

Poster Session 1 Thursday 26 June, 2014

Persistent and emerging contaminants

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12	PC-1-2	<i>Yingtian Yu, Danna Zhou and Feng Wu</i>	Photolysis of hexabromocyclododecane in acetonitrile-water solutions under UV lamp
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50	PC-1-12	<i>Ibrahim Abdelfattah, Adel Ismail, Lars Robben and D. Bahnemann</i>	Photocatalytic degradation of imazapyr using mesoporous Al ₂ O ₃ doped TiO ₂ nanocomposites
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165	PC-1-35	Ana Rey, Diego H. Quiñones, Pedro M. Álvarez, Fernando J. Beltrán and Gianluca Li Puma	Synthesis of a B-doped TiO ₂ photocatalyst for the removal of selected pesticides in laboratory waters by solar photocatalytic ozonation
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188	PC-1-42	Nina Finčur, Vesna Despotović, Daniela Šojić, Dejan Orčić and Biljana Abramović	Kinetics and mechanism of photodegradation of the herbicide clomazone using UV/TiO ₂
197	PC-1-43	José L Casas López, Gracia Rivas Ibáñez, Belen Esteban García and José Antonio Sánchez Pérez	Effect of pH and TIC concentration on micropollutant removal cost by Fenton-like processes
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209	PC-1-46	<i>Bernardi Bayarri Ferrer, Rodrigo Pereira Cavalcante, Renato Falcao Dantas, Oscar González, Jaime Giménez, Santiago Esplugas and Amilcar Machulek Junior</i>	Synthesis and characterization of B-doped TiO ₂ and their performance for the degradation of Metoprolol
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301	PC-1-61	<i>W. -L. Wang, Q. -y. Wu, Z. -M. Wang, H. -y. Hu, N. Negishi and M. Torimura</i>	Photocatalytic degradation of an antiviral drug TAMIFLU® by UV-A/TiO ₂
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330	PC-1-68	<i>Evgenia Deletze, Apostolos Antoniadis, Ioannis Poullos, Evanthia Kostopoulou, Igor Cretescu and Doina Lutic</i>	Photocatalytic oxidation of nuclear fast red

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357	PC-1-75	<i>I. Carra, J. A. Sánchez Pérez, S. Malato, O. Autin, B. Jefferson, P. Jarvis</i>	Micropollutant Removal by Photo-Fenton Using UVC-LED
358	PC-1-76	<i>Z. Frontistis, E. Hapeshi, D. Fatta-Kassinos, D. Mantzavinos</i>	Ultraviolet-activated persulfate oxidation of methyl orange: A comparison between neural networks and factorial design for process modelling
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Disinfection

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218	PC-1-83	<i>Cristina Adán, Javier Marugán, Patricia Misis, Cristina Pablos and Rafael van Grieken</i>	Photoelectrocatalytic activity of titanium dioxide nanotubes electrodes for metanol degradation and <i>Escherichia coli</i> inactivation.
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246	PC-1-87	<i>Marisol Daniela Labas, Maria Eugenia Martinez Retamar and Rodolfo Juan Brandi</i>	Modelling and experimental verification of a UV photoreactor for inactivation of airborne microorganisms using computational fluid dynamics
277	PC-1-88	<i>Dimitris Tsoukleris, Christina Fratti, Claus Barholm-Hansen, Anette Alsted Rasmussen and Evangelia Pavlatou</i>	Doped titania nanopowders with photocatalytic and antimicrobial properties under visible light irradiation

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295	PC-1-90	Danae Venieri, Antonia Fragedaki, Vasilis Binas, Apostolos Zachopoulos, George Kiriakidis and Dionissios Mantzavinos	Solar photocatalysis and metal-doped TiO ₂ : Elimination of <i>Klebsiella pneumoniae</i> in water & study of generated genetic polymorphisms

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Synthesis, characterization and testing of photocatalysts

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39	PC-2-3	G. Kuzmicheva, E.Savinkina, L.Obolenskaya, Y. Zubavichus, V.Murzin, V.Podbelskiy	Photocatalytic degradation of organic dye by nanosized titanium dioxide with anatase and η-modifications sensitized with Manganese
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85	PC-2-11	Michaela Slušná, Vaclav Stengl, Darina Schelonka, Petr Vomacka, Jakub Tolasz, Petra Ecorchard and Jiri Henych	Sn ²⁺ and Sn ⁴⁺ doped ZnO rice - like nanoparticles for the photocatalytic applications
90	PC-2-12	Duygu Tuncel, Ayşe Hazal Pekcan, Taner Özden and Ayşe Neren ökte	Photoactivity of ZnO-sepiolite nanocomposites
94	PC-2-13	Ayşe Neren Ökte, Duygu Tuncel, Ayşe Hazal Pekcan and Taner Özden	ZnO-fly ash-sepiolite catalysts: Decolorization of methyl orange and water vapor adsorption studies
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111	PC-2-15	Stepan Kment, Zdenek Hubicka, Josef Krysa, Jiri Olejnicek, Martin Cada, Martin Zlamal and Radek Zboril	On the improvement of PEC Activity of hematite thin films deposited by high-power pulsed magnetron sputtering method
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118	PC-2-17	Nadiye Duyar, Bircan Haspulat and Handan Gülce	Electrochemical deposition and photocatalytic application of Ag/ZnO films
120	PC-2-18	Taner Özden, Ayşe Neren Ökte, Ayşe Hazal Pekcan and Duygu Tuncel	ZnO supported ZSM-5 Catalysts: Characterization and activity investigation

122	PC-2-19	<i>Petr Vomáčka, Václav Štengl, Michaela Slušná and Jiří Henych</i>	TiO ₂ -CuSe nanocomposite and its photocatalytic performance
123	PC-2-20	<i>Bircan Haspulat, Handan Gülce and Ahmet Gülce</i>	Electrochemical production and photocatalytic activity of Ag doped polyaniline films
124	PC-2-21	<i>Nadezhda Glazkova, Alexei Emeline, Vyacheslav Kuznetsov, Ruslan Mikhaylov, Vladimir Ryabchuk and Nick Serpone</i>	Solar absorption of titania thermochemically fabricated from titanium and its alloys. UV and visible light induced photochromism of yellow titania
125	PC-2-22	<i>Nadezhda Glazkova, Vyacheslav Kuznetsov, Ruslan Mikhaylov and Nick Serpone</i>	Novel accessory for the Cary Eclipse fluorescence spectrophotometer for kinetic studies of the photophysical properties in photochromic materials
126	PC-2-23	<i>Zuzana Barbieriková, Miroslava Bobeničová, Dana Dvoranová, Vlasta Brezová, Maria-Veronica Sofianou and Christos Trapalis</i>	Photoactivity of TiO ₂ nanocrystals with exposed {001} facets: Reactive paramagnetic intermediates formation followed by EPR spectroscopy
133	PC-2-24	<i>Susann Neubert, Petra Pulisova, Christian Wiktor, Philipp Weide, Bastian Mei and Radim Beranek</i>	Interface engineering for enhanced photocatalysis: Surface modification with redox co-catalysts
138	PC-2-25	<i>Evangelia Vasilaki, Maria Kaliva, Dimitra Vernardou, Irene Georgaki, Dimitrios Konios, Emmanuel Kymakis, Maria Vamvakaki and Nikos Katsarakis</i>	Noble metal doped and reduced graphene oxide coupled photocatalysts for enhanced visible-light activity
139	PC-2-26	<i>Susann Neubert, Ayyappan Ramakrishnan, Bastian Mei, Jennifer Strunk, Lidong Wang, Max Kauer, Yuemin Wang and Radim Beranek</i>	Surface-modified TiO ₂ photocatalysts prepared by a photosynthetic route
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361 **PC-3-28** *Elena Rommozzi, Chiara Anna D'amato, Marco Zannotti, Rita Giovannetti and Stefano Ferraro*

Kinetic model for photocatalytic degradation of alizarin red-s by polypropylene coated nano-TiO₂

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224	PC-3-49	Vincenzo Vaiano, Giuseppe Sarno, Diana Sannino and Paolo Ciambelli	Photocatalytic properties of N-TiO ₂ functionalized tiles: Influence of ceramic substrate
233	PC-3-50	Polycarpus Falaras, Nikolaos Moustakas, Evangelia Papalexandratou, Athanassios Kontos, Georgios Vlachos, Alexandra Sotiropoulou, Sotirios Tsvivilis and Konstantinos Aspiotis	Use of photocatalytic cement for the development of self-cleaning construction materials
235	PC-3-51	F. Alejandro Hernández-García, Gerardo Torres-Delgado, Rebeca Castanedo-Pérez, Cyntia Ivett Zúñiga-Romero, Joaquín Márquez-Marín and Orlando Zelaya-Ángel	Photodegradation of gaseous C ₆ H ₆ using CdO+CdTiO ₃ and TiO ₂ thin films obtained by sol-gel.
249	PC-3-52	Dimitris Tsoukleris, Vassilis Binas, George Kiriakidis, Apostolis Zachopoulos and Evangelia Pavlatou	Photocatalytic degradations of acetaldehyde on doped TiO ₂ embedded glass spherules
263	PC-3-53	Luís Pinho, Chrisi Kapridaki, Pagona Maravelaki and María J. Mosquera	SiO ₂ -crystalline TiO ₂ photoactive and hydrophobic nanocomposites with application as self-cleaning coatings on buildings
272	PC-3-54	Minoo Tasbihi, Anja Soklic, Marko Kete, Fernando Fresno and Urska Lavrencic Stangar	Deposition and possible influence of a self-cleaning thin TiO ₂ -SiO ₂ film on a photovoltaic module efficiency
297	PC-3-55	Chung-Hsuang Hung and Ching Yuan	Enhanced photocatalysis of MtBE by carbon doped TiO ₂ /ITO composite thin-film photocatalysts irradiated with visible light
314	PC-3-56	Stepan Lorencik, Qingliang Yu and H.J.H. Brouwers	Design and performance evaluation of the functional coating for air purification in indoor environment
315	PC-3-57	Beata Tryba, Piotr Homa and Antoni Morawski	Influence of potassium on the activity of the photocatalytic paint for decomposition of benzo-[a]-pyrene
319	PC-3-58	Qingliang Yu, R.S Pelzers, M.G.L.C. Loomans and H.J.H. Brouwers	CFD Room modelling of photocatalytic oxidation of NO _x under indoor environment
334	PC-3-59	Adriana Zaleska, Cybula Anna, Martyna Marchelek, Beata Bajorowicz, Paweł Mazierski and Tomasz Klimczuk	KTaO ₃ -based nanocomposites for air treatment
349	PC-3-60	Michaela Jakubičková, Alice Břečková, Tereza Sázkavská, Alena Ševců and František Peterka	Evaluation of novel photoactive composite materials by ISO standard methods

Water splitting/Hydrogen production

Paper ID	PC	Authors	Title
34	PC-3-61	<i>I.Tantis, Maria Antoniadou, Stavroula Sfaelou and Panagiotis Lianos</i>	New materials for photoelectrochemical water splitting and hydrogen production
40	PC-3-62	<i>Dmitry Tsydenov and Alexander Vorontsov</i>	Influence of Nafion loading on hydrogen production in membrane photocatalytic system
74	PC-3-63	<i>Oscar González Díaz, María Nereida Suárez Rodríguez, Elisenda Pulido Melián and José Miguel Doña Rodríguez</i>	Highly active TiO ₂ photocatalyst modified by Ni for hydrogen production.
77	PC-3-64	<i>Oscar González Díaz, Andrea Carolina Acosta Dacal, Elisenda Pulido Melián, José Miguel Doña Rodríguez and Jesús Pérez Peña</i>	Hydrogen production by photocatalyst water splitting using immobilized modified TiO ₂ photocatalysts

78	PC-3-65	<i>María José Hernández Rodríguez, Cristina Rodríguez López, Elisenda Pulido Melián, José Alejandro Ortega Méndez, Óscar González Díaz, José Miguel Doña Rodríguez and Jesús Pérez Peña</i>	H ₂ production by photosplitting using Kronos vlp7000 as photocatalyst with 2.1%wt Pt and different sacrificial agents
186	PC-3-66	<i>Sven Rau, Michael Pfeffer, Tanja Kowacs and Johannes Vos</i>	Tuning of a molecular hydrogen evolving photocatalyst
239	PC-3-67	<i>Prabhas Jana, Cristina Mana Montero, Patricia Pizarro, Juan Manuel Coronado, David Pedro Serrano and Victor Antonio de La Peña O'Shea</i>	Improvement of the photocatalytic activity for hydrogen production from water/methanol solutions by the synergetic effect of Ta and Nb
256	PC-3-68	<i>Gian Luca Chiarello, Marco Altomare and Elena Selli</i>	Self-assembled TiO ₂ nanotube photoelectrodes for separate H ₂ and O ₂ evolution by photocatalytic water splitting
270	PC-3-69	<i>Julio Andrés Pedraza-Avella, María Inés Jaramillo-Gutiérrez and Martha Eugenia Niño-Gómez</i>	Photoelectrochemical hydrogen production from oilfield produced wastewater using TiO ₂ film photoanodes
279	PC-3-70	<i>J.L. Roper-Vega, J.A. Pedraza-Avella and M.E. Niño-Gómez</i>	Hydrogen production by photoelectrolysis of aqueous solutions of phenol using mixed oxide semiconductor films of Bi-Nb-M-O (M = Al, Fe, Ga, In) as photoanodes
339	PC-3-71	<i>Rodrigo Segura, Jenniffer Vera, Pia Homm and Samuel Hevia</i>	TiO ₂ @CNT hybrid nanostructures grown in porous alumina membranes and their use in photocatalytic water splitting
344	PC-3-72	<i>Jacqueline Priebe, Jörg Radnik, Dirk Hollmann, Michael Karnahl, Henrik Junge, Matthias Beller and Angelika Brückner</i>	On the origin of visible-light activity in photocatalytic water reduction of plasmonic (Mixed) metal particles deposited on TiO ₂
286	PC-3-73	<i>Ambrose Ashwin Melvin and Chinnakonda S. Gopinath</i>	Au/TiO ₂ /metal composites for high photocatalytic activity in terms of hydrogen production
363	PC-3-74	<i>A.K. Seferlis, S.G. Neophytides</i>	Pulsed reductive doping in titanium dioxide: an easy way for multiplying the efficiency of solar H ₂ production from water
316	PC-3-75	<i>Michael Wark, Ping Wang and Roland Marschall</i>	Tetragonal tungsten bronze-type nanorod photocatalysts with tunnel structure: Ta substitution for Nb and overall water splitting

General research (organic transformations, green chemistry, new devices)

Paper ID	PC	Authors	Title
10	PC-3-76	<i>Sylvie Lacombe, Filippo Ronzani, Nathalie Costarramone, Sylvie Blanc, Mickael Lebechec, Thierry Pigot and Michael Oelgemoeller</i>	Selective photooxygenation vs photodehydrogenation in solution using original visible-light silica-supported sensitizers
28	PC-3-77	<i>J.Marugán, C.Casado, R.Timmers, A.Sergejevs, C.T.Clark, A.Beasley, D.W.E.Allsopp C.R.Bowen, R.van Grieken</i>	Design of a prototype photoreactor for standardised photocatalytic activity tests using a computer-controlled UV LED light engine
29	PC-3-78	<i>Agatino Di Paola, Marianna Bellardita, Francesco Parrino and Leonardo Palmisano</i>	The Influence of the catalyst on the photocatalytic synthesis of vanillin
55	PC-3-79	<i>Leonardo Palmisano, Gabriele Scandura, Giovanni Palmisano, Vincenzo Augugliaro, Vittorio Loddo, Sedat Yurdakal and Bilge Sina Tek</i>	Autocatalytic photo-oxidation of 2-methoxybenzyl alcohol and O ₂ quenching therein
103	PC-3-80	<i>Grisel Corro, Umapada Pal, Nallely Sanchez, Fortino Bañuelos and Emmanuel Guillemint</i>	Recovered cadmium and nickel from used batteries for photocatalytic biodiesel production, using solar radiation as UV photonic source
107	PC-3-81	<i>Marla Lansarin, Natanael Augusto Hermes and André Corsetti</i>	Photocatalytic oxidation of glycerol using ZnO: Systematic evaluation of reaction parameters
191	PC-3-82	<i>Monika Kus, S. Ribbens, V. Meynen and P. Cool</i>	Microvolume TOC-analysis as useful tool in the evaluation of lab scale photocatalytic processes
222	PC-3-83	<i>Vincenzo Vaiano, Diana Sannino and Paolo Ciambelli</i>	Partial oxidation of ethanol to acetaldehyde: thermodynamic evaluation and comparison with photocatalytic activity

243	PC-3-84	<i>Amer Hakki, Hamza El-Hosainy, Said El-Sheikh, Adel Ismail and Detlef Bahnemann</i>	Selective solar light driven photocatalytic conversion of o-dinitrobenzene over non-metal doped mesoporous TiO ₂
338	PC-3-85	<i>Ioannis Lykakis, Petros Gkizis, Manolis Tzirakis, Ioannis Tamiolakis and Gerasimos Armatas</i>	Green photocatalytic organic transformations by polyoxometalates vs CdS-TiO ₂ nanoparticles: Selective aerobic oxidation of alcohols
348	PC-3-86	<i>Pedro Tavares, Leonor Ferreira, José Fernandes, José Peres and Marco Lucas</i>	A continuous flow stirred-tank reactor (CSTR) based on UV-LED/TiO ₂ for the photocatalytic decolourization of RB5
354	PC-3-87	<i>N. Drouichea, B. Palahouane, S. Aoudja, M.Hecini, K. Bensadok</i>	Cost-effective electrocoagulation process for the remediation of fluoride from pretreated photovoltaic wastewater