



**THE *TENTATIVE* PROGRAM**

**ENEFM 2026**

**INTERPHOTONICS 2026**

**ENEFM 2026**  
**12<sup>th</sup> INTERNATIONAL CONGRESS ON ENERGY EFFICIENCY AND**  
**ENERGY RELATED MATERIALS**  
**July 14-16, 2026**

**INTERPHOTONICS 2026**  
**8<sup>th</sup> INTERNATIONAL CONFERENCE ON PHOTONICS RESEARCH**  
**July 14-16, 2026**

**The Twin Towers Hotel-Bangkok, THAILAND**

<b>TENTATIVE PROGRAM</b> <b>TUESDAY, JULY 14, 2026</b>	
<b>ENEFM &amp; INTERPHOTONICS</b>	
<b>HALL 1</b>	
<b>PLENARY SESSION</b> 09:30-10:15	Chairperson: <b>Ersin Kayahan</b>  <b>Safi Jradi</b> University of Technology of Troyes, France <b>“ID811- Plasmon-Assisted Nanochemistry: From Energy Localization to Integrated Photonic Devices”</b>
<b>PLENARY SESSION</b> 10:15-11:00	Chairperson: <b>A.Yavuz Oral</b>  <b>Zunhua Zhang</b> Wuhan University of Technology, China <b>“ID699- Investigation of Hydrogen Production via onboard reforming for Low- and Zero-Carbon Marine Engines”</b>
11:00- 11:30	<b>COFFEE BREAK</b>
<b>PLENARY SESSION</b> 11:30-12:15	Chairperson: <b>A.Yavuz Oral</b>  <b>John Bell</b> University of Southern Queensland, Australia <b>“ID669- Building the future energy system”</b>

12:30-14:00	<b>LUNCH</b>
PARALLEL SESSIONS 14:00-16:20	<b>HALL 1</b>
	Chairperson: <b>Ersin Kayahan</b>
	14:00-14:30 <b>Yoshiyuki Uruma</b> NIT(KOSEN), Yonago College, Japan <i>(invited speaker)</i> <b>ID790-</b> Development and Evaluation of Photosensitizer-Loaded Polymeric Micelles for Targeted Photodynamic Therapy
	14:30-14:50 <b>Nathan Heo</b> Kongju National University, Department of Mechanical Engineering, Korea, Republic Of <b>ID692-</b> Enhancing Mechanical Stability of Nanoporous Pt/C Electrodes via Controlled Thermal Annealing
	14:50-15:10 <b>Pranuda Jivaganont</b> National Energy Technology Center, Thailand <b>ID696-</b> Impacts of PV Input Data Fidelity on PV-BESS Sizing: A Sensitivity Study Using Sizing and Financial Deviation Indices
	15:10-15:30 <b>Weichen Zhang</b> Institute of Science Tokyo, Japan <b>ID794-</b> FUNDAMENTAL STUDY ON THE APPLICATION OF PHOTOACOUSTIC AND LIBS TECHNIQUES FOR UNDERWATER OBJECT CHARACTERIZATION
15:30-16:00 <b>Federica Fernandez</b> University of Palermo, Italy <i>(invited speaker)</i> <b>ID610-</b> 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	
16:00-16:20 <b>Jean-Sebastien Bridel</b> Extramile materials, Belgium <b>ID682-</b> Scaling Silicon-Based Anodes for Automotive Lithium-Ion Batteries: Lessons from Development to Industrialization	

**TENTATIVE PROGRAM**  
**WEDNESDAY, JULY 15, 2026**

**ENEFM & INTERPHOTONICS**

**HALL 1**

<b>PLENARY SESSION</b> 09:30-10:15	Chairperson: <b>A.Yavuz Oral</b>
<b>PLENARY SESSION</b> 10:15-11:00	Chairperson: <b>A.Yavuz Oral</b>  <b>Ehsan Sharifi</b> Adelaide University, Australia  "ID676- Urban greenery and energy efficiency in Urban Heat Islands: Knowledge, application and impact in Australia"
11:00-11:30	<b>COFFEE BREAK</b>
<b>PLENARY SESSION</b> 11:30-12:15	Chairperson: <b>A.Yavuz Oral</b>  <b>Saheli Biswas</b> CSIRO, Australia  "ID693- Material challenges with proton conducting ceramics for intermediate temperature hydrogenation/dehydrogenation applications"
12:30-14:00	<b>LUNCH</b>

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">PARALLEL SESSIONS 14:00-16:30</p>	<p><b>ENEFM &amp; INTERPHOTONICS</b> <b>HALL 1</b></p>
	<p><b>Chairperson: Ersin Kayahan</b></p>
	<p>14:00-14:30  <b>Omorjit Singh Khwairakpam</b>          INFN-LNL, Italy  <i>(invited speaker)</i>  <b>ID19-</b> SPES Laser Ion Source: Existing design and possible upgrades</p>
	<p>14:30-15:00  <b>Xiongfeng Pan</b>          Dalian University of Technology, China  <i>(invited speaker)</i>  <b>ID668-</b> 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>
	<p>15:00-15:30  <b>Satoshi Fujii</b>          National Institute of Technology, Okinawa college, Japan  <i>(invited speaker)</i>  <b>ID714-</b> Defect Engineering in Semiconductor Lattices through Microwave Heating</p>
<p>15:30-16:00  <b>Frederic Kuznik</b>          INSA LYON, France  <i>(invited speaker)</i>  <b>ID698-</b> Development of Thermochemical Batteries for Sustainable Energy Management: From Materials to Systems</p>	
<p>16:00-16:30  <b>Dong-Joon Lee</b>          Korea Research Institute of Standards and Science, Korea, Republic Of  <i>(invited speaker)</i>  <b>ID796-</b> Bandwidth enhanced Electro-optic probing system for millimeter wave measurement</p>	
<p>17:00</p>	<p><b><i>SOCIAL PROGRAM</i></b></p> <p><b><i>17:00 CHAOPHRAYA DINNER CRUISE &amp; ASIATIQUE NIGHT BAZAAR</i></b></p> <p><b><i>(Gathering at Congress registration desk)</i></b></p>

**TENTATIVE PROGRAM**  
**THURSDAY, JULY 16, 2026**

**ENEFM & INTERPHOTONICS**

**HALL 1**

<b>PLENARY SESSION</b> 09:00-09:45	Chairperson: <b>A. Yavuz Oral</b>
<b>PLENARY SESSION</b> 09:45-10:30	Chairperson: <b>Ersin Kayahan</b>  <p style="text-align: center;"><b>Shuyuan Zhao</b> Harbin Institute of Technology, China</p> <p style="text-align: center;"><b>“ID809- Microstructural Transition Mechanisms, Radiative Properties Synchronous Characterization and Conduction/Radiation/Reactions Involved Heat Transfer Processes Provoked by Physicochemical Reactions in Aerogel Nanocomposites”</b></p>
<b>10:30-11:00</b>	COFFEE BREAK
<b>PARALLEL SESSIONS</b> 11:00-12:50	Chairperson: <b>Ersin Kayahan</b>  11:00-11:30 <b>Takahiro Numai</b> Ritsumeikan University, Japan (invited speaker) <b>ID31- SINGLE LONGITUDINAL MODE LASER DIODE - IFRASTRUCTURE OF THE INTERNET</b>  11:30-12:00 <b>Karel Maca</b> Brno University of Technology, Czech Republic (invited speaker) <b>ID799- Processing of transparent polycrystalline ceramics doped with various rare earth elements and transition metals and their luminescent properties</b>  12:00-12:30 <b>Antonio C M Sousa</b> University of Aveiro, Portugal (invited speaker) <b>ID708- A Hydrogen Pathway Toward Sustainable Renewable Energy</b>  12:30-12:50 <b>Chunfei Wang</b> University of Macau, China <b>ID805- Self-Immolative Photosensitizers for Self-Reported Cancer Phototheranostics</b>
<b>12:30-14:00</b>	<b>LUNCH</b>

14:00- 16:00	<p><b>FOYER (Poster Session Area)</b></p> <p><b>Chairperson: A. Yavuz Oral</b></p> <p><b>POSTER SESSION</b></p> <p><b>ENEFM &amp; <i>INTHERPHOTONICS</i></b></p>
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<b>PROGRAM LEGEND DESCRIPTIONS</b>	
<b>ID-</b>	<b>ENEFM 2026 oral presentations</b>
<b>ID-</b>	<b><i>INTHERPHOTONICS</i> 2026 oral presentations</b>

**TENTATIVE POSTER PROGRAM**

**THURSDAY, JULY 16, 2026**

**14:00-16:00**

**FOYER (Poster Session Area)**

**Chairperson: A. Yavuz Oral**

**ENEFM & INTHERPHOTONICS**

<b>ID</b>	<b>TITLE</b>	<b>CONTACT AUTHOR</b>
<b>670</b>	GALLIUM-BASED LIQUID METAL DROPLETS SELF-PROPELLED JUMPING AND THE ENERGY CONVERSION PREDICTION BASED ON CONVOLUTIONAL NEURAL NETWORKS	Xiaomin Wu
<b>673</b>	WATER DROPLET IMPACT AND FREEZING ON SPHERICAL SURFACES	Jingchun Min
<b>XX</b>	XX	X
<b>25</b>	BORATE CRYSTALS AS FUNCTIONAL MATERIALS FOR PHOTONIC APPLICATIONS	Tatyana Bekker
<b>29</b>	Design and Evaluation of a Three-Stage Elliptical Cavity for Homogenizing the Pumping Distribution in a Solar-pumped Laser	Honami Maki
<b>XX</b>	XX	X