

HYDROGEN IN MOBILITY

Industry and research initiatives are focusing on the use of Hydrogen as a credible energy source in mobility engineering. SAE International, the world's leading source of mobility information products, has 500+ Hydrogen-related resources available for the engineering professional.

Technical Papers: 424

Books: 31

EDGE Research Reports: 3

Journal Articles: 71

Standards: 27

Research Reports:

EOR2021004 – Unsettled Issues in Electrical Demand for Automotive Electrification Pathways

Technical Papers:

2022-01-0682 – Consistent Optimization and Durability Test of 41kW Fuel Cell Engine Based on Temperature Control Strategy

2022-01-0576 – Performance and Activity Characteristics of Zero Emission Battery-Electric Cargo Handling Equipment at a Port Terminal

2021-01-0744 – Techno-Economic Modelling of Sustainable-Hydrogen Filling of Fuel Cell Cars

Journal Articles:

03-15-04-0030 – Synergetic Application of Zero-, One-, and Three-Dimensional Computational Fluid Dynamics Approaches for Hydrogen-Fueled Spark Ignition Engine Simulation

Books:

R-501 – Racing Toward Zero: The Untold Story of Driving Green

R-494 – Advanced Hybrid Powertrains for Commercial Vehicles, 2E

Ground Vehicle Standards:

J2601_202005 – Fueling Protocols for Light Duty Gaseous Hydrogen Surface Vehicle

Aerospace Standards:

AIR6464/ED-219 – Aircraft Fuel Cell Safety Guidelines - Issued in 2013

AS6858/ED-245 – Installation of Fuel Cell Systems on Large Civil Aircraft - Issued in 2017

AIR7765/ER-020 – Considerations for Hydrogen Fuel Cells in Airborne Applications - Issued in 2019

AS6679/EDXXX – Liquid Hydrogen Storage for Aviation - Work in Progress started in 2019

AS7373/EDXXX – Gaseous Hydrogen Storage for General Aviation - Work in Progress started in 2021

Professional Development:

C2015 – Electrochemical Energy Systems for Electrified Aircraft Propulsion: Batteries and Fuel Cell Systems

C1234 – Fundamentals of Hybrid Electric Vehicles and Related Technologies

C1868 – Fuel Cells for Transportation

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