

CURRICULUM VITAE

Nathalie Helene Katsonis

Date of birth: 22 February 1978 | *Place of birth:* Vienna (Austria)

Nationality: French, Greek | *E-mail:* n.h.katsonis@utwente.nl | *Homepage:* <http://www.katsonis.eu>

EDUCATION

- 2001 – 2004** **Doctor of Philosophy**
Supervisor: Dr. Denis Fichou, Université Pierre et Marie Curie, Paris, France
Nanoscale probe of molecular self-assemblies at the liquid-solid interface
- 2001** **Master of Science**
Supervisor: Prof. Ludovic Jullien, Ecole Normale Supérieure (ENS), Paris, France
Photochemistry of the Photoactive Yellow Protein chromophore
- 1998 – 2001** **Chemical Engineer**
École Nationale Supérieure de Chimie de Paris, Paris, France

ACADEMIC APPOINTMENTS

Maternity leave: Jan-March 2011 (birth 15-01-2011), June-Sept 2014 (birth 29-07-2014), June-October 2018 (due date 08-07-2018).

- 2017** **Professor of Chemistry**
Bio-inspired and Smart Materials, University of Twente, NL
- 2011 – 2016** **Assistant/Associate Professor**
University of Twente, NL
- 2007 – 2011** **Junior Research Group Leader**
University of Groningen, NL
- 2007 – 2009** **Chargée de Recherches C.N.R.S.**
Physics and Condensed Matter, Toulouse, France
- 2006** **Visiting Researcher**
KU Leuven, Belgium
- 2004 – 2006** **Post-doctoral Fellow**
Supervisor: Prof. Ben Feringa, University of Groningen, NL

SCIENTIFIC REPUTATION

- 2017** Gold Medal of the Royal Dutch Society of Chemistry (KNCV)
Premier prize for researchers in the chemical sciences in the Netherlands
- 2017 – 2020** Royal Netherlands Academy of Arts and Sciences (KNAW)
Member of the Advisory Board for Natural Sciences
- 2016** Athena Award of the Dutch Science Foundation (NWO)
- 2014 – 2019** Royal Netherlands Academy of Arts and Sciences (KNAW)
Member of the Young Academy
Co-chair of the Internationalization thematic group
- 2014** Junior Scientist Fellowship
Bürgenstock Conference on Stereochemistry
- 2014** EuCheMs Young Investigator
- 2012** De Winter Prize of the University of Twente
- 2011 – 2016** U-Twist Fellowship of the University of Twente

FUNDING PORTFOLIO

2018	ARC-CBBC Flagships , 800 k€
2018	Consolidator Grant from the European Research Council , 2000 k€
2017	Volkswagen Foundation , 500 k€
2017	ECHO grant for curiosity-driven research, Dutch Science Foundation , 260 k€
2016	Incentive fund from the Institute for Nanotechnology , UT, 15 k€
2014 – 2018	Dutch Foundation for Fundamental Research on Matter (FOM) , 250 k€
2012	Aspasia Premium of the Dutch Science Foundation , 35 k€
2012 – 2017	Starting Grant from the European Research Council , 1500 k€
2012 – 2015	International Exchange Grant from the Royal Society with Prof. Fletcher (Oxford)
2011 – 2016	Vidi Grant from the Dutch Science Foundation , 800 k€
2009	ANR “Jeunes Chercheurs” from the French Science Foundation , 200 k€ (declined).
2006 – 2009	Veni Grant from the Dutch Science Foundation , 180 k€

SERVICE TO THE SCIENTIFIC COMMUNITY

2018	Netherlands Organization for Scientific Research (NWO) Committee Member, Free Competition Program, Phenomenological Physics
2016 - 2018	National Council for Chemistry and Physics, member “Raad voor de Natuurkunde en Scheikunde”, chair: Prof. Robbert Dijkgraaf
2018	Editorial Board Member of Communications Chemistry, Nature Research
2017	Committee Member, Evaluation Committee for the NWA Startimpuls Program
2016	Editorial Board Member of <i>ChemPhotoChem</i>
2016 – 2021	Global Young Academy, Elected member
2014 – 2016	Evaluation Committee for Veni Grants (NWO), member
2015	Dutch Foundation for Fundamental Research on Matter Evaluation Committee for the FOM Projectruimte Grant, member
2015 – 2015	Validation Committee ‘Nationale Wetenschapsagenda’ Member of the Natural Sciences section
2015 – 2015	KNAW Gilles Holst Award, Committee Member
2014	KNAW Educational committee, Committee Member
2013 – 2016	NWO Chemical Science advisory committee on gender policy

Referee service: American Chemical Society (*JACS*), the Royal Society of Chemistry (*Chem. Commun.*), Wiley (*Angewandte; Advanced Materials*) and Nature Publishing Group (*Nature; Nature Chemistry; Nature Communications, Nature Protocols*).

PhD promotion committee member: Delft, Eindhoven, Geneva, Groningen, Nijmegen, Paris

SUPERVISION and MENTORSHIP

I have supervised five PhD students independently. Currently (2018), I am supervising 2 Postdocs and I serve as promotor to 5 PhD students.

Past defences:

“Azobenzenes as energy transducers in dynamic supramolecular systems”, H. Huang (2018)

“Optical control over monomeric and multimeric protein hybrids”, R. Putri (2017)

“Light in control of twisting matter”, S. Iamsaard (2016)

“Encoding smart behaviour in chiral liquid crystal-based materials” S. J. Aβhoff (2015)

“Chirality under confinement – multidimensional constraints in liquid crystals” P. Sleczkowski (2014)

I take an active role in teaching and mentoring younger researchers, and several have been successful in gaining recognition: **Best Poster Prize** for Federico Lancia at the Telluride meeting on molecular motors, rotors and switches (2018), Rindia Putri nominated for **Global Young Scientists Summit** (2016), **Best poster award** for Rindia Putri at the International Symposium on Supramolecular Chemistry on Proteins (2015), **Young Researcher Award** for Supitchaya Iamsaard at the Munster Symposium on Cooperative Effects in Chemistry (2014), **Best poster award** for Benjamin Matt at the MESA+ meeting (2013), Participation of Sarah-Jane Aβhoff in the **Lindau Nobel Laureate Meeting** on Chemistry (2013), **Best poster award** for Sarah-Jane Aβhoff at the National Chemistry Conference Chains (2011), Dr. Benjamin Matt selected as **lead researcher at the French Ministry of Defence** (2014).

TEACHING

- June 2018 **Best teacher award** in Chemical Engineering (4th quartile)
2011 – current ‘**Organic chemistry**’, Bachelor Advanced Technologies (lectures and tutorials)
2014 – current ‘**Molecular spectroscopy**’, Bachelor Chemical Engineering (lectures and tutorials)
2011 – 2016 ‘**Fundamentals of Chemistry**’, Bachelor Chemical Engineering.
- Coordinating and tutoring the literature and experimental project.
- The project includes a workshop on **presentation skills and a plagiarism awareness** course.

COLLABORATIONS

- Ivan Aprahamian** Molecular switches for liquid crystal elastomers, Dartmouth College, USA
<http://www.dartmouth.edu/~aprahamian/>
- Etienne Brasselet** Interaction of light with condensed matter. CNRS Bordeaux, France
<https://www.loma.cnrs.fr/thematique-singular/>
- Ben Feringa** Molecular motors for liquid crystal elastomers. Groningen, NL
<http://www.benferinga.com/>
- Steve Fletcher** Design and synthesis of azobenzene switches. Oxford, UK
<http://fletcher.chem.ox.ac.uk/>
- Tibor Kudernac** Supramolecular mechanics. Twente, NL
https://www.utwente.nl/en/tnw/mnf/People/academic_staff/tibor_kudernac

ORGANISATION OF CONFERENCES

- 2021** GRC Supramolecular chemistry and self-assembly
Jointly with Rafal Klajn, Weizmann Institute, Israel
- 2020** IUPAC Symposium on Photochemistry
Member of the organising committee, chair: Fred Brouwer, Amsterdam, NL
- 2018** Telluride Research Center Workshop, Telluride USA
Artificial molecular motors, rotors and switches
Chairs: Alberto Credi, Rafal Klajn
Vice-Chairs: Amar Flood, Nathalie Katsonis
- 2016** Joint Workshop co-organised with Dick Broer (TU/e)
Liquid crystals for functional materials, Eindhoven, NL

INVITED LECTURES (past five years)

- 2020 15th International Symposium on Macrocyclic and Supramolecular Chemistry, Sydney, Australia
- 2019 Gordon conference on supramolecular materials, Les Diablerets, Switzerland
- 2019 Gordon conference on molecular motors and switches, Stonehill College, USA
- 2018 4th ERC Grantees Conference, Weizmann Institute, Israel
- 2018 Avond van de Chemie (115th anniversary of the KNCV), Den Haag, NL
- 2018 German Liquid Crystal Conference, University of Luxembourg, LX
- 2017 Molecular Machines Nobel Prize Conference, University of Groningen, NL
- 2017 6th Gratama Workshop, Groningen, NL
- 2017 Molecular Switches, SFB677 "Function by Switching", Kiel, DE
- 2017 **Keynote Speaker**, ISMSC, Cambridge, UK
- 2017 Gordon conference on supramolecular materials, Les Diablerets, Switzerland
- 2017 Gordon conference on molecular motors and switches, Stonehill College, USA
- 2017 University of Amsterdam, NL (Prof. Fred Brouwer)
- 2016 University of Munster, DE (Prof. Bart-Jan Ravoo & Prof. Frank Glorius)
- 2016 Colloquium of the Netherlands Royal Academy of Science, Amsterdam, NL
- 2016 University of Eindhoven, NL (Prof. Dick Broer)
- 2016 International liquid crystal conference, Kent State University, USA
- 2016 Molecular motors, rotors and switches, TSRC Workshop, Telluride, USA
- 2016 Radboud University Nijmegen, NL (Prof. Wilhelm Huck)
- 2016 **Keynote Speaker**, Anisotropy and shape in biological materials, Lorentz Workshop, Leiden, NL
- 2016 Molecular switches and functional surfaces, Motzener See, Berlin, DE
- 2016 Multi-Responsive Photochromes, Nantes, France
- 2016 First Middle-Eastern Materials Science Conference, New York University Abu Dhabi, UAE
- 2016 Complexity Cluster Lecture, Keble College, Oxford, UK
- 2016 Annual meeting of the Dutch Foundation for Fundamental Research on Matter, NL
- 2015 Gordon conference on molecular motors and switches, Stonehill College, USA
- 2015 University of Geneva, Switzerland (Prof. Jerome Lacour)
- 2014 Christmas Dinner of the Royal Netherlands Academy of Arts and Sciences
- 2014 EuCheMs Organic Division Young Investigators Workshop, Larnaca, Cyprus
- 2014 Dutch-Israeli Chemistry Meeting, Enschede, NL
- 2014 Bürgenstock Conference on Stereochemistry, Brunnen, Switzerland
- 2014 Wageningen Symposium of the Royal Netherlands Chemical Society KNCV, NL
- 2014 CulturChem Forum, Université Pierre et Marie Curie, Paris, France
- 2014 AMOLF Institute for fundamental research on matter, Amsterdam, NL
- 2014 Ben Feringa's 100th PhD Symposium, University of Groningen, NL

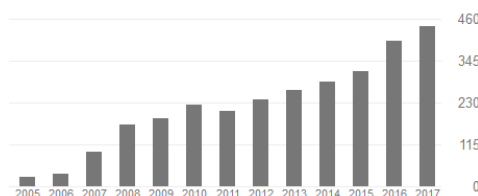
PUBLIC AWARENESS IN SCIENCE (past five years)

- 2018** Book “*Makers van Leven, hoe wetenschappers leven bouwen in het lab*”, by Esther Thole. Contribution to the chapter “*Komkommers, spreekuwen en vleesetende planten: slimme materialen imiteren trucs uit de natuur*”.
- 2018** Article and Video in **Chemical & Engineering News**
[Harnessing the power of shape-shifting polymers](#), 26 February 2018
Articles in C2W, the magazine of the Royal Netherlands Chemical Society
[The Netherlands remain attractive for chemists](#), 11 May 2018
[Thinking differently about materials](#), 23 October 2017
Staying true to yourself (Jezelf blijven), 24 January 2014
- 2016** **Physics Today** (American Institute of Physics)
[Chemistry Nobel highlights mechanical bonds, molecular machines](#)
Physics Today 2016, 69, 12, 18.
- 2016** Media Interviews:
- National newspaper **NRC Handelsblad**
[Hoe won Ben Feringa die Nobelprijs?](#)
 - Local newspaper **UT news**
[Good chemistry and a Nobel Prize](#)
 - **Chemistry World** (Royal Society of Chemistry)
[Switching mindsets](#)
 - Blog post on the science blog Kennislink
[Handige helices](#)
- 2015** Media Interviews:
- National newspaper **NRC Handelsblad**
[Drie universitaire onderzoekers](#)
 - Science blog **Science Palooza**
[Not all who wander are lost](#)
- 2015** Talk, Shell Bachelor and Master Prize, University of Wageningen, NL
[Soft robotics: an opportunity or a threat for society?](#)
- 2015** Talk, [PAC Symposium](#), Dutch association of chemistry students, Amsterdam, NL
- 2015** Art Exhibition, Museum Twentse Welle, Enschede, NL
and talk: Science of Beauty, Beauty of Science
- 2014** Media Interviews:
- National magazine **Elsevier Juist**
Tien met een griffel
 - Blog **Science Palooza**
[Spiraalvormen die ons energiegebruik verminderen](#)
 - National newspaper **De Volkskrant**
[Twente leert moleculen de nanodans](#)
- 2014** Article and Video in **Chemical & Engineering News**
[Inspired by plant tendrils, chemists build polymeric spirals that can ferry small objects](#)

PUBLICATION RECORD

(Co)-authored 52 peer-reviewed articles (June 2018)
11 first author, 28 corresponding author.

Sum of times cited: Google Scholar: **3379**
Hirsch-index: Google Scholar: **27**



PUBLICATIONS

1. T. Orlova, F. Lancia, C. Loussert, S. Iamsaard, N. Katsonis*, E. Brasselet
Revolving supramolecular chiral structures powered by light in nanomotor-doped liquid crystals
Nature Nanotechnology **2018**, *13*, 304-308.
Highlighted in the 'News & Views' of the Nature Nanotechnology issue, "Continuously revolving patterns" by David Bléger.
2. P. Slezczkowski, Y. Zhou, S. Iamsaard, J. J. de Pablo, N. Katsonis*, E. Lacaze
Light-activated helical inversion in cholesteric liquid crystal microdroplets
Proc. Nat. Acad. Sci. **2018**, *115*, 4334-4339.
3. L. Yang, A. Liu, M. V. de Ruiter, C. A. Hommersom, N. Katsonis, P. Jonkheijm, J. J. L. M. Cornelissen
Compartmentalized supramolecular hydrogels based on viral nanocages towards sophisticated cargo administration
Nanoscale **2018**, *10*, 4123-4129.
4. H. Huang, T. Orlova, B. Matt, N. Katsonis*
Long-lived supramolecular helices promoted by fluorinated photoswitches
Macromol. Rapid Commun. **2018**, *39*, 1700387.
Special issue "Synthetic macromolecular machines".
5. A. Ryabchun, F. Lancia, A.-D. Nguindjel, N. Katsonis*
Humidity-responsive actuators from integrating liquid crystal networks in an orienting scaffold
Soft matter **2017**, *13*, 8070-8075.
6. J. W. Fredey, A. Méndez-Ardoy, S. Kwangmettata, D. Bochicchio, B. Matt, M.C.A. Stuart, J. Huskens, N. Katsonis, G.M. Pavan, T. Kudernac
Molecular photoswitches mediating the strain-driven disassembly of supramolecular tubules
Proc. Nat. Acad. Sci. **2017**, *114*, 11850–11855.
7. H. Huang, A. Juan, N. Katsonis*, J. Huskens
Competitive inclusion of molecular photo-switches in host cavities
Tetrahedron **2017**, *73*, 4913-4917.
8. N. L. Weineisen, C. A. Hommersom, J. Voskuhl, S. Sankaran, A. M. A. Depauw, N. Katsonis,* P. Jonkheijm, J. J. L. M. Cornelissen
Photoresponsive, reversible immobilization of virus particles on supramolecular platforms
Chem. Commun. **2017**, *53*, 1896-1899.
9. S. J. Aßhoff, F. Lancia, S. Iamsaard, B. Matt, S. P. Fletcher, N. Katsonis*
High power actuation from molecular photo-switches in enantiomerically paired soft springs.
Angew. Chem. Int. Ed. **2017**, *56*, 3261–3265.

Selected as Very Important Paper by the Reviewers.

Highlighted in Chemical and Engineering News, 95, p.11, 27 February 2017. "Packing more punch into polymer devices". Covered by Chemical and Engineering News, 96, 26 February 2018. "Harnessing the power of shape-shifting polymers", on shape-shifting polymers and their potential application in soft robotics and self-assembling medical devices.

10. S. J. Aßhoff, S. Iamsaard, E. Anger, S. P. Fletcher, N. Katsonis*
Fluorinated azobenzenes for shape-persistent liquid crystal polymer networks
Angew. Chem. Int. Ed. **2016**, *128*, 10062–10066.
Selected as Hot Paper by the Editors
11. S. Iamsaard, E. Villemin, F. Lancia, S. J. Aßhoff, S. P. Fletcher, N. Katsonis*
Preparation of biomimetic photo-responsive polymer springs.
Nature Protocols **2016**, *11*, 1788–1797.
12. R. M. Putri, J. W. Fredy, J. J. L. M. Cornelissen, M. S. T. Koay, N. Katsonis*
Labelling bacterial nanocages with photo-switchable fluorophores.
ChemPhysChem **2016**, *17*, 1815 - 1818.
Special issue on molecular motors
13. T. Orlova, S. J. Aßhoff, T. Yamaguchi, N. Katsonis, E. Brasselet
Creation and manipulation of topological states in chiral nematic microspheres.
Nature Communications **2015**, *6*, 7603.
Covered by NWO “Light tying knots in liquid crystal droplets”.
14. S. J. Aßhoff, S. Sukas, T. Yamaguchi, C. A. Hommersom, S. Le Gac, N. Katsonis*
Superstructures of chiral nematic microspheres as all-optical switchable distributors of light
Scientific Reports **2015**, *5*, 14183.
15. C. Loussert, S. Iamsaard, N. Katsonis*, E. Brasselet
Subnanowatt opto-molecular generation of localized defects in chiral liquid crystals
Adv. Mat. **2014**, *26*, 4242 – 4246.
16. B. Matt, K. M. Pondman, S. J. Aßhoff, B. ten Haken, B. Fleury, N. Katsonis*
Soft magnets from the self-organization of magnetic nanoparticles in twisted liquid crystals
Angew. Chem. Int. Ed. **2014**, *53*, 12446 – 12450.
17. S. Iamsaard, S. J. Aßhoff, B. Matt, T. Kudernac, J. J. L. M. Cornelissen, S. P. Fletcher, N. Katsonis*
Conversion of light into macroscopic helical motion.
Nature Chemistry **2014**, *6*, 229 - 235.
Covered by the national newspaper De Volkskrant, 10 February 2014.
Highlighted in *Chemical and Engineering News*, 92, p.27, 2014, and with a video online.
18. C. A. Hommersom, B. Matt, A. van der Ham, J. J. L. M. Cornelissen, N. Katsonis*
Versatile post-functionalization of the external shell of cowpea chlorotic mottle virus by using click chemistry
Org. Biomol. Chem. **2014**, *12*, 4065 – 4069.
19. J. Chen, E. Lacaze, E. Brasselet, S. R. Harutyunyan, N. Katsonis,* B. L. Feringa
Textures of cholesteric droplets controlled by photo-switching chirality at the molecular level
J. Mater. Chem. C **2014**, *2*, 8137 – 8141.
20. P. Slezekowski, N. Katsonis, O. Kapitanchuk, A. Marchenko, F. Mathevet, B. Croset, E. Lacaze
Emergence of chirality in hexagonally packed monolayers on Au(111).
Langmuir **2014**, *30*, 13275 - 13282.
21. E. G. Petrov, A. Marchenko, O. Kapitanchuk, N. Katsonis, D. Fichou
Conductance mechanism in a linear non-conjugated trimethylsilyl-acetylene molecule.
Mol. Cryst. Liq. Cryst. **2014**, *589*, 3-17.

22. Arramel, T. C. Pijper, T. Kudernac, N. Katsonis, M. van der Maas, B. L. Feringa, B. J. van Wees
Reversible light induced conductance switching of asymmetric diarylethenes on gold
Nanoscale **2013**, *5*, 9277-9282.
23. S. J. Aßhoff, S. Iamsaard, A. Bosco, J. J. L. M. Cornelissen, B. L. Feringa, N. Katsonis*
Time-programmed helix inversion in phototunable liquid crystals
Chem. Commun. **2013**, *49*, 4256-4258.
Special Issue "Emerging Investigators"
24. N. Katsonis*, E. Lacaze, A. Ferrarini
Controlling chirality with macroscopic helix inversion in cholesteric liquid crystals
J. Mater. Chem. **2012**, *22*, 7088 - 7097.
Awarded the De Winter Prijs. Selected as Hot paper by the Editors.
25. Arramel, T. C. Pijper, T. Kudernac, N. Katsonis, M. van der Maas, B. L. Feringa, B. J. van Wees
Electronic properties of individual diarylethene molecules studied using scanning tunneling spectroscopy
J. Appl. Phys. **2012**, *111*, 83716.
26. T. Kudernac, N. Ruangsupapichat, M. Parschau, B. Maciá, N. Katsonis, S. R. Harutyunyan, K-H. Ernst, B. L. Feringa
Electrically-driven directional motion of a four-wheeled molecule on a metal surface.
Nature **2011**, *479*, 208-211 (and cover page).
Highlighted in 'News & Views' of the Nature issue and in *Nature Chem.* **2011**, *3*, 907; *Nature Nanotech.* **2011**, *6*, 756; *Angew. Chem. Int. Ed.* **2012**, *51*, 4277-4278; *Chem. Eng. News* **2011**, *89*, 7. Selected cutting-edge chemistry paper in *Chemistry World* **2012**, *9*, 36. Highlighted during the announcement of the 2016 Nobel Prize in Chemistry, as contributing to "the design and synthesis of molecular machines".
27. T. van Leeuwen, T.C. Pijper, J. Areephong, B. L. Feringa, W. R. Browne, N. Katsonis*
Reversible photochemical control of cholesteric liquid crystals with a diamine-based diarylethene chiroptical switch.
J. Mater. Chem. **2011**, *21*, 3142-3146.
28. X. Y. Zhang, A. C. Coleman, N. Katsonis, W. R. Browne, B. J. van Wees, B. L. Feringa
Dispersion of graphene in ethanol using a simple solvent exchange method.
Chem. Commun. **2011**, *46*, 7539-7541.
29. T. Kudernac, N. Sanding, T. F. Landaluce, B. J. van Wees, P. Rudolf, N. Katsonis, F. Zerbetto, B. L. Feringa
Intermolecular repulsion through interfacial attraction: toward engineering of polymorphs.
J. Am. Chem. Soc. **2009**, *131*, 15655-15659.
30. T. Kudernac, N. Katsonis, W. R. Browne, B. L. Feringa
Nano-electronic switches: Light-induced switching of the conductance of molecular systems
J. Mater. Chem. **2009**, *19*, 7168-7177.
Highlighted online by Chemical Sciences "Flicking the switch on the nanoscale".
31. J. Visser, N. Katsonis, J. Vicario, B. L. Feringa
Two-dimensional molecular patterning by surface-enhanced Zn-porphyrin coordination.
Langmuir **2009**, *25*, 5980-5985.
32. A. Cnossen, D. Pijper, T. Kudernac, M. M. Pollard, N. Katsonis, B. L. Feringa
A trimer of ultrafast nanomotors: synthesis, photochemistry and self-assembly on graphite
Chem. Eur. J. **2009**, *15*, 2768-2772.

33. N. Katsonis, H. Xu, R. M. Haak, T. Kudernac, Z. Tomovic, S. George, M. Van der Auweraer, A. P. H. J. Schenning, E. W. Meijer, B. L. Feringa, S. De Feyter
Emerging solvent-induced homochirality by the confinement of achiral molecules against a solid surface.
Angew. Chem. Int. Ed. **2008**, *47*, 4997-5001.
34. N. Katsonis, E. Lacaze, B. L. Feringa
Molecular chirality at fluid/solid interfaces: expression of asymmetry in self-organized monolayers.
J. Mater. Chem. **2008**, *25*, 5980-5985 (and cover page).
35. A. Bosco, M. G. M Jongejan, R. Eelkema, N. Katsonis, E. Lacaze, A. Ferrarini, B. L. Feringa
Photoinduced Reorganization of Motor-Doped Chiral Liquid Crystals: Bridging Molecular Isomerization and Texture Rotation.
J. Am. Chem. Soc. **2008**, *130*, 14615-14624.
36. N. Katsonis, A. Marchenko, D. Fichou, N. Barrett
The nature of the chemical link between organosilane self-assembled monolayers and Au(111)
Surf. Sci. **2008**, *602*, 9-16.
37. N. Katsonis, A. Minoia, T. Kudernac, T. Mutai, H. Xu, H. Uji-i, R. Lazzaroni, S. De Feyter, B. L. Feringa
Locking of helicity and shape complementarity in diarylethene dimers on graphite
J. Am. Chem. Soc. **2008**, *130*, 386-387.
38. K. Uchida, S. I. Sukata, Y. Matsuzawa, M. Akazawa, J. J. D. de Jong, N. Katsonis, Y. Kojima, S. Nakamura, J. Areephong, A. Meetsma, B. L. Feringa
Photoresponsive rolling and bending of thin crystals of chiral diarylethenes
Chem. Comm. **2008**, 326-328.
39. W. R. Browne, T. Kudernac, N. Katsonis, J. Areephong, J. Hjelm, B. L. Feringa
Electro- and photochemical switching of dithienylethene self-assembled monolayers on gold electrodes.
J. Phys. Chem. C **2008**, *112*, 1183-1190.
40. P. Wesenhagen, J. Areephong, T. F. Landaluce, N. Heureux, N. Katsonis, J. Hjelm, P. Rudolf, W. R. Browne, B. L. Feringa
Photochromism and electrochemistry of a dithienylcyclopentene electroactive polymer.
Langmuir **2008**, *24*, 6334-6342.
41. N. Katsonis, M. Lubomska, M. M. Pollard, P. Rudolf, B. L. Feringa
Synthetic light-activated molecular switches and motors on surfaces.
Prog. Surf. Sci. **2007**, *82*, 407-434.
42. N. Katsonis, J. Vicario, T. Kudernac, J. Visser, M. M. Pollard, B. L. Feringa
Self-organized monolayer of meso-tetradodecylporphyrin coordinated to Au(111)
J. Am. Chem. Soc. **2006**, *128*, 15537-15541.
43. J. Areephong, W. R. Browne, N. Katsonis, B. L. Feringa
Photo- and electro-chromism of diarylethene modified electrodes - towards molecular based read-write-erase information storage
Chem. Commun. **2006**, 3930-3932.
44. R. Eelkema, M. M. Pollard, N. Katsonis, J. Vicario, D. J. Broer, B. L. Feringa
Rotational reorganization of doped cholesteric liquid crystalline films.
J. Am. Chem. Soc. **2006**, *128*, 14397-14407.

45. N. Katsonis, T. Kudernac, M. Walko, S. J. van der Molen, B. J. van Wees, B. L. Feringa
Reversible conductance switching of single diarylethenes on a gold surface.
Nanoscale **2013**, *5*, 9277-9282.
46. R. Eelkema, M. M. Pollard, J. Vicario, N. Katsonis, B. Serrano Ramon, C. W. M. Bastiaansen, D. J. Broer, B. L. Feringa
Rotation of microscopic objects with a light-driven molecular motor.
Nature **2006**, *440*, 163.
Reprinted in a sample issue of *Nature Nanotechnology*. Highlighted during the announcement of the **2016 Nobel Prize in Chemistry**, as contributing to “*the design and synthesis of molecular machines*”.
47. N. Saettel, N. Katsonis, A. Marchenko, M.-P. Teulade-Fichou, D. Fichou
Triazatrinaphthylene, a three-fold symmetry planar conjugated system with two-dimensional self-assembly properties.
J. Mater. Chem. **2005**, *31*, 3175-3180.
48. N. Katsonis, A. Marchenko, D. Fichou
Adsorption and self-assembly of C70 molecules at the Au(111)/n-tetradecane interface
Adv. Mater. **2004**, *16*, 309-312.
49. N. Katsonis, A. Marchenko, D. Fichou
Substrate-induced pairing in 2,3,6,7,10,11-hexakis-undecalkoxy-triphenylene self-assembled monolayers on Au(111).
J. Am. Chem. Soc. **2003**, *125*, 13682-13683.
50. N. Katsonis, A. Marchenko, S. Taillemite, D. Fichou, G. Chouraqui, C. Aubert, M. Malacria
A molecular approach to self-assembly of trimethylsilylacetylene derivatives on gold.
Chem. Eur. J. **2003**, *9*, 2574-2581.
51. A. Marchenko, N. Katsonis, D. Fichou, C. Aubert, M. Malacria
Long-range self-assembly of a polyunsaturated linear organosilane at the n-tetradecane/Au(111) interface studied by STM.
J. Am. Chem. Soc. **2002**, *124*, 9998-9999.
52. P. Changenet-Barret, A. Espagne, N. Katsonis, S. Charier, J. B. Baudin, L. Jullien, P. Plaza, M. M. Martin
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