

SP7 Program

**Università degli Studi di Milano,
Via Festa del Perdono 7, Milano
ROOM 201**

Wednesday, 11 September 2019

12.00		<i>Registration</i>
13.15		<i>Welcome and Opening of SP7</i>
13.30	PL1	Charge Carriers in Commercial Photocatalysts: Fractal Kinetics and „Inert“ Additives
		<u>Detlef W. BAHNEMANN</u> Leibniz University Hannover & Saint Petersburg State University
14.10	O1	La _{1-x} Ti _x FeO ₃ as photoassisted CWPO catalysts for water treatment
		<i>Patricia García-Muñoz, Christophe Lefevre, Didier Robert, <u>Nicolas Keller</u></i> CNRS/University of Strasbourg, France
14.30	O2	Photocatalytic performances of rare earth element-doped zinc oxide toward pollutant abatement in water and wastewater
		<u>Paola Calza</u> , <i>Fabrizio Sordello, Ilaria Berruti, Chiara Gionco, Maria Cristina Paganini, Claudio Minero</i> University of Torino, Italy
14.50	O3	Potentiometry reveals the instantaneous photocatalytic rate
		<u>Fabrizio Sordello</u> , <i>Claudio Minero</i> University of Torino, Italy
15.10	O4	Composite active carbon/TiO ₂ photocatalysts for air treatment
		<u>Josef Krýsa</u> , <i>Michal Baudys, Michael Neumann-Spallart</i> University of Chemistry and Technology, Prague, Czech Republic
15.30		Coffee break
16.00	KN1	Conjugated Polymer Nanostructures for Photocatalysis under Visible-Light
		<u>Hynd REMITA</u> Université Paris-Sud, France
16.30	O5	Efficient materials for NO _x photodegradation under led light: bismuth oxyhalides
		<u>Giuseppina Cerrato</u> ^a , <i>A. Giordana</i> ^a , <i>Federico Galli</i> ^b , <i>Francesca Tessore</i> ^b , <i>F. Demartin</i> ^b , <i>Claudia L. Bianchi</i> ^b ^a University of Torino, Italy; ^b University of Milano, Italy
16.50	O6	Photocatalytic bismuth oxide coatings and their potential for water treatment applications
		<u>Marina Ratova</u> ^a , <i>James Redfera</i> ^a , <i>Camila Costa de Amorim</i> ^b , <i>Peter J. Kelly</i> ^a ^a Manchester Metropolitan University, UK; ^b Universidade Federal de Minas Gerais, Brazil
17.10	O7	Highly stable and crystalline mesoporous anatase-TiO ₂ for photocatalytic CO ₂ reduction under high-purity conditions
		<u>Nikolaos G. Moustakas</u> ^a , <i>Aggeliki Papavasiliou</i> ^b , <i>Martin Dilla</i> ^c , <i>Niklas Cibura</i> ^c , <i>Tim Peppel</i> ^a , <i>Jennifer Strunk</i> ^a , <i>Fotios Katsaros</i> ^b ^a Leibniz-Institut für Katalyse Rostock, Germany; ^b National Center for Scientific Research Demokritos (NCSR D), Agia Paraskevi, Greece; ^c Max Planck Institute for Chemical Energy Conversion (MPI-CEC), Mülheim an der Ruhr, Germany
17.30		Poster Flash Talks (5 min), Posters A-01/A-12
18.30		Poster Session A with Happy Hour, ending at about 19.50

Thursday, 12 September 2019

09.00	PL2	Improving the Activity of Metal Oxides in Photocatalysis via Doping and Heterostructures: a Theoretical Perspective
		<u>Gianfranco PACCHIONI</u> University of Milano – Bicocca, Italy
09.40	O8	Effect of doping on the optical properties and photochemical behavior of metal oxide photocatalysts
		<u>Alexei Emeline^a</u> , Petr Murzin ^a , Leonid Shaitanov ^a , Vladimir Ryabchuk ^a , Aida Rudakova ^a , Detlef W. Bahnemann ^{a, b} ^a Saint-Petersburg State University, Russia; ^b Leibniz Universitaet Hannover, Germany
10.00	O9	Non-covalent functionalization of 2D black phosphorus and its applications
		<u>Margherita Bolognesi^a</u> , Salvatore Moschetto ^a , Marco Brucale ^a , Mariachiara Trapani ^a , Federico Prescimone ^a , Claudia Ferroni ^a , Gabriele Manca ^c , Andrea Ienco ^b , Silvia Borsacchi ^b , Maria Caporali ^b , Alessio Mezzi ^a , Wouter Koopman ^c , Michele Muccini ^a , Maurizio Peruzzini ^b , Manuel Serrano-Ruiz ^b , Lucia Calucci ^b , Maria Angela Castriciano ^a , Stefano Toffanin ^a ^a Consiglio Nazionale delle Ricerche (CNR), Bologna - Messina, Italy; ^b Consiglio Nazionale delle Ricerche (CNR), Sesto Fiorentino (Fi) - Pisa, Italy; ^c University of Potsdam, Potsdam-Golm, Germany
10.20	O10	Visible light absorption for photocatalysis by tin(II) incorporation into defect-pyrochlores
		<u>Morten Weiss^a</u> , Thomas Bredow ^b , Roland Marschall ^a ^a University of Bayreuth, Germany; ^b Rheinische Friedrich-Wilhelms-University Bonn, Germany
10.40	O11	Sustainable production of high value-added chemicals by citric acid-modified carbon nitride optical semiconductor
		<u>R.A. Fernandes^a</u> , M.J. Sampaio ^a , H. Boumeriame ^b , E.S. Da Silva ^a , J.L. Faria ^a , C.G. Silva ^a ^a Universidade do Porto, Portugal; ^b University Abdelmalek Essaadi, Tangier, Morocco
11.00	Coffee break	
11.30	KN2	Merging catalysis with photocatalysis - how can we profit from this combination?
		<u>Wojciech MACYK</u> Jagiellonian University, Kraków, Poland
12.00	O12	Kinetics of photocatalytic, self-cleaning surfaces: a decision tree approach for determination of reaction order
		<u>David Ollis</u> North Carolina State University, Raleigh, USA
12.20	O13	A holistic approach to model the kinetics of photocatalytic reactions
		<u>Jonathan Z. Bloh</u> DECHEMA-Forschungsinstitut, Frankfurt am Main, Germany
12.40	O14	A deeper insight into the surface photocatalytic processes on shape-engineered TiO ₂ nanoparticles by in situ spectroscopy
		<u>Lorenzo Mino^a</u> , Francesco Pellegrino ^a , Francesco Moriggi ^b , Michele Ceotto ^b , Giuseppe Spoto ^a , Valter Maurino ^a , Gianmario Martra ^a ^a University of Torino, Italy; ^b University of Milano, Italy
13.00	Lunch break + Poster Session A	

14.00	PL3	Charge carrier dynamics in photocatalysts and photoelectrodes for solar driven fuel synthesis
		<u>James R. DURRANT</u> Imperial College London & Swansea Uni, UK
14.40	O15	Highly concentrated CO evolution for photocatalytic conversion of CO ₂ by H ₂ O as an electron donor
		<u>Kentaro Teramura</u> , <u>Kazutaka Hori</u> , <u>Yudai Hasegaw</u> , <u>Yosuke Terao</u> , <u>Hiroyuki Tatsumi</u> , <u>Rui Pang</u> , <u>Zeai Huang</u> , <u>Shoji Iguchi</u> , <u>Zheng Wang</u> , <u>Hiroyuki Asakura</u> , <u>Saburo Hosokawa</u> , <u>Tsunehiro Tanaka</u> Kyoto University, Japan
15.00	O16	Photoelectrocatalytic production of imines
		<u>Francisco Fabregat-Santiago</u> , <u>Elena Mas-Marzá</u> , <u>Ramón Arcas-Martínez</u> , <u>Laxman Gouda</u> University Jaume I, Castelló de la Plana, Spain
15.20	O17	Increasing the (photo)catalytic activity of supported heteropolyacids for alcohol dehydration: the role of boron nitride, C ₃ N ₄ or TiO ₂ as supports
		<u>Giuseppe Marci</u> ^a , <u>Elisa I. García-López</u> ^a , <u>Francesca Rita Pomilla</u> ^b , <u>Farnaz Fazlali</u> ^{a,c} , <u>Aida Serrano</u> ^d , <u>Ali Reza Mahjoub</u> ^c , <u>Nadia F. Liotta</u> ^e , <u>Leonardo Palmisano</u> ^a ^a University of Palermo, Italy; ^b University of Calabria, Rende, Italy; ^c Tarbiat Modares University, Tehran, Iran; ^d Instituto de Cerámica y Vidrio (ICV), Madrid, Spain; ^e ISMN - CNR, Palermo, Italy
15.40	Coffee break	
16.10	KN3	Materials for Robust, Inexpensive and High Performance Photoelectrochemical Fuel Production
		<u>Kevin SIVULA</u> École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
16.40	O18	Photoelectrochemical synthesis of H ₂ O ₂ via O ₂ reduction using p-type CuBi ₂ O ₄ electrode
		<u>Teruhisa Ohno</u> , <u>Tomouki Tanaka</u> Kyushu Institute of Technology, Fukuoka, Japan
17.00	O19	Molecular and material engineering of photocathodes derivatized with polyoxometalate supported-{Mo ₃ S ₄ } HER catalysts
		<u>Bruno Fabre</u> ^a , <u>Jeoffrey Tourneur</u> ^a , <u>Gabriel Loget</u> ^a , <u>Emmanuel Cadot</u> ^b , <u>Nathalie Leclerc-Laronze</u> ^b , <u>Clément Falaise</u> ^b ^a Université de Rennes 1, CNRS, ISCR, France; ^b Université Paris-Saclay, Versailles, France
17.20	O20	Organosilane-functionalized TiO ₂ nanomaterials for water purification
		<u>Antoni W. Morawski</u> , <u>Agnieszka Wanag</u> , <u>Agnieszka Sienkiewicz</u> , <u>Paulina Rokicka-Konieczna</u> , <u>Ewelina Kusiak-Nejman</u> West Pomeranian University of Technology, Szczecin, Poland
17.40	Poster Flash Talks (5 min), Posters B-01/B-12	
18.40	Poster Session B with Happy Hour, ending at about 19.50	

Friday, 13 September 2019

09.00	PL4	Semiconductor Nanostructures for Light Energy Conversion. From Photocatalysis to Photovoltaics
		<u>Prashant V. KAMAT</u> University of Notre Dame, Indiana, USA
09.40	O21	Mesoporous TiO ₂ -based spheres with tunable size, phase, and interior for photoelectrochemical applications
		<u>Jia Hong Pan</u> North China Electronic Power University, Beijing, China
10.00	O22	Electron-selective electrode materials for photovoltaics
		<u>Ladislav Kavan</u> Academy of Sciences of the Czech Republic, Prague, Czech Republic
10.20	O23	Photocatalytic thin films based on zinc oxide – graphene derivatives
		<u>Anca Duta^a, Cristina Bogatu^a, Dana Perniu^a, Silvia Gheorghita^a, Cosmin Obreja^b, Octavian Buiu^b</u> ^a Research Centre: Renewable Energy Systems and Recycling, Brasov, Romania; ^b National Institute for Research and Development in Microtechnologies, IMT-Bucharest, Romania
10.40	O24	Low temperature/UV-assisted composites as gas sensors for medical applications
		<u>Eleonora Pargoletti^{a,b}, Antonio Tricoli^c, Gian Luca Chiarello^{a,b}, Giuseppe Cappelletti^{a,b}</u> ^a University of Milano, Italy; ^b INSTM, Firenze, Italy; ^c Australian National University, Canberra, Australia
11.00	Coffee break	
11.30	KN4	Unraveling carrier dynamics on photoelectrochemical water splitting with metal oxide semiconductors
		<u>Sixto GIMENEZ</u> Universitat Jaume I, Castelló, Spain
12.00	O25	Development of metal oxide electrodes for photoelectrochemical water splitting tandem cells
		<u>María I. Díez-García^a, Francisco J. Pastor^a, Ainhoa Cots^a, Maxime Contreras^a, Carmelo Lo Vecchio^b, Stefano Trocino^b, Teresa Lana-Villarreal^a, Antonino S. Arico^b, José M. Orts^a, Roberto Gómez^a</u> ^a Universitat d'Alacant, Alicante, Spain; ^b CNR-ITAE, Messina, Italy
12.20	O26	Microwave-assisted synthesis of bismuth niobate/tungsten oxide photoanodes for water splitting
		<u>Juliana S. Souza, Sibila A. A. Oliveira, Maria Kuznetsova</u> Universidade Federal do ABC, Santo André, Brazil
12.40	O27	Two-step water splitting under visible light by using polyoxometalate as shuttle redox mediator
		<u>Osamu Tomita^a, Hiroki Naito^a, Yukari Iwase^a, Kohei Tsuji^a, Akinobu Nakada^a, Masanobu Higashi^a, Ryu Abe^{a,b}</u> ^a Kyoto University, Japan; ^b JST-CREST, Tokyo, Japan
13.00	Lunch break + Poster Session B	

14.00	PL 5	Aliovalent Doping of Metal Oxide Photocatalysts for Solar Fuel Applications
		<u>Frank E. OSTERLOH</u> University of California, Davis, USA
14.40	O28	Strontium titanate for photocatalytic overall water splitting: doping, surface charges and co-catalysts
		<u>Bastian Meij</u> , Kai Han, Guido Mul, Shaoqiang Su, Igor Siretanu, Frieder Mugele University of Twente, Enschede, The Netherlands
15.00	O29	Fe(OH) ₂ /Ni(OH) ₂ deposition on BiVO ₄ photoanodes: an example on how to address the optimization of the amount of co-catalyst
		<u>Javier Quiñonero</u> , Teresa Lana-Villarreal, Roberto Gómez Universitat d'Alacant, Alicante, Spain
15.20	O30	Intrinsic Cu nanoparticle decoration of TiO ₂ nanotubes: a platform for efficient noble metal free photocatalytic H ₂ production
		<u>Seyedsina Hejazi</u> , Shiva Mohajernia, Patrik Schmuki University of Erlangen-Nuremberg, Germany
15.40	Coffee break	
16.10	KN5	Role of paramagnetic defects and charge carriers evolution in pure and modified semiconducting oxides
		<u>Stefano LIVRAGHI</u> University of Torino, Italy
16.40	O31	Number of reactive charge carriers — the link between band structure and performance of C ₃ N ₄ photocatalysts
		<u>Angelika Brückner^a</u> , Jiadong Xiao ^{a,b} , Qingzhen Han ^b , Hongbin Cao ^b , Jabor Rabeah ^a , Jin Yang ^b , Zhuang Guo ^b , Linbi Zhou ^b , Yongbing Xie ^b ^a University of Rostock, Germany; ^b Chinese Academy of Sciences, Beijing, China
17.00	O32	Solar powered photoreactor for water treatment
		<u>Sean O'Neill^a</u> , Yves Andres ^a , Florent Chazarenc ^b , Peter Robertson ^c , Valérie Héquet ^a ^a GEPEA, UMR 6144, CNRS, IMT Atlantique, Nantes, France; ^b Irstea, Villeurbanne, France; ^c Queen's University Belfast, UK
17.20	O33	Photocatalyst supported on industrial porcelain for antibacterial activity under led light: mechanistic considerations
		<u>Claudia L. Bianchi^a</u> , Giuseppina Cerrato ^b , Sami Rtimi ^c ^a University of Milano, Italy; ^b University of Torino, Italy; ^c Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland
17.40	Milano Centre Guided Sightseeing Tour	
20.30	Conference dinner Location: “I Chiostrì di San Barnaba” (www.ichiostrì.net) – Via S. Barnaba 48, 20122 Milano –	

Saturday, 14 September 2019

09.00	PL6	Design of Heterogeneous Photocatalysis Based on Energy-Resolved Distribution of Electron Traps: Novel Approach Beyond the Band-Structure Model
		<u>Bunsho OHTANI</u> Hokkaido University, Sapporo, Japan
09:40	O34	Photocatalytic hydrogen production on shape-controlled anatase TiO ₂ nanoparticles: assessment of the role of fluorides, {101}/{001} surfaces ratio and platinization
		<u>Francesco Pellegrino^a</u> , <u>Fabrizio Sordello^a</u> , <u>Lorenzo Mino^a</u> , <u>Claudio Minero^a</u> , <u>Vasile-Dan Hodoroaba^b</u> , <u>Gianmario Martra^a</u> , <u>Valter Maurino^a</u> ^a University of Torino, Italy; ^b Federal Institute for Materials Research and Testing (BAM), Berlin, Germany
10.00	O35	Transient changes in the FTIR spectra of photoactive materials at nanoseconds resolution as a tool for studying these materials
		<u>Yaron Paz</u> Technion - Israel Institute of Technology, Haifa, Israel
10.20	O36	Hydrothermally grown WO ₃ with a TiO ₂ adhesion underlayer
		<u>Stefano Caramori</u> , <u>Vito Cristino</u> , <u>Elena Spagnoli</u> University of Ferrara, Italy
10.40	O37	Innovative, 'light-to-hydrogen' vacuum processed all-solid multilayered membrane-electrodes assemblies
		<u>Stéphanie Roualdes^a</u> , <u>Adeline Miquelot^b</u> , <u>Christina Villeneuve-Faure^b</u> , <u>Nathalie Prud'homme^c</u> , <u>Jeremy Cure^b</u> , <u>Joelle Bassil^d</u> , <u>Olivier Debieu^b</u> , <u>Amr Nada^a</u> , <u>Laurène Youssef^{a,d}</u> , <u>Arnaud Joël Kinfack Leoga^a</u> , <u>Vincent Rouessac^a</u> , <u>Mirvat Zakhour^d</u> , <u>Michel Nakhil^d</u> , <u>Constantin Vahlas^b</u> ^a Université de Montpellier/ENSCM/CNRS, Montpellier, France; ^b Université de Toulouse, France; ^c Université Paris Sud/CNRS/Université Paris-Saclay, Orsay, France; ^d Université Libanaise, Beyrouth, Liban
11.00	Coffee break	
11.30	KN6	Coupling of light absorbers with catalysts for enhanced photo(electro)catalysis
		<u>Radim BERÁNEK</u> Ulm University, Germany
12.00	O38	Co ₃ O ₄ nanopetals on Si as photoanodes for the oxidation of organics
		<u>Gian Andrea Rizzi</u> , <u>Leonardo Girardi</u> , <u>Luca Bardini</u> , <u>Niccolò Michieli</u> , <u>Boris Kalinic</u> , <u>Chiara Maurizio</u> , <u>Giovanni Mattei</u> University of Padova, Italy
12.20	O39	Charge carrier dynamics in WO ₃ /BiVO ₄ heterojunction photoanodes
		<u>Ivan Grigioni^a</u> , <u>Maria Vittoria Dozzi^a</u> , <u>Lucia Ganzer^e</u> , <u>Franco V. A. Camargo^e</u> , <u>Prashant V. Kamat^b</u> , <u>Leif Hammarström^c</u> , <u>Benedetto Bozzini^d</u> , <u>Giulio Cerullo^e</u> , <u>Elena Selli^a</u> ^a University of Milano, Italy; ^b University of Notre Dame, Indiana, USA; ^c Uppsala University, Sweden; ^d University of Salento, Lecce, Italy; ^e Politecnico of Milano, Italy
12.40	O40	Nitrate radicals: night walkers in the light of photocatalysis
		<u>Francesco Parrino^a</u> , <u>Stefano Livraghi^b</u> , <u>Elio Giamello^b</u> , <u>Leonardo Palmisano^c</u> ^a University of Trento, Italy; ^b University of Torino, Italy; ^c University of Palermo, Italy
13.00	Final Remarks & SP8 presentation	

Flash Poster Talks A

Wednesday, 11 September 2019, 17.30 (and Poster Session A)

A-01	Development of photocatalytic reactor technology for the removal of organic environmental contaminants in water
	<i>Jamie Kelly, Nathan Skillen, Panagiotis Manesiotis, Peter Robertson</i> Queen's University Belfast, UK
A-02	TiO ₂ -based nanomaterials for photodynamic inactivation of resistant microbes
	<i>Janusz M. Dąbrowski, Adam Sułek, Barbara Pucelik, Joanna Kuncewicz, Grzegorz Dubin</i> Jagiellonian University, Kraków, Poland
A-03	Molybdenum doped copper tungstate for extended visible light induced photoelectrochemical water oxidation
	<i>Annalisa Polo, Chiara Nomellini, Ivan Grigioni, Maria Vittoria Dozzi, Elena Selli</i> University of Milano, Italy
A-04	A one-pot synthesis of multibranching Au/TiO ₂ hybrid nanoparticles under flow conditions: exploiting the plasmonic features for photocatalytic purposes
	<i>Filippo Bossola, Marcello Marelli, Vladimiro Dal Santo, Rinaldo Psaro, Laura Polito</i> CNR-Istituto di Scienze e Tecnologie Molecolari, Milano, Italy
A-05	Photoactivity of Nb doped rutile TiO ₂ at low concentrations
	<i>Petr D. Murzin^a, A. V. Laptchenkova^a, A.A. Murashkina^a, A. V. Emeline^a, D.W. Bahnemann^{a,b}</i> ^a Laboratory Photoactive Nanocomposite Materials SPbU, Russia; ^b Leibniz Universität, Hannover, Germany
A-06	Enhanced co-catalytic performance of group V elements for photocatalytic H ₂ O ₂ production
	<i>Zhenyuan Teng^a, Shi Nee Lou^a, Qitao Zhang^c, Chenying Wang^b, Teruhisa Ohno^a</i> ^a Kyushu Institute of Technology, Tobata, Japan; ^b Yangzhou University, China; ^c Shenzhen University, China
A-07	Investigation of the wettability changes of graphene oxide/TiO ₂ membranes upon UV activation
	<i>Morten E. Simonsen, Morten L. K. Pedersen, Thomas R. Jensen, Sergey. V. Kucheryavskiy</i> Aalborg University, Esbjerg, Denmark
A-08	Towards non-noble-metal oxide co-catalysts for photocatalytic water splitting reactions
	<i>Alexey Cherevan, Jasmin Schubert, Andreas Lechner, Greta Haselmann, Ariane Giesriegl, Tushar Gupta, Jia Wang, Sreejith Nandan, Dominik Eder</i> Vienna University of Technology (TU Wien), Austria
A-09	Doped tantalum(V) oxide nanostructures for photocatalytic chemical bond activation
	<i>Arno Kohlsdorf, Julia Möller, Dereje Hailu Taffa, Michael Wark</i> Carl von Ossietzky University Oldenburg, Germany
A-10	Two-dimensional electronic spectroscopy of CdSe nanorods
	<i>Franco V. A. Camargo^a, Tetsuhiko Nagahara^{a,b}, Yuval Ben-Shahar^c, Mattia Russo^a, Yossef E. Panfil^c, Uri Banin^c, Giulio Cerullo^a</i> ^a Politecnico di Milano, Italy; ^b Kyoto Institute of Technology, Kyoto, Japan; ^c Hebrew University of Jerusalem, Israel
A-11	Plasmonic Ag nanoparticles exsolved from lanthanum calcium titanate perovskite oxide: a new photocatalyst
	<i>Shreyasi Chattopadhyay, John T.S. Irvine</i> University of St. Andrews, Scotland, UK
A-12	Tuning of anatase-rutile phase composition of TiO ₂ nanoparticles in Ti(III)-peroxide systems

Kasidid Yaemsunthorn, Wojciech Macyk
Jagiellonian University, Kraków, Poland

Flash Poster Talks B

Thursday, 12 September 2019, 17.40 (and Poster Session B)

B-01	Kinetics and optimization of the photocatalytic synthesis of hydrogen peroxide
	<i>Bastien O. Burek^{a,b}, Detlef W. Bahnemann^{b,c}, Jonathan Z. Bloh^a</i> ^a DECHEMA Research Institute, Frankfurt am Main, Germany; ^b Leibniz University Hannover, Germany; ^c Saint-Petersburg State University, Russia
B-02	Interfacial charge transfer between excited CsPbBr ₃ nanocrystals and TiO ₂ : charge injection versus photodegradation
	<i>Rebecca A. Scheidt, Elisabeth Kerns, Prashant V. Kamat</i> University of Notre Dame, Indiana, USA
B-03	Theoretical investigation of ground and excited states of H ₂ O on ideal anatase-TiO ₂ (101)
	<i>Thorben Petersen, Thorsten Klüner</i> Carl von Ossietzky University Oldenburg, Germany
B-04	Thermo photo catalytic dehydrogenation of gaseous formic acid on Ru@TiO ₂ catalysts
	<i>Javier Ivanez^a, Patricia Garcia-Munoz^a, Agnieszka Ruppert^b, Nicolas Keller^a</i> ^a CNRS/University of Strasbourg, France; ^b Lodz University of Technology, Łódź, Poland
B-05	Light intensity induced photocurrent switching (LIIPS) in wide-bandgap semiconductors
	<i>Joanna Kuncewicz^a, Zbigniew Karkuszewski^b</i> ^a Jagiellonian University, Kraków, Poland; ^b Instytut Fotonowy Sp.zo.o., Kraków, Poland
B-06	H ₂ evolution from photo-reduced TiO ₂ nanostructures
	<i>Ewa Wierzbicka^a, Xuemei Zhou^a, Nikita Denisov^a, JeongEun Yoo^a, Dominik Fehn^a, Ning Liu^a, Karsten Meyer^a, Patrik Schmuki^{a,b,c}</i> ^a University of Erlangen-Nuremberg, Germany; ^b King Abdulaziz University, Jeddah, Saudi Arabia; ^c Palacky University, Olomouc, Czech Republic
B-07	Photocatalytic gas phase reduction of CO ₂ on high surface SrTiO ₃
	<i>Josefine P. Hildebrand^a, Marco Weers^a, Nikolaos G. Moustakas^b, Dereje H. Taffa^a, Jennifer Strunk^b, Michael Wark^a</i> ^a Carl von Ossietzky Universität Oldenburg, Germany; ^b Leibniz-Institut für Katalyse, Rostock, Germany
B-08	Upgrading photocatalytic H ₂ production with oxidative organic transformations
	<i>Amedeo Agosti^a, Yifat Nakibli^b, Mirko Natali^c, Lilac Amirav^b, Giacomo Bergamini^a</i> ^a University of Bologna, Italy; ^b Israel Institute of Technology, Haifa, Israel; ^c University of Ferrara, Italy
B-09	Enhancing photocatalytic hydrogen production by using different cellulose polymorphs
	<i>Nathan Skillen^a, Colby Chang^b, Kathryn Ralphs^a, Sanjay Nagarajan^a, Linda Lawton^c, Peter Robertson^a</i> ^a Queen's University Belfast, Northern Ireland, UK; ^b Princeton University, New Jersey, USA; ^c Robert Gordon University, Aberdeen, Scotland, UK
B-10	Development of Si based photoanodes for solar fuels applications
	<i>V. Smirnov, K. Welter, J. Kirchoff, F. Finger, T. Merdzhanova</i> IEK-5 Photovoltaik, Forschungszentrum Jülich, Germany
B-11	Role of heterojunction in coexposed anatase (001)-(101) surfaces
	<i>Giovanni Di Liberto, Sergio Tosoni, Gianfranco Pacchioni</i>

	University of Milano-Bicocca, Italy
B-12	How we can manipulate the photoinduced surface hydrophilicity
	<i>Aida Rudakova</i> Saint-Petersburg State University, Russia

Poster Session A

Wednesday, 11 September 2019, 18.30 – 19.50

A-13	ZnO loaded activated carbon (ZnO/AC-olive) for degradation of Congo Red in aqueous media: an ecofriendly carbon support prepared from algerian olive waste
	<i>Ala Abdessemed^{a,c}, Shivatharsiny Rasalingam^b, Kamel E. Djebbar^c, Sanna Abdessemed^a, Ranjit T. Koodali^d</i> ^a Biotechnology Research Centre, Ali Mendjeli, Algeria; ^b University of Jaffna, Sri Lanka; ^c University Mentouri Constantine, Chaabat Errassas, Algeria; ^d University of South Dakota, Vermillion, USA
A-14	Photocatalytic activity of immobilized nano-TiO ₂ in complex wastewaters: case study of multiple dye composition
	<i>U. Bellè, L. De Flaviis, M. Ormellese, M.V. Diamanti, M. Pedferri</i> Politecnico of Milano, Italy
A-15	Photocatalytic composite nanomaterial and engineering solution for inactivation of airborne bacteria
	<i>Igor Danilenko^a, Oksana Gorban^a, Paulo Miguel da Costa Zaragoza de Oliveira Pedro^b, Joao Viegas^c, Leonid Akhkozov^a, Tetyana Konstantinova^a, Svitlana Lyubchik^d</i> ^a Donetsk Institute for Physics and Engineering NAS of Ukraine, Kiev, Ukraine; ^b Centro de Empresas da Universidade do Algarve, Campus de Gambelas, Portugal; ^c Laboratorio Nacional de Engenharia Civil, Lisboa, Portugal; ^d NOVA ID FCT, Campus de Caparica, Portugal
A-16	Quantitative reactivity descriptors of TiO ₂ in photocatalytic CO ₂ reduction
	<i>Nikolaos. G. Moustakas^a, Martin Dilla^b, Enno Gent^c, Tim Peppel^a, Michael Wark^c, Simon Ristig^b, Jennifer Strunk^a</i> ^a Leibniz-Institut für Katalyse (LIKAT), Rostock, Germany; ^b Max Planck Institute for Chemical Energy Conversion (MPI-CEC), Mülheim an der Ruhr, Germany; ^c Carl von Ossietzky Universität Oldenburg, Germany
A-17	Photocatalytic composite thin films based on TiO ₂ , WO ₃ and rGO with controlled optical properties
	<i>Maria Covei, Dana Perniu, Cristina Bogatu, Anca Duta, Ion Visa</i> Transilvania University of Brasov, Romania
A-18	Vis-activation of titanium dioxide using a graphene oxide filler for photocatalytic applications
	<i>Ioana Tismanar^a, Alexandru Cosmin Obreja^b, Octavian Buiu^b, Anca Duta^a</i> ^a Transilvania University of Brasov, Romania; ^b National Institute for Research and Development in Microtechnologies, IMT-Bucharest, Romania
A-19	WO ₃ nanostructures produced by pulsed laser deposition for solar photocatalytic water remediation
	<i>Murilo Fendrich, Yaksh Popat, Michele Orlandi, Antonio Miotello</i> University of Trento, Italy
A-20	Structure and properties of Ag/ZnO-CeO ₂ photoactive composite: aspects of forming
	<i>Leonid Akhkozov^a, Oksana Gorban^a, Igor Danilenko^a, Galina Volkova^a, Anton Gorban^b, Sergii Tsololo^b, Tetyana Konstantinova^a, Svitlana Lyubchik^c</i>

	^a Donetsk Institute for Physics and Engineering of NAS of Ukraine, Kyiv, Ukraine; ^b Donetsk National Technical University, Pokrovsk, Ukraine; ^c NOVA ID FCT, Caparica, Portugal
A-21	Development and optimisation of photocatalytic technology for use in a novel photoelectrochemical reactor
	<i>Con Boyle, Nathan Skillen, Peter Robertson</i> Queen's University Belfast, Northern Ireland, UK
A-22	Stratified electrodes for corrosion protection of illuminated semiconductor/liquid junctions
	<i>Michael Neumann-Spallart, Tomáš Imrich, Josef Krýsa</i> University of Chemistry and Technology, Prague, Czech Republic
A-23	Photocatalytic properties of ZnO and Er-ZnO aerogels: effect of supercritical solvent on the degradation of methylene blue under UV and visible light irradiation
	<i>Fatiha Bedhouche^{a,b}, Ahcène Soualah^a, Djamel Djouadi^b</i> ^a Laboratoire de Physicochimie des Matériaux et Catalyse (LPCMC), Bejaia, Algeria ; ^b Laboratoire de Génie de l'Environnement (LGE), Bejaia, Algeria ; ^c Laboratoire de Génie de l'Environnement (LGE), Bejaia, Algeria
A-24	Hollow polymer dots: nature mimicking architecture for efficient photocatalytic hydrogen evolution
	<i>Aijie Liu^a, Cheuk-Wai Tai^b, Katerina Hola^a, Haining Tian^a</i> ^a Uppsala University, Sweden; ^b Stockholm University, Sweden
A-25	Degradation of naproxen using synthesized goethite-montmorillonite nanocomposite
	<i>Nessrine Sétifi, Nadra Debbache, Tahar Sehili, Ouahiba Halimi</i> ^a Université Frères Mentouri, Constantine 1, Algeria
A-26	Fe/Ni sulphide photocatalysts for solar-driven hydrogen production
	<i>David Tetzlaff^a, Christopher Simon^b, Demetra S. Achilleos^c, Mathias Smialkowski^a, Kai Junge Puring^{a,d}, André Bloesser^b, Stefan Piontek^a, Hatice Kasap^c, Daniel Siegmund^d, Erwin Reisner^c, Roland Marschall^b, Ulf-Peter Apfel^{a,d}</i> ^a Ruhr University Bochum, Germany; ^b University of Bayreuth, Germany; ^c University of Cambridge, UK; ^d Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT, Oberhausen, Germany
A-27	Tailoring layered oxide nanofibers for enhanced photocatalytic water splitting performance
	<i>André Bloesser, Anja Hofmann, Roland Marschall</i> University of Bayreuth, Germany
A-28	Single-crystal nanorods constructed ZnO inverse opal photonic crystal for highly enhanced and stable photocatalytic hydrogen performance
	<i>Jing Liu^a, Xusen Qin^a, Yu Li^a, Baolian Su^b</i> ^a Wuhan University of Technology, China; ^b University of Namur, Belgium
A-29	Selective oxidation of 2-hydroxybenzil alcohol in the presence of different TiO ₂ photocatalysts: influence of some physico-chemical features
	<i>Leonardo Palmisano^a, Melike Kalkan^b, Sedat Yurdakal^c, Vittorio Loddo^a, Marianna Bellardita^a</i> ^a University of Palermo, Italy; ^b Afyon Kocatepe Üniversitesi, Afyonkarahisar, Turkey; ^c Ankara University, Turkey
A-30	C ₃ N ₄ impregnated with metal-porphyrins for the selective photocatalytic oxidation of 5-hydroxymethyl-2-furfural
	<i>Giuseppe Marci^a, Elisa I. García-López^a, Francesca Rita Pomilla^b, Ermelinda Bloise^c, Giuseppe Mele^c, Leonardo Palmisano^a</i>

	^a University of Palermo, Italy; ^b University of Calabria, Rende, Italy; ^c University of Salento, Lecce, Italy
A-31	Active {110} and {111} faceted Cu ₂ O hollow nanospheres for unprecedented adsorption and visible-light degradation of high concentration pollutants
	<u>Wenbei Yu^{a,b}, Jing Liu^a, Yu Li^a, Baolian Su^{a,b,c}</u> ^a Wuhan, University of Technology, China; ^b University of Cambridge, UK; ^c University of Namur, Belgium
A-32	Graphene oxide – metal oxides nano-heterojunctions for low temperature sensing: an experimental and theoretical approach
	<u>Eleonora Pargoletti^{a,b}, Antonio Tricoli^c, Mario Italo Trioni^d, Mariangela Longhi^{a,b}, Gian Luca Chiarello^{a,b}, Giuseppe Cappelletti^{a,b}</u> ^a University of Milano, Italy; ^b INSTM, Firenze, Italy; ^c Australian National University, Canberra, Australia; ^d CNR – ISTM, Milano, Italy
A-33	Photocatalytic partial oxidation of 5-hydroxymethyl-2-furfural under UV and natural solar irradiation in aqueous suspension of potassium containing C ₃ N ₄
	<u>Giuseppe Marci^a, Elisa I. García-López^a, Filippo Saiano^a, Marina Ilkaeva^b, Leonardo Palmisano^a</u> ^a University of Palermo, Italy; ^b University of Oviedo, Spain
A-34	Effect of conduction band potential on cocatalyst-free plasmonic hydrogen evolution over gold particles loaded on strontium ion-doped cerium dioxide
	<u>Eri Fudo^a, Atsuhiko Tanaka^{a,b}, Hiroshi Kominami^a</u> ^a Kindai University, Osaka, Japan; ^b Japan Science and Technology Agency (JST), Kawaguchi, Japan
A-35	Preparation of gold particles loaded on titania particles plasmonic photocatalysts working under irradiation of visible light in the range of 600–700 nm
	<u>Atsuhiko Tanaka^{a,b}, Hiroshi Kominami^a</u> ^a Kindai University, Osaka, Japan; ^b Japan Science and Technology Agency (JST), Kawaguchi, Japan
A-36	Synthesis and characterization of magnesium ferrite nanoparticles for photocatalytic applications
	<u>André Bloesser, Roland Marschall</u> University of Bayreuth, Germany
A-37	Hydrothermal synthesis of copper vanadates nanobelts on FTO and their photoelectrochemical properties
	<u>Leonardo Girardi^a, Xiaochen Huai^{a,b}, Gian Andrea Rizzi^a, Carla Marega^a, Gaetano Granozzi^a</u> ^a University of Padova, Italy; ^b Tsinghua University, Beijing, China
A-38	Stable and controllable synthesis of oxygen-deficient tungsten oxide as a photoelectrode for dioxygen activation
	<u>Bupmo Kim^a, Wooyul Kim^b, Wonyong Choi^a</u> ^a Pohang University of Science and Technology (POSTECH), Korea; ^b Sookmyung Women's University, Seoul, Korea
A-39	CO ₂ reduction on silica supported titania
	<u>Moritz Lang, Marcus Klahn, Jennifer Strunk</u> Leibniz Institut für Katalyse, Rostock, Germany
A-40	Influence of illumination with UV/Vis-light on the sorption of CO ₂ on ZnO-based materials
	<u>Pawel Naliwajko, Tim Peppel, Jennifer Strunk</u> Leibniz Institute for Catalysis, Rostock, Germany
A-41	Deposition of TiO ₂ nanoparticles onto unconventional substrates for wastewater treatment

	<i>Massimo Dell'Edera^{a,b}, Francesca Petronella^b, Alessandra Truppi^b, Teresa Sibillano,^c Cinzia Giannini^c, Angela Agostiano^{a,b}, Maria Lucia Curri^{a,b}, Roberto Comparelli^b</i> University of Bari, Italy; ^b CNR-IPCF, Bari, Italy; ^c CNR-IC, Bari, Italy
A-42	Heterogeneous photodegradation of aspirin with goethite and oxalic acid under UV illumination
	<i>Mameri Yazid^{a,b}, Debbache Nadra^b, Ghoul Imen^b, Sehili Tahar^b</i> ^a Université de Consatantine 03, Algérie; ^b Université de Constantine 01, Algérie
A-43	Anodic TiO ₂ nanotube layers: upscale and tailoring
	<i>Martin Motola^a, Hanna Sopa^{a,b}, Miloš Krbal^a, Jan M. Macak^{a,b}</i> ^a University of Pardubice, Czech Republic; ^b Brno University of Technology, Czech Republic
A-44	UV-induced synthesis of polyaniline-TiO ₂ hybrids: a mechanistic study
	<i>C. Cionti^{a,b}, E. Falletta^{a,c}, D. Meroni^{a,b}, C. Della Pina^{a,c}, S. Ardizzone^{a,b}</i> ^a University of Milano, Italy; ^b Consorzio INSTM, Florence, Italy; ^c ISTM-CNR, Milan, Italy
A-45	Histidine decorated nanoparticles of cadmium sulfide for highly efficient hydrogen production via water splitting
	<i>Bashir Ahmmad, Fumiya Tojo, Shigeru Kubota, Fumihiko Hirose</i> Yamagata University, Yonezawa, Japan
A-46	Metal doping and co-catalysis to enhance the photoelectrochemical behavior of NdFeO ₃ photocathodes
	<i>Javier Quiñonero, Roberto Gómez</i> Universitat d'Alacant, Alicante, Spain
A-47	Photocatalytic conversion of nitrate to dinitrogen on titanium dioxide modified with reduced graphene oxide and bimetallic cocatalyst
	<i>Shinbi Lee, Wonyong Choi</i> Pohang University of Science and Engineering (POSTECH), Korea
A-48	Porous TiO ₂ films with high photoelectrochemical activity obtained by plasma electrolytic oxidation
	<i>Silvia Franz^a, Hamed Arab^a, Gian Luca Chiarello^b, Elena Selli^b, Massimiliano Bestetti^a</i> ^a Politecnico of Milano, Italy; ^b University of Milano, Italy
A-49	Photocatalytic degradation of methylene blue in a continuous fixed bed photoreactor
	<i>Diana Sannino, Olga Sacco, Vincenzo Vaiano</i> University of Salerno, Italy
A-50	Semiconducting p-type copper iron dioxide thin films deposited by hybrid HiPIMS+ECWR plasma system
	<i>Zdeněk Hubička^a, Martin Zlámal^b, Martin Čada^a, Jiří Olejníček^a, Josef Krýsa^b</i> ^a Institute of Physics CAS, Prague, Czech Republic; ^b University of Chemistry and Technology, Prague, Czech Republic
A-51	Exploring new aluminium oxide spinels for water splitting: theory and experiment
	<i>María I. Díez-García, Maxime Contreras, Francisco J. Pastor, Teresa Lana-Villarreal, José M. Orts, Roberto Gómez</i> Universitat d'Alacant, Alicante, Spain
A-52	Photoactive TiO ₂ films with controlled porosity for the preparation of innovative devices
	<i>Tommaso Taroni^{a,b}, Silvia Lombardi^a, Valentina Pifferi^{a,b}, Luigi Falciola^{a,b}, Valentina Sabatini^{a,b,c}, Daniela Meroni^{a,b}, Silvia Ardizzone^{a,b,c}</i> ^a University of Milano, Italy; ^b Consorzio INSTM, Florence, Italy; ^c CRC Materials & Polymers (LaMPo), University of Milano, Italy

A-53	Tungsten trioxide photoanodes fabricated by wetcoating
	<i>Petr Dzik, Michal Veselý, Helena Hesková</i> Brno University of Technology, Czech Republic
A-54	QuinoLight – development of photocatalytic processes
	<i>Julia Patzsch^a, Fabian Guba^b, Andre Blößer^c, Jana Timm^c, Dirk Ziegenbalg^b, Roland Marschall^c, Jonathan Z. Bloh^a</i> ^a DECHEMA-Forschungsinstitut, Frankfurt am Main, Germany; ^b Ulm University, Germany; ^c University of Bayreuth, Germany
A-55	Mesoporous TiO ₂ thin films with pulse plated plasmonic gold nanoparticles
	<i>Enno Gent, Michael Wark</i> Carl von Ossietzky University of Oldenburg, Germany
A-56	A novel and thorough screening method for quantifying reactive oxygen species and identifying their individual roles during photocatalysis
	<i>Clare Rice, Xinzhu Pang, Nathan Skillen, Trevor Whittaker, Peter Robertson</i> Queen's University, Belfast, Northern Ireland, UK
A-57	Interface Engineering of the Photoelectrochemical Performance of Cobalt Oxide Coated n-Si Photoanodes by Adopting Stoichiometric SiO ₂ Protection Layer
	<i>Haojie Zhang^a, Stefan L. Schweizer^a, A. Wouter Maijenburg^a, Ralf B. Wehrspohn^{a,b}</i> ^a Martin Luther University Halle-Wittenberg, Germany; ^b Fraunhofer Institute for Microstructure of Materials and Systems (IMWS), Halle (Saale), Germany

Poster Session B

Thursday, 12 September 2019, 18.40 – 19.50

B-13	Photocatalytic mineralization and disinfection of simulated medical wastewater
	<i>Chrysanthi Berberidou, Vasiliki Kitsiou, Sophia Tsoumachidou, Ioannis Poullos</i> Aristotle University of Thessaloniki, Greece
B-14	All in one photo-reactor pod for continuous destruction of cyanotoxins in water
	<i>Nimal Gunaratne^a, Nathan Skillen^a, Carlos Pestana^c, Jianing Hui^b, John Irvine^b, Linda Lawton^c, Peter Robertson^a</i> ^a School of Chemistry and Chemical Engineering, Belfast, UK; ^b University of St Andrews, UK; ^c Robert Gordon University, Aberdeen, UK
B-15	Rapid screening of photoelectrode materials by scanning electrochemical microscopy with a bifunctional tip
	<i>Ziwen Zhao, Alessandro Minguzzi, Alberto Vertova, Sandra Rondinini</i> University of Milano, Italy
B-16	CuGaSe ₂ /CuGa ₃ Se ₅ thin films as a photocathodes for photoelectrochemical water splitting
	<i>Behzad Mahmoudi, Francesco Caddeo, Titus Lindenberg, Setareh Zahedi-Azad, Thomas Schneider, Roland Scheer, A. Wouter Maijenburg</i> Martin Luther University Halle Wittenberg, Germany
B-17	Photocatalytic reduction and scavenging of Hg(II) over templated-dewetted Au on TiO ₂ nanotubes
	<i>Davide Spanu^a, Marco Altomare^b, Patrik Schmuki^b, Sandro Recchia^a</i> ^a University of Insubria, Como, Italy; ^b University of Erlangen-Nuremberg, Germany
B-18	Integrating NanoMOFs on photo-electrocatalytic devices
	<i>Francesco Caddeo, Denis Eberhart, Ana Maria Araujo-Cordero, Behzad Mahmoudi-Alibeiglou, A. Wouter Maijenburg</i>

	Martin-Luther-University Halle-Wittenberg, Germany
B-19	Metal/oxide photoactive composite based ZnO: aspects of formation
	<i>Oksana Gorban^a, Igor Danilenko^a, Galina Volkova^a, Sergii Gorban^a, Iryna Bryukhanova^a, Tatyana Doroschenko^a, Oleg Viagin^a, Tetyana Konstantinova^a, Svitlana Lyubchik^b</i> ^a NAS of Ukraine, Kyiv, Ukraine; ^b NOVA ID FCT, Caparica, Portugal
B-20	Layer-by-layer self-assembled plasmonic Ag@TiO ₂ hybrid nanoscale thin films for enhanced UV-A photocatalysis
	<i>Marvin Motay^a, Charline Soraru^b, Christophe Colbeau-Justin^c, Lydie Ploux^b, Lavinia Balan^b, Gero Decher^a, Nicolas Keller^a</i> ^a CNRS/University of Strasbourg, France; ^b CNRS/Haute-Alsace University, Mulhouse, France; ^c CNRS/Université Paris-Sud/Université Paris-Saclay, Orsay, France
B-21	PEC-GC-coupled in-situ analysis of 3D-nanowire networks for photoelectrochemical water splitting
	<i>Titus Lindenberger, Annik Bernhardt, A. Wouter Maijenburg</i> Martin Luther University Halle-Wittenberg, Germany
B-22	Study of photoelectrochemical properties of lithium manganese oxides in order to assist charging lithium-ion batteries
	<i>Chayopas Tupberg, John T.S. Irvine</i> University of St. Andrews, UK
B-23	Conductive Cu doped TiO ₂ nanotubes for enhanced photoelectrochemical methanol oxidation and concomitant hydrogen generation
	<i>Seyedsina Hejazi, Shiva Mohajernia, Patrik Schmuki</i> University of Erlangen-Nuremberg, Erlangen, Germany
B-24	Hybrid catalysts based on TiO ₂ for CO ₂ reduction, water splitting and VOC degradation
	<i>Nejc Rozman^a, Peter Nadrah^a, Marjan Bele^b, Goran Dražič^b, Bruno Joussetme^c, Miran Gaberšček^b, Andrijana Sever Škapin^a</i> ^a Slovenian National Building and Civil Engineering Institute, Ljubljana, Slovenia; ^b National Institute of Chemistry, Ljubljana, Slovenia; ^c LICSEN, NIMBE, CEA, CNRS, Université Paris-Saclay, CEA Saclay, France
B-25	Hydrogen evolution from alcohol over copper species modified tungsten(VI) oxide photocatalyst under visible light irradiation
	<i>Kazuki Hayami^a, Atsuhiko Tanaka^{a,b}, Hiroshi Kominami^a</i> ^a Kindai University, Osaka, Japan; ^b Japan Science and Technology Agency (JST), Kawaguchi, Japan
B-26	Rapid semihydrogenation of alkynes over titanium(IV) oxide photocatalyst having palladium core-copper shell co-catalyst nanoparticles
	<i>Shota Imai^a, Kousuke Nakanishi^a, Atsuhiko Tanaka^{a,b}, Hiroshi Kominami^a</i> ^a Kindai University, Osaka, Japan; ^b Japan Science and Technology Agency (JST), Kawaguchi, Japan
B-27	The investigation of the role of H ₂ O ₂ in the photocatalytic degradation of coumarin using TiO ₂
	<i>Xinzhu Pang, Clare Rice, Nathan Skillen, David Rooney, Peter Robertson</i> Queens University Belfast, UK
B-28	Homogeneous photocatalytic treatment and ecotoxicity evaluation of medical wastewater under artificial and solar irradiation
	<i>Vasiliki Kitsiou, Sofia Tsoumachidou, Chrysanthi Berberidou, Ioannis Poullos</i> Aristotle University of Thessaloniki, Greece
B-29	Doped graphitic carbon nitride for photocatalytic reactions in gaseous and liquid phase

	<i>Petr Praus^{a,b}, Aneta Smýkalová^a, Marcel Šihor^a, Vlastimil Matějka^a, Kamila Kočí^a, Michal Baudys^c, Šárka Paušová^c, Josef Krýsa^c</i> ^a VŠB-Technical University of Ostrava, Ostrava-Poruba, Czech Republic; ^b University of Chemistry and Technology, Prague, Czech Republic
B-30	Degradation of Orange G by heterogeneous advanced oxidation processes in aqueous solution
	<i>Chiha Mahdj, Chamekh Hayet, Ahmedchekkat Fatiha</i> University of 20 Août 1955-Skikda, Algeria
B-31	Sonophotocatalytic degradation of endocrine disrupting chemical 4-cumylphenol in the presence of inorganic oxidant species in aqueous solution
	<i>Chiha Mahdj, Ahmedchekkat Fatiha</i> University of 20 Août 1955-Skikda, Algeria
B-32	Upconverting nanoparticles for the NIR-driven photocatalysis
	<i>Agnieszka Jarosz, Paulina Majewska, Joanna Kuncewicz, Przemysław Łabuz, Wojciech Macyk</i> Jagiellonian University, Kraków, Poland
B-33	Titania inverse opals for photocatalytic applications
	<i>Paulina Majewska, Joanna Kuncewicz, Wojciech Macyk</i> Jagiellonian University, Kraków, Poland
B-34	Photocatalytic mineralization of simulated medical wastewater. Oxidation kinetics, toxicity evaluation, phytotoxicity assessment
	<i>Sophia Tsoumachidou, Chrysanthi Berberidou, Vasiliki Kitsiou, Ioannis Poulios</i> Aristotle University of Thessaloniki, Greece
B-35	Electroassisted photocatalysis for water disinfection
	<i>Mária Veselá, Petr Dzik, Michal Veselý</i> Brno University of Technology, Czech Republic
B-36	Printing of titanium dioxide layers – upscaling to roll-to-roll
	<i>Michal Veselý, Petr Dzik, Mária Veselá, Kateřina Sýkorová, Tomáš Svoboda</i> Brno University of Technology, Czech Republic
B-37	Photocatalytic hydrogen production from water-methanol solution over F/La/TiO ₂ photocatalysts
	<i>Kamila Kočí^a, Miroslava Edelmannová^a, Martin Reli^a, Lada Dubnová^b, Piotr Kuśtrowski^c, Helena Drobná^b, Libor Čapek^b</i> ^a VŠB-Technical University of Ostrava, Ostrava-Poruba, Czech Republic; ^b University of Pardubice, Czech Republic; ^c Jagiellonian University, Kraków, Poland
B-38	CuBi ₂ O ₄ Nanofiber Photocathodes made by Electrospinning via Sol-Gel Chemistry
	<i>Denis Eberhart, A. Wouter Maijenburg</i> ZIK SiLi-nano/MLU Halle-Wittenberg, Halle, Germany
B-39	Multiple Emissions and Room Temperature Ultralong Phosphorescence from Cyclic Triimidazole Derivatives
	<i>Andrea Previtali^a, Daniele Malpicci^a, Elena Lucenti^c, Alessandra Forni^c, Chiara Botta^b, Lucia Carlucci^a, Clelia Giannini^a, Daniele Marinotto^c, Stefania Righetto^a, Elena Cariani^a</i> ^a University of Milano and INSTM, Italy; ^b ISMAC-CNR and INSTM, Milano, Italy; ^c ISTM-CNR and INSTM, Milano, Italy
B-40	Effects of TiO ₂ morphology, Au nanoparticles deposition and in situ surface fluorination on photocatalytic reactions

	<i>Maria Vittoria Dozzi, Marco Montalbano, Michela Carsaniga, Elena Selli</i> University of Milano, Italy
B-41	Titanium oxide nanotube arrays modified by conjugated polymers for photocatalytic application
	<i>Marek P. Kobylanski, Natalia Kujawa, Adriana Zaleska-Medynska</i> University of Gdansk, Poland
B-42	Coated wireless light emitters to scale-up photo processes
	<i>Hong Thu Duong^a, Bastien O. Burek^{a,b}, Detlef W. Bahnemann^{b,c}, Jonathan Z. Bloh^a</i> ^a DECHEMA Research Institute, Frankfurt am Main, Germany; ^b Gottfried Wilhelm Leibniz University, Hannover, Germany; ^c Saint-Petersburg State University, Russia
B-43	The role of N-sites on the photocatalytic behaviour of N-La-TiO ₂ photocatalysts
	<i>Lada Dubnová^a, Vendula Meinhardová^a, Miroslava Edelmannová^b, Helena Drobná^a, Martin Reli^b, Piotr Kuśtrowski^c, Kamila Koč^b, Libor Čapek^a</i> ^a University of Pardubice, Czech Republic; ^b VŠB-Technical University of Ostrava, Ostrava-Poruba, Czech Republic; ^c Jagiellonian University, Kraków, Poland
B-44	The potential of water splitting under presence of sacrificial agents
	<i>Vendula Meinhardová^a, Lada Dubnová^a, Daniel Kouba^a, Miroslava Edelmannová^b, Helena Drobná^a, Kamila Koč^b, Libor Čapek^a</i> ^a University of Pardubice, Czech Republic; ^b VŠB-Technical University of Ostrava, Ostrava-Poruba, Czech Republic
B-45	Enhanced photocatalytic properties of titanium dioxide nanotubes prepared in one-step anodization with ionic liquid
	<i>Anna Pancielejko^a, Paweł Mazierski^b, Adrianna Zaleska-Medynska^b, Justyna Łuczak^a</i> ^a Gdansk University of Technology, Poland; ^b University of Gdansk, Poland
B-46	SrTiO ₃ as a semiconductor material for photocatalytic hydrogen generation
	<i>Julia Zwara^a, Marta Paszkiewicz-Gawron^a, Justyna Łuczak^b, Anna Pancielejko^b, Wojciech Lisowski^c, Adriana Zaleska-Medynska^a, Ewelina Grabowska^a, Magdalena Miodyńska^a</i> ^a University of Gdansk, Poland; ^b Gdansk University of Technology, Poland; ^c Institute of Physical Chemistry of the Polish Academy of Sciences, Warsaw, Poland
B-47	Metal halide perovskite quantum dots – synthesis and photoactivity
	<i>Magdalena Miodyńska, Beata Bajorowicz, Adriana Zaleska-Medynska, Julia Zwara</i> University of Gdansk, Poland
B-48	Photoactivity of TiO ₂ /ZIF-8 Binary Nanocomposite under Stimulated UV-light
	<i>A. Neren Ökte, Duygu Tuncel</i> Bogazici University, Istanbul, Turkey
B-49	ZnO modified eggshell derived hydroxyapatite composites
	<i>Duygu Tuncel, A. Neren Ökte</i> Bogazici University, Istanbul, Turkey
B-50	Photorechargeable batteries: 3DOM-perovskite@selenium photoanode
	<i>Taymaz Tabari^a, Mehdi Ebadi^b, Wojciech Macyk^a, Joanna Kuncewicz^a, Davoud Beiknejad^b, Dheerendra Singh^c</i> ^a Jagiellonian University, Kraków, Poland; ^b Azad Islamic University, Gorgan, Iran; ^c Indian Institute of Technology Bombay, Mumbai, India
B-51	Design of hybrid dye/colloidal nanocrystal composites for energy and charge transfer processes

	<p><i>Leonardo Triggiani^a, Annamaria Panniello^a, Carlo Nazareno Dibenedetto^{a,b}, Elisabetta Fanizza^{a,b}, Chiara Ingrosso^a, Mariachiara Trapani^c, Massimiliano Cordaro^d, Maria Angela Castriciano^c, Elisabetta Collini^e, Raffaele Tommasi^{b,a}, Angela Agostiano^{a,b}, Maria Lucia Curri^{a,b}, Marinella Striccoli^a</i></p> <p>^a CNR-IPCF S.S. Bari, University of Bari, Italy; ^b University of Bari, Italy; ^c CNR-ISMN, University of Messina, Italy; ^d University of Messina, Italy; ^e University of Padova, Italy</p>
B-52	Design, construction and optimization of a mobile photocatalytic reactor
	<p><i>Erasmia Bizani^a, Christophoros Christophoridis^b, Anastasia Hiskia^b</i></p> <p>^a National and Kapodistrian University of Athens, Greece; ^b National Center of Scientific Research "Demokritos", Athens, Greece</p>
B-53	Performance of a TiO ₂ mobile photocatalytic reactor in the treatment of different types of water and wastewater
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B-54	The relationship between ionic liquid structure and its stability during solvothermal synthesis of TiO ₂ microparticles: combined experimental and theoretical study
	<p><i>Justyna Łuczak^a, Anna Rybińska-Fryca^b, Alicja Mikolajczyk^b, Marta Paszkiewicz-Gawron^b, Adriana Zaleska-Medynska^b, Monika Paszkiewicz^b, Tomasz Puzyn^b</i></p> <p>^a Gdansk University of Technology, Poland; ^b University of Gdansk, Poland</p>