

List of Contributions

Elaboration of Photocatalytic Films. Current Challenges and Selected Examples	13
Semiconductor WO ₃ Thin Films Deposited by Pulsed Reactive Magnetron Sputtering.....	14
Novel Complex Bismuth Oxide-Based Photocatalysts and Their Potential for Environmental Applications	15
Recent Advancements in Anodic TiO ₂ Nanotube Layers and Their Utilization For Photocatalytic Applications.....	16
Functionalisation of Commercially Available Photocatalytic Titania Particulates by Magnetron Sputter Deposition.....	17
Investigation of Different WO ₃ Modifications after Calcination of Films With Inorganic and Organic Precursors	18
Photo-Active Coatings for Surface Disinfection and Decontamination.....	19
Polymeric Surfaces with Depolluting, Self-Cleaning and Antimicrobial Properties	20
Antimicrobial Activity Assessment of Photocatalytic Surfaces: Proposals for a More Efficient Approach.....	21
Photocatalysis in the Czech Republic and Certification Program of the Czech Association of Applied Photocatalysis	22
Pitfalls in Electrochemistry of Semiconductors: Lessons Learned from the Studies of TiO ₂ , SnO ₂ And ZnO	23
Synthesis and Characterization of Copper Oxide Based Photoelectrocatalytic Active Materials	24
Photoelectrochemical Generation of H ₂ O ₂ Using Hematite (α -Fe ₂ O ₃) and Gas Diffusion Electrode (GDE).....	25
Transient IR Measurements as a Tool for Understanding Photoactive Materials	26
Formation of Bulk Polymeric Carbon Nitride and Their Thin Films for Photocatalytic Reduction Reactions	27
Synthesis of g-C ₃ N ₄ /Ag ₃ PO ₄ Heterostructures and Their Indoor Air Purification Activity	28
TiO ₂ Nanoparticle Layers Modified with Lanthanide Oxides for Water Treatment.....	29
Solar Photocatalytic Applications for Water Treatment and Regeneration	30
Continuous Flow Photocatalytic Reactor for Wastewater Treatment: Degree of Mineralization and Toxicity Assessment	31
Photocatalytic Degradation of Organic Pollutants Using Sunlight: From Laboratory to Outdoor Conditions	32
New Insights into Photocatalysts for Anti-Microbial Applications	33
The Effect of High Air Flow Velocity on Photocatalytic Efficiency in NO _x Degradation	34
Photocatalytic Removal of VOC Using TiO ₂ Nanotube Layers: Mass Transfer Limitations.....	35

Deposition of Copper – Nickel Oxide Thin Films by Pulsed Hollow Cathode (PHC) Sputtering	36
Photocatalytic Coatings with Superhydrophilic Properties for Indoor Air Treatment	37
Photoinduced Processes on Zinc Oxide Photocatalysts: A Spectroscopic Study	38
Light Stability of Redox Dyes in Photocatalytic Oxygen Indicator	39
Standardized Method for Evaluation of Commercial Photoactive Paints for Air Cleaning from NO _x	40
Photocatalytic Degradation of Gaseous Pollutants Using TiO ₂ Nanotubes.....	41
Photoelectrochemical Degradation of Organic Pollutants on Tungsten Trioxide Photoanodes	42
p-Cu ₂ O Films Prepared by Electrodeposition – Role of Electron Acceptors in the Stability of Electrodes During Photoelectrochemical Operation.....	43
Challenges of The Wet Chemical Deposition Synthesis of Pure-Phase CuFe ₂ O ₄ and CuFeO ₂ Thin Layers	44
Synthesis of Bismuth Oxyhalides and Their Applications in Water Cleaning	45
Development of Nanocomposites Based on Metal Organic Frameworks for Hydrogen Generation by Photocatalysis.....	46
Inactivation of Influenza Virus on Photocatalytically Active Nanoparticle and Nanotubular TiO ₂ Surfaces	47
Solar Decontamination of Surface Water Using a Floating Photocatalyst with Synergistic Sorption Function.....	48
Photo-Catalytic/Fenton Process-Based Elimination of Microplastics Using Iron-Modified Titanium Dioxide Aerogel Powders.....	49
Deposition of Fe ₂ O ₃ :Sn Semiconducting Thin Films by Reactive Pulsed r-HIPIMS + ECWR Co-Sputtering from Fe and Sn Target.....	50
Deposition of BiVO ₄ Thin Films by Reactive Magnetron Co-Sputtering for Efficient Visible Light Photoelectrochemical Water Splitting	51