



Internal Combustion Engine Performance 2024

Guest Editor:

Dr. Georgios Mavropoulos

Department of Mechanical
Engineering Educators, School of
Pedagogical and Technological
Education (ASPETE), 14121
Heraklion, Greece

Message from the Guest Editor

In this context, the 2024 issue of “Internal Combustion Engine Performance” aims to gather further innovative research and offer important developments for the field of the internal combustion engine.

More specifically, topics of interest for the Special Issue include (but are not limited to):

- Combustion mechanisms in spark and compression ignition engines;
- Fuel injection and spray formation;
- Pollutants formation (particulate matter, NO_x, CO, HC, noise);
- Exhaust after-treatment systems (three-way catalysts, oxidation catalysts, diesel and gasoline particulate filters, SCR, NO_x adsorbers);
- Internal measures for emission control (EGR, water injection, etc.);
- Exhaust heat Recuperation Systems (Rankine cycle, turbocompound etc.);
- Engine downsizing;
- Effects on engine structure and design due to increased performance demands;
- Special problems associated with large-scale two-stroke engines performance and emission reduction;
- Alternative fuels’ and biofuels’ effects on engine performance and emissions (ethanol, butanol, biodiesel, etc.);
- Recent advances in internal combustion engines experimentation;
- Novel combustion systems (C₁, P₁, C₂, H₂, CO₂).

Deadline for manuscript
submissions:

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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
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