

Curriculum vitae

GRANDJEAN Nicolas

French, Swiss, Married, 2 children

Education, diplomas and positions

2010- EPFL, Full Professor in Physics
2004- EPFL, Director - Laboratory of Advanced Semiconductors for Photonics and Electronics
2012-2015 EPFL, Director - Institute of Condensed Matter Physics (ICMP) - School of Basic Sciences
2004-2009 EPFL, Tenure-track Assistant Professor
1994-2003 CNRS (French National Center for Scientific Research) staff member - Senior Scientist
1991-1994 PhD thesis in Physics, Nice Sophia-Antipolis University. Supervisor: Dr. J. Massies

Prizes, awards, fellowships

2000 CNRS grant: “Young Researcher Action”
2004 Beneficiary of the program for academic promotion of the Sandoz Family Foundation (CH)
2009- Appointed Visiting Professor at Strathclyde University (UK)
2010 “Nakamura Lecturer” award from the University of California at Santa Barbara (US)
2015 Best teacher award (General Physics courses) – EPFL
2016 Visiting Professor at University of California at Santa Barbara (6 months)
2017 “Quantum Devices” award – International Symposium on Compound Semiconductors (ISCS)

Current research interests

- Wide bandgap semiconductors (GaN and related compounds)
- Light-matter interaction in nanostructures, microcavities, and photonic crystals
- Short-wavelength optoelectronics devices and high electron mobility transistors for high power electronics

Other activities

2013 Search Committee member, Editor in Chief for Applied Physics Letters
2006- Expert - National Research Agency (France, US, Germany, Canada, Switzerland)
2009 -2015 Scientific Advisor for Saint-Gobain Recherche
2014- Consultant activities in the field of optoelectronic devices
2011-2017 Expert for the Ministry of Education - Singapore
2008-2016 Scientific Advisory Board member – Attolight AG (CH)
2002-2003 Expert for the Observatory of Micro and Nanotechnologies - France
1998- PhD thesis examiner (>30)
1994- Referee for PRL, PRB, APL, JAP, Nature comm., Nature photonics....

Conference Organizing Committee member

1999 European Workshop on Molecular beam epitaxy
2005 European Workshop on Metalorganic Vapour Phase Epitaxy
2011- Forum LED Europe

Conference Program Committee member

2002, 2004 International Conference on Superlattice Nanostructure and Nanodevices
2003 Symposium at MRS Fall Meeting-Boston (Co-Chair)
2005-2007 Physics of Light Matter Coupling in Nanostructures Conference
2006 International Symposium on Growth of III-Nitrides
2007- IEEE Photonic West Conference
2007- European Workshop on Molecular beam epitaxy
2008 7th Int. Symposium on Semiconductor Light Emitting Devices (ISSLED 2008)
2009- Conference on Lasers and Electro Optics (CLEO)
2014 International Workshop on Nitride semiconductors

Conference International Advisory Committee member

2004- International Conference on Molecular Beam Epitaxy (IC-MBE)
2006 European Workshop of III-Nitride Semiconductors and Devices
2006 Int. Symposium on Blue Lasers and Light Emitting Diode (ISBLLED))
2006- International Workshop on Nitride semiconductors (IWN)
2007 3rd International Conference Micro&Nano
2009- International Conference on Nitride Semiconductors (ICNS)
2010- International Symposium on Growth of III-Nitrides (ISGN)

Conference Chair

2006 Co-chair - “Monte Verita” Summer School on Wide-bandgap Semiconductor Quantum Structures
2008 Chair - 5th International Workshop on Nitride semiconductors (IWN2008, 730 attendees)

Scientific information dissemination

2009: Swiss national radio broadcast “Impatience” (Feb. 20th) ; Swiss national television News (19h30 - Feb. 24th)
2012: Article on white LEDs for general public in “Pour la Science”, French popular science magazine
2015: Swiss national television broadcast “A bon entendre”, Swiss national television News “12h15”

Publication records

- 6 chapters in text books, 6 invited papers, 1 Conference proceeding book as Editor
- Guest Editor of J. Phys. Cond. Matter - Cluster issue on “white LEDs” - 2010
- Feature issue in Photonics Research on “Recent developments in LED technology and applications” (with M. Krames) -2017
- 500+ papers in peer-reviewed journals (ISI Web of Science), Impact factor: h = 59 (ISI Web of Science), 66 (Google Scholar)
- 70+ invited talks at international conferences – 8 plenary talks (ICMBE- 2010 (450p), ISGN4-2012 (200 p), CSW-2015 (400p), ICNS11-2015 (850p), ECCG-2015 (150p), ISGN6-2015 (300p), EW-MOVPE 2019 (200 p), ICNS13 2019 (800p))
- 4 patents (exclusive licence to Soitec International (Exagan) for GaN/Si HEMT related patent)