

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) Head of MiNT (5 permanent scientists, >15 members in general) since Jan. 2021 Head of yearly Science Festival (Fête de la science) at CETHIL 2013-2020: Resp. for Info.&Com.@CETHIL. Since 2016: Member of CETHIL board	<i>Directeur de recherche since 2024</i>
2008-2011	Post-doctoral fellow – Catalan Institute of Nanotechnology (ICN2), Barcelona	
01-07/2008	Post-doctoral fellow – Ecole Centrale Paris & Paris Institute for NanoSciences	
2004-2007	PhD student and Teaching Assistant, EM2C Lab., Ecole Centrale Paris (now CentraleSupélec)	

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 CentraleSupélec)
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, TPV,...), **scientific schools** (Les Houches, Bad Honnef, Erice, Sitges,...) and **seminars** (industry-related: IBM Zürich, COMSOL,...; Academia: KITP UCSB, Univ. Barcelona, Univ. Jyväskylä, McGill Univ., Univ. Bremen,...; research org.: VTT,...).

Examples of topics addressed in scientific projects as PI:

National projects: HeatExpert (nanoparticle thermometry), Demo-NFRTPV (thermophotovoltaics), ...

EU projects: TPX-Power (waste heat harvesting with LEDs), OPTAGON (optical refrigeration), ...

Involvement in research networks: GDR TREE (Thermal Radiation to Electrical Energy), GDR NAME (NAanoMaterials for Energy), nanoscale heat transfer

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 (last: 'IR & thermal radiation control', *MRS Fall 2023, Boston*)

Regular scientific committees: THERMINIC (review); 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. Journals: 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, Netherlands.

*Declined