



CONGRESS PROGRAM

ENEFM 2026

INTERPHOTONICS 2026

ENEFM 2026
12th INTERNATIONAL CONGRESS ON ENERGY EFFICIENCY AND
ENERGY RELATED MATERIALS
July 14-16, 2026

INTERPHOTONICS 2026
8th INTERNATIONAL CONFERENCE ON PHOTONICS RESEARCH
July 14-16, 2026

The Twin Towers Hotel-Bangkok, THAILAND

PROGRAM TUESDAY, JULY 14, 2026	
ENEFM & INTERPHOTONICS	
HALL 1	
PLENARY SESSION 10:15-11:00	<p>Chairperson: Ersin Kayahan</p> <p style="text-align: center;">Safi Jradi University of Technology of Troyes, France</p> <p style="text-align: center;">“ID811- Plasmon-Assisted Nanochemistry: From Energy Localization to Integrated Photonic Devices”</p>
11:00-11:30	COFFEE BREAK
PLENARY SESSION 11:30-12:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">John Bell University of Southern Queensland, Australia</p> <p style="text-align: center;">“ID669- Building the future energy system”</p>
12:30-14:00	LUNCH
PARALLEL SESSIONS 14:00-15:10	<p style="text-align: center;">ENEFM & INTERPHOTONICS HALL 1</p> <p>Chairperson: A.Yavuz Oral</p> <p>14:00-14:30 Yoshiyuki Uruma NIT(KOSEN), Yonago College, Japan <i>(invited speaker)</i></p>

	<p>ID790- Development and Evaluation of Photosensitizer-Loaded Polymeric Micelles for Targeted Photodynamic Therapy</p> <p>14:30-14:50 Nathan Heo Kongju National University, Department of Mechanical Engineering, Korea, Republic Of</p> <p>ID692- Enhancing Mechanical Stability of Nanoporous Pt/C Electrodes via Controlled Thermal Annealing</p> <p>14:50-15:10 Pranuda Jivaganont National Energy Technology Center, Thailand</p> <p>ID696- Impacts of PV Input Data Fidelity on PV-BESS Sizing: A Sensitivity Study Using Sizing and Financial Deviation Indices</p>
15:10-15:40	COFFEE BREAK
PARALLEL SESSIONS 15:40-17:50	<p>Chairperson: Ersin Kayahan</p> <p>15:40-16:00 Weichen Zhang Institute of Science Tokyo, Japan ID794- FUNDAMENTAL STUDY ON THE APPLICATION OF PHOTOACOUSTIC AND LIBS TECHNIQUES FOR UNDERWATER OBJECT CHARACTERIZATION</p> <p>16:00-16:30 Federica Fernandez University of Palermo, Italy <i>(invited speaker)</i> ID716- Biophilic and Solar-Integrated Façades for Energy-Efficient Buildings: Design Strategies for Reducing Cooling Demand and Enhancing Net-Zero Performance in Climate-Sensitive Urban Contexts</p> <p>16:30-16:50 Jean-Sebastien Bridel Extramile materials, Belgium ID682- Scaling Silicon-Based Anodes for Automotive Lithium-Ion Batteries: Lessons from Development to Industrialization</p> <p>16:50-17:20 Vilko Mandić University of Zagreb Faculty of Chemical Engineering and Technology, Croatia <i>(invited speaker)</i> ID722- The role of thin films in energy and green applications</p> <p>17:20-17:50 Xiongfeng Pan Dalian University of Technology, China <i>(invited speaker)</i> ID668- How do population aging and sub-replacement fertility affect carbon efficiency in European Economic Area? A multi-level and multivariate mediation analysis of population flow and technological innovation considering spatio-temporal effect</p>

PROGRAM
WEDNESDAY, JULY 15, 2026

ENEFM & INTERPHOTONICS

HALL 1

PLENARY SESSION 10:15-11:00	Chairperson: A.Yavuz Oral <p style="text-align: center;">Ehsan Sharifi Adelaide University, Australia</p> <p style="text-align: center;">“ID676- Urban greenery and energy efficiency in Urban Heat Islands: Knowledge, application and impact in Australia”</p>
11:00-11:30	COFFEE BREAK
PLENARY SESSION 11:30-12:15	Chairperson: A.Yavuz Oral <p style="text-align: center;">Saheli Biswas CSIRO, Australia</p> <p style="text-align: center;">“ID693- Material challenges with proton conducting ceramics for intermediate temperature hydrogenation/dehydrogenation applications”</p>
12:30-14:00	LUNCH
PARALLEL SESSIONS 14:00-15:00	ENEFM & INTERPHOTONICS HALL 1 Chairperson: Ersin Kayahan 14:00-14:30 Omorjit Singh Khwairakpam INFN-LNL, Italy (invited speaker) ID19- SPES Laser Ion Source: Existing design and possible upgrades 14:30-15:00 Satoshi Fujii National Institute of Technology, Okinawa college, Japan (invited speaker) ID714- Defect Engineering in Semiconductor Lattices through Microwave Heating

15:00-15:30	COFFEE BREAK
PARALLEL SESSIONS 15:30-16:30	ENEFM & INTERPHOTONICS HALL 1
	<p>Chairperson: Ersin Kayahan</p> <p>15:30-16:00 Frederic Kuznik INSA LYON, France <i>(invited speaker)</i> ID698- Development of Thermochemical Batteries for Sustainable Energy Management: From Materials to Systems</p> <p>16:00-16:30 Dong-Joon Lee Korea Research Institute of Standards and Science, Korea, Republic Of <i>(invited speaker)</i> ID796- Bandwidth enhanced Electro-optic probing system for millimeter wave measurement</p>
17:00	<p><i>SOCIAL PROGRAM</i></p> <p><i>17:00 CHAOPHRAYA DINNER CRUISE & ASIATIQUE NIGHT BAZAAR</i></p> <p><i>(Gathering at Congress registration desk)</i></p>

PROGRAM THURSDAY, JULY 16, 2026	
ENEFM & INTERPHOTONICS	
HALL 1	
PLENARY SESSION 09:45-10:30	<p>Chairperson: Ersin Kayahan</p> <p style="text-align: center;">Shuyuan Zhao Harbin Institute of Technology, China</p> <p style="text-align: center;">“ID809- Microstructural Transition Mechanisms, Radiative Properties Synchronous Characterization and Conduction/Radiation/Reactions Involved Heat Transfer Processes Provoked by Physicochemical Reactions in Aerogel Nanocomposites”</p>
	<p>10:30-11:00</p> <p>COFFEE BREAK</p>

<p style="text-align: center;">PARALLEL SESSIONS 11:00-12:50</p>	<p>Chairperson: Ersin Kayahan</p> <p>11:00-11:30 Takahiro Numai Ritsumeikan University, Japan <i>(invited speaker)</i> ID31- SINGLE LONGITUDINAL MODE LASER DIODE - IFRASTRUCTURE OF THE INTERNET</p> <p>11:30-12:00 Karel Maca Brno University of Technology, Czech Republic <i>(invited speaker)</i> ID799- Processing of transparent polycrystalline ceramics doped with various rare earth elements and transition metals and their luminescent properties</p> <p>12:00-12:30 Antonio C M Sousa University of Aveiro, Portugal <i>(invited speaker)</i> ID708- A Hydrogen Pathway Toward Sustainable Renewable Energy</p> <p>12:30-12:50 Chunfei Wang University of Macau, China ID805- Self-Immolative Photosensitizers for Self-Reported Cancer Phototheranostics</p>
<p>12:30-14:00</p>	<p>LUNCH</p>

	<p><i>Chairperson: A. Yavuz Oral</i></p> <p>14:00-14:30 Suzanna Akil Université de Lorraine, France <i>(invited speaker)</i> ID810- Beyond Gold: Magnesium Plasmonics for Sustainable Light-to-Chemical Energy Conversion</p> <p>14:30-14:50 Iyiola Olatunji OTUNNIYI Vaal University of Technology, South Africa ID702- OCCURRENCE, RESOURCE ESTIMATION AND BENEFICIATION PROSPECTS OF RARE EARTH ELEMENTS IN A COAL POWER PLANT ASH DEPOSIT</p>
<p>14:50-16:00</p>	<p>FOYER (Poster Session Area)</p> <p><i>Chairperson: A. Yavuz Oral</i></p> <p>POSTER SESSION & COFFEE BREAK (15:00-15:30)</p> <p>ENEFM & INTHERPHOTONICS</p>

PROGRAM LEGEND DESCRIPTIONS	
ID-	ENEFM 2026 oral presentations
ID-	INTHERPHOTONICS 2026 oral presentations

POSTER PROGRAM
THURSDAY, JULY 16, 2026

14:50-16:00

FOYER (Poster Session Area)

Chairperson: A. Yavuz Oral

ENEFM & INTHERPHOTONICS

ID	TITLE	CONTACT AUTHOR
670	GALLIUM-BASED LIQUID METAL DROPLETS SELF-PROPELLED JUMPING AND THE ENERGY CONVERSION PREDICTION BASED ON CONVOLUTIONAL NEURAL NETWORKS	Xiaomin Wu
673	WATER DROPLET IMPACT AND FREEZING ON SPHERICAL SURFACES	Jingchun Min
720	A study on the development of technical standards for the safety of V2L devices	Woncheol Park
25	BORATE CRYSTALS AS FUNCTIONAL MATERIALS FOR PHOTONIC APPLICATIONS	Tatyana Bekker
29	Design and Evaluation of a Three-Stage Elliptical Cavity for Homogenizing the Pumping Distribution in a Solar-pumped Laser	Honami Maki