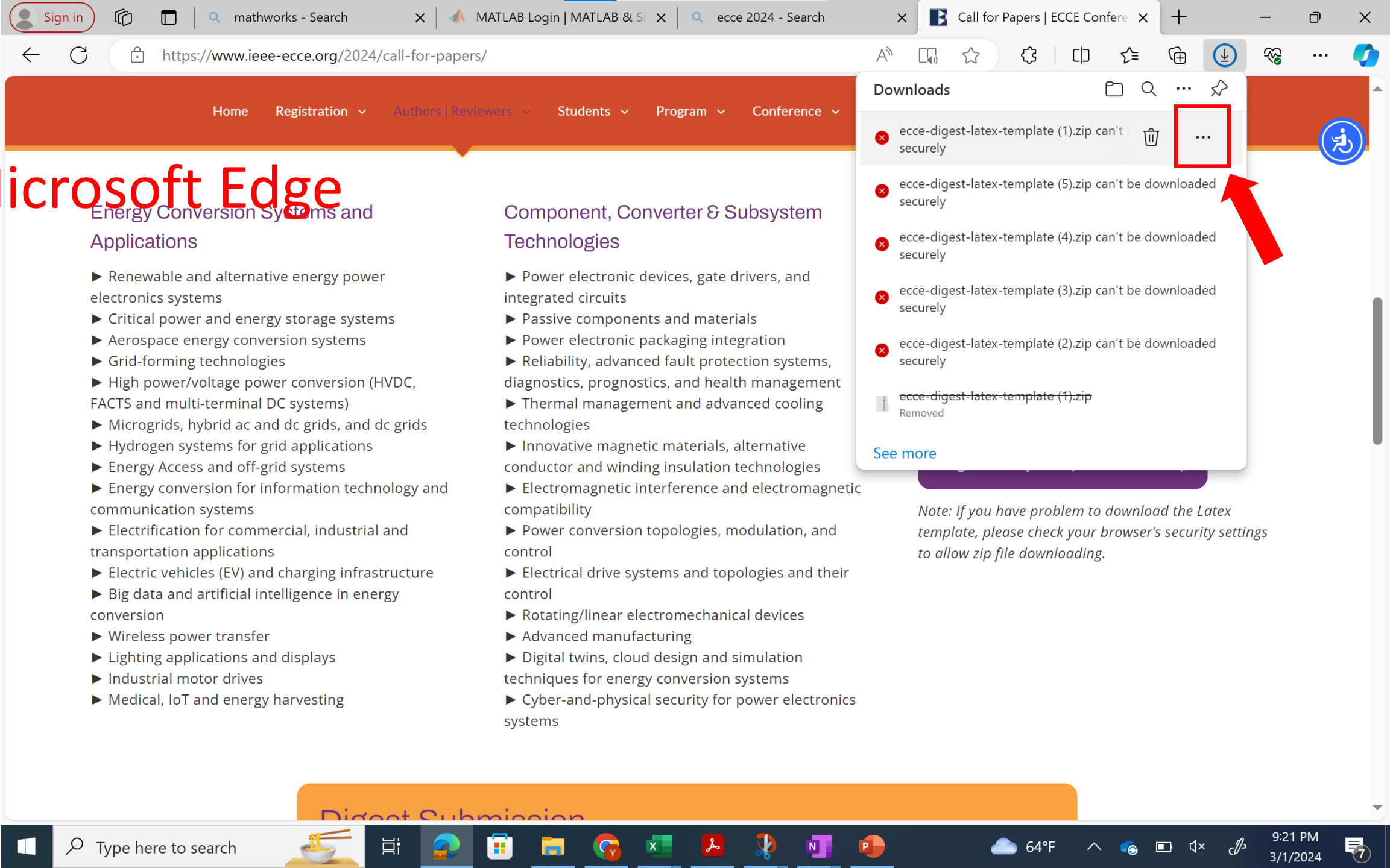


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Energy Conversion Systems and Applications

- ▶ Renewable and alternative energy power electronics systems
- ▶ Critical power and energy storage systems
- ▶ Aerospace energy conversion systems
- ▶ Grid-forming technologies
- ▶ High power/voltage power conversion (HVDC, FACTS and multi-terminal DC systems)
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- ▶ Electric vehicles (EV) and charging infrastructure
- ▶ Big data and artificial intelligence in energy conversion
- ▶ Wireless power transfer
- ▶ Lighting applications and displays
- ▶ Industrial motor drives
- ▶ Medical, IoT and energy harvesting

Component, Converter & Subsystem Technologies

- ▶ Power electronic devices, gate drivers, and integrated circuits
- ▶ Passive components and materials
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- ▶ Rotating/linear electromechanical devices
- ▶ Advanced manufacturing
- ▶ Digital twins, cloud design and simulation techniques for energy conversion systems
- ▶ Cyber-and-physical security for power electronics systems

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