

## PUBLICATION LIST

- 1) S. Horikoshi, T. Hamamura, M. Kajitani, M. Yoshizawa-Fujita and N. Serpone  
Chemical reactions with a novel 5.8-GHz microwave apparatus. 2. Prompt one-pot solvent-free synthesis of a major ionic liquid – the 1-butyl-3-methylimidazolium tetrafluoroborate system  
*Green Chemistry*, (2008) submitted.
- 2) S. Horikoshi, J. Tsuzuki, M. Kajitani and N. Serpone  
Microwave effect on the surface composition of the Urushibara Ni hydrogenation catalyst and improved reduction of acetophenone  
*Chem. Comm.*, (2008) submitted.
- 3) S. Horikoshi, T. Miura, M. Kajitani N. Horikoshi and N. Serpone  
Photodegradation of tetrahalobisphenol-A (X = Cl, Br) Flame retardants and delineation of factors affecting the process  
*Appl. Catal. B: Environ.*, (2008) submitted.
- 4) S. Horikoshi  
Efficient photocatalytic degradation of water- and air-pollutants by using the microwave discharge electrodeless lamp (MDEL): Short review  
*J. Microwave Power Electromagnetic Energy*. (2008) accepted.
- 5) S. Horikoshi, S. Iida, M. Kajitani, S. Sato and N. Serpone  
Chemical Reactions with a Novel 5.8-GHz Microwave Apparatus. 1. Characterization of Properties of Common Solvents and Application in a Diels–Alder Organic Synthesis  
*Org. Process. Res. Dev.* **12**, pp. 257–263 (2008).
- 6) S. Horikoshi, T. Miura, M. Kajitani and N. Serpone  
Microwave discharge electrodeless lamps (MDEL). III. Vacuum UV and short-wavelength UV photolyses of the 2,4-D herbicide and the BPA endocrine disruptor in aqueous media using an in situ tungsten-triggered MDEL electrodeless lamp  
*Photochem. Photobiol. Sci.*, **7**, pp. 303–310 (2008).
- 7) S. Horikoshi, M. Kajitani, H. Hidaka and N. Serpone

Investigation of factors that influence TiO<sub>2</sub> photoassisted degradations under simultaneous illumination by UV and microwave radiation fields

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*J. Photochem. Photobiol. A:Chem.*, **194**, pp. 189–199 (2008).
- 9) S. Horikoshi, M. Kajitani, N. Horikoshi, R. Dillert and D. W. Bahnemann,  
Use of microwave discharge electrodeless lamps (MDEL) II. Photodegradation of acetaldehyde over TiO<sub>2</sub> pellets  
*J. Photochem. Photobiol. A:Chem.*, **193**, pp. 284–287 (2008).
- 10) H. Hidaka, H. Honjo, S. Horikoshi and N. Serpone  
Photoinduced Ag<sub>n</sub><sup>0</sup> cluster deposition. Photoreduction of Ag<sup>+</sup> ions on a TiO<sub>2</sub>-coated quartz crystal microbalance monitored in real time  
*Sensors Actuators B: Chem.*, **123**, pp. 822–828 (2007).
- 11) S. Horikoshi, N. Ohmori, M. Kajitani and N. Serpone  
Microwave-enhanced bromination of a terminal alkyne in short time at ambient temperature: Synthesis of phenylacetylene bromide  
*J. Photochem. Photobiol. A:Chem.*, **189**, pp. 374–379 (2007).
- 12) S. Horikoshi, M. Kajitani and N. Serpone  
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*J. Photochem. Photobiol. A:Chem.*, **189**, pp. 355-363 (2007) .
- 13) S. Horikoshi, M. Kajitani and N. Serpone (**Hottest paper; 20-ranking**)  
The microwave-/photo-assisted degradation of bisphenol-A in aqueous TiO<sub>2</sub> dispersions revisited - Re-assessment of the microwave non-thermal effect  
*J. Photochem. Photobiol. A:Chem.* , **188**, pp. 1-4 (2007).
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