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Authors: Ivana Grčić, Gianluca Li Puma

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Six-flux absorption-scattering models for photocatalysis under wide-spectrum irradiation sources in annular and flat reactors using catalysts with different optical properties

Ivana Grčić[a*] and Gianluca Li Puma[b**]

[a] Faculty of Chemical Engineering and Technology, University of Zagreb, Marulicev trg 19, 10000 Zagreb, Croatia.

[b] Environmental Nanocatalysis & Photoreaction Engineering, Department of Chemical Engineering, Loughborough University, Loughborough, LE11 3TU, United Kingdom

* Corresponding author 1: Faculty of Chemical Engineering and Technology, University of Zagreb, Marulicev trg 19, 10000 Zagreb, Croatia. E-mail address: igrcic@fkit.hr

** Corresponding author 2: Environmental Nanocatalysis & Photoreaction Engineering, Department of Chemical Engineering, Loughborough University, Loughborough, LE11 3TU, United Kingdom. Tel.: 0044(0)1509222510; fax: 0044(0)1509223923. E-mail address: g.lipuma@lboro.ac.uk