



Conference Tools for Materials Science & Technology 2020

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Session Sheets

▼ 12th International Symposium on Green and Sustainable Technologies for Materials Manuf

Mon 11/02/2020 08:00 AM [Sustainable Manufacturing of Ceramics I](#)
 Mon 11/02/2020 02:00 PM [Sustainable Materials from Agriculture based Precursors](#)
 Tue 11/03/2020 02:00 PM [Sustainable Manufacturing of Ceramics II](#)
 Tue 11/03/2020 04:45 PM [Poster Session](#)
 Wed 11/04/2020 08:00 AM [Sustainable Manufacturing from Metal and Ceramics based Precursor Materials](#)

▼ 2020 Undergraduate Student Poster Contest

Tue 11/03/2020 12:00 PM [2020 Undergraduate Student Poster Contest](#)

▼ ACerS-ECerS Joint Symposium - Emerging Ceramic Technologies; Challenges and Future

Mon 11/02/2020 08:00 AM [Emerging Ceramic Technologies I](#)
 Mon 11/02/2020 02:00 PM [Emerging Ceramic Technologies II](#)

▼ ACerS Frontiers of Science and Society - Rustum Roy Lecture

Tue 11/03/2020 01:00 PM [ACerS Frontiers of Science and Society - Rustum Roy Lecture](#)

▼ ACerS Richard M. Fulrath Award Session

Mon 11/02/2020 02:00 PM [ACerS Richard M. Fulrath Award Session](#)

▼ ACerS/EPDC: Arthur L. Friedberg Ceramic Engineering Tutorial and Lecture

Mon 11/02/2020 09:00 AM [ACerS/EPDC: Arthur L. Friedberg Ceramic Engineering Tutorial and Lecture](#)

▼ Additive Manufacturing Modeling and Simulation: AM Materials, Processes, and Mechanic

Mon 11/02/2020 08:00 AM [Additive Manufacturing Modeling and Simulation - Microstructure Evolution](#)
 Mon 11/02/2020 02:00 PM [Additive Manufacturing Modeling and Simulation - Residual Stress, Fatigue Property, an](#)
 Tue 11/03/2020 02:00 PM [Additive Manufacturing Modeling and Simulation - Machine Learning, Design and Optimi](#)
 Tue 11/03/2020 04:45 PM [Poster Session](#)
 Wed 11/04/2020 08:00 AM [Additive Manufacturing Modeling and Simulation - Online Process Monitoring, Non-mech](#)

▼ Additive Manufacturing of Ceramic-based Materials: Process Development, Materials, Proc

Mon 11/02/2020 08:00 AM [Additive Manufacturing of Ceramic-based Materials Process Development, Materials, Proc](#)
 Mon 11/02/2020 02:00 PM [Additive Manufacturing of Ceramic-based Materials: Process Development, Materials, Pr](#)
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▼ Additive Manufacturing of Ceramics and Ceramic Composites: Materials Properties, Proce

Wed 11/04/2020 08:00 AM [Additive Manufacturing of Ceramics and Ceramic Composites: Materials Properties, Proc](#)

▼ Additive Manufacturing of Metals: Complex Microstructures and Architecture Design

Tue 11/03/2020 02:00 PM [Microstructure and Mechanics in Metal AM](#)
 Wed 11/04/2020 08:00 AM [Microstructure Evolution and Control](#)
 Wed 11/04/2020 02:00 PM [Microstructure Evolution in Structural Metals](#)
 Thu 11/05/2020 08:00 AM [Microstructure Characterization and Novel Materials](#)

▼ Additive Manufacturing: Alloy Design to Develop New Feedstock Materials

Wed 11/04/2020 08:00 AM [Session I](#)
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▼ Additive Manufacturing: Equipment, Instrumentation and Measurement

Mon 11/02/2020 08:00 AM [Session I](#)
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▼ Additive Manufacturing: Materials, Alloy Development, Microstructure and Properties

Mon 11/02/2020 08:00 AM [Additive Manufacturing of Metallic Materials \(Cu, Co, Mo, and Ni\)](#)
 Mon 11/02/2020 02:00 PM [Additive Manufacturing Process Control and Optimization](#)
 Tue 11/03/2020 02:00 PM [Additive Manufacturing of 316L](#)
 Wed 11/04/2020 08:00 AM [Additive Manufacturing of Al- and Ti-based Alloys](#)
 Wed 11/04/2020 02:00 PM [Additive Manufacturing of Fe-based Alloys](#)
 Thu 11/05/2020 08:00 AM [Additive Manufacturing of Ni-based Alloys](#)
 Thu 11/05/2020 08:00 AM [Additive Manufacturing of Other Miscellaneous Materials](#)

▼ Additive Manufacturing: Mechanical Behavior of Lattice Structures Produced via AM

- Mon 11/02/2020 08:00 AM [Additive Manufacturing of Lattices - Session I](#)
 Mon 11/02/2020 02:00 PM [Additive Manufacturing of Lattices - Session II](#)
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▼ Additive Manufacturing: Microstructure and Material Properties of Titanium-based Mater

- Wed 11/04/2020 08:00 AM [Titanium Alloy Microstructure and Properties](#)
 Wed 11/04/2020 02:00 PM [Modeling and Properties](#)

▼ Additive Manufacturing: Qualification and Certification

- Mon 11/02/2020 08:00 AM [Approaches and Challenges](#)
 Mon 11/02/2020 02:00 PM [Microstructure and Properties](#)
 Tue 11/03/2020 02:00 PM [Process and Control](#)
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▼ Advanced Characterization of Materials for Nuclear, Radiation, and Extreme Environment

- Mon 11/02/2020 02:00 PM [Novel Techniques](#)
 Tue 11/03/2020 02:00 PM [Fusion Materials & In-Situ Ion Irradiation](#)
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▼ Advanced Coatings for Wear and Corrosion Protection

- Tue 11/03/2020 10:00 AM [Poster Session](#)
 Wed 11/04/2020 08:00 AM [Advanced Coatings for Wear and Corrosion Protection I](#)

▼ Advanced Manufacturing, Processing, Characterization and Modeling of Functional Materi

- Wed 11/04/2020 08:00 AM [Advanced Manufacturing, Processing, Characterization and Modeling of Functional Mate](#)
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▼ Advanced Materials for Harsh Environments

- Mon 11/02/2020 02:00 PM [Session I](#)
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▼ Advanced Steel Metallurgy

- Mon 11/02/2020 02:00 PM [Plate, Pipe & Tube](#)
 Tue 11/03/2020 09:00 AM [Poster Session](#)
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 Wed 11/04/2020 08:00 AM [Characterization](#)
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▼ Advances in Dielectric Materials and Electronic Devices

- Tue 11/03/2020 09:00 AM [Poster Session](#)
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▼ Advances in Surface Engineering

- Wed 11/04/2020 02:00 PM [Session I](#)

▼ Advances in Synthesis and Integration Methods for Enhanced Properties, and Applications

- Mon 11/02/2020 08:00 AM [2D Materials Synthesis and Device Integration](#)
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▼ Advances in Zinc-coated Sheet Steel Processing and Properties

- Tue 11/03/2020 02:00 PM [Advances in Zinc-coated Sheet Steel Processing and Properties](#)

▼ AI for Big Data Problems in Imaging, Modeling and Synthesis

- Wed 11/04/2020 08:00 AM [AI-accelerated Materials Discovery and Synthesis](#)
 Wed 11/04/2020 02:00 PM [AI-enabled Materials Characterization](#)

▼ Applications of Modern Characterization Techniques to Ferrous Alloys and Steel Products

- Mon 11/02/2020 02:00 PM [Applications of Modern Characterization Techniques to Ferrous Alloys and Steel Product](#)

▼ Art and Cultural Heritage: Discoveries and Education

- Wed 11/04/2020 02:00 PM [Art and Cultural Heritage: Discoveries and Education](#)

▼ Artificial Intelligence for Materials Design and Process Optimization

- Mon 11/02/2020 08:00 AM [AI for Materials Design and Process Optimization](#)

▼ Broadening Participation in the Materials Science and Engineering Profession

- Wed 11/04/2020 11:00 AM [Session I](#)

▼ BSD/PCSA: Humanitarian Engineering Symposium

Mon 11/02/2020 02:00 PM [Humanitarian Engineering](#)

▼ Bulk and Sheet Thermal-Deformation Processing and Microstructure Development in Meta

Mon 11/02/2020 02:00 PM [Session I](#)

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▼ Ceramic and Crystal Materials for Optics and Photonics

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▼ Ceramic Matrix Composites

Mon 11/02/2020 08:00 AM [CMC I](#)

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▼ Ceramics and Glasses Simulations and Machine Learning

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▼ Ceramics in the Nuclear Fuel Cycle

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▼ Coating and Thin Film Materials for Energy, Aerospace, Environment and Biological Appli

Tue 11/03/2020 10:00 AM [Poster Session](#)

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▼ Coatings to Protect Materials from Extreme Environments

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▼ Computation Assisted Materials Development for Improved Corrosion Resistance

Mon 11/02/2020 08:00 AM [Residual Lifetime Assessment and Multiscale Modeling Methods](#)

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▼ Controlled Synthesis, Processing, and Applications of Structural and Functional Nanomater

Mon 11/02/2020 08:00 AM [Development of Nanomaterials and Nanostructures](#)

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▼ Curricular Innovations and Continuous Improvement of Academic Programs (and Satisfyr

Mon 11/02/2020 08:00 AM [Judson Symposium I](#)

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▼ Emergent Materials under Extremes and Decisive In Situ Characterizations

Wed 11/04/2020 08:00 AM [Pressure-induced dramatic changes in structures and properties](#)

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▼ Engineered Phase Transformations

Mon 11/02/2020 08:00 AM [Engineered Phase Transformations](#)

▼ Engineering Ceramics: Microstructures, Properties, and Applications

Mon 11/02/2020 08:00 AM [Microstructure and Properties of Engineering Ceramics](#)

▼ Environmentally Assisted Cracking: Theory and Practice

Mon 11/02/2020 08:00 AM [Environment Assisted Cracking](#)

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▼ Functional Defects in Electroceramic Materials

Mon 11/02/2020 08:00 AM [Defect Engineering in Functional Ceramics](#)

Mon 11/02/2020 02:00 PM [Defect Design for Energy Storage Materials](#)

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▼ Glasses, Optical Materials, and their Functional Applications: Current Issues in Science & T

Mon 11/02/2020 08:00 AM [Structure, Dynamics and Surface Reactivity of Glass Materials](#)

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▼ Grain Boundaries, Interfaces, and Surfaces in Functional Materials: Fundamental Structur

Tue 11/03/2020 10:00 AM [Poster Session](#)

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▼ **High Entropy Materials: Concentrated Solid Solution, Intermetallics, Ceramics, Functional**

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▼ **High Temperature Corrosion and Degradation of Structural Materials**

Mon 11/02/2020 08:00 AM [CO₂-rich Environments/Nuclear Reactor Environments](#)

Mon 11/02/2020 02:00 PM [Effects of Water Vapor/Ni-based Alloys and High Temperature Effects](#)

Tue 11/03/2020 02:00 PM [Refractory Metal Alloys/Modeling and Theory](#)

▼ **Innovations in Refractory Ceramic Technology for Iron and Steel Applications**

Mon 11/02/2020 02:00 PM [Innovations in Refractory Ceramic Technology for Iron and Steel Applications](#)

▼ **Integration between Modeling and Experiments for Crystalline Metals: From Atomistic to M**

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▼ **Interfaces and Phase Transformations**

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Tue 11/03/2020 02:00 PM [Interfaces and Phase Transformation I](#)

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▼ **Joining and Integration of Advanced and Specialty Materials**

Mon 11/02/2020 08:00 AM [Joining and Integration of Advanced and Specialty Materials](#)

▼ **Journal of the American Ceramic Society Awards Symposium**

Wed 11/04/2020 10:20 AM [Journal of the American Ceramic Society Awards Symposium Session I](#)

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▼ **Late News Poster Session**

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Tue 11/03/2020 09:00 AM [Ceramic and Glass Materials](#)

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▼ **Light Metal and Composites Technology**

Mon 11/02/2020 08:00 AM [Composites I: Microstructure and Mechanical Properties](#)

Mon 11/02/2020 02:00 PM [Composites II: Development in Light Weight Alloys](#)

▼ **Low Density Advanced Composite Materials**

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▼ **Machine Learning for Discovery of Structure-Process-Property Relations in Electronic Mat**

Mon 11/02/2020 08:00 AM [Machine Learning in Materials Engineering I](#)

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▼ **Manufacturing and Processing of Advanced Ceramic Materials**

Tue 11/03/2020 02:00 PM [New Opportunities in Ceramic Processing I](#)

Wed 11/04/2020 08:00 AM [New Opportunities in Ceramic Processing II](#)

Wed 11/04/2020 02:00 PM [Processing of Oxide Ceramics](#)

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▼ **Materials Design through AI Composition and Process Optimization**

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▼ **Materials Informatics and Modeling for 21st Century Ceramics Research**

Tue 11/03/2020 02:00 PM [Machine Learning for Materials Microstructure and Property Predictions](#)

▼ **Materials Informatics for Images and Multi-dimensional Datasets**

Mon 11/02/2020 02:00 PM [Session I](#)

Tue 11/03/2020 10:00 AM [Poster Session](#)

Wed 11/04/2020 08:00 AM [Joint Session: "Materials Informatics for Images and Multi-dimensional Datasets" and "](#)

▼ **Materials vs Minerals: Bridging the Gap between Materials Science and Earth and Planetary**

Mon 11/02/2020 08:00 AM [Session I](#)

▼ **Metallurgy and Magnetism**

Wed 11/04/2020 02:00 PM [Metallurgy and Magnetism I](#)

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▼ **Micro- and Nano-Mechanical Behavior of Materials**

Mon 11/02/2020 08:00 AM [Micro/Nano-Mechanics I](#)

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Tue 11/03/2020 10:00 AM [Poster Session](#)

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▼ **Microstructure and Physical Property Optimization in High Entropy Alloys**

Mon 11/02/2020 08:00 AM [Microstructure and Physical Property Optimization in High Entropy Alloys](#)

Tue 11/03/2020 10:00 AM [Poster Session](#)

▼ **MS&T Student Events**

Mon 11/02/2020 12:00 PM [PCSA Humanitarian Pitch Competition](#)

Mon 11/02/2020 02:00 PM [ACerS Student Tour](#)

Tue 11/03/2020 03:00 PM [Young Professional Session](#)

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Wed 11/04/2020 03:00 PM [Ceramic Mug Drop and Disc Golf Contests](#)

Thu 11/05/2020 01:00 PM [MA Speaking Contest Finals](#)

▼ **MS&T20 Plenary Session**

Mon 11/02/2020 11:00 AM [AIST Adolf Martens Memorial Steel Lecture](#)

Tue 11/03/2020 11:00 AM [ACerS Edward Orton, Jr. Memorial Lecture](#)

Thu 11/05/2020 11:00 AM [TMS/ASM Distinguished Lectureship in Materials and Society](#)

▼ **Multi-material Additive Manufacturing: Processing and Heterogeneous Materials Design**

Wed 11/04/2020 08:00 AM [Innovative AM Approaches for Multi-functions](#)

Wed 11/04/2020 02:00 PM [AM of Functionally Graded & Dissimilar Materials](#)

Thu 11/05/2020 08:00 AM [Recent Progress in Multi-Material AM](#)

▼ **Multiscale Modeling of Microstructure Deformation in Material Processing**

Tue 11/03/2020 09:00 AM [Poster Session](#)

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▼ **Nanotechnology for Energy, Environment, Electronics, Healthcare and Industry**

Wed 11/04/2020 08:00 AM [Nanotechnology for Energy, Environment, Electronics, Healthcare and Industry - Session I](#)

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Thu 11/05/2020 08:00 AM [Nanotechnology for Energy, Environment, Electronics, Healthcare and Industry - Session III](#)

▼ **Naval/Maritime Applications of Additively Manufactured Parts: Design and Experimental Validation**

Tue 11/03/2020 02:00 PM [Naval/Maritime Applications of Additively Manufactured Parts: Design and Experimental Validation](#)

▼ **Next Generation Biomaterials**

Mon 11/02/2020 08:00 AM [Next Generation Biomaterials I](#)

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▼ **Phase Transformations in Additively Manufactured Materials**

Mon 11/02/2020 08:00 AM [Additive Manufacturing - Phase Transformations - In-situ and Ex-situ Experimental Work](#)

Mon 11/02/2020 02:00 PM [Additive Manufacturing - Phase Transformations - Modelling](#)

▼ **Powder Metallurgy of Light, Reactive and Other Non-ferrous Metals**

Mon 11/02/2020 02:00 PM [Session I](#)

▼ **Probabilistic Life Prediction of Materials in Aging Systems**

Tue 11/03/2020 02:00 PM [Probabilistic Life Prediction of Materials in Aging Systems](#)

▼ **Processing and Performance of Materials Using Microwaves, Electric and Magnetic Fields, and Ultrasound**

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▼ **Sintering and Related Powder Processing Science and Technologies**

Mon 11/02/2020 08:00 AM [Field Assisted Sintering and Other Novel Methods](#)

Mon 11/02/2020 02:00 PM [Modelling and Processing-related Topics](#)

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▼ **Solid State Processing of Metals and Composites**

Wed 11/04/2020 02:00 PM [Session I](#)

▼ **Substrate Protection for Corrosion Prevention**

Mon 11/02/2020 08:00 AM [Substrate Protection for Corrosion Prevention I](#)

Mon 11/02/2020 02:00 PM [Substrate Protection for Corrosion Prevention II](#)

▼ **Surface Treatments and Properties of Titanium and Titanium Alloys: A Forum on New Stræ**

Wed 11/04/2020 08:00 AM [Surface Treatments and Properties of Titanium and Titanium Alloys](#)

▼ **Synthesis, Characterization and Application of 3D Graphene**

Wed 11/04/2020 08:00 AM [Session I](#)

▼ **Synthesis, Characterization, Modeling and Applications of Functional Porous Materials**

Mon 11/02/2020 08:00 AM [Functional Porous Materials I](#)

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Tue 11/03/2020 02:00 PM [Functional Porous Materials III](#)

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▼ **The Materials Genome Initiative and Materials R&D in the 2020s**

Fri 11/06/2020 10:30 AM [The Materials Genome Initiative and Materials R&D in the 2020s](#)

▼ **Thermodynamic Properties, Structure and Phase Stabilities of Special Alloys**

Mon 11/02/2020 08:00 AM [Thermodynamic Properties, Structure and Phase Stabilities of Special Alloys](#)

Tue 11/03/2020 10:00 AM [Poster Session](#)

▼ **Thermodynamics of Materials in Extreme Environments**

Tue 11/03/2020 02:00 PM [Thermodynamic Studies of Nuclear Materials](#)

Wed 11/04/2020 08:00 AM [Thermodynamics, Stability, and Reactivity of Materials under Extreme Conditions](#)

Wed 11/04/2020 02:00 PM [Thermodynamics and Stability of Materials for Fuel Cells and Other Energy Applications](#)

Thu 11/05/2020 08:00 AM [Thermodynamics at the Nanoscale and Interfaces](#)

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