – 01-06-19
Dr. Anna Pogrebna	01-10-15 - 01-04-19 EPFL, Lausanne
Dr. G. Kichin	23-09-14 - 23-09-16 Universite de Lorraine

D. Y. Hashimoto	17-10-13 – 17-10-15 Chiba University
Dr. R. Mikhaylovskiy	15-11-12 - 15-11-15 Exeter University
Dr. L. Cattaneo, Italian	15-12-10 - 15-10-14 ETH Zuerich
Dr. M. Savoini, Italian	15-12-10 - 15-10-14 ETH Zuerich
Dr. I. Razdolsky, Russian	01-12-10 - 01-12-14 FELIX Nijmegen
Dr. Y. Hashimoto	17-10-11 – 17-10-13 Radboud University
Dr. D. Malik	01-04-11 – 01-04-13 St. Petersburg
Dr. D. Gheorghe	01-07-10 - 01-11-12
Dr. M. Cormier, French	01-03-09 – 01-00-11 CNRS, Paris
Dr. A. Reid, Irish	01-12-08 – 01-04-11 Stanford University
Dr. I. Radu, Romanian	01-11-08 – 01-11-11 Helmholtz-Zentrum Berlin
Dr. A. Kalashnikova	01-05-09 - 01-05-10, Res. IoffeInstitut, St. Petersburg
Dr. G. Myszkiewicz, Polish	01-03-05 – 01-05-07, R&D ASML
Dr. A. Kimel, Russian,	01-06-02 – 01-11-07, Full Professor, RU
Dr. P. Kouwer, Dutch	01-05-04 – 01-05-07, Assoc.Prof. RU
Dr. F. Hansteen, Norwegian,	01-08-05 – 01-08-06, R&D Shell, the Netherlands
Dr. J. Hoogboom, Dutch	01-08-05 – 01-01-05, RU, Molecular Materials
Dr. Christelle Anceau, French	01-02-03 – 01-09-04, AMS, France
Dr. Kursat Bal, Dutch	01-06-06 – 01-09-04, ASML, Veldhoven
Dr. Chi Won Ahn, Korean	01-10-01 – 01-10-03, TUD, KAIST
Dr. A. Tsvetkov, Russian	01-10-02 – 01-10-03, ABN-AMRO
Dr. Marius Boamfa, Rumanian	16-01-02 – 15-08-03, Philips Research Laboratories
Dr. E. Jurdik, Slowakian, Dutch	01-12-01 – 01-03-03, Deputy CEO TurkStream
Dr. A. Tsukamoto, Japanese	15-04-02 – 12-05-03, Full Prof. Nihon Univ. Japan
Dr. Julius Hohlfeld, German	01-11-99 – 01-10-02, Seagate, USA
Dr. M. de Santo, Italian	01-01-01 – 11-02-02, Ass. Prof. Univ. della Calabria, Italy
Prof.Dr. I. Bechtold, Brasilian	08-10-01 – 10-02-02, Prof. Univ. Santa Catarina Brasil.
Dr. M.W. Kim, Korean,	01-12-00 – 16-05-01, University of Texas
Dr. F. Bentivegna, French	01-10-99 – 01-05-01 Ass.Professor ENIB, France
Dr. A. Rastegar, Iranian, Dutch	27-09-00 – 01-01-01, Sematech, Albany, USA
Dr. Lionel Calmels, French	01-09-99 – 01-11-00, CEMES, CNRS, Toulouse, France
Dr. A. Keen, English	16-10-97 – 01-11-00, Edwards, England
Dr. A. Antoni, Italian	01-07-98 – 15-02-99
Prof.Dr. A. Kirilyuk, Russian	10-04-95 – 31-08-98 Full Professor RU
Dr. I. Drevensek, Slovenian	01-05-98- 31-10-98 Assoc. Prof. Univ. Ljubljana
Dr. A. Petukhov, Russian, Dutch	01-03-96 – 01-09-98, Assoc. Professor Utrecht
Dr. R. Groeneveld, Dutch	01-07-93 – 01-01-97, ASML Veldhoven.
Dr. R. Stolle, German	01-07-96 – 01-07-97
Prof.Dr. B. Koopmans, Dutch	01-04-94 – 01-08-94 Prof. of Physics, TUE
Dr. D. Abraham, American	30-08-90 – 01-12-93, Consultant, USA

Most characteristic publications (impact factor and number of citations)

1. A. Kirilyuk, A. V. Kimel and Th. Rasing, Ultrafast optical manipulation of magnetic order, **Review of Modern Physics 82**, 2731-2784 (2010), (**36.917***cit.*795)
2. C.D. Stanciu, F. Hansteen, A.V. Kimel, A. Tsukamoto, A. Itoh, A. Kirilyuk and **Th. Rasing**, All-Optical Magnetic Recording with Circulary Polarized light, **Phys. Rev. Lett. 99** (2007) pp 047601-1-4 (**7.943***cit.*727) (in Science Now top 10 of June and July; Science Breakthrough of the year 2007).

3. R. van Hameren, P. Schön, A.M. van Buul, J. Hoogboom, S.V. Lazarenko, J.W. Gerrtisen, H. Engelkamp, P.C.M. Christianen, H.A. Heus, J.C. Maan, **Th. Rasing**, S. Speller, R.J.M. Nolte, A.E. Rowan and J.A.A.W. Elemans: Macroscopic Hierarchical Patterning of Surfaces via Self-Assembly of Dye Molecules. **Science 314** (2006) pp1433-1436 (**41.063** *cit258).*
4. A.V. Kimel, A. Kirilyuk, P.A. Usachev, R.V. Pisarev, A.M. Balbashov and **Th. Rasing**: Ultrafast non-thermal control of magnetization by instantaneous photomagnetic pulses. **Nature 435** (2005) pp. 655-657 (**74.449***cit.633*).
5. A.V. Kimel, A. Kirilyuk, A. Tsvetkov, R.V. Pisarev and **Th. Rasing**: Laser-induced ultrafast spin reorientation in the antiferromagnetTmFeO. **Nature 429** (2004) pp. 850-853 (**74.449**; *cit.352*).
6. Th. Gerrits, H.A.M. van den Berg, J. Hohlfeld, L. Bar and **Th. Rasing**: Ultrafast precessional magnetization reversal by picosecond magnetic field pulse shaping. **Nature 418** (2002) pp. 509-512 (**74.449***cit.357*).
7. I. Radu, K. Vahaplar, C. Stamm, T.Kachel, N. Pontius, H.A.Du ̈rr, T. A. Ostler, J. Barker, R.F. L. Evans, R. W. Chantrell, A. Tsukamoto, A. Itoh, A. Kirilyuk, **Th. Rasing** & A. V. Kimel, Transient ferromagnetic-like state mediating ultrafast reversal of antiferromagnetically coupled spins **Nature** 472, (2011) 205-208 (**74.449***cit.451*)
8. K. Vahaplar, A. M. Kalashnikova, A.V. Kimel, D. Hinzke, U. Nowak, R. Chantrell, A. Tsukamoto, A. Itoh, A. Kirilyuk, and **Th. Rasing**, Ultrafast Path for Optical Magnetization Reversal via a Strongly Nonequilibrium State, **Phys.Rev.Lett 103** (2009) 117201. (**9.227**, *cit.253*)
9. B. Koopmans, M.G. Koerkamp, **Th. Rasing** and H. v.d. Berg: Observation of large Kerr angles in the nonlinear –optical response from magnetic mulitlayers, **Phys. Rev. Lett. 74**, 3692-95(1995) (**9.227***cit.126*)
10. X.D. Zhu, **Th. Rasing** and Y.R. Shen: Surface diffusion of CO on Ni(111) studied by diffraction of optical second-harmonic generation off a monolayer grating; **Phys. Rev. Lett**. **61** (1988) pp. 2883-2885 (**9.227***cit.141*).
11. **Th. Rasing**, Y.R. Shen, M.W. Kim and S. Grubb: Observation of molecular reorientation at a two-dimensional-liquid phase transition; **Phys. Rev. Lett.55** (1985) pp. 2903-2906 (**9.227***cit. 151*).
12. G.G. Boyd, **Th. Rasing**, J.R.R. Leite, Y.R. Shen: Local-field enhancement on rough surfaces of metals, semimetals, and semiconductors with the use of optical 2nd-harmonic generation, **Phys. Rev. B30** (1984) pp. 519-526 (**3.736***cit.293*).
13. Graves, C.E., Reid, A.H., Wang, T., Wu, B., Jong, Sijbrand de, Vahaplar, K., Radu, I., Bernstein, D.P., Messerschmidt, M., Muller, L., Coffee, R., Bionta, M., Epp, S.W., Hartmann, R., Kimmel, N., Hauser, G., Hartmann, A., Holl, P., Gorke, H., Mentink, J.H., Tsukamoto, A., Fognini, A., Turner, J.J., Schlotter, W.F., Rolles, D., Soltau, H., Struder, L., Acremann, Y., Kimel, A.V., Kirilyuk, Andrei, **Rasing, T**., Stohr, J., Scherz, A.O. & Durr, H.A. (2013). Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic GdFeCo. **Nature Materials**, 12(4), 293-298 (46.863*cit159).*
14. Xu, J.L., Semin, S., Niedzialek, D., Kouwer, P.H.J., Fron, E., Coutino, E., Savoini, M., Li, Y.L., Hofkens, J., Uji-I, H., Beljonne, D., **Rasing, T**. & Rowan, A.E. (2013). Self-Assembled Organic Microfibers for Nonlinear Optics. **Advanced Materials**, 25(14), 2084-2089 (25.809*cit71*).
15. Y. Duan, S. Semin, P. Tinnemans, H. Cuppen, J. Xu and **Th. Rasing**, Robust thermoelastic microactuator based on an organic molecular crystal. **Nature Communications 10**, 4573, (2019) **(11.880***cit.4*).

Complete list of publications
More than 500 publications in international journals with a total citation over 15000 times (h=59 Web of Science). 43 articles in Phys. Rev. Lett, 18 in Nature journals and 1 in Science. One of the Phys. Rev. Lett. of 2007 was mentioned as one of the Breakthroughs of the year by the journal Science. Rasing is co-inventor of 4 patent applications.

Monograph
Th. Rasing, I. Musevic: "Surfaces and Interfaces of Liquid Crystals", Springer-Verlag Berlin Heidelberg (2004) ISBN 3-540-20789-9.

Ultrafast Magnetism I, Springer Proceedings in Physics 159: Proceedings of the International Conference UMC2013 Strasbourg, France, October 28th – November 1st, 2014, Editors: Jean-Yves Bigot, Wolfgang Huebner, Theo Rasing, Roy Chantrell (ISBN 978-3-319-07742-0)

Chapters in Books (by invitation)
- Musevic, B. Zeks, R. Blinc and Th. Rasing: Ferroelectric liquid crystals: from the plane wave to the multisoliton limit; in: `Liquid crystals in the nineties and beyond,' S. Kumar ed., pp. 183--224 (World Scientific, Singapore, 1995).
- Th. Rasing: Nonlinear Magneto-Optics for Magnetic Thin Films, in: `Magnetic Thin Films and Industrial Applications,'U. Hartmann, ed. (Springer, Berlin1996).
- Th. Rasing: Nonlinear Optics of Thin Magnetic Films, in: `Notions and Perspectives of Nonlinear Optics,' O. Keller, ed.,Proceedings Aalborg (World Scientific, Singapore, 1996), pp. 339--369.
- Th. Rasing: Nonlinear Magneto-Optical Studies of Ultrathin FilmsandMultilayers,in: `Nonlinear Optics in Metals,' K.H. Bennemann, ed.(Oxford University Press, 1998, p. 132--218).
- Th. Rasing: Nonlinear magneto-optics. In: Encyclopedia of Materials: Science and Technology, Elsevier Science Ltd., 2001, pp. 6226-6230.
- Th. Rasing, H. van den Berg, Th. Gerrits and J. Hohlfeld: Ultrafast magnetization and switching dynamics. In: "Spin Dynamics and Confined Magnetic Structures II, B. Hillebrands, K. Ounadjela (eds.), Springer-VerlagBerlin Heidelberg 2003. Topics Appl. Phys. 87 (2003) pp. 213-251.
- I.L.Lyubchanskii, N.N. Dadoenkova, M.I. Lyubchanskii, E.A. Shapovalov, Th. Rasing, A. Lakhtakia: Photonic band gap effects in magnetic film with periodically striped-domain structure. In book: "Advances in Electromagnetics of Complex Media and Matamaterials", Proceedings of NATO ARW, S. Zouhdi et all., eds., Kluwer Academic Publishers, The Netherlands, pp. 157-174, 2003.
- Th. Rasing, H. van den Berg, T. Gerrits, J. Hohlfeld, Ultrafast magnetization and switching dynamics, Spin Dynamics in confined magnetic structures II, 87 213 2003, Topics in Applied Physics.
- Irena Drevensek-Olenik, Silvia Soria, Martin Copic, Gerd Marowsky and Th. Rasing, Solid Liquid Interfaces Probed by Optical Second-Harmonic Generation. In: "Surfaces and Interfaces of Liquid Crystals", Springer-Verlag BerlinHeidelberg (2004) pp 111-135 ISBN 3-540-20789-9.
- Th. Rasing and J. Gerritsen, Scanning Probe Microscopy Studies of Liquid Crystal Interfaces. In:"Surfaces and Interfaces of Liquid Crystals", Springer-VerlagBerlinHeidelberg (2004) pp. 175-208, ISBN 3-540-20789-9.
- A. Kirilyuk and Th. Rasing, "Magnetization induced Second Harmonic Generation Techniques", Handbook of Magnetism and Advanced Magnetic Materials, ed. Helmut Kronmüller and Stuart Parkin, Vol 3 Novel techniques for Characterizing and Preparing Samples, 2007 John Wiley & Sons Ltd., ISBN978-0-470-02217-7.
- Theo Rasing, Alexey Kimel, Andrei Kirilyuk, Femtosecond opto-magnetism: ultrafast manipulation of spins. ForschungszentrumJuelich, ISBN 978-3-89336-559-3.

Patents

- Multistable Liquid Crystal device (filed October 2006).
- Magneto-optical switching device and method for switching a magnetizable medium, C.D. Stanciu, F. Hansteen, A.V. Kimel, A. Kirilyuk, A. Tsukamoto, A. Itoh and Th. Rasing, Internationa Patent WO2007136243 (2007).
- Th. Rasing, J. Mentink, A. Kirilyuk, A. Kimel, R. Evans, R. Chantrell, T. Ostler, J. Barker: NL48539; Nieuwe Nederlandse octrooiaanvrage nr. 2008039 "Magnetization reversal" (2011)
- Th. Rasing, M. Savoini PCT/NL2014/050787, EP3069347A2, WO2015072856A3, WO2015072856A4: Magneto Optical Device, 2015

Popular publications

- Theo Rasing: Grensvlakken-onderzoek met behulp van niet-lineaire optica; Ned. Tijdsch. v. Nat. B55, 149 (1989).
- M. Groot Koerkamp, B. Koopmans and Th. Rasing: Reusachtige niet-lineaire magneto-optische Kerr effecten; NNV, Van A tot Q, 7, 10 (1995).
- M. Groot Koerkamp and Th. Rasing: Reusachtige niet-lineaire magneto-optische Kerr rotaties; NEVAC 33, 101 (1995).
- N.J. van Wijk, E. Jurdik, A.F. van Etteger, T.J. Toonen, J.G.H. Hermsen, W.L. Meerts, Th. Rasing en H. van Kempen: Atoom optica. Laser gefocusseerde nanostructuren. Nevacblad 39 (2001), pp. 101-105.
- E. Jurdik, F. Bentivegna, A.V. Petukhov, A. van Etteger, M. van Rij, W.L. Meerts, Th. Rasing, H. van Kempen: Light-driven growth of nanostructures; NNV, Van A tot Q, 11, 29-33 (1997).
- J. Hohlfeld, Th. Rasing: Editorial. Special Issue: Nonlinear optics at interfaces (NOPTI). Appl. Phys. B 74 (2002) p. 615.
- A. Kimel, A. Kirilyuk, R. Pisarev en Th. Rasing: Bliksemsnelle Magneten, Frontlinie, NTvN, September 2005.
- Th.Rasing: Physica-lezing: Magneten schakelen met licht, NTvN, augustus 2007
- C.D. Stanciu, A.V. Kimel, A. Kirilyuk, Th. Rasing, Femtoseconde optomagnetische recording, Nederlands Tijdschrift voor Natuurkunde, 74-05, 172 (2008).
- J.A. de Jong, A. Kirilyuk, Th. Rasing, and A.V. Kimel, Vlindereffect in ultrasnelle magneten, Nederlands Tijdschrift voor Natuurkunde, 78-10, 430 (2012).

Outreach

Theo Rasing is frequently asked to give public and high school lectures and has participated in public debates on pro and cons of nanoscience and technology (for example Pulic debate Lux Nijmegen, October 2005, Casa Luna (radio interview) October 2005, Beta platform, Amsterdam, 15 November 2006, Academischejaarprijs 2006, "Cultuur op de Campus", "DansendeAtomen", October 2006, Dominicus College, Lecture and Ballet, October 2006, Blikwisseling, Arnhem 2012).His research has been attracting a lot of media attention in the last years, including articles and interviews in national and international papers and radio.

- Nijmegen: Mystery X Lustrum bijeenkomst March 15 2017, Bits en Brains
- In Science Festival LUX, 10 november 2017: Bits and Brains pitch
- Radboud Kids 31 mei 2018, bezoek aan basisschool en lezing
- Manana, manana festival, Universitipi zondag 17 juni 2018, Bits en Brein: op zoek naar zelflerende computers?
- De zwarte Cross: Vrijdag 13 juli 2018: Bits en Brein:"op zoek naar zelflerende computers"
- Nijmegen, HOVO lecture, 5 december 2019; de Transistor