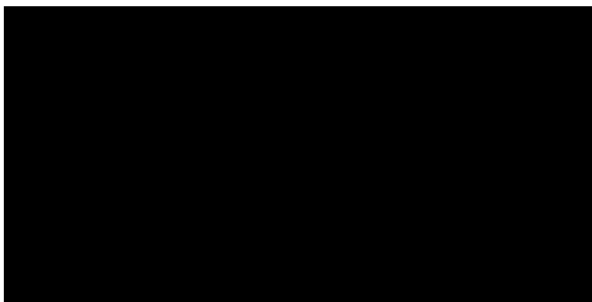
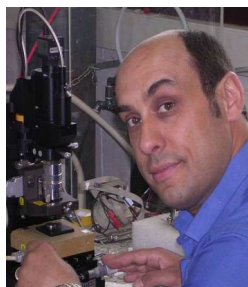


PERSONAL INFORMATION

Giovanni Pennelli



[Select you current working level]

Enterprise	University	EPR
<input type="checkbox"/> Management Level	X Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

2000-2024 Professor

Electronics, Scientific-Disciplinary Sector ING-INF01

University of Pisa, Italy

Teaching, research and development

Business or sector Nanotechnology. Electron device fabrication and characterization: ebeam lithography, thin film deposition, etching; high precision measurement of electrical and thermal transport.

1997-2000

Research Assistant

University of Glasgow, UK

Research and teaching

Business of sector: Molecular Beam Epitaxy growth of advanced 2D materials; electron device fabrication and characterization.

EDUCATION AND TRAINING

1994-1997 Ph.D. in Information and Electronic Engineering

University of Pisa (Italy)

Transport simulation in nanodevices, nanofabrication and characterization

1986-1992 Master degree in Electronics Engineering

University of Pisa (Italy)

PERSONAL SKILLS

Mother tongue **Italian**

Other language(s) **English, excellent spoken and written**
French, basic

ADDITIONAL INFORMATION

Publications (the 10 most recent)

1. D.Prete, E.Dimaggio, V.Demontis, V.Zannier, M.J.Rodriguez-Douton, L.Guazzelli, F.Beltram, L.Sorba, **G.Pennelli**, F.Rossella *Electrostatic Control of the Thermoelectric Figure of Merit in Ion-Gated Nanotransistors* **Advanced Functional Materials**, DOI:10.1002/adfm.202104175 (2021), Cod. Scopus 2-s2.0-85109016569
2. S.Elyamny, E.Dimaggio, S.Magagna, D.Narducci, **G.Pennelli**, *High Power Thermoelectric Generator Based on Vertical Silicon Nanowires*, **Nano Letters** **20** (7), 4748-4753, (2020), Cod. Scopus 2-s2.0-85088208187
3. S.Elyamny, E.Dimaggio, **G.Pennelli**, *Seebeck coefficient of silicon nanowire forests doped by thermal diffusion*, **Beilstein Journal of Nanotechnology** **11**, 1707-1713, (2020), Cod. Scopus 2-s2.0-85101740972
4. S.Magagna, D.Narducci, C.Alfonso, E.Dimaggio, **G.Pennelli**, A.Charai, *On the mechanism ruling the morphology of silicon nanowires obtained by one-pot metal-assisted chemical etching*, **Nanotechnology** **31** (40), 404002, (2020), Cod. Scopus 2-s2.0-85091670127
5. N.Neophytou, V.Vargiamidis, S.Foster, P.Graziosi, L.De Sousa Oliveira, D.Chakraborty, Z. Li, M.Thesberg, H.Kosina, N.Bennett, **G.Pennelli**, D.Narducci, *Hierarchically nanostructured thermoelectric materials: challenges and opportunities for improved power factors*, **European Physical Journal B** **93** (11), 213, (2020), Cod. Scopus 2-s2.0-85096550344
6. G.Calabrese, L.Pimpolari, S.Conti, F.Mavier, S.Majee, R.Worsley, Z.Wang, F.Pieri, G.Basso, **G.Pennelli**, K.Parvez, D.Brooks, M.Macucci, G.Iannaccone, K.S.Novoselov, C.Casiraghi, G.Fiori, *Inkjet-printed graphene Hall mobility measurements and low-frequency noise characterization*, **Nanoscale** **12** (12), 6708-6716, (2020), Cod. Scopus 2-s2.0-85082561144
7. N.Neophytou, S.Foster, V.Vargiamidis, **G.Pennelli**, D.Narducci, *Nanostructured potential well/barrier engineering for realizing unprecedentedly large thermoelectric power factors*, **Materials Today Physics** **11**, 100159, (2019), Cod. Scopus 2-s2.0-85077141547
8. E.Dimaggio, F.Rossella, **G.Pennelli**, *Management of the output electrical power in thermoelectric generators*, **Electronics** **8** (12), 1514, (2019), Cod. Scopus 2-s2.0-85076477663
9. E.Dimaggio, D.Narducci, **G.Pennelli**, *Fabrication of silicon nanowire forests for thermoelectric applications by Metal-Assisted chemical etching*, **Journal of Materials Engineering and Performance** **27** (12), 6279-6285, (2018), Cod. Scopus 2-s2.0-85053894818
10. M. Rocci, V.Demontis, D.Prete, D.Ercolani, L.Sorba, F.Beltram, **G.Pennelli**, S.Roddaro, F.Rossella, *Suspended InAs Nanowire-Based Devices for Thermal Conductivity Measurement Using the 3ω Method*, **Journal of Materials Engineering and Performance** **27** (12), 6299-6305, (2018), Cod. Scopus 2-s2.0-85055982938