

Pierre-Olivier CHAPUIS

Centre for Energy and Thermal Sciences of Lyon (CETHIL)
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**Main interests: nanoscale thermal management and energy conversion/harvesting
metrology, simulation; materials and devices**

CARREER (main positions)

Since 12/2011

**CNRS permanent research scientist at CETHIL
Theme 'Micro and Nanoscale Heat Transfer' (MiNT)**

*Directeur de recherche
as of 10/2024*

Head of MiNT (5 permanent scientists, >15 members in total) since Jan. 2021
2013-2020: Resp. for Info.&Com.@CETHIL. Since 2016: Member of CETHIL board

2008-2011
01-07/2008
2004-2007

Post-doctoral fellow – Catalan Institute of Nanotechnology (ICN2), Barcelona
Post-doctoral fellow – Ecole Centrale Paris & Paris Institute for NanoSciences
PhD student and Teaching Assistant, EM2C Lab., Ecole Centrale Paris
(now CentraleSupelec)

Current teaching duties

Since 2012

Adjunct Professor at Institut d'Optique (IOGS, Rhône-Alpes)

→ Lecturing on Energy and Heat Transfer

Mentor for students at INSA Lyon, Dpt of Energy Engineering & Environment

DIPLOMA

2021

Habilitation – INSA Lyon

2007

PhD thesis – Ecole Centrale Paris (now CentraleSupelec)

2004

MSc (DEA) in Energy: Physics of Transport Phenomena - Ecole Centrale Paris
Engineer, Major in Applied Physics - Ecole Centrale Paris

SCIENTIFIC OUTPUTS

ISI Web of Knowledge: >70 references, incl. PRL, Nano Lett., Small, SolMat, etc. polivier.chapuis.free.fr
Links to [ORCID](#), [Publons](#) (previously ResearcherID) and [CV.archives-ouvertes](#) publication databases.

>50 invitations in conferences (ICPPP, MRS, E-MRS, IEEE Nano, CECAM, Euro. Conf. Thermoelec., PIERS, CNano, META,...), **scientific schools** (Les Houches, Bad Honnef, Erice, Sitges, ...) and **seminars** (industry-related: IBM Zürich, COMSOL,...; Academia: KITP UCSB, Univ. Barcelona, Univ. Jyväskylä, McGill Univ.,...; research org.: VTT,...).

Current scientific projects:

OPTAGON - An optical approach to next-generation refrigeration, EU H2020 FET, 2021-2025, local PI

TPX-Power - Waste heat recovery through near-field thermophotonics, EU H2020 FET 2021-24, local PI

CASTEX - Cavitation under extreme heat transfer, ANR Condensed Matter, 2022-2025, local PI

Participant to the following projects: **STORE**, ANR Instrumentation, 2022-2025; **EF(F)ICACE**, ANR Nano, 2021-2025; **TREE**, CNRS équipe-projet, 2021-... ; and few others.

SERVICE TO COMMUNITY (main tasks)

Organisation of conferences: Co-chair of occurrences of the two main nanoscale heat transfer conferences: **USA** (biennial): *MRS Spring Meeting–Symposium Nanoscale Heat Transfer, Phoenix 2017 (~200 particip.)*. **Europe** (triennial): *Eurotherm 103 – Nano & Microscale Heat Transfer IV, Lyon 2014 (>100 particip.)*. **Main organizer** of session 'Nanomaterial thermal transport properties & nanothermodynamics', *E-MRS Fall Meeting, Warsaw 2019 (~50 particip.)* and of 'Phonon School 2017: Wave Phenomena and Thermal Transport', *Oléron Island 2017 (60 particip.)*. **Co-chair** of other events (recently: 'IR & thermal radiation control', *MRS Fall 2023, Boston*)

Regular scientific committees: THERMINIC (since 2011, except 2020); Eurotherm Nano & Microscale Heat Transfer (2014-2020); NanoRad (2017-...); Thermophotovoltaics (2021-...)

Editorial board member: Nanoscale and Microscale Thermophysical Engineering (Taylor&Francis). Lead editor for an APL Special Topic issue in 2022-2023 and for an MRS Advances collection in 2017.

Reviewing activities: asked to serve as a referee for manuscripts of > 60 journals, including Rev. Mod. Phys., PRL, Nano Lett., ACS Nano, Nat. Nano.*, Nat. Com., PNAS, etc. **Funding Agencies:** France (ANR, CNRS, etc.), Germany (DFG), USA (DOE), Belgium (FWO), Israel (ISF), Serbia (SSF); ERC (EU). **PhD thesis committees** in France, Spain, Finland, Japan.

*Declined