



Newly-added

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The following is a summary of all publications added to the SAE Mobilus technical resource platform in June 2022. Click below and the SAE Mobilus search results for the content type selected will populate.

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Webinar Series

July 20, 2022 | 11 a.m. EDT

Meet the Editor-in-Chief: Dr. Yung-Li Lee, SAE International Journal of Materials and Manufacturing

Log in for a **LIVE** interview to learn more about:

- How the Materials and Manufacturing Journal crosses the Aerospace, Ground Vehicle and Commercial Vehicle Vectors
- Cutting-Edge Technologies featured in the 2022 articles
- Learn more about upcoming special issues

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We want to hear from you! Let us know what topics, types of speakers, and industries you'd like to see a focus on for next year – [CLICK HERE](#)

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Ongoing Learning Opportunities

SAE Mobilus Spotlight

Join us for a customized SAE Mobilus training session hosted by SAE Onboarding & Implementation Specialist, Wendy Ogletree-Robinson on **July 26, 2022 at 11:00 a.m. EDT**.

LEARN:

- The Benefits of the SAE Mobilus Dashboard
- How to Access it
- Leverage the Platform Features
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Aerospace Standards & Aerospace Material Specifications

[NEW 2022 Aerospace Standards Industry Newsletter](#)

- AMS 2750 – [Pyrometry](#)
- AMS4133F – [Aluminum Alloy Forgings and Rolled Rings 4.4Cu - 0.85Si - 0.80Mn - 0.50Mg \(2014-T6\) Solution and Precipitation Heat Treated](#)
- ARP1842 – [Surface Preparation for Structural Adhesive Bonding Aluminum Alloy and Low Alloy Steel Parts](#)
- ARP1843A – [Surface Preparation for Structural Adhesive Bonding Titanium Alloy Parts](#)
- AS9967B – [O-Ring Molded from AMS7273 Fluorosilicone \(FVMQ\) Rubber Material](#)

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Ground Vehicle Standards

[NEW 2022 Ground Vehicle Standards Industry Newsletter](#)

- J441_202206 – [Cut Wire Shot by the Surface Enhancement Committee](#)
- J2698_202206 – [Primary Single Phase Nominal 120 VAC Wiring Distribution Assembly Design—Truck and Bus](#)
- USCAR2-8 – [Performance Specification for Automotive Electrical Connector Systems](#)
- J514/3_202206 – [Metallic Connections for Fluid Power and General Use - Part 3: NPTF Pipe Adapters and NPSM Adapter Unions](#)

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Technical Papers

- [An In-Depth Study on the Customer Perception of the Noise Emitted by Electric Vehicles](#)
- [An Experimental Study on Factors That Influence Encapsulation Efficiency](#)
- [Aero-Acoustic Source Terms from Large-Eddy Simulation in Turbulent Pipe Flow](#)

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[SAE MobilityRxiv®](#)

This **free online archive and sharing service** provides English-language preprints in the mobility/transportation field, including ground vehicles, commercial vehicles, and aerospace and aviation.

- [Impact of Positioning Uncertainty on Connected and Automated Vehicle Applications](#)

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Journal Articles

- [Development and Optimization of Formation Flying for Unmanned Aerial Vehicles Using Particle Swarm Optimization Based on Reciprocal Velocity Obstacles](#)
- [Multi-objective Methodology for Design and Environmental Analysis in the Automotive Field](#)

2022 Top Downloaded Journal Articles

- [Review of Vehicle Engine Efficiency and Emission](#)
- [Euro VII and Beyond with Hydrogen Combustion for Commercial Vehicle Applications: From Concept to Series Development](#)
- [A Data-Driven Greenhouse Gas Emission Rate Analysis for Vehicle Comparisons](#)
- [Universal Electric Vehicle Thermal Management System](#)
- [An Experimental Study of Turbocharged Hydrogen Fuelled Internal Combustion Engine](#)

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EDGE Research Reports

Emerging Technologies in New Mobility

- [Impact of Quantum Computing in Aerospace](#)
- [Design of the In-vehicle Experience](#)

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Professional Development

[Additive Manufacturing Bundle PD281743](#)

The one-hour courses in this bundle explain the fundamental concepts of additive manufacturing, including the main principles behind AM and the safety precautions to take during the process.

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Book Spotlight



[NEW from SAE Books](#)

In this book, Alessandro Ferrari and Pietro Pizzo provide a full review of spark-ignited engine fuel injection systems. The most popular typologies of fuel injection systems are considered, with special focus on state-of-the-art solutions.

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Events

[Transform the Future of Innovation](#)

COMVEC 2022 Returns to Indianapolis | September 20-22, 2022

Connect with engineering professionals to network, hear keynotes and participate in panel discussions on the most important topics impacting the industry.

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Here are the latest happenings and benefits:

- Learn about the new [SAE Connexion+](#) community launching August 1. This site will provide opportunities for networking, technical discussions, and SAE volunteer openings all in one place.
- Join virtual activities in the new [Connexion+](#) like Chats with the Expert on DEI and leadership, mentor mixers, and more.

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