

2020  
**EFCATS**  
Summer School

# Engineering materials for catalysis

15-19 September 2020  
Portorož-Portorose  
Slovenia

# PROGRAMME BOOKLET





The 2020 Summer School of the European Federation of Catalysis Societies (EFCATS) will be held from 15-19 September 2020 in Grand Hotel Bernardin Convention Center in Portorož-Portorose, Slovenia. The event entitled “Engineering Materials for Catalysis” is organized jointly by the Section for Catalysis of the Slovenian Chemical Society and the Austrian Catalysis Society.





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## OBJECTIVES

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The 2020 EFCATS Summer School focuses on recent advances regarding synthesis, *in-situ* and *operando* characterization and applications of heterogeneous catalysts as well as multi-scale modelling of catalytic processes. Besides, the publication system and less competitive free discussions will be addressed at the meeting.

Master and doctoral students as well as early-stage researchers being involved in the above-mentioned topics are strongly encouraged to attend the event. Eleven worldwide known experts will deliver invited lectures. The participants will be able to present the results of their research work in the form of oral presentations or poster contributions. A virtual tour to the Elettra synchrotron in Trieste, Italy, will be organized as part of the 2020 EFCATS Summer School.

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## FORMAT

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The 2020 EFCATS Summer School entitled “Engineering Materials for Catalysis” will last five days and will consist of invited lectures (90 min), oral presentations (15 min) and poster contributions. The papers were selected by the chairs, based on the innovative aspect and scientific level.

The Young European Catalysis Network (YEuCat; <https://www.youngcatalysis.net>) will contribute to the programme of the 2020 EFCATS Summer School.

Participants of the 2020 EFCATS Summer School will be able to attend scientific sessions of the 26th Annual Meeting of the Slovenian Chemical Society held in parallel at the Grand Hotel Bernardin Convention Center.

The official language of the event is English. Papers and other documents will be in English. No translation facilities will be provided.

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## TOPICS

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The 2020 EFCATS Summer School will cover the following topics:

- advanced synthesis and characterization of heterogeneous catalysts
- *in-situ* and *operando* characterization
- synchrotron characterization
- materials for photocatalysis and electrocatalysis
- multi-scale modelling of catalytic processes
- communication in science (publication system and less competitive free discussions)

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## CHAIRS

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Nataša Novak Tušar  
*National Institute of Chemistry, Ljubljana, Slovenia*

Albin Pintar  
*National Institute of Chemistry, Ljubljana, Slovenia*

Günther Rupprechter  
*TU Wien, Austria*

## VENUE

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### **Grand Hotel Bernardin Convention Center**

Obala 2, SI-6320 Portorož-Portorose, Slovenia

Phone: +386 5 690 70 00, Fax: +386 5 690 70 10

E-mail address: [booking@h-bernardin.si](mailto:booking@h-bernardin.si) • <https://www.hoteli-bernardin.si/>

**Portorož-Portorose**, the town on the Slovene riviera, is known for its climatic conditions beneficial to health and well being in general. The thermal baths, based on brine and saline mud, have very old tradition, starting in 13th century. In addition, the “Port of Roses” offers the visitors sandy beaches, the best equipped marina for yacht tourist, various sport activities and a lot of entertainment including the casino. Portorož-Portorose can be conveniently reached by air (Ljubljana, Trieste, Venice), by train (Koper, Trieste), by ship (Venice) and by road.

The 2020 EFCATS Summer School will be held at luxurious Grand Hotel Bernardin Convention Center, located in the St. Bernardin hotel and conference resort (see <http://www.hoteli-bernardin.si/en/>). The latter lies on a peninsula with lush Mediterranean flora, halfway between the medieval town of Piran-Pirano and the modern seaside resort of Portorož-Portorose. The bell tower of the remains of St. Bernardin’s monastery from the 15th century stands as a proud reminder of the rich cultural past, and marks the centerpiece of the resort.

The convention center of the Grand Hotel Bernardin offers several multi-purpose rooms, state-of-the-art audiovisual and telecommunication equipment and experienced staff. All this as well as the exceptional location and services of the resort make convention center of the Grand Hotel Bernardin the ideal venue for business, scientific and social events, that can host up to 2600 persons.

Some pleasures at disposal include sandy and grassy beaches, windsurfing school, boats, sailing boats, indoor and outdoor swimming pools, fitness, scuba-diving school, boat marina, golf, tennis courts, boule lanes, basketball court, beach-valley court, bikes, exquisite national & fish food in several restaurants with perfect local wines, music & dance, casino and much much more.



## PROGRAMME AT A GLANCE

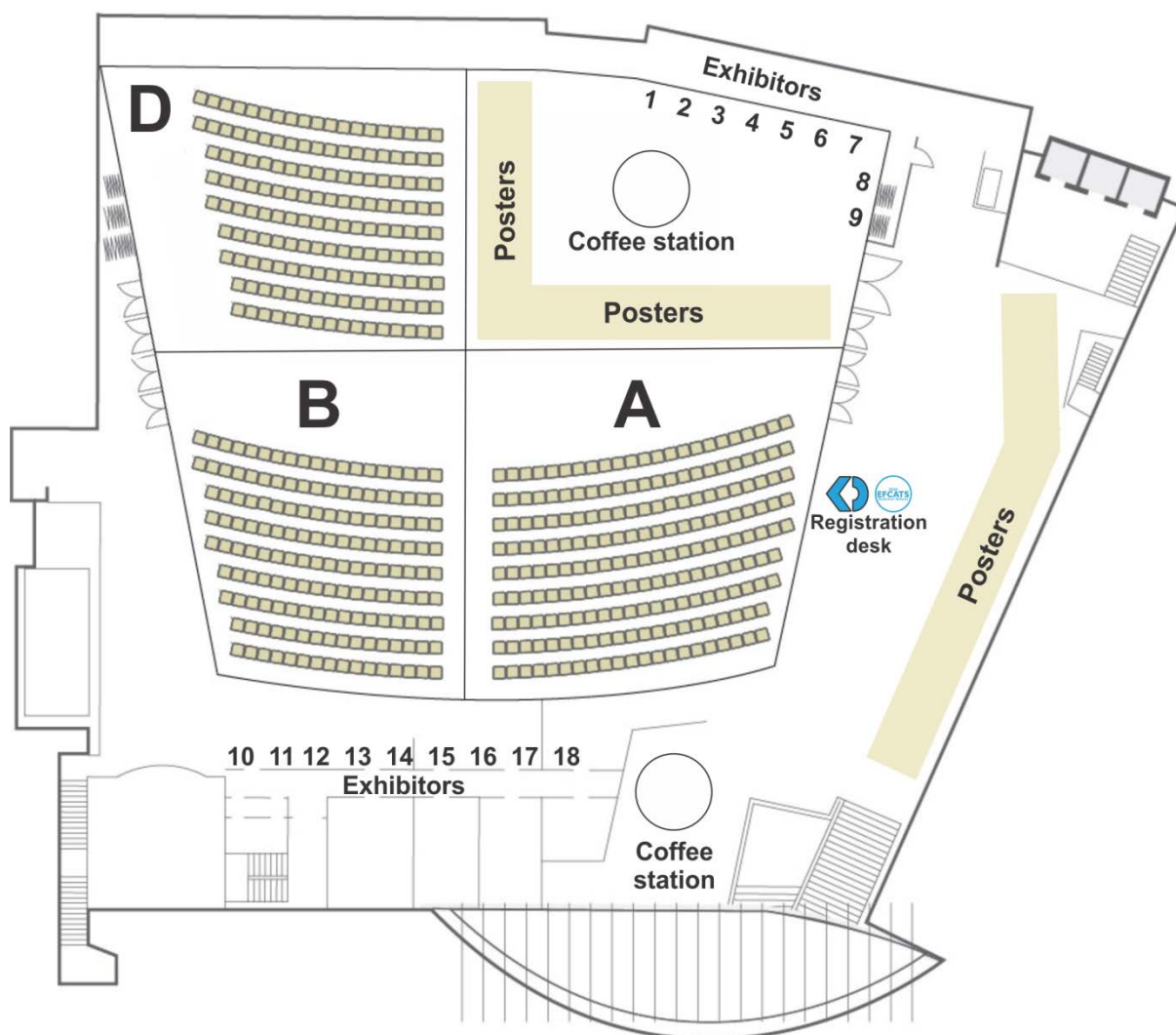
	Tuesday, 15 September 2020	Wednesday, 16 September 2020	Thursday, 17 September 2020	Friday, 18 September 2020	Saturday, 19 September 2020
08:00		Late registration			
09:00		Synthesis and characterization (B.-L. Su)	<i>Operando</i> studies (B.M. Weckhuysen)	Modelling (A. Genest)	Materials for photocatalysis (J.L. Faria)
10:00		Oral presentations	Oral presentations	Oral presentations	Oral presentations
		Coffee break	Coffee break	Coffee break	Coffee break
11:00		Synthesis and characterization (S. Mintova)	Synchrotron studies (G. Aquilanti)	Multiscale modelling (B. Likozar)	Materials for electrocatalysis (R. Buonsanti)
12:00		Oral presentations	Oral presentations	Lunch	Oral presentations
13:00		Lunch	Lunch		Closing remarks
14:00					Take-away lunch
15:00			Free time	Free time	Departure
16:00					
17:00	Registration	Poster session	Free time	Communication in science (S. Bordiga)	
18:00				YEuCat: a collaborative network	
19:00		Catalysis in industry (N. Nesterenko)			
20:00	Get-together party	Welcome reception	Gala dinner	Party	
21:00					
22:00					



To follow the programme of the 2020 EFCATS Summer School on mobile devices and schedule your agenda, you are invited to use the »Eventor« mobile app available for free in Google Play and iTunes App stores.

**GROUND PLAN OF THE GRAND HOTEL BERNARDIN CONVENTION CENTER  
(12th FLOOR)**

**EUROPA HALL**



## PROGRAMME

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**Tuesday, 15 September 2020**

17:00 – 19:30	<b>Registration &amp; welcome drink</b> <i>Foyer of the Grand Hotel Bernardin Convention Center (12th floor)</i>
20:00 – 22:00	<b>Get-together party</b> <i>Beach area of Hotel Vile Park</i>



### **SLOVENSKI KEMIJSKI DNEVI 2020**

26th Annual Meeting of the Slovenian Chemical Society  
16.-18. september 2020 • Portorož-Portorose, Slovenija

Participants of the 2020 EFCATS Summer School are able to attend scientific sessions of the 26th Annual Meeting of the Slovenian Chemical Society (<https://skd2020.chem-soc.si/en/>) held in parallel at the Grand Hotel Bernardin Convention Center from 16-18 September 2020.

**Wednesday, 16 September 2020**

8:00 – 8:30	<b>Late registration</b> <i>Foyer of the Grand Hotel Bernardin Convention Center (12th floor)</i>
8:20 – 8:30	<b>Opening</b> <i>Europa Hall D</i>  Welcome address: Nataša Novak Tušar, Albin Pintar, Günther Rupprechter
8:30 – 10:30	<b>S1: Synthesis and characterization</b> Chair: <b>Nataša Novak Tušar</b> <i>Europa Hall D</i>
8:30 – 10:00	<b>Invited lecture</b> <b>From natural hierarchy law to hierarchically porous zeolite single crystals for green catalysis</b> Ming-Hui Sun, Li-Hua Chen, <u>Bao-Lian Su</u> <i>Laboratory of Inorganic Materials Chemistry, University of Namur, Belgium</i>
10:00 – 10:15 (online)	<b>Ligand engineering as a tool for heterogeneous gold nanocluster catalyst design</b> <u>Vera Truttmann</u> <sup>1</sup> , Philipp Hans <sup>2</sup> , Noelia Barrabés <sup>1</sup> , Günther Rupprechter <sup>1</sup> <sup>1</sup> <i>TU Wien, Austria</i> <sup>2</sup> <i>University of Trento, Italy</i>
10:15 – 10:30 (online)	<b>Carbon black-polydopamine-ruthenium composite as an efficient and recyclable boomerang catalyst for the oxidative cleavage of oleic acid</b> <u>Sebastián Gámez</u> <sup>1</sup> , Ernesto de la Torre <sup>2</sup> , Eric M. Gaigneaux <sup>1</sup> <sup>1</sup> <i>Université catholique de Louvain, Belgium</i> <sup>2</sup> <i>Escuela Politécnica Nacional, Ecuador</i>
10:30 – 11:00	<b>Coffee break</b> <i>Foyer of the Grand Hotel Bernardin Convention Center (12th floor)</i>
11:00 – 13:00	<b>S2: Synthesis and characterization</b> Chair: <b>Nataša Novak Tušar</b> <i>Europa Hall D</i>
11:00 – 12:30	<b>Invited lecture</b> <b>Nanosized zeolites with flexible properties</b> <u>Svetlana Mintova</u> <i>LCS, CNRS, ENSICAEN, Normandy University-Caen, France</i>
12:30 – 12:45 (online)	<b>Nanoscale visualization of carbon deposits and magnesium clusters in zeolites active in the methanol-to-olefins process</b> <u>Sophie Helena van Vreeswijk</u> , Bert M. Weckhuysen <i>Utrecht University, The Netherlands</i>
12:45 – 13:00	<b>In-situ DRIFTS to understand the mechanism of methane dry reforming over Ni/MnO<sub>x</sub> doped CeO<sub>2</sub></b> <u>Vikram Tatiparthi Sagar</u> , Albin Pintar <i>National Institute of Chemistry, Ljubljana, Slovenia</i>

13:00 – 14:30	<b>Lunch</b> <i>Grand Restaurant (10th floor)</i>
14:30 – 16:30	<b>Free time</b>
16:30 – 18:30	<b>Poster session</b> <i>Foyer of the Grand Hotel Bernardin Convention Center (12th floor)</i>
18:30 – 20:00 (online)	<b>S3: Catalysis in industry</b> <i>Europa Hall D</i> Chair: <b>Nataša Novak Tušar</b>
	<b>Invited lecture</b> <b>Opportunities and challenges for zeolites in the energy transition</b> <u>Nikolai Nesterenko</u> <i>Total Research and Technology Feluy, Seneffe, Belgium</i>
20:00 – 22:00	<b>Welcome reception</b> <i>Cocktail Lounge and Piano Bar of the Grand Hotel Bernardin</i>

Thursday, 17 September 2020

<b>S4a: Operando studies</b>		Chair: <b>Albin Pintar</b>
<i>Europa Hall A</i>		
8:30 – 9:25 (online)	<b>Invited lecture</b> <b>Operando spectroscopy and microscopy of solid catalysts</b> <u>Bert M. Weckhuysen</u> <i>Utrecht University, The Netherlands</i>	
<b>S4b: Operando studies</b>		Chair: <b>Günther Rupprechter</b>
<i>Europa Hall D</i>		
9:30 – 10:30	<b>Invited lecture (online) - continuation</b> <b>Operando spectroscopy and microscopy of solid catalysts</b> <u>Bert M. Weckhuysen</u> <i>Utrecht University, The Netherlands</i>	
9:30 – 10:00 (online)		
10:00 – 10:15	<b>Revealing the dynamics of Sabatier reaction by IR thermography</b> <u>Emanuele Moiola</u> <sup>1,2</sup> , Robin Mutschler <sup>2</sup> , Andreas Züttel <sup>2</sup> <sup>1</sup> <i>Paul Scherrer Institute, Villigen, Switzerland</i> <sup>2</sup> <i>EPFL, Sion, Switzerland</i>	
10:15 – 10:30	<b>Effect of formaldehyde on selective catalytic reduction of NO<sub>x</sub> by V<sub>2</sub>O<sub>5</sub>-WO<sub>3</sub>/TiO<sub>2</sub> catalysts</b> <u>Anh Binh Ngo</u> , Thanh Huyen Vuong, Hanan Atia, Ursula Bentrup, Jabor Rabeah, Udo Armbruster, Angelika Brückner <i>Leibniz Institute for Catalysis, University of Rostock, Germany</i>	
10:30 – 11:00	<b>Coffee break and poster viewing</b> <i>Foyer of the Grand Hotel Bernardin Convention Center (12th floor)</i>	
<b>S5: Synchrotron studies</b>		Chair: <b>Iztok Arčon</b>
<i>Europa Hall D</i>		
11:00 – 12:30	<b>Invited lecture</b> <b>Synchrotron radiation: what is it and what can it do for you?</b> <u>Giulliana Aquilanti</u> <i>Elettra - Sincrotrone Trieste, Italy</i>	
12:30 – 12:45 (online)	<b>Towards the understanding of the direct methane to methanol reaction mechanism catalyzed by CeO<sub>2</sub>/Cu<sub>x</sub>O nanomaterial: an operando NEXAFS study</b> <u>Silvia Mauri</u> <sup>1</sup> , Luca Braglia <sup>1</sup> , Aleksandr Petrov <sup>1</sup> , Giorgio Rossi <sup>1,2</sup> , Piero Torelli <sup>1</sup> <sup>1</sup> <i>Laboratorio TASC, IOM-CNR, Trieste, Italy</i> <sup>2</sup> <i>Università di Milano, Dipartimento di Fisica, Italy</i>	
12:45 – 13:00	<b>Sn K-edge EXAFS analysis of Sn-modified TiO<sub>2</sub> photocatalyst with improved performance</b> <u>Ksenija Maver</u> <sup>1</sup> , Iztok Arčon <sup>1,2</sup> , Urška Lavrenčič Štangar <sup>3</sup> <sup>1</sup> <i>University of Nova Gorica, Slovenia</i> <sup>2</sup> <i>Jožef Stefan Institute, Ljubljana, Slovenia</i> <sup>3</sup> <i>University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia</i>	

13:00 – 14:30	<b>Lunch</b> <i>Grand Restaurant (10th floor)</i>	
	<b>S6: Synchrotron Elettra virtual excursion</b> <i>Europa Hall D</i>	Chair: <b>Iztok Arčon</b>
14:30 – 16:00	<b>Invited lecture</b> <b>Synchrotron Elettra virtual excursion</b> <u>Jasper Rikkert Plaisier</u> <i>Elettra - Sincrotrone Trieste, Italy</i>	
16:00 – 20:00	<b>Free time</b>	
20:00 – 23:00	<b>Conference dinner</b> <i>Terrace International of the St. Bernardin Adriatic Resort &amp; Convention Center</i>	

**Friday, 18 September 2020**

<b>8:30 – 10:30</b>	<b>S7: Modelling</b> <i>Europa Hall D</i>	Chair: <b>Günther Rupprechter</b>
8:30 – 10:00	<b>Invited lecture</b> <b>Modeling reducible oxides with DFT - Challenges and solutions</b> <u>Alexander Genest</u> <i>TU Vienna, Austria</i>	
10:00 – 10:15	<b>Data science tools for heterogeneous catalysis</b> <u>Mohammad Khatamirad</u> , Shahabedin Dayani <i>BasCat, Berlin, Germany</i>	
10:15 – 10:30	<b>Reactor mass transport and surface microkinetics modelling of reverse water-gas shift on Cu-based catalysts</b> <u>Damjan Lašič Jurkovič</u> , Anže Prašnikar, Andrej Pohar, Blaž Likozar <i>National Institute of Chemistry, Ljubljana, Slovenia</i>	
10:30 – 11:00	<b>Coffee break and poster viewing</b> <i>Foyer of the Grand Hotel Bernardin Convention Center (12th floor)</i>	
	<b>S8: Multi-scale modelling</b> <i>Europa Hall D</i>	Chair: <b>Günther Rupprechter</b>
11:00 – 12:30	<b>Invited lecture</b> <b>How can multi-scale modelling simulations help catalysis and engineering?</b> <u>Blaž Likozar</u> <sup>1,2,3</sup> , Matej Huš <sup>1</sup> , Miha Grilc <sup>1</sup> , Andrej Pohar <sup>1</sup> <sup>1</sup> <i>Department of Catalysis and Chemical Reaction Engineering, National Institute of Chemistry, Ljubljana, Slovenia</i> <sup>2</sup> <i>Pulp and Paper Institute, Ljubljana, Slovenia</i> <sup>3</sup> <i>Faculty of Chemistry and Chemical Technology, University of Ljubljana, Slovenia</i>	
12:30 – 14:00	<b>Lunch</b> <i>Grand Restaurant (10th floor)</i>	
14:00 – 17:30	<b>Free time</b>	
	<b>S9: Communication in science</b> <i>Europa Hall D</i>	Chair: <b>Nataša Novak Tušar</b>
17:30 – 18:30	<b>Invited lecture</b> <b>Dissemination and communication in the daily work of a researcher</b> <u>Silvia Bordiga</u> <i>Department of Chemistry, University of Turin, Italy</i>	
18:30 – 19:30	<b>YEuCat: a collaborative network</b> <i>Europa Hall D</i>	
20:30 – 22:00	<b>Party</b> <i>Pizzeria Batana, Piran-Pirano</i>	

**Saturday, 19 September 2020**

<b>8:30 – 10:30</b>	<b>S10: Materials for photocatalysis</b> <i>Europa Hall D</i>	<b>Chair: Albin Pintar</b>
8:30 – 10:00	<b>Invited lecture</b> <b>Shining new light on ancient formulations: Preparation and photoproperties of carbon photocatalysts</b> <u>Joaquim L. Faria</u> <i>Department of Chemical Engineering, University of Porto, Portugal</i>	
10:00 – 10:15 (online)	<b>Photocatalytic conversion of biomass to hydrogen and light hydrocarbons</b> <u>Gabriele Scandura</u> , Giovanni Palmisano, Jorge Rodriguez <i>Research and Innovation Centre on CO<sub>2</sub> and H<sub>2</sub>, Khalifa University, Abu Dhabi, United Arab Emirates</i>	
10:15 – 10:30 (online)	<b>The development of TiO<sub>2</sub>-SnS<sub>2</sub>/GO-RGO nanocomposite photocatalytic material active under solar light irradiation</b> <u>Klara Perović</u> , Marijana Kraljić Roković, Marin Kovačić, Hrvoje Kušić <i>Faculty of Chemical Engineering and Technology, University of Zagreb, Croatia</i>	
10:30 – 11:00	<b>Coffee break</b> <i>Foyer of the Grand Hotel Bernardin Convention Center (12th floor)</i>	
<b>11:00 – 12:45</b>	<b>S11: Materials for electrocatalysis</b> <i>Europa Hall D</i>	<b>Chair: Albin Pintar</b>
11:00 – 12:30 (online)	<b>Invited lecture</b> <b>Colloidal chemistry for tunable and controlled electrocatalysts</b> <u>Raffaella Buonsanti</u> <i>EPFL, Sion, Switzerland</i>	
12:30 – 12:45	<b>Nano-engineering a superior and cost-effective proton exchange membrane fuel cell catalyst</b> <u>Matija Gatalo</u> , Marjan Bele, Francisco Ruiz-Zepeda, Ana Rebeka Kamšek, Nejc Hodnik, Miran Gaberšček <i>National Institute of Chemistry, Ljubljana, Slovenia</i>	
12:45 – 13:00	<b>Closing remarks</b> <i>Europa Hall D</i>	
13:00 – 13:15	<b>Take-away lunch</b> <i>Foyer of the Grand Hotel Bernardin Convention Center (12th floor)</i>	



## POSTER SESSION

*Foyer of the Grand Hotel Bernardin Convention Center (12th floor)*

Wednesday, 16 September 2020 (16:30 – 18:30)

Thursday, 17 September 2020 (10:30 – 11:00)

Friday, 18 September 2020 (10:30 – 11:00)

- P001 Photocatalytic and thermal catalytic reduction of NO<sub>2</sub> on different TiO<sub>2</sub> substrates loaded with Pt**  
Gregor Žerjav<sup>1</sup>, Zafer Say<sup>2</sup>, Christoph Langhammer<sup>2</sup>, Albin Pintar<sup>1</sup>  
<sup>1</sup>*National Institute of Chemistry, Ljubljana, Slovenia*  
<sup>2</sup>*Department of Physics, Chalmers University of Technology, Gothenburg, Sweden*
- P002 Photoluminescence determination of hydroxyl radical formation rate: terephthalic acid versus coumarin**  
Gregor Žerjav<sup>1</sup>, Alen Albreht<sup>2</sup>, Irena Vovk<sup>2</sup>, Albin Pintar<sup>1</sup>  
<sup>1</sup>*Department of Inorganic Chemistry and Technology, National Institute of Chemistry, Ljubljana, Slovenia*  
<sup>2</sup>*Department of Food Chemistry, National Institute of Chemistry, Ljubljana, Slovenia*
- P003 Visible-light triggered photocatalytic oxidation reaction with Au+TiO<sub>2</sub> composites utilizing surface plasmon resonance effect of Au**  
David Dolhar<sup>1</sup>, Gregor Žerjav<sup>1</sup>, Anja Sedminek<sup>1</sup>, Marija Sollner Dolenc<sup>2</sup>, Janez Zavašnik<sup>3</sup>, Janez Kovač<sup>3</sup>, Albin Pintar<sup>1</sup>  
<sup>1</sup>*National Institute of Chemistry, Ljubljana, Slovenia*  
<sup>2</sup>*Faculty of Pharmacy, University of Ljubljana, Slovenia*  
<sup>3</sup>*Jožef Stefan Institute, Ljubljana, Slovenia*
- P004 Tandem effect of polychromatic radiation: Enhanced activity of N-doped TiO<sub>2</sub> photocatalyst under full-spectrum light**  
*e-poster*  
Nikita Kovalevskiy<sup>1,2</sup>, Dmitry Svintsitskiy<sup>1,2</sup>, Svetlana Selishcheva<sup>1,2</sup>, Denis Kozlov<sup>1,2</sup>, Dmitry Selishchev<sup>1,2</sup>  
<sup>1</sup>*Borisevsk Institute of Catalysis, Novosibirsk, Russian Federation*  
<sup>2</sup>*Novosibirsk State University, Novosibirsk, Russian Federation*
- P005 Photocatalytic activity of thin ALD/PE-ALD ZnO films: A comparative study**  
*e-poster*  
Daria Jarda<sup>1,2</sup>, Robert Peter<sup>1,2</sup>, Mateja Podlogar<sup>3</sup>, Ales Omerzu<sup>1,2</sup>, Kresimir Salamon<sup>4</sup>, Mladen Petravic<sup>1,2</sup>  
<sup>1</sup>*Department of Physics, University of Rijeka, Croatia*  
<sup>2</sup>*Centre for Micro- and Nanosciences and Technologies, Rijeka, Croatia*  
<sup>3</sup>*Jožef Stefan Institute, Ljubljana, Slovenia*  
<sup>4</sup>*Rudjer Boskovic Institute, Zagreb, Croatia*
- P006 Cerium-based metal organic frameworks as heterogeneous photocatalysts**  
*e-poster*  
Antonio Valverde González<sup>1</sup>, Antonia M. Rasero-Almansa<sup>1</sup>, Mercedes Pintado-Sierra<sup>2</sup>, Félix Sánchez<sup>2</sup>, Marta Iglesias<sup>1</sup>  
<sup>1</sup>*Materials Science Institute of Madrid (ICMM-CSIC), Spain*  
<sup>2</sup>*Organic Chemistry Institute (IQO-CSIC), Madrid, Spain*

- P007 Towards highly efficient flexible heterogenous photocatalysts for removal of persistent organic compounds**  
Živa Marinko<sup>1,2</sup>, Luka Suhadolnik<sup>1</sup>, Barbara Šetina Batič<sup>3</sup>, Miran Čeh<sup>1</sup>  
<sup>1</sup>Department for Nanostructured Materials, Jožef Stefan Institute, Ljubljana, Slovenia  
<sup>2</sup>Jožef Stefan International Postgraduate School, Ljubljana, Slovenia  
<sup>3</sup>Laboratory of Vacuum Science and Optoelectronics, Institute of Metals and Technology, Ljubljana, Slovenia
- P008 Experimental and computational study on the adsorption of contaminants of emerging concern on TiO<sub>2</sub> photocatalyst**  
 e-poster Antonija Tomić, Matea Gavran, Marin Kovačić, Hrvoje Kušić, Ana Lončarić Božić  
 Faculty of Chemical Engineering and Technology, University of Zagreb, Croatia
- P009 Nanostructured photocatalytic TiO<sub>2</sub>/SnO<sub>2</sub> composites**  
Lucija Višić<sup>1</sup>, Ivana Panžić<sup>2</sup>, Vilko Mandić<sup>1</sup>, Jasper R. Plaisier<sup>3</sup>  
<sup>1</sup>University of Zagreb, Faculty of Chemical Engineering and Technology, Croatia  
<sup>2</sup>Division of Materials Physics, Ruđer Bošković Institute, Zagreb, Croatia  
<sup>3</sup>Elettra Sincrotrone Trieste S.C.p.A., Basovizza, Italy
- P010 'Black TiO<sub>2</sub>' synthesized by a sol-microwave strategy for solar photocatalysis**  
 e-poster Sanjay Gopal Ullattil<sup>1,2</sup>, Pradeepan Periyat<sup>1</sup>  
<sup>1</sup>Department of Chemistry, University of Calicut, Kerala, India  
<sup>2</sup>Department of Chemical Engineering, Texas A&M University at Qatar, Doha, Qatar
- P011 Hierarchically structured microcellular  $\pi$ -conjugated polymers for visible light photocatalysis**  
Sarah Jurjevec, Gregor Žerjav, Albin Pintar, Ema Žagar, Sebastijan Kovačić  
 National Institute of Chemistry, Ljubljana, Slovenia
- P012 Photocatalytic ozonation vs. other AOPs for removal of polar and nonpolar compounds over different commercial photocatalysts**  
Andraž Šuligoj<sup>1,2</sup>, Marko Kete<sup>3</sup>, Urh Černigoj<sup>4</sup>, Urška Lavrenčič Štanger<sup>1</sup>  
<sup>1</sup>University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia  
<sup>2</sup>National Institute of Chemistry, Ljubljana, Slovenia  
<sup>3</sup>University of Nova Gorica, Laboratory for Environmental and Life Sciences, Slovenia  
<sup>4</sup>BIA Separations, Ajdovščina, Slovenia
- P013 The role of water in the transformation of protonated titanate nanoribbons to anatase nanoribbons**  
Polona Umek<sup>1,2</sup>, Melita Sluban<sup>1,2</sup>  
<sup>1</sup>Jožef Stefan Institute, Ljubljana, Slovenia  
<sup>2</sup>Jožef Stefan International Postgraduate School, Ljubljana, Slovenia
- P014 Development of a novel rotating photocatalytic reactor for degradation of hazardous organic pollutants**  
 e-poster Ivana Elizabeta Zelić, Vesna Tomašić, Zoran Gomzi  
 Faculty of Chemical Engineering and Technology, University of Zagreb, Croatia
- P015 Woven materials as a functional support in hybrid reactors for solar photocatalysis**  
 e-poster Lucija Radetić<sup>1</sup>, Kristina Šimunković<sup>1</sup>, Marija Tomaš<sup>1</sup>, Tihana Čižmar<sup>2</sup>, Andreja Gajović<sup>2</sup>, Ivana Grčić<sup>1</sup>  
<sup>1</sup>University of Zagreb, Faculty of Geotechnical Engineering, Croatia  
<sup>2</sup>Ruđer Bošković Institute, Zagreb, Croatia

- P016**  
e-poster **Water & air purification over TiO<sub>2</sub> glass fibers in CPC photoreactors**  
Kristina Šimunković<sup>1</sup>, Lucija Radetić<sup>1</sup>, Jan Marčec<sup>1</sup>, Ivan Brnardić<sup>2</sup>, Ivana Grčić<sup>1</sup>  
<sup>1</sup>University of Zagreb, Faculty of Geotechnical Engineering, Croatia  
<sup>2</sup>University of Zagreb, Faculty of Metallurgy, Croatia
- P017**  
e-poster **Photocatalytic conversion of CO<sub>2</sub> into fuel: Activity in gas, liquid and supercritical state**  
Samar Al Jitan<sup>1</sup>, Khalid Al-Ali<sup>1</sup>, Raed Hashaikh<sup>2</sup>, Giovanni Palmisano<sup>1</sup>  
<sup>1</sup>Khalifa University, Abu Dhabi, United Arab Emirates  
<sup>2</sup>New York University Abu Dhabi, United Arab Emirates
- P018**  
**Electronic and geometric effects in copper-based catalysts for CO<sub>2</sub> reduction: Multiscale modeling perspective**  
Drejc Kopač, Matej Huš, Blaž Likozar  
National Institute of Chemistry, Ljubljana, Slovenia
- P019**  
**Novel doped perovskite catalysts – Enhancing catalytic activity by tailored exsolution of nanoparticles**  
Lorenz Lindenthal<sup>1</sup>, Janko Popovic<sup>1</sup>, Raffael Rameshan<sup>1</sup>, Thomas Ruh<sup>1</sup>, Harald Summerer<sup>2</sup>, Andreas Nenning<sup>2</sup>, Alexander K. Opitz<sup>2</sup>, Stefan Löffler<sup>3</sup>, Christoph Rameshan<sup>1</sup>  
<sup>1</sup>Technische Universität Wien, Institute of Materials Chemistry, Vienna, Austria  
<sup>2</sup>Technische Universität Wien, Institute of Chemical Technologies and Analytics, Vienna, Austria  
<sup>3</sup>Technische Universität Wien, USTEM, Vienna, Austria
- P020**  
**In-situ XRD analysis of potassium promoted cobalt molybdenum nitrides for catalytic application**  
Aleksander Albrecht, Paweł Adamski, Dariusz Moszyński  
Department of Inorganic Chemical Technology and Environment Engineering, West Pomeranian University of Technology in Szczecin, Poland
- P021**  
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Maria Balda, Anett Georgi, Katrin Mackenzie, Frank-Dieter Kopinke  
Helmholtz Centre for Environmental Research, Leipzig, Germany
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Thais Sayuri Berberich<sup>1,2</sup>, Adriano Santos Silva<sup>1</sup>, Jose Luis Diaz de Tuesta<sup>1</sup>, Simone Delezuk Inglez<sup>2</sup>, Helder Teixeira Gomes<sup>1</sup>  
<sup>1</sup>Centro de Investigação de Montanha, Bragança, Portugal  
<sup>2</sup>Universidade Tecnológica Federal do Paraná, Campus Ponta Grossa, Brazil
- P023**  
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Jessica P.M. Lopes<sup>1,2</sup>, Fernanda F. Roman<sup>1,3</sup>, José L. Díaz de Tuesta<sup>1</sup>, Giane G. Lenzi<sup>2</sup>, Joaquim L. Faria<sup>3</sup>, Adrián M.T. Silva<sup>3</sup>, Helder T. Gomes<sup>1</sup>  
<sup>1</sup>Centro de Investigação de Montanha, Instituto Politécnico de Bragança, Portugal  
<sup>2</sup>Universidade Tecnológica Federal do Paraná, Ponta Grossa, Brasil  
<sup>3</sup>Laboratory of Separation and Reaction Engineering – Laboratory of Catalysis and Materials, Faculdade de Engenharia, Universidade do Porto, Portugal
- P024**  
**An NMR study of EDTA modified zeolite A – A search for enhanced catalytic sites**  
Janez Volavšek<sup>1</sup>, Nataša Zabukovec Logar<sup>1,2</sup>, Gregor Mali<sup>1,2</sup>  
<sup>1</sup>National Institute of Chemistry, Ljubljana, Slovenia  
<sup>2</sup>University of Nova Gorica, Slovenia

- P025**  
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Bahar Ipek Torun  
*Middle East Technical University, Ankara, Turkey*
- P026**  
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Christopher Sauer<sup>1</sup>, Marcus Vestergren<sup>2</sup>, Anders Lorén<sup>2</sup>, Per-Anders Carlsson<sup>1</sup>  
<sup>1</sup>*Department of Chemistry and Chemical Engineering, Chalmers University of Technology, Gothenburg, Sweden*  
<sup>2</sup>*Department of Chemistry and Materials, RISE Research Institutes of Sweden, Borås, Sweden*
- P027**  
**Improving stability and activity of zeolite Y-based catalysts for the aqueous-phase hydrogenation of levulinic acid via La<sup>3+</sup> cation exchange**  
Hue-Tong Vu, Michael Goepel, Roger Gläser  
*Institute of Chemical Technology, Universität Leipzig, Germany*
- P028**  
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Elena Millán Ordóñez, Noelia Mota Toledo, Rut Guil López, Rufino Manuel Navarro Yerga  
*Catalysis and Petrochemistry Institute, Superior Council of Scientific Investigations (CSIC), Madrid, Spain*
- P029**  
**How the d-band center determines the catalytic activity in the synthesis of carbon neutral fuels**  
Johannes Häusler<sup>1</sup>, Joachim Pasel<sup>1</sup>, Friederike Woltmann<sup>1</sup>, Ralf Peters<sup>1</sup>, Detlef Stolten<sup>2</sup>  
<sup>1</sup>*Jülich Research Center GmbH, Germany*  
<sup>2</sup>*RWTH Aachen University, Germany*
- P030**  
e-poster **Phase transformations during CO<sub>2</sub>-Fischer-Tropsch synthesis studied on mesoporous iron oxide films as model system**  
Aleks Arinchtein<sup>1</sup>, René Sachse<sup>1</sup>, Denis Bernsmeier<sup>1</sup>, Qingxin Yang<sup>2</sup>, Jana Weiss<sup>2</sup>, Evgenii Kondratenko<sup>2</sup>, Ralph Kraehnert<sup>1</sup>  
<sup>1</sup>*Technische Universität Berlin, Germany*  
<sup>2</sup>*Leibniz Institut für Katalyse e.V., Rostock, Germany*
- P031**  
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Vikram Tatiparthi Sagar<sup>1</sup>, Filip Strniša<sup>2</sup>, Petar Djinović<sup>1</sup>, Igor Plazl<sup>2</sup>, Albin Pintar<sup>1</sup>  
<sup>1</sup>*National Institute of Chemistry, Ljubljana, Slovenia*  
<sup>2</sup>*Faculty of Chemistry and Chemical Technology, University of Ljubljana, Slovenia*
- P032**  
**Role of basic sites for CO<sub>2</sub> activation on differently nanoshaped CeO<sub>2</sub> during dry reforming of methane**  
Kristijan Lorber, Petar Djinović  
*National Institute of Chemistry, Ljubljana, Slovenia*

- P033**  
e-poster **Addition of a second metal on Pd/CeO<sub>2</sub> dry milled catalysts for methane oxidation**  
Andrea Mussio<sup>1</sup>, Sara Colussi<sup>1</sup>, Jordi Llorca<sup>2</sup>, Nuria Divins<sup>2</sup>,  
Alessandro Trovarelli<sup>1</sup>  
<sup>1</sup>*University of Udine, Italy*  
<sup>2</sup>*Universitat Politècnica de Catalunya, Barcelona, Spain*
- P034**  
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Maila Danielis<sup>1</sup>, Sara Colussi<sup>1</sup>, Luis E. Betancourt<sup>2</sup>, Núria J. Divins<sup>3</sup>,  
Sanjaya D. Senanayake<sup>2</sup>, Jordi Llorca<sup>3</sup>, José A. Rodríguez<sup>2</sup>,  
Alessandro Trovarelli<sup>1</sup>  
<sup>1</sup>*Polytechnic Department and INSTM, University of Udine, Italy*  
<sup>2</sup>*Chemistry Division, Brookhaven National Laboratory, Upton, New York, USA*  
<sup>3</sup>*Institute of Energy Technologies and Department of Chemical Engineering, UPC, Barcelona, Spain*
- P035**  
e-poster **Novel hierarchical copper-based metal-organic frameworks for improved catalytic performance**  
Huan V. Doan<sup>1,2</sup>, Ken Chiang<sup>3</sup>, Srinivasan Madapusi<sup>3</sup>, Samuel Pattisson<sup>4</sup>,  
David J. Morgan<sup>4</sup>, Stuart H. Taylor<sup>4</sup>, Valeska P. Ting<sup>1</sup>  
<sup>1</sup>*Department of Mechanical Engineering, University of Bristol, UK*  
<sup>2</sup>*Department of Oil Refining and Petrochemistry, Hanoi University of Mining and Geology, Vietnam*  
<sup>3</sup>*School of Engineering, RMIT University, Melbourne, Australia*  
<sup>4</sup>*Cardiff Catalysis Institute, Cardiff University, UK*
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Raquel Del Angel<sup>1</sup>, Georges Mouchaham<sup>1</sup>, Marco Daturi<sup>2</sup>, Christian Serre<sup>1</sup>  
<sup>1</sup>*Institut des Matériaux Poreux de Paris, UMR 8004 CNRS, Ecole Normale Supérieure, Paris, France*  
<sup>2</sup>*Normandie Univ, ENSICAEN, UNICAEN, CNRS, Laboratoire Catalyse et Spectrochimie, Caen, France*
- P037**  
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Karina Hemmer<sup>1</sup>, Konstantin Epp<sup>1</sup>, Bart Bueken<sup>2</sup>, Mirza Cokoja<sup>1</sup>,  
Dirk de Vos<sup>2</sup>, Roland Fischer<sup>1</sup>  
<sup>1</sup>*Technical University of Munich, Germany*  
<sup>2</sup>*Katholieke Universiteit Leuven, Belgium*
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Rohini Ashokrao Khobragade<sup>1</sup>, Matevž Roškarič<sup>1</sup>, Martin Košiček<sup>2</sup>,  
Janez Zavašnik<sup>2</sup>, Albin Pintar<sup>1</sup>  
<sup>1</sup>*National Institute of Chemistry, Ljubljana, Slovenia*  
<sup>2</sup>*Jožef Stefan Institute, Ljubljana, Slovenia*

- P039 Nanometallurgy in solution: Synthesis of ultra-small Pd/Ga colloids and their performance in semi-hydrogenation catalysis**  
Lena Staiger<sup>1</sup>, Tim Krakty<sup>2</sup>, Sebastian Günther<sup>2</sup>, Ondrej Tomanek<sup>3</sup>, Richard W. Fischer<sup>4</sup>, Roland A. Fischer<sup>1</sup>, Mirza Cokoja<sup>1</sup>  
<sup>1</sup>*Chair of Inorganic and Metal-Organic Chemistry, TU Munich, Germany*  
<sup>2</sup>*Chair of Physical Chemistry with Focus on Catalysis, TU Munich, Germany*  
<sup>3</sup>*Regional Center of Advanced Technologies and Materials, Olomouc, Czech Republic*  
<sup>4</sup>*Clariant Produkte (Deutschland) GmbH, Bruckmühl, Germany*
- P040 Ionic liquid surfactants as multitasking micellar catalysts for epoxidations in water**  
Fabian Schmidt<sup>1</sup>, Bastian Zehner<sup>2</sup>, Wolfgang Korth<sup>2</sup>, Andreas Jess<sup>2</sup>, Mirza Cokoja<sup>1</sup>  
<sup>1</sup>*Technical University of Munich, Germany*  
<sup>2</sup>*University of Bayreuth, Germany*
- P041 Effect of the catalytic support in the direct synthesis of hydrogen peroxide promoted by palladium catalysts**  
Francesco Sandri, Mattia Danieli, Paolo Centomo, Marco Zecca  
*Università degli Studi di Padova, Italy*
- P042 Selective hydrogenolysis of glycerol over copper-magnesium supported catalysts: Catalytic performance and characterization**  
Praveen Kumar, Urška Lavrenčič Štangar  
*Faculty of Chemistry and Chemical Technology, University of Ljubljana, Slovenia*
- P043 Enhancing the apparent catalytic activity of gold nanoparticles in liquid phase oxidation of glucose by optimized pore size – The importance of the local environment in catalysis**  
Milena Perovic<sup>1</sup>, Nadezda V. Tarakina<sup>1</sup>, Jan P. Hofmann<sup>2,3</sup>, Martin Oschatz<sup>1,4</sup>  
<sup>1</sup>*Max Planck Institute of Colloids and Interfaces, Potsdam, Germany*  
<sup>2</sup>*Technische Universität Darmstadt, Germany*  
<sup>3</sup>*Eindhoven University of Technology, The Netherlands*  
<sup>4</sup>*University of Potsdam, Germany*
- P044 Directing nitrogen-doped carbon support chemistry for improved hydrogenation catalysis**  
Monika Bosilj<sup>1,3</sup>, Lina Rustam<sup>1</sup>, Robin J. White<sup>2</sup>, Anna Fischer<sup>3,4,5</sup>  
<sup>1</sup>*Fraunhofer ISE, Freiburg, Germany*  
<sup>2</sup>*Netherlands Organization for Applied Scientific Research, Eindhoven, Netherlands*  
<sup>3</sup>*Institute for Inorganic and Analytical Chemistry, Albert-Ludwigs-Universität Freiburg, Germany*  
<sup>4</sup>*Freiburg Material Research Center, Albert-Ludwigs-Universität Freiburg, Germany*  
<sup>5</sup>*Freiburg Center for Interactive Materials and Bioinspired Technologies, FIT, Albert-Ludwigs-Universität Freiburg, Germany*
- P045 First principles investigation on furfural conversion on MoO<sub>2</sub> and MoO<sub>3</sub> surfaces**  
Žan Kovačič, Aleksa Kojčinović, Miha Grilc, Matej Huš, Blaž Likozar  
*Department of Catalysis and Chemical Reaction Engineering, National Institute of Chemistry, Ljubljana, Slovenia*

- P046**  
e-poster **Microwave-assisted condensation of hydroxymethylfurfural and acetone over recyclable hydrotalcite-related materials**  
Alberto Tampieri<sup>1</sup>, Cesare Russo<sup>1</sup>, Raffaele Marotta<sup>2</sup>, Magdalena Constantí<sup>1</sup>, Sandra Contreras<sup>1</sup>, Francesc Medina<sup>1</sup>  
<sup>1</sup>DEQ, ETSEQ, Universitat Rovira i Virgili, Tarragona, Spain  
<sup>2</sup>DICMAPI, Università di Napoli Federico II, Italy
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e-poster **M/Al (M = Ni, Cu, Co) catalysts based on layered double hydroxides (LDHs) precursors for furfural hydrogenolysis**  
Abdulaziz Aldureid, Francisco Medina Cabello, Daniel Montane  
Universitat Rovira i Virgili, Tarragona, Spain
- P048**  
**Reaction kinetics of isobutene oligomerization**  
Matic Grom, Andrej Pohar, Blaž Likozar  
National Institute of Chemistry, Ljubljana, Slovenia
- P049**  
**Micro-kinetics of direct methane conversion to ethylene, ethane, acetylene and hydrogen over Pt/CeO<sub>2</sub> catalyst**  
David Bajec, Andrii Kostyniuk, Andrej Pohar, Blaž Likozar  
National Institute of Chemistry, Ljubljana, Slovenia
- P050**  
**Influence of alumina support properties on Cu-Fe bimetal catalyst for total toluene oxidation as model volatile organic air pollutant**  
Tadej Žumbar<sup>1</sup>, Alenka Ristić<sup>1</sup>, Goran Dražić<sup>1</sup>, Margarita Popova<sup>2</sup>, Albin Pintar<sup>1</sup>, Nataša Zabukovec Logar<sup>1,3</sup>, Nataša Novak Tušar<sup>1,3</sup>  
<sup>1</sup>National Institute of Chemistry, Ljubljana, Slovenia  
<sup>2</sup>Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria  
<sup>3</sup>University of Nova Gorica, Slovenia
- P051**  
**Testing low-temperature fuel cell cathode materials with novel modified floating electrode methodology**  
Armin Hrnjić<sup>1,2</sup>, Nejc Hodnik<sup>1,2</sup>, Primož Jovanović<sup>1</sup>  
<sup>1</sup>Department of Materials Chemistry, National Institute of Chemistry, Ljubljana, Slovenia  
<sup>2</sup>University of Nova Gorica, Slovenia
- P052**  
e-poster **Enhancing the electrical conductivities of electro-catalytically active mesoporous oxide films via transition metal doping**  
Marvin Frisch<sup>1</sup>, Joachim Laun<sup>2</sup>, Michael Bernicke<sup>1</sup>, Aleks Arinchtein<sup>1</sup>, Thomas Bredow<sup>2</sup>, Ralph Kraehnert<sup>1</sup>  
<sup>1</sup>Technical University of Berlin, Germany  
<sup>2</sup>University of Bonn, Germany
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**Electrochemical degradation of carbon-supported gold nanoparticles**  
Milutin Smiljanić, Marjan Bele, Urša Petek, Francisco Ruiz-Zepeda, Martin Šala, Primož Jovanovič, Miran Gaberšček, Nejc Hodnik  
National Institute of Chemistry, Ljubljana, Slovenia
- P054**  
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Stefan Popović, Marjan Bele, Urša Petek, Nejc Hodnik  
National Institute of Chemistry, Ljubljana, Slovenia

- P055**      **Reduced graphene oxide as an advanced Pt-alloy electrocatalyst support material in PEMFC applications**  
Luka Pavko<sup>1</sup>, Matija Gatalo<sup>1</sup>, Boštjan Genorio<sup>2</sup>, Angelja Kjara Surca<sup>1</sup>,  
 Nejc Hodnik<sup>1</sup>, Miran Gaberšček<sup>1</sup>  
<sup>1</sup>*National Institute of Chemistry, Ljubljana, Slovenia*  
<sup>2</sup>*Faculty of Chemistry and Chemical Technology, University of Ljubljana, Slovenia*
- P056**      **Pore size-dependent charge storage behavior of three-dimensionally ordered hierarchically porous carbon materials for high performance Li-Se battery**  
 e-poster      Hongyan Li  
*University of Namur, Belgium*
- P057**      **Catalyst design from first prin: screening of the periodic table**  
Matej Huš<sup>1,2</sup>, Miha Grilc<sup>1</sup>, Blaž Likozar<sup>1</sup>, Anders Hellman<sup>2</sup>  
<sup>1</sup>*National Institute of Chemistry, Ljubljana, Slovenia*  
<sup>2</sup>*Chalmers University of Technology, Gothenburg, Sweden*

## SOCIAL EVENTS

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The following social programme has been arranged for participants of the 2020 EFCATS Summer School:

- Tuesday, 15 September 2020, 20:00 – 22:00; **Get-together party**

The get-together party of participants attending the 2020 EFCATS Summer School will be held in the beach area of Hotel Vile Park. A selection of local-style food and drinks will be provided. Dress code: *Casual*

- Wednesday, 16 September 2020, 20:00 – 22:00; **Welcome reception**

To welcome the conference participants, an informal gathering will take place in the Cocktail Lounge of Grand Hotel Bernardin. During the evening you will enjoy a selection of drinks, cold/hot buffet and light music. Dress code: *Casual*

- Thursday, 17 September 2020, 20:00 – 23:00; **Gala dinner**

Relax and enjoy under the stars in a unique view of the Piran Bay and taste the famous Mediterranean cuisine in the modern-stylish setting arranged on the Terrace International of the St. Bernardin Adriatic Resort and Convention Center. The fee covers an apéritif followed by a regional meal accompanied by excellent Slovene wines and entertainment. Dress code: *Business casual*

- Friday, 18 September 2020, 20:30 – 22:00; **Party**

The party will be held in the charming medieval town of Piran-Pirano. Located at the entrance to the Tartini Square, the smiling staff of Batana pizzeria will offer you a wide range of pizzas, the recipes of which have remained unchanged for over 40 years. You are bound to have a beautiful view of the harbor. Dress code: *Casual*

## GENERAL INFORMATION

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### Map:



**Wi-Fi Internet Access.** For the duration of the 2020 EFCATS Summer School, Wi-Fi internet access will be available free of charge in Grand Hotel Bernardin Convention Center.

**Conference Mobile Application.** To follow the scientific programme on mobile devices, the attendees are invited to use the »Eventor« mobile app available for free in Google Play and iTunes App stores.

**No-Smoking Policy.** For the comfort and health of all attendees, the 2020 EFCATS Summer School is smoke-free. In addition to this, there is a law in Slovenia that prohibits indoor smoking in public places except for strictly designated sections.

**Silent Cellular Phone Policy.** For the comfort and peace of all attendees, cellular telephone ringing has to be switched off before entering lecture rooms. Violators will be asked to leave the lecture room.

**Emergency Medical Service.** Resuscitation team and emergency ambulance will be available at all times during the event. Please report all emergencies to the Registration Desk.

**Responsibility.** The Organizing Committee does not accept responsibility for any personal injury, damage or loss of property which may occur in connection with this event or any of the programmed events. The participants are kindly requested to make their own insurance arrangements.

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## CONTACT

### **2020 EFCATS Summer School Secretariat**

c/o Slovenian Chemical Society  
Hajdrihova 19, P.O. Box 660  
SI-1001 Ljubljana  
Slovenia

Phone: +386 1 47 60 252

Fax: +386 1 47 60 300

E-mail address: [chem.soc@ki.si](mailto:chem.soc@ki.si)

<https://skd2020.chem-soc.si/2020-efcats-summer-school/>

