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PERSONAL DATA

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ACADEMIC

- Director of the Multi-Scale Modelling Laboratory - SMaLL, www.polito.it/small: 1 RTD-B, 1 RTD-A, 3 post-docs, 2 PhD students, 4 graduate assistants (IT, India, Iran).
- On-going projects: Task Leader of the European projects MODCOMP (H2020), VIMMP¹ (H2020) and COMPOSELECTOR (H2020); Work Package Leader of the European projects EMMC-CSA (H2020), SMARTFAN¹ (H2020) and OYSTER¹ (H2020); Principal Investigator of the national project NANOSTEP (Fondazione CRT).
- Member of the Operational Management Board (OMB) of the European Materials Modelling Council (<http://emmc.info>) and operational team manager (OTM) of the working group on discrete models, including those for nanofluids.
- Member of the Editorial Board of the international journal Heliyon by Elsevier (<http://www.heliyon.com/>) and Computation by MDPI (<http://www.mdpi.com/journal/computation>).
- Member of the International Scientific Committee of the International Conference for Mesoscopic Methods in Engineering and Science (ICMMES, www.icmmes.org).
- Member of the Scientific Steering Committee of the Inter-departmental Laboratory called Clean Water Center @ PoliTO.
- Member of the Scientific Steering Committee of the Laboratory Graphene@POLITO for graphene-based composites with enhanced thermal properties.
- Member of the Faculty Board of the PhD in Energetics.
- Deputy Coordinator of the Degree Programme ("Corso di Studio - CdS") in Mechanical Engineering.
- Responsible for the courses of Advanced Engineering Thermodynamics (250+ new students per year), for both English and Italian programmes in Mechanical Engineering, and of the course of Energy Applications of Materials for programme in Energy Engineering.

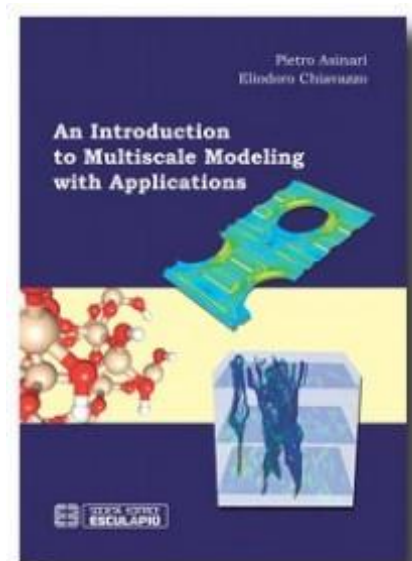
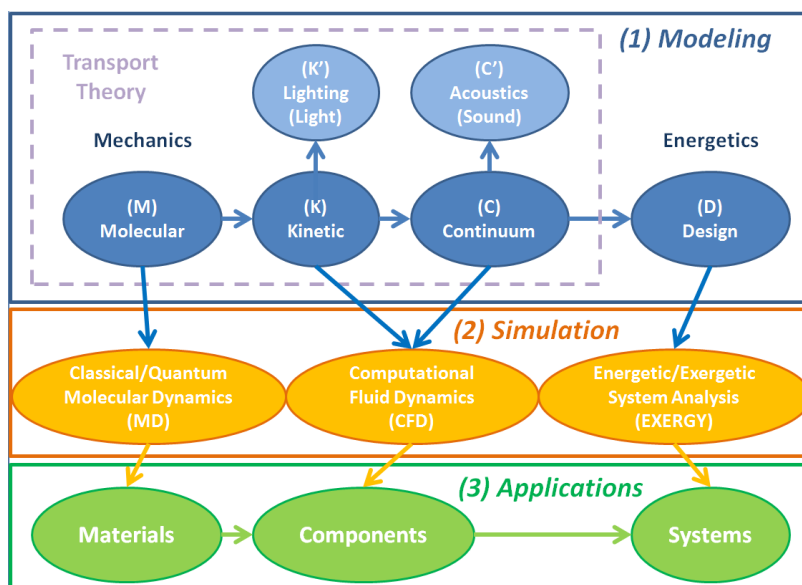
¹ Just granted, under negotiation.

SCIENTIFIC ACTIVITY

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4. Fasano, M., Humplik, T., Bevilacqua, A., Tsapatsis, M., Chiavazzo, E., Wang, E.N., **Asinari, P.**, Interplay between hydrophilicity and surface barriers on water transport in zeolite membranes (2016), *Nature Communications* 7, art. 12762 (in collaboration with Massachusetts Institute of Technology – MIT – and University of Minnesota).
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9. Ventola, L., Dialameh, M., Fasano, M., Chiavazzo, E., **Asinari, P.**, Convective heat transfer enhancement by diamond shaped micro-protruded patterns for heat sinks: Thermal fluid dynamic investigation and novel optimization methodology (2016), *Applied Thermal Engineering*, 93, pp. 1254-1263.
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12. Ciuffini, A., Scattina, A., Carena, F., Roberti, M., Toscano Rivalta, G., Chiavazzo, E., Fasano, M., **Asinari, P.**, Multi-scale computational fluid dynamics methodology for predicting thermal performance of compact heat exchangers (2016), *Journal Of Heat Transfer*, 138:7, pp. 071801-071811.
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