



Prof. Olle Inganäs
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**Biomolecular and organic electronics,
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Education

- 1989 Docent, Applied Physics, Linköping University
- 1984 Tekn. Dr., Applied Physics, University of Linköping,
Dissertation: "Photoelectrochemistry and electronic properties of some organic solids",
- 1978 Fil.kand. (B.Sc.) in Philosophy, Philosophy of Science, Economics,
Mathematics, Statistics, Physics, University of Gothenburg,
- 1977 Civ.ing. (M.Sc.) in Engineering Physics, Chalmers University of Technology

Major Activities

- 2016 Chairman of the Nobel committee for physics
- 2015 Member of the Scientific Advisory Board of the Knut and Alice Wallenberg Foundation
- 2014 Honorary professor at Jinan University, Guangzhou, China
- 2013-2018 Ordinary member of the Nobel committee for physics
- 2000-1999 Professorship in Biomolecular and Organic Electronics, Linköping University
Invited for professorships at Chalmers University of Technology and Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland; turned down both offers and accepted position at LiU
- 1994-2000 Special scientist position at the Natural Science Research Council (NFR), for studies of ionic transport in solids.
- 1988-1994 Senior lecturer in macromolecular electronics, Linköping university/IFM
- 1985 Post-doc position at Brookhaven National Laboratory, New York, USA
- 1978-1984 Graduate student position at Applied Physics, IFM
- 1977-1978 Employment at the Academy of Engineering Sciences (IVA), Stockholm, doing policy analysis, futures studies and technology assessment.



Honors and Awards

- 1997 The Göran Gustafsson prize in physics
2001 Anointed *Excellent scientist* by Vetenskapsrådet
2010-2015 Wallenberg Scholar 15 Mkr/5 years
2014, 2015 Thomson-Reuter: *Highly Cited Researcher*
Highly Influential Scientific Mind

Research Interests

Soft matter (opto)electronics and electrochemistry, energy conversion and storage, bioelectronic interphases

H. Publications and Patents

> 510 publications, > 28,000 citations, H-index=90: ≈25 patents and patent applications

Publications (Max 15 items)

- (1) Inganäs, O.; Erlandsson, R.; Nylander, C.; Lundström, I. Proton Modification of Conducting Polypyrrole. *Journal of Physics and Chemistry of Solids* **1984**, *45*, 427.
- (2) Inganäs, O.; Salaneck, W. R.; Osterholm, J. E.; Laakso, J. Thermochromic And Solvatochromic Effects In Poly(3-Hexylthiophene). *Synthetic Metals* **1988**, *22*, 395-406.
- (3) Assadi, A.; Svensson, C.; Willander, M.; Inganäs, O. Field-Effect Mobility Of Poly(3-Hexylthiophene). *Applied Physics Letters* **1988**, *53*, 195-197.
- (4) Berggren, M.; Inganäs, O.; Gustafsson, G.; Rasmusson, J.; Andersson, M. R.; Hjertberg, T.; Wennerstrom, O. Light-Emitting-Diodes With Variable Colors From Polymer Blends. *Nature* **1994**, *372*, 444-446.
- (5) Gadisa, A.; Svensson, M.; Andersson, M. R.; Inganäs, O. Correlation between oxidation potential and open-circuit voltage of composite solar cells based on blends of polythiophenes/fullerene derivative. *Applied Physics Letters* **2004**, *84*, 1609-1611.
- (6) Berggren, M.; Gustafsson, G.; Inganäs, O.; Andersson, M. R.; Hjertberg, T.; Wennerstrom, O. White-Light From An Electroluminescent Diode Made From Poly[3(4-Octylphenyl)-2,2'-Bithiophene] And An Oxadiazole Derivative. *Journal Of Applied Physics* **1994**, *76*, 7530-7534.
- (7) Pettersson, L. A. A.; Roman, L. S.; Inganäs, O. Modeling photocurrent action spectra of photovoltaic devices based on organic thin films. *Journal Of Applied Physics* **1999**, *86*, 487-496.
- (8) Ghosh, S.; Inganäs, O. Conducting polymer hydrogels as 3D electrodes: Applications for supercapacitors. *Advanced Materials* **1999**, *11*, 1214-1218.
- (9) Nilsson, K. P. R.; Inganäs, O. Chip and solution detection of DNA hybridization using a luminescent zwitterionic polythiophene derivative. *Nature Materials* **2003**, *2*, 419-U410.
- (10) Hamedi, M.; Forchheimer, R.; Inganäs, O. Towards woven logic from organic electronic fibres. *Nature Materials* **2007**, *6*, 357-362.
- (11) Vandewal, K.; Tvingstedt, K.; Gadisa, A.; Inganäs, O.; Manca, J. V. On the origin of the open-circuit voltage of polymer-fullerene solar cells. *Nature Materials* **2009**, *8*, 904-909.
- (12) Tvingstedt, K.; Vandewal, K.; Gadisa, A.; Zhang, F. L.; Manca, J.; Inganäs, O. Electroluminescence from Charge Transfer States in Polymer Solar Cells. *Journal Of The American Chemical Society* **2009**, *131*, 11819-11824.

- (13) Johansson, P. K.; Julleson, D.; Elfwing, A.; Liin, S. I.; Musumeci, C.; Zeglio, E.; Elinder, F.; Solin, N.; Inganas, O. Electronic polymers in lipid membranes. *Scientific Reports* **2015**, *5*, 11.
- (14) Melianas, A.; Etzold, F.; Savenije, T. J.; Laquai, F.; Inganas, O.; Kemerink, M. Photo-generated carriers lose energy during extraction from polymer-fullerene solar cells. *Nat. Commun.* **2015**, *6*, 8.
- (15) Zeglio, E.; Vagin, M.; Musumeci, C.; Ajjan, F. N.; Gabrielsson, R.; Trinh, X. T.; Son, N. T.; Maziz, A.; Solin, N.; Inganas, O. Conjugated Polyelectrolyte Blends for Electrochromic and Electrochemical Transistor Devices. *Chemistry of Materials* **2015**, *27*, 6385-6393.