

CONTENT OF CONTRIBUTIONS

Plenary Lectures

PL1	Development of Highly Active TiO_2 Thin Film Photocatalysts by a RF Magnetron Sputtering Method and their Applications in the Production of H_2 from H_2O and Dye-Sensitizer-free Thin Film Solar Cells <i>M. Anpo</i>	21
PL2	Photoinduced Charge Separation Properties of Various Types of Titania Thin Films <i>P. Kluson, Š. Kment, M. Morozová, M. Zlámal, J. Krýsa</i>	23
PL3	Photocatalysis, Methylene Blue and Indicators <i>A. Mills, D. Hazafy, K. Lawrie</i>	24
PL4	Photocatalytic Treatment of Air: Fundamentals, Potentialities and Problems <i>P. Pichat</i>	25
PL5	Mechanisms of Photocatalytic Reactions <i>D.W. Bahnemann, D. Friedmann, C.B. Mendive</i>	26
PL6	Photochemistry in the Aquatic Environment <i>S. Canonica</i>	29
PL7	New Trends in the Modelling of Photocatalytic Processes <i>G. Li Puma</i>	30

SESSION 1: Development of new materials for photochemistry and photocatalysis

Oral presentations

OP1.1	Novel Inorganic/Organic Semiconductor Hybrid Materials for Visible Light Applications <i>R. Beránek</i>	39
OP1.2	Preparation of a Visible-Light-Responsive Rutile TiO_2 Nano Rod by Site-Selective Modification of Iron(III) Ion on {111} Exposed Crystal Faces <i>T. Ohno, N. Murakami</i>	41
OP1.3	Systematic Synthesis of TiO_2 Nanotubes for Photocatalytic Applications <i>M.D. Hernández-Alonso, S. García-Rodríguez, J.M. Coronado and B. Sánchez</i>	43
OP1.4	Tuning the Features of Au Nanoparticles on TiO_2 by the Control of the Photodeposition Parameters <i>J.J. Murcia-Mesa, G. Colón, J.A. Navio, M.C. Hidalgo</i>	45
OP1.5	Noble Metal Doped Porous Titania Photocatalysts: Impact of Mesoporous Order and Crystallinity <i>M. Wark, V. Yarović, A.A. Ismail, D.W. Bahnemann, J. Rathouský</i>	47
OP1.6	Highly Active Titania Photocatalyst Particles of Controlled Crystal Phase, Size, and Polyhedral Shapes <i>B. Ohtani, F. Amano, T. Yasumoto, O.O. Prieto-Mahaney, S. Uchida, T. Shibayama, Y. Terada</i>	49
OP1.7	Photocatalytic Activity of S- and F-doped TiO_2 in Formic Acid Mineralization <i>M.V. Dozzi, E. Sellì</i>	51
OP1.8	Controlling the Surface Topology of Inkjet Printed TiO_2 Layers <i>P. Dzik, M. Veselý</i>	53
OP1.9	Comparative Study into the Photocatalytic Performance of Mesoporous Films of TiO_2 <i>J. Rathouský, V. Kalousek</i>	55
OP1.10	Preparation of Visible Light-responsive TiO_2 Thin Film by RF Magnetron Sputtering Deposition Method and its Application for H_2 Production and Photofuel Cell <i>M. Matsuoaka, K. Iyatani, M. Saito, M. Moriyasu, A. Ebrahimi, M. Takeuchi, M. Anpo</i>	57
OP1.11	Surface Modified TiO_2 Nanoparticles and their Application to Photocatalytic Hydrogen Production <i>W. Choi, J. Kim, J. Park</i>	59
OP1.12	Effect of the TiO_2 Crystalline Structure on the Photocatalytic Production of Hydrogen <i>G.L. Chiarella, Á. Di Paola, L. Palmisano, E. Sellì</i>	61
OP1.13	Bismuth- Containing Oxides for Photocatalysis and Water Splitting <i>Y. Pan, J.F. Luan</i>	63
OP1.14	Photocatalytic Properties of Different TiO_2 Thin Films of Various Porosity and Titania Loading <i>J. Zita, J. Krýsa, U. Černigov, U. Lavrenčić Štangar, J. Jirkovský, J. Rathouský</i>	64
OP1.15	The Influence of Titanium Dioxide Phase Composition on Dyes Photocatalysis <i>L. Andronic, A. Enescu, M. Visa, A. Dutta</i>	66
OP1.16	Photodynamical Properties of Various Phthalocyanine Citrates <i>M. Drobek, P. Kluson, S. Hejda, J. Krýsa, J. Rakusan</i>	68
OP1.17	Novel Concept of Composite Photocatalytic Material Verified by ISO Standard Tests <i>F. Peterka, M. Lambrecht</i>	69
OP1.18	Robust Dye-sensitized Overall Water Splitting System with Two-step Photoexcitation of Organic Dyes and Metal Oxide Semiconductors <i>R. Abe, K. Shinmei, Y. Imai, K. Hara, B. Ohtani</i>	70

Poster presentations

PP1.1	Synthesis of Bi and Ag Vanadates with Photocatalytic Properties <i>C. Belver, C. Adán, M. Fernández-García</i>	75
PP1.2	Preparation of Sm-Loaded-Brookite Nanoparticles and Thin Films <i>A. Di Paola, M. Bellardita, G. Marci, L. Palmisano, F. Parrino, R. Amadelli</i>	77
PP1.3	[nBu ₄ N] ₄ W ₁₀ O ₃₂ Incorporated into Sol-Gel Silica: Matrix Effects on the Photocatalytic Oxidation of Alcohols <i>A. Molinari, A. Bratovcic, G. Magnacca, A. Maldotti</i>	79
PP1.4	Copper Sulphide-Based Photocatalyst for Dyes Degradation <i>L. Andronic, L. Isac, A. Dutta</i>	81
PP1.5	Binary Materials TiO _x or ZnO-Activated Carbon Used as Photomediators in the Photocatalytic Degradation of 2-Propanol in Gas-Solid Regime <i>L. Palmisano, E. García-López, G. Marci, A. García, J. Matos</i>	83
PP1.6	Tailoring the Photocatalytic Properties of SnO ₂ Layer Obtained by SPD Technique <i>A. Enesca, A. Dutta</i>	85
PP1.7	Sunlight Highly Photoactive Bi ₂ WO ₆ -TiO ₂ Heterostructures for Rhodamine B Degradation <i>S. Murcia López, M.C. Hidalgo, J.A. Navio and G. Colón</i>	87
PP1.8	Preparation and Photoactivity of AC/TiO _x Nanoparticles Synthesized by Sol-Gel Method <i>M.E. Azenha, A. Romeiro, A. Assabane, Y. Ait-Ichou, M. Ramos Silva, M.M. Figueiredo, J.P. Da Silva, H.D. Burrows</i>	89
PP1.9	Thin Films of TiO _x and WO ₃ for Dyes Photocatalysis <i>R.A. Cárcel, L. Andronic, A. Dutta</i>	90
PP1.10	Influence of the Particle Geometry on the Photocatalytic Activity of ZnO:Al Films under Sunlight Irradiation <i>M. Bizarro, A. Sánchez, F.M. Sánchez-Arévalo, J.C. Alonso, A. Ortiz</i>	92
PP1.11	Visible Light Photocatalytic Activity of Thermal Oxidized Titanium Nitride Powder <i>P.Y. Tan, Q. Luo, O.K. Tan, M.S. Tse, X.Q. Fang, M. Ghaffari</i>	94
PP1.12	Transition Metal-doped TiO _x Photocatalysts for Visible Light Gas-phase BTEX Degradation <i>L. Laakiat, W. Sangkhan, N. Grisdanurak</i>	96
PP1.13	Preparation of SrTi _{1-x} Fe _x O _{3-y} for Enhancement of Visible Light Photocatalytic Properties: Optimization of Stoichiometry and Reaction Temperature <i>M. Ghaffari, O.K. Tan, P.Y. Tan</i>	98
PP1.14	Photocatalytic Synthesis of Ag/ZnO Dendritic Structures <i>K.G.M. Laurier, M.B.J. Roeflaers, M. Poets, D.E. De Vos, J. Hofkens</i>	99
PP1.15	Surface Acidity of Bismuth Based Oxides and its Impact on Photocatalytic Properties <i>T. Saison, N. Chemin, O. Durupthy, J.P. Jolivet, V. Ruaux, L. Mariey, F. Maugé, C. Chanéac</i>	101
PP1.16	Synthesis of ZnO/SnO _x by High-Gravity Reactive Precipitation <i>Y.-J. Chiang, C.-C. Lin</i>	103
PP1.17	Photophysical and Photocatalytic Activity of Zn _x M ₂ O ₈ (M=Nb,Ta) <i>T.H. Noh, I.S. Cho, H.-S. Roh, S.-B. Park, K.S. Hong</i>	105
PP1.18	Optical, Structural and Morphological Characterization of TiO ₂ Nanotubes Coated with Thin Films TiO ₂ :Ag <i>E.A. Al Arfaif</i>	106
PP1.19	Photocatalytic Water Splitting on Double-Layered Visible Light-Responsive TiO ₂ Thin Films Prepared by a Magnetron Sputtering Deposition Method <i>R. Tode, M. Takeuchi, M. Matsuoka, M. Anpo</i>	107
PP1.20	Characterization of New Highly Photoactive Catalysts <i>J.M. Doña Rodríguez, J. Araña, C. Fernández Rodríguez, D. Portillo-Carrizo, J. Pérez-Peña, O. González Díaz, J.A. Navío, M. Macías-Azaña</i>	109
PP1.21	Degradation of Phenol with Highly Photoactive Catalysts <i>J. Araña, J.M. Doña Rodríguez, C. Fernández Rodríguez, D. Portillo-Carrizo, O. González Diaz, J.A. Herrera Melián and J. Pérez-Peña</i>	111
PP1.22	Study of the Efficiency of UV and Visible-Light Photocatalytic Oxidation of Methanol on Mesoporous RuO ₂ -TiO ₂ Nanocomposites <i>A.A. Ismail and D.W. Bahnamann</i>	113
PP1.23	Preparation, Characterization and Photocatalytic Activity of ZnO-TiO ₂ Composite Materials <i>J.Z. Bloh, R. Dillert, D.W. Bahnamann</i>	115
PP1.24	Elaboration of Stable Anatase TiO ₂ Through Commercial Activated Carbon Addition with High Photocatalytic Activity under Visible Light <i>H. Slimen, A. Houas</i>	116
PP1.25	Preparation of Mechanically Stable Silver and Phosphate Doped TiO ₂ /Polymer Composite Films for Photooxidation of Ethanol <i>L. Janovák, Á. Veres, T. Bujdosó, T. Rica, N. Buzás and I. Dékány</i>	117

PP1.26	Photocatalytic Degradation of Ethanol on TiO ₂ Thin Hybrid Films Supported by Inorganic Materials <i>A. Veres, L. Janovák, I. Dekány, T. Seemann, V. Zöllmer, A. Richardt</i>	118
PP1.27	Fe(III)-Porphyrin Heterogenized on MCM-41: A New Photocatalyst for the Selective Oxidation of 1,4-Pentanediol <i>A. Bratovic, A. Molinari, A. Maldotti</i>	119
PP1.28	Anchoring Zinc Phthalocyanines to Porous Materials for Photocatalysis. Synthesis and Characterization <i>M. Silva, M.E. Azenha, M. Pereira, H.D. Burrows, M. Sarakha, F. Ribeiro, A. Fernandes, R. Ribeiro</i>	121
PP1.29	Production of Nano Size TiO ₂ Sol and Highly Efficient Photocatalytic TiO ₂ Powder by Mechanical Ball Milling <i>E. Corapci, B. Aysin, A. Ozturk, J. Park</i>	123
PP1.30	Palladium and Platinum Water-Soluble Phthalocyanines as Efficient Singlet Oxygen Photosensitizers <i>N. d'Alessandro, L. Tonucci, P. D'Ambrosio, M. Carchesio, S. Sortino, A. Morvillo, M. Bressan</i>	124
PP1.31	Characterization and Photocatalytic Properties of Titania–Silica Mixed Oxides Doped with Ag and Pt <i>B. Llano, G. Restrepo, J.M. Marin, J.A. Navio, M.C. Hidalgo</i>	125
PP1.32	Photocatalytic Activity of <i>Nano</i> and <i>Micro</i> Crystalline TiO ₂ Hybrid Systems Involving LnPc _n or MPp Sensitizers <i>R. Słota, G. Dyrda, G. Mele, K. Szczegot, M. Chaliskra, M. Ludwa, I. Pio</i>	127
PP1.33	Nanostructured Photocatalyst BiVO ₄ Synthesized via a Surfactant-Assisted Co-Precipitation Method for the Degradation of Rhodamine B under Visible-Light Irradiation <i>U.M. García Pérez, S. Sepúlveda Guzman, A. Martínez-de la Cruz</i>	129
PP1.34	Photocatalytic Degradation of the Dye Cibacron Yellow LS-R in the Presence of Fe-Doped TiO ₂ <i>X. Vargas, E. Tauchert, J.M. Marin, G. Restrepo, R. Dillert, D.W. Bahnemann</i>	131
PP1.35	Preparation and Optimization of TiO ₂ /β-SiC Foam for Industrial Photocatalytic Water Treatment <i>N.A. Kouamé, D. Robert, V. Keller, N. Keller</i>	133
PP1.36	Influence of Fe ³⁺ on Photo catalytic Efficiency of Nanopowder TiO ₂ and CeO ₂ – Comparative Study <i>N.D. Kuburovic, A. Golubovic, M. Radovic, Z. Dohcevic-Mitrovic, A. Orlovic</i>	135
PP1.37	Glycerol Partial Oxidation in Aqueous Solution by Home Prepared TiO ₂ Photocatalyst <i>L. Palmisano, V. Loddò, A. Mele, G. Palmisano, S. Yurdakal, V. Augugliaro</i>	136
PP1.38	Assessment of Synthesis Conditions of Bare TiO ₂ , N Doped and Si, V, Se Codoped Using Sol-gel Method <i>L. Galeano, J.M. Marin, G. Restrepo, M.C. Hidalgo, J.A. Navio</i>	138
PP1.39	Photocatalytic Evaluation of TiO ₂ /Nylon Systems Prepared at Different Impregnation Times <i>M.I. Mejia, L. Galeano, J.M. Marin, G. Restrepo, C. Pulgarin, J. Kiwi</i>	140
PP1.40	Synthesis and Characterization of N-Doped TiO ₂ and its Photocatalytic Activity <i>A. Kachina, P. Afanasyev, E. Puzenat, S. Ould-Chikh, C. Geantet, M. Mansour</i>	142
PP1.41	Microstructure and Performance of Titanium Oxide Coatings Sprayed by Oxygen-Acetylene Flame <i>P. Cibor, V. Štengl, F. Zahalka, N. Murafa</i>	144
PP1.42	Anatase Nanoparticles from Hydrated Titania Gels <i>J. Boháček, P. Pulišová, J. Šubrt, L. Szatmáry, P. Bezdička</i>	146
PP1.43	Photo-Electrochemical Properties of Hierarchical Nanocomposite Structure: Carbon Nanofibers/TiO ₂ /ZnO Thin Films <i>Z. Hubička, Š. Kment, I. Gregora, M. Čada, J. Olejnícek, P. Klusoň, D. Petras, J. Krýsa, L. Jastrabík, P. Dytrych</i>	148
PP1.44	Pure TiO ₂ and TiO ₂ Encapsulated in BN-Nanocages: Comparison of Photocatalytic Properties <i>L. Szatmáry, S. Bakardjieva, M. Bakardjieva, M. Maříková, V. Štengl, J. Jirkovský, Z. Bastl</i>	150
PP1.45	Synthesis of TiO ₂ by a Modified Sol-Gel Process: Study of Parameters to Control the Phase Composition <i>L. Cerro, M.J. López-Muñoz, J. Aguado, R. Sánchez</i>	152
PP1.46	TiO-N Nanoparticles: Photocatalytic Activity under UV and Visible Light Illumination <i>A. Jiménez, P. Simon, Y. Leconte, N. Herlin-Boime, C. Reynaud, E. Puzenat, C. Guillard</i>	154
PP1.47	New Materials for Visible Light Photooxidation Based on an Original Organic Photosensitizer Chemically Bonded to Silica Applications to Air Decontamination and Water Disinfection <i>T. Pigot, S. Lacombe, P. Saint-Cricq, A.K. Benabou, C. Guillard</i>	155
PP1.48	The Impact of Silica-Titania Core-Shell-Particles Used as an Alternative Material to Pure Nano-Titania Photocatalyst <i>S. Kamruddin, D. Stephan, K. Amrhein</i>	156
PP1.49	Improvement of Activity of Gold Modified Titanium(IV) Oxide for Photocatalysis under Visible Light Irradiation <i>E. Kowalska, S. Rau, R. Abe, B. Ohtani</i>	158
PP1.50	Carbon Nanotube-TiO ₂ Thin Films for Photocatalytic Applications <i>M.J. Sampaio, C.G. Silva, R.R.N. Marques, A.M.T. Silva, J.L. Faria</i>	160
PP1.51	Increase of Photocatalytic Activity of TiO ₂ Films by Pt and Ag Modification <i>P. Hájková, A. Kolouch, O. Hédánek, J. Matoušek</i>	162
PP1.52	Photocatalytic Activity of TiO ₂ Films Deposited by PECVD with Heating Cathode <i>M. Horáková, Z. Michalcík, P. Kříž, P. Špatenka</i>	164

PPI.53	Photodegradation of Organic Dye Molecules on LDH/TiO ₂ Nanocomposites <i>S. Pausová, J. Krýsa, C. Forano, V. Prevot, G. Mailhot, M. Clostre, J. Jirkovský</i>	165
PPI.54	TiO ₂ /CNT Composites Photoactivity on the Degradation of Caffeine <i>R.R.N. Marques, P. Tavares, P. Carrapico, A.M.T. Silva, J.L. Faria</i>	167
PPI.55	Photocatalytic Property of a Semiconducting Compound Prepared from Urea under Visible Light Irradiation <i>Y. Sakata, K. Yoshimoto, K. Kawaguchi, H. Imamura, S. Higashimoto</i>	169
PPI.56	Photocatalytic Activity Limits of Undoped Titanium Dioxide <i>S. Ould-Chikha, E. Putzenat, M. Mansour, C. Geantet, A. Kachina, P. Afanasiev</i>	171
PPI.57	The Effect of Carbon Contents on Carbon Nanotubes - Titanium Dioxide Nanocomposites (CNTs/TiO ₂) and its Photo-Electro-Chemical Behaviour <i>Z. Li, B. Gao, G.Z. Chen, R. Mokaya, G. Li Puma</i>	173
PPI.58	Material Printing Methods for Titanium Dioxide Layers Preparation <i>M. Veselý, P. Džík</i>	174
PPI.59	Photocatalytically Active Titania Thin Films Prepared by Particulate Sol-Gel Route <i>R. Cerc Koršec, P. Bukovec</i>	176
PPI.60	Photocatalytic Properties of Cadmium Sulfide Nanoparticles Deposited in Mesoporous Titanium Dioxide Thin Films <i>V. Yarovič, J. Rathouský, A.L. Stroyuk, M. Wark</i>	178
PPI.61	Photocatalytic and Antimicrobial Properties of Different TiO ₂ Thin Films of Various Porosity and Titania Loading <i>J. Zita, J. Krýsa, E. Musilová, J. Ambrožová-Ríhová, V. Kalousek, J. Rathouský</i>	180
PPI.62	Sulphur Doped Nanoparticles of TiO ₂ <i>L. Szatmáry, S. Bakardjieva, J. Šubrt, P. Bezdíčka, J. Jirkovský, Z. Bastl, V. Brezová</i>	181
PPI.63	Physical and Chemical Properties of TiO ₂ Printed Layers <i>M. Černá, M. Veselý, P. Džík</i>	183
PPI.64	Adsorption Abilities of Carbon-Modified TiO ₂ Photocatalysts <i>E. Kusiak, M. Janus, A.W. Moravski</i>	185
PPI.65	Thermal Analysis and XRD Study of TiO ₂ Suspension <i>J. Kožík Škofic, N. Bukovec, P. Bukovec</i>	187
PPI.66	One-Dimensional Titania-Based Photocatalysts for Visible Applications <i>M. Grandcolas</i>	188
PPI.67	The Effect of Organic Residuals to the Crystallization of Titanium Dioxide in Mild Environment <i>J.-P. Nikkanen, X. Zhang, S. Heinonen, T. Kanerva, E. Levänen, T. Mäntylä</i>	190
PPI.68	TiO ₂ Nanomaterials with Tailored Morphological and Structural Properties: Improvement of the Photocatalytic Efficiency by Stabilization of Photogenerated Electron-Hole Pairs <i>R. Scotti, M. D'Arienzo, M. Crippa, L. Wahba, I.R. Bellobono and F. Morazzoni</i>	191

SESSION 2: Air and water treatment

Oral presentations

OP2.1	WO ₃ Modified-TiO ₂ Photocatalytic Materials for H ₂ S Photocatalytic Oxidation <i>A. Alonso-Tellez, R. Masson, D. Robert, N. Keller, V. Keller</i>	195
OP2.2	Intensification of Gas-Phase Photooxidative Dehydrogenation of Ethanol to Acetaldehyde by Using Phosphors as Light Carriers <i>P. Ciambelli, D. Sannino, V. Palma, V. Vaiano, R.S. Mazzei</i>	197
OP2.3	Impact of the Nature of UV-A Lamp on the Photocatalytic Degradation of Toluene by Concrete Coated with TiO ₂ <i>N. Bengtsson, C. Guillard, F. Dappozze, M. Castellote Armero</i>	199
OP2.4	Degradation and Reaction intermediates of Microcystin-LR with Sulphate Radicals Advanced Oxidation Technologies <i>M.G. Antoniou, A.A. de la Cruz, D.D. Dionysiou</i>	200
OP2.5	Photocatalytic Decomposition of Microcystin-LR in Natural and Drinking Water Using Nanostructured TiO ₂ Materials <i>A. Hiskia, T.M. Triantis, T. Fotiou, T. Kaloudis, P. Falaras, D.D. Dionysiou</i>	201
OP2.6	Photocatalytic Water Purification from Organophosphorous Compound on the Supported Semiconductor Catalysts <i>E.A. Kozlova, A.V. Vorontsov</i>	203
OP2.7	Combined Solar Photo-Fenton/Biological System for Decontamination of Real Pesticide-Contaminated Water at Industrial Scale <i>A. Zapata, I. Oller, C. Sirtori, A. Rodriguez, A. López, S. Malato</i>	205
OP2.8	Photocatalytic Treatment of Aqueous Mercury(II) with Titanium Dioxide: Effect of Hg Source <i>M.J. López-Muñoz, J. Aguado, A. Arencibia, R. Pascual, A. Susmozas</i>	207

OP2.9	Photocatalysis and Disinfection of Water <i>S. Pigeot-Rémy, E. Errazuriz-Cerda, F. Simonet, J.C. Lazzaroni, D. Atlan, C. Guillard</i>	209
OP2.10	Production of a Nanocatalyst Fenton Type (FeO_x/C) Applied to the Inactivation of <i>Ascaris</i> Eggs in Water <i>A.A. Morales, H. Pfeiffer, F. Méndez-Arriaga, R.M. Ramirez Zamora</i>	211

Poster presentations

PP2.1	Photocatalytic Elimination of Biological Pollution in Indoor Air <i>M. Muñoz-Vicente, M. Sánchez-Muñoz, G. Cobas, R. Portela, R. Amils, B. Sánchez</i>	215
PP2.2	Hybrid $\text{TiO}_2/\text{SiMgOx}$ Materials for Combined Adsorption and Photocatalytic Elimination of Gaseous H_2S <i>R. Portela, S. Suárez, S.B. Rasmussen, P. Avila, M.D. Hernández-Alonso, B. Sánchez</i>	217
PP2.3	Photoreduction of CO_2 with H_2O by UV/ZnO Process <i>Y.-J. Chiang, C.-F. Chang, C.-C. Lin</i>	219
PP2.4	Comparison of the Pure TiO_2 and Kaolinite/ TiO_2 Composite as Catalyst for CO_2 Photocatalytic Reduction <i>K. Kočí, V. Matějka, P. Kovář, Z. Lacný, D. Placha, L. Obalová</i>	221
PP2.5	Impact of Photocatalytic Supports on <i>E.coli</i> Cells Injury <i>M. Faure, F. Gerardin, J.-C. Andre, M.-N. Pons, O. Zahraa</i>	223
PP2.6	Experimental Study of the NO and NO_2 Degradation by Photocatalytically Active Concrete <i>M.M. Ballari, H.J.H. Brouwers</i>	225
PP2.7	Inactivation of Spores of <i>Bacillus Subtilis</i> on UV-irradiated TiO_2 Thin Films <i>S.M. Zácarias, M.C. Vaccari, O.M. Alfano, H.A. Irazoqui, G.E. Imoberdorf</i>	227
PP2.8	Kinetic Investigations and Reaction Intermediates During Photocatalytic Degradation of Decane at ppb Levels <i>F. Thevenet, O. Debono, V. Héquet, C. Raillard, L. Le Coq, N. Locoge</i>	229
PP2.9	Formaldehyde Removal by Photocatalytic Mortar Mixed with TiO_2 <i>A. Hadj-Aissa, E. Puzenat, A. Plassais, C. Haehnel, J.M. Herrmann, C. Guillard</i>	231
PP2.10	Photocatalytic Removal of VOCs by a New Textile Composed of Optical Fibers <i>P.-A. Bourgeois, E. Puzenat, L. Peruchon, D. Malhomme, E. Deflin, C. Brochier, C. Guillard</i>	233
PP2.11	Photocatalytic Removal of s-triazines: Evaluation of Operational Parameters <i>J. Aguado, M.J. López-Muñoz, A. Revilla, D. Moreno</i>	235
PP2.12	Titania-Containing Mesoporous Silica Powders: Structural Properties and Photocatalytic Activity Towards Toluene Degradation <i>M. Tushibi, U. Lavrenčič Štangar, U. Černigoj, J. Jirkovský, N. Novak Tušar</i>	237
PP2.13	Multi-Plate Photocatalytic Reactor for Air Purification <i>A.L. Loo Zazueta, G. Li Puma</i>	239
PP2.14	Kaolinite/ TiO_2 Composite as a Photoactive Component in Cement Based Materials Designed for Reduction of NO <i>V. Matějka, P. Kovář, P. Červenka, K. Mamulová Kutláková, P. Bábková, Z. Lacný</i>	240
PP2.15	Waste Gas Treatment: the Flexible Testing of the Photocatalytic Activity of Layered Materials in the Circulating Batch Set-Up <i>T. Floriš, L.A. García, M. Zlámal, J. Krýsa</i>	242
PP2.16	Photocatalytic Oxidation of NO_x by Composite Hydroxyapatite/ TiO_2 Materials <i>T. Giannakopoulou, N. Todorova, R. Dillert, D.W. Bahnemann, C. Trapalis</i>	243
PP2.17	Kinetic Study of Indoor Air Purification Using Heterogeneous Photocatalytic Oxidation <i>Q.L. Yu, M.M. Ballari, H.J.H. Brouwers</i>	245
PP2.18	N-doped TiO_2 Nanoparticles. Photocatalytic Degradation of Ethanol and Acetaldehyde in the Gas Phase <i>D. Meroni, S. Ardizzone, G. Cappelletti, C. Oliva, C. Pirola, D. Poelman, H. Poelman</i>	247
PP2.19	One Dimensional TiO_2 -Based Photocatalysts for Odors Removal Under UV-A, Visible and Solar Light Illumination <i>Y. Yamin, V. Keller, N. Keller</i>	248
PP2.20	Photocatalytic Aerobic Epoxidation of Alkenes under Visible Light Irradiation by an Iron(III) Porphyrin with Mg-Al Hydrotalcite Anionic Clay <i>K. Teramura, K. Ogura, T. Izawa, H. Tsuneoka, T. Sugimoto, T. Shishido, T. Tanaka</i>	250
PP2.21	Treatment of Cork Industry Wastewaters by Combined Solar Photo-Fenton and Biological Oxidation Processes <i>A.M.A. Pintor, R.A.R. Boaventura, V.J.P. Vilar</i>	252
PP2.22	A Comparative Photocatalytic Activity of Pt/WO_3 and Au/WO_3 Nanocomposites in Aqueous Suspensions <i>M. Omar, Z.H. Yamani</i>	254
PP2.23	UV-assisted Photocatalytic Degradation of Ethidium Bromide with an Iron-doped TiO_2 Catalyst Employing H_2O_2 as Oxidant <i>C. Adán, J. Carbajo, A. Rey, A. Martínez-Arias, A. Bahamonde</i>	255
PP2.24	Sulfacetamide Oxidation by TiO_2 and ZnO Photocatalysis <i>O. Rozas, R. Palomino, C. Zaror, M. Pérez-Moya, H.D. Mansilla</i>	257

PP2.25	Photocatalytic Removal of Two Antibiotics under UV-C Radiation: Sulfamethoxazole (SMX) and Levofloxacin (LEVO) <i>D. Nasuhoglu, V. Yargeau, D. Berk</i>	259
PP2.26	Heterogeneous Sensitizers on Basis of Metal Phthalocyanines in Phenol and Chlorophenols Photooxidation <i>T.M. Fedorova, V.M. Derkacheva, E.G. Petrova, N.I. Zhil'akova, O.Ju. Egorova, S.A. Borisenkova and O.L. Kalya</i>	261
PP2.27	Decontamination of IGCC Power-Station Wastewater Effluent in a UV Pilot Plant <i>A. Durán, J.M. Monteagudo, I. Sanmartín, M. Aguirre</i>	263
PP2.28	The Adsorption Contribution of Tetracycline Abatement Assisted by Photocatalysis <i>J. Choina, H. Duwensee, G.-U. Flechsig, H. Kosslick, A.W. Morawski, V.A. Tuan, A. Schulz</i>	264
PP2.29	Methyl Orange Degradation on Fly-Ash and Photo-Fenton Systems <i>M. Visa, L. Andronic, A. Dutra</i>	266
PP2.30	Application of Modified Mild Photo-Fenton as a Tertiary Treatment for Municipal Wastewater <i>N. Klamerth, M.I. Maldonado, A. Agüera, A.R. Fernández-Alba, S. Malato</i>	268
PP2.31	Nitrogen doped TiO ₂ for Hydrogen Production under Visible Light Irradiation <i>J. Peral, J.F. Montoya, K. Villa, P. Salvador, X. Doménech</i>	270
PP2.32	Thermal Treatment of Nitrogen Modified TiO ₂ and its Photocatalytic Properties <i>K. Bubacz, J. Choina, D. Dolat, E. Borowiak-Paleń, A.W. Morawski</i>	271
PP2.33	Photoactivity of WO ₃ -TiO ₂ Composites under UV and Visible Light Irradiation <i>M. Piszcza, B. Tryba, A.W. Morawski</i>	273
PP2.34	Photocatalytic Treatment of Metoprolol and Propranolol <i>N. De la Cruz, V. Romero, R.F. Dantaz, P. Marco, J. Giménez and S. Espugras</i>	275
PP2.35	Photocatalytic Degradation of Methyl Tert-butyl Ether (MTBE) in Contaminated Water by ZnO Nanoparticles <i>A. Eslami, B. Yadollahi, S. Nasseri, A.A. Safari</i>	277
PP2.36	Photocatalytic Decomposition of Acetic Acid on Fe – Modified TiO ₂ : Generation of Useful Hydrocarbons and Hydrogen <i>S. Mozia, A. Heciak, A.W. Morawski</i>	278
PP2.37	Application of Photocatalytic Process for Removal of Methyl Tert-butyl Ether (MTBE) from Highly Contaminated Water <i>A. Eslami, B. Yadollahi, S. Nasseri, A.A. Safari</i>	280
PP2.38	Photocatalytic Activities of Platinized WO ₃ for the Degradation of Aquatic Pollutants under Visible Light Irradiation <i>J. Kim, W. Choi</i>	281
PP2.39	Application of Titanium Dioxide Sol-gel Coatings on Historic Tiles: an Approach to Prevent Biodeterioration <i>M.L. Coutinho, F. Pina, J.P. Veiga, N. Leal</i>	283
PP2.40	Photocatalytic Oxidation of As(III) on TiO ₂ : Mechanism and the Identification of Main Oxidant <i>J. Yeo, J. Ryu, W. Choi</i>	285
PP2.41	Photocatalytic Phenol Oxidation with Fe/AC+TiO ₂ +H ₂ O ₂ Hybrid System <i>A. Rey, J. Carbajo, C. Adán, M. Faraldo, A. Bahamonde, J.A. Casas, J.J. Rodriguez</i>	287
PP2.42	Photocatalytic Treatment of a Real Bilge Water Sample: a New Approach Considering Both Aqueous and Gas Phases <i>D. Cazoir, L. Fine, C. Ferronato, J.-M. Chovelon</i>	289
PP2.43	Influence of Different TiO ₂ Sol-Gel Synthesis on Phenol Photodegradation <i>J. Carbajo, C. Adán, A. Rey, C. Belver, M. Faraldo, A. Bahamonde</i>	291
PP2.44	Photoelectrocatalysis Using Atomic Layer Deposited TiO ₂ <i>M.J. Heikkilä, V. Pore, M. Ritala and M. Leskelä</i>	293
PP2.45	Employing Spectroscopic Tools for the Assessment of Photocatalytic Degradation of Humic Acids <i>C. Uyguner Demirel, M. Bekbolet</i>	294
PP2.46	Photocatalytic Inactivation of Bacteria in a Fixed-Bed Reactor <i>C. Pablos, R. van Grieken, J. Marugán, B. Moreno</i>	296
PP2.47	Comparison of Different TiO ₂ Electrodes for the Photoelectrocatalytic Inactivation of Bacteria. <i>R. van Grieken, J. Marugán, C. Pablos, J. Palma, F. Vaquero</i>	298
PP2.48	Performance of Photo-Fenton Process for the Decolorization of a Model Mixture of Azo Syes. <i>J.J. Macías, L. Hinojosa-Reyes, J.L. Guzmán-Mar, J.M. Peralta-Hernández, A. Hernández-Ramírez</i>	300
PP2.49	PhotoFenton Oxidation of Acetic Acid on Structured Catalysts <i>D. Sanning, V. Vaiano, P. Ciambelli, L.A. Isupova</i>	302
PP2.50	Photocatalytic Degradation of Methylamine and Dimethylamin <i>S. Helali, E. Puzenat, N. Perol, M.-J. Safi, C. Guillard</i>	304
PP2.51	Treatment of Wastewater from Rinsing of Herbicide Containers. Optimization of UV/H ₂ O ₂ Process. <i>S.N. Neder, A.C. Negro, A.E. Cassano, C.S. Zalazar, Q.M. Alfaro</i>	306

PP2.52	Degradation of EDCs in Aqueous Solution by Solar-Fenton Homogeneous Photocatalysis <i>Z. Frontistis, N.P. Xekoukoulotakis, E. Hapeshi, D. Fatta-Kassinios, D. Mantzavinos</i>	308
PP2.53	Effect of TiO ₂ Source on the Photocatalytic Degradation of Aqueous Methyl Orange Solution <i>M.S. Hamdy</i>	310
PP2.54	Photocatalytic Degradation of AO7 on Various Powder TiO ₂ Photocatalysts <i>M. Baudys, M. Zlámal, J. Krýsa</i>	312
PP2.55	Solar Photocatalytic Processes (TiO ₂ and Photo-Fenton) to Control Affections Caused by Zebra Mussel <i>A. Arques, A.M. Amat, R. Vicente, A. Bernabeu</i>	314
PP2.56	Solar Photocatalysis (Photo-Fenton and Titanium Dioxide) as a Tertiary Treatment at the Outlet of a Wastewater Treatment Plant <i>A.M. Amat, R.F. Vercher, A. Arques, L. Santos-Juanes, A. Bernabeu, P.J. Simon, C. Jardin, M.A. Martinez, J.A. Vicente, R. González, C. Llosá</i>	316
PP2.57	Treatment of Synthetic Swine Manure Water by Ozone-Based Advanced Oxidation Processes in a Pilot-Scale Bubble Column Reactor <i>N. Quici, D. García Miguelez, A. Serna Maza, G. Li Puma</i>	318
PP2.58	Fungicidal and Bactericidal Activity of Printed Titanium Dioxide Layers <i>M. Veselá, M. Veselý, P. Dzik, M. Lipenská</i>	320
PP2.59	Antimicrobial Effect of Printed Microstructured Ag/TiO ₂ Layers <i>M. Lipenská, M. Veselá, M. Veselý, P. Dzik</i>	322
PP2.60	Efficient Photodegradation of Gasoline Additives MTBE and ETBE with TiO ₂ and CeO ₂ <i>S. Hejda, P. Kluson, P. Janos and M. Zlámal</i>	324
PP2.61	UV-A Assisted Photocatalytic Degradation of the Antibiotic Sulfamethoxazole in Aqueous TiO ₂ Suspensions <i>N. Xekoukoulotakis, C. Drosou, C. Brebou, D. Mantzavinos, E. Hapeshi, D. Fatta-Kassinios</i>	325
PP2.62	Photoelectrochemical Degradation of Selected Aromatic Molecules <i>M. Neumann-Spallart, S. Shinde and C.H. Bhosale</i>	327
PP2.63	Controlling Rhodamine B Degradation over Pb ₃ Nb ₄ O ₁₃ via pH Variation <i>O. Merka, V. Yarovy, D.W. Bahnemann, M. Wark</i>	329
PP2.64	Photocatalytic Degradation of Bisphenol A with TiO ₂ Slurry <i>A. Hwang, M. Lim, M. Cui, S. Cho, I. Dékány, J. Khim</i>	331
PP2.65	Ability of Photocatalytic TiO ₂ Surfaces to Destroy MRSA ST398 under Controlled UV Light Conditions <i>J. Krýsa, J. Zita, M. Zlámal, P. Kluson, E.S. Giotis, A. Loeffler, K.D.C. Stärk, D.A. Lloyd</i>	333
PP2.66	Photo-Catalytic Activity of TiO ₂ Nanofibers in Simulated and Real Municipal Effluents. <i>G. Laera, Bo Jin, A. López</i>	334
PP2.67	Disinfection of Water by Solar, UV-A and UV-C Irradiation. <i>E. Chatzisymeon, D. Venieri, D. Mantzavinos</i>	336

SESSION 3: Models for photochemistry and photocatalysis

Oral presentations

OP3.1	Reaction Mechanism of Visible Responsive Cu(II)-Deposited TiO ₂ and WO ₃ Photocatalysts <i>Y. Nosaka, H. Sakamoto, S. Takahashi and A.Y. Nosaka</i>	341
OP3.2	Removal of Intermediate Compounds in a Photocatalytic Process <i>G. Camera Roda, F. Santarelli, V. Augugliaro, V. Loddo, G. Palmisano, L. Palmisano, S. Yurdakal</i>	343
OP3.3	Rigorous Kinetic Modelling with Explicit Radiation Absorption Effects of the Photocatalytic Inactivation of Bacteria in Water with Titanium Dioxide Suspensions. <i>J. Marigán, R. van Grieken, C. Pablos, M.L. Satuf, A.E. Cassano, O.M. Alfano</i>	345
OP3.4	Pilot-plant Solar Reactor for the Photo-Fenton Degradation of the Herbicide 2,4-D <i>J. Farias, E.D. Albizzati, Q.M. Alfano</i>	347
OP3.5	Influence of Photocatalyst Adsorption Properties on the Kinetics of Organic Pollutants Removal <i>D.V. Kozlov, D.S. Selishchev, A.V. Vorontsov</i>	349
OP3.6	Photogeneration of Reactive Oxygen Species in Non-Aqueous Dispersions of Titanium Dioxide (EPR Study) <i>Z. Barbieriková, D. Dvoranová, M. Vázny, V. Brezová</i>	351
OP3.7	Using Time Resolved Microwave Conductivity to Understand the Photocatalytic Mechanisms in TiO ₂ Materials <i>C. Colbeau-Justin, S. Sorgues, H. Remita, C.B. Mendive and M. Kunst</i>	353

Poster presentations

PP3.1	Kinetic Modeling of Azo Dyes Photocatalytic Degradation in Aqueous TiO ₂ Suspensions <i>M.L. Satuf, M.J. Pierrestegui, R.J. Brandi, O.M. Alfano</i>	357
PP3.2	Properties of Adsorbed Water Related to the Photocatalytic Activities for Rutile TiO ₂ <i>A.Y. Nosaka and Y. Nosaka</i>	359

PP3.3	Highly Active Crystalline Mesoporous TiO ₂ Films for Self-Cleaning Applications <i>R. Fateh, A.A. Ismail, R. Dillert, D.W. Bahnemann</i>	361
PP3.4	Photo Oxidation of Phenol in Water Using a Solar and Lamp-Driven Hybrid Reactor: Investigation of Process Variables and Modelling <i>K.R.B. Nogueira, A.C.S.C. Teixeira, C.A.O. Nascimento, R. Guardani</i>	363
PP3.5	On Photoinduced Reactions of Quinolones in Titanium Dioxide Suspensions (EPR Investigations) <i>D. Dvoranová, Z. Barbieriková, A. Staško, V. Milata, M. Bella, V. Brezová</i>	365
PP3.6	Photocatalytic Oxidation of Oxalic Acid: Reaction Kinetics Analysis with Explicit Photon Absorption Effects <i>I. Grčić, N. Quici, G. Li Puma</i>	367
PP3.7	Flow-Through Cell for Online Measurement of Photocatalytic Activity on Various Surfaces <i>H. Steiner, M. Kornfeld, G. Waldner</i>	369
PP3.8	Solar Photocatalytic Reactor for Wastewater Disinfection: Scaling up and Hydrodynamic Characterization <i>C. Santos-Santos, H. López-Arjona, E. Valencia-Rojas, R. Enriquez</i>	370
PP3.9	A New Approach to TiO ₂ Photosensitization <i>J. Kuncewicz, W. Macyk, K. Szaciłowski, K. Kruczala, G. Stochel</i>	372
PP3.10	Kinetics and Modelling of Dichloroacetic Acid Oxidation Using Ozone and UV Radiation <i>M.E. Lovato, C.A. Martin, A.E. Cassano, O.M. Alfano</i>	373
PP3.11	ATR-FTIR for the Aqueous TiO ₂ Interface <i>E. Tauchert, C.B. Mendive and D.W. Bahnemann</i>	375
PP3.12	UV Emission Lines on <i>Trans</i> -Resveratrol Mineralization <i>R.R.N. Marques, J. Monteiro, A.M.T. Silva, J.L. Faria</i>	376
PP3.13	Performance of a Constructed Wetland Model Coupled with Photocatalytic Ozonation for Textile Waste Water Treatment <i>D. Mahne, U. Lavrenčič Štangar, P. Trebše, T. Griessler Bulc</i>	378
PP3.14	Mechanistic Studies on the Photooxidation of Pesticides <i>via</i> Hydroxyl Radical and Electron Transfer <i>M.L. Marin, M.A. Miranda, A. Argues, A.M. Amat, J. Soler, J. Gomis</i>	380
PP3.15	Principles and Test Methods for the Determination of the Activity of Photocatalytic Materials and their Application to Modified Building Materials <i>K. Amrhein, S. Kamaruddin, D. Stephan</i>	382
PP3.16	Using Acid Orange 7 as a Model Compound for Photocatalytic Activity Measurements <i>M. Zlámal, J. Krýsa, J. Jirkovský, G. Grabner</i>	384
PP3.17	Photoinduced Properties of Sol Gel TiO ₂ Thin Films: Effect of Glass Substrate and Deposition Technique <i>J. Krýsa, P. Novotná, Š. Kment and A. Mills</i>	385
PP3.18	Development of Methodology for the Evaluation of Antibacterial Activity of Photocatalytic (TiO ₂) Films <i>U. Žvab, U. Lavrenčič Štangar, M. Bergant Marušič, J. Krýsa, J. Zita</i>	386
PP3.19	Partial Oxidation of a Commercial Textile Surfactant Formulation with the H ₂ O ₂ /UV-C Process: Modeling and Optimization Using a Central Composite Design <i>L. Arslan-Alaton, A. Akin, T. Olmez-Hancı</i>	388
PP3.20	Heterogeneous Photo-Fenton Reaction using an Iron Oxide as a Catalyst. <i>G.B. Ortiz de la Plata, O.M. Alfano, A.E. Cassano</i>	390
PP3.21	Scaling Up of a Photocatalytic Reactor for Indoor Pollution Remediation <i>C. Passalia, O.M. Alfano, R.J. Brandi</i>	392

SESSION 4: Environmental photochemistry, photoprocesses utilizing solar light

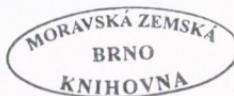
Oral presentations

OP4.1	Free Radicals in Photochemistry of Fe(III) Complexes in Model and Natural Aqueous Systems <i>E.M. Glebov, I.P. Pozdnyakov, V.P. Grivin, V.F. Plyusnin, Xu Zhang, F. Wu, N. Deng, N. Tkachenko, H. Lemmettyinen</i>	397
OP4.2	Photochemistry on the Aquatic Surfaces: Role and Impact of Iron Complexes <i>G. Mailhot, J. Li, L. Wang, C. Zhang, F. Wu and H. Mešťáková</i>	399
OP4.3	Controlling the Selectivity of Photocatalytic N-Alkylation of Nitro Aromatics Using Pt/TiO ₂ <i>A. Hakki, R. Dillert, D.W. Bahnemann</i>	401
OP4.4	Photocatalytic Degradation of 17β-Estradiol Employing Artificial and Solar Lights by Using P25 Supported onto a High Surface Area TiO ₂ /SiO ₂ Composite <i>M.P. Paschoalino, F.F. Sodré, W.F. Jardim</i>	403
OP4.5	Solar Photo-Fenton as a Pre-Oxidation Step for Biological Treatment of Landfill Leachate in a Pilot Plant with CPCs <i>V.J.P. Vilar, S.M.S. Capelo, R.A.R. Boaventura</i>	405

OP4.6	Nitrogen-Doped TiO ₂ /AC Composite for the Removal of Aqueous Bisphenol-A under Solar Irradiation <i>T.T. Lim, P.S. Yap, M. Lim, M. Srinivasan</i>	407
OP4.7	Photoelectrochemical Oxidation of Organic Wastes Producing Electricity. Photogalvanic and Mechanistic Studies <i>M. Antoniado, D.I. Kondarides, P. Lianos</i>	409

Poster presentations

PP4.1	Alternative Treatment Schemes for Water Based Paint Using Latex Binder Production Wastewaters <i>I. Kabdaşlı, O. Tünay, K. Konuk, G. Etçioğlu, E. Kocabas</i>	413
PP4.2	Chlamydospores of <i>Fusarium Equiseti</i> Inactivation by Homogeneous Photocatalysis Using Solar Compound Parabolic Collector (CPC) Reactor <i>M.I. Polo-López, I. García-Fernández, I. Oller, P. Fernández-Ibañez</i>	415
PP4.3	Photocatalytic Activity of Metal-doped TiO ₂ Thin Films under UV and Visible-light <i>J. Šauta Ogorevc, E. Tratar Pirc, P. Bukovec</i>	417
PP4.4	1-Naphthaleneacetamide: Direct and Photocatalysed Degradation by Sodium Decatungstate <i>E.S. da Silva, P. Wong-Wah-Chung, M. Sarakha, H.D. Burrows</i>	419
PP4.5	Nanocomposite Films for Photocatalytic Particles <i>C.S. Chuia, O.K. Tan, M.S. Tse, A.M. Soutar</i>	420
PP4.6	The Application of UV-C-light Assisted Peroxymonosulfate Oxidation for Mineralization of Aqueous Dimethyl Phthalate Solutions <i>T. Olmez-Hancı, C. Imren, I. Kabdaşlı, O. Tünay, I. Arslan-Alaton</i>	422
PP4.7	The Photocatalytic Performance of Mesoporous Films of TiO ₂ in the Gas-, Liquid- and Solid-Phase Degradation of Pollutants <i>V. Kalousek, J. Jirkovský, J. Rathouský</i>	424
PP4.8	Photoelectrochemical Oxidation of Carboxylic Acids on the Sol-gel Thin TiO ₂ Layer Electrode <i>M. Morozová, P. Klusoň, J. Krýsa, O. Šolcová</i>	426
PP4.9	Effect of Hydrogen Peroxide Dosage in the Photo-Fenton Degradation of Caffeine <i>M. Pérez Moya, M. Graells, E. Yamal, H.D. Mansilla</i>	428
PP4.10	Photochemical Removal of Parabens by UV, UV/H ₂ O ₂ , Fenton and Photo-Fenton Processes <i>A.C. Barros, M.S. Lucas, J.A. Peres</i>	430
PP4.11	Decolouration of Orange II Solutions by TiO ₂ and ZnO Active Layers Screen-Printed on Ceramic Tiles under UV Radiation <i>M. Pereira, M.S. Lucas, J.A. Peres, P. Seabra, J.A. Labrincha</i>	432
PP4.12	Competitive Adsorption and Photodegradation of Salicylate and Oxalate on Goethite <i>J. Krýsa, J. Jirkovský, O. Bajt, G. Mailhot</i>	433
PP4.13	Degradation of Organic Pollutants in Aquatic Environment Photoinduced by Fe(III)Cit Complex: Impact of TiO ₂ <i>M. Kolář, J. Jirkovský, G. Mailhot, M. Bolte, J. Krýsa</i>	435
PP4.14	Antibiotics – a Growing Problem for the Environment. Sources, Fate and Treatment by Conventional Methods and AOPs. <i>J.H. Pereira, V.J.P. Vilar, R.A.R. Boaventura, M.T.M. Borges</i>	437
PP4.15	Photocatalytic Degradation for the Improvement of the Biodegradation of Emerging Pollutants <i>V. Maroga Mbouda, V. Héquet, Y. Andrès</i>	439
PP4.16	Hazardous Substances Removal from Drinking Water Sources by Photolysis and Titanium Dioxide Photocatalysis <i>P.C. Passarinho, C. Marques, S. Sanches, J.F. Mendes, V.J. Pereira</i>	440
PP4.17	Photodegradation of Monuron in the Presence of Goethite and Carboxylic Acids <i>O. Bajt, J. Krýsa, J. Jirkovský, J. Zita, Š. Paňšová</i>	442
PP4.18	Phototransformation of Ferric Citrate in Aquatic Environment <i>M. Kolář, O. Abida, G. Mailhot, J. Jirkovský, M. Bolte</i>	444
PP4.19	Catalytic Degradation of Phenolic Pollutants by a Ferrioxalate-Assisted Solar Photo-Fenton Process <i>A. Durán, M. Aguirre, I. San Martin, J.M. Frades, M.A. Alonso, M.C. López, A. Carnicer, J.M. Monteagudo</i>	446
PP4.20	Solar Photo-Fenton Treatment of Textile Dyehouse Effluents <i>T. Velegraki, D. Mantzavinos</i>	447
PP4.21	Evaluation of the Formation of Chlorinated Intermediates During Photo-Fenton Treatment of Saline Wastewaters <i>C. Sirtori, A. Zapata, S. Malato, A. Agüera</i>	449
PP4.22	Photofuelcell, an Apparatus that Consumes Organic Wastes to Produce Electricity <i>M. Antoniado, P. Lianos</i>	451
PP4.23	Solar Photo-Fenton Applied to Pesticide Removal on Advanced Greenhouses Waters <i>M.M. Micó, A. Zapata, M.I. Maldonado, C. Sans, J. Bacardit</i>	453
PP4.24	Development of Fe, V, Ag, Ce, S-codoped TiO ₂ Photocatalyst for Alachlor Degradation under Visible Light <i>D. Tipayarak, N. Grisdanurak</i>	455



PP4.25	Photoinduced Superhydrophilicity on Nanostructured N-F Co-Doped Titania Films <i>A.G. Kontos, V. Likodimos, M. Pelaez, D.D. Dionysiou and P. Falaras</i>	457
PP4.27	Photodegradation of Bisphenol-A (BPA) with TiO ₂ Immobilized on Ti <i>V.M. Daskalaki, Z. Frontistis, D. Mantzavinos, A. Katsaounis</i>	459
PP4.28	Photonic Efficiencies and Mechanism of Photocatalytic Molecular Hydrogen Production over Platinized Titanium Dioxide from Aqueous Methanol Solutions <i>T.A. Kandiel, R. Dillert, D.W. Bahnemann</i>	461
PP4.29	Solar Photo-Fenton Degradation of a Mixture Containing Partially Aqueous Soluble Pesticides. Evaluation of Ecotoxicity and Biodegradability. <i>M. Jiménez, I. Oller, M.I. Maldonado, S. Malato, A. Hernández-Ramírez, J.M. Peralta-Hernández, A. Zapata</i>	462
PP4.30	Hydrogen Peroxide Automatic Control Based on Dissolved Oxygen Concentration During Solar Photo-Fenton Process <i>L. Prieto-Rodríguez, I. Oller, A. Agüera, S. Malato</i>	464
AUTHORS INDEX		467

PL Plenary Lecture

OP Oral Presentation

PP Poster Presentation

Underlined Presenting Author