

Ecotoxicological consequences of the abatement of contaminants of emerging concern by ozonation – does mixture complexity matter?

Fátima Jesus¹, Carla Bernardo², Rui C. Martins², João Gomes², Joana L. Pereira

¹ CESAM - Centre for Environmental and Marine Studies, Department of Environment and Planning, University of Aveiro, Campus de Santiago, 3810-193 Aveiro, Portugal

² CIEPQPF – Chemical Engineering Processes and Forest Products Research Center, Department of Chemical Engineering, Faculty of Sciences and Technology, University of Coimbra - Pólo II, Rua Sílvio Lima, 3030-790 Coimbra, Portugal

³ CESAM - Centre for Environmental and Marine Studies, Department of Biology, University of Aveiro, Campus de Santiago, 3810-193 Aveiro, Portugal

Corresponding author

Fátima Jesus (fatima.jesus@ua.pt)

SUPPLEMENTARY MATERIAL

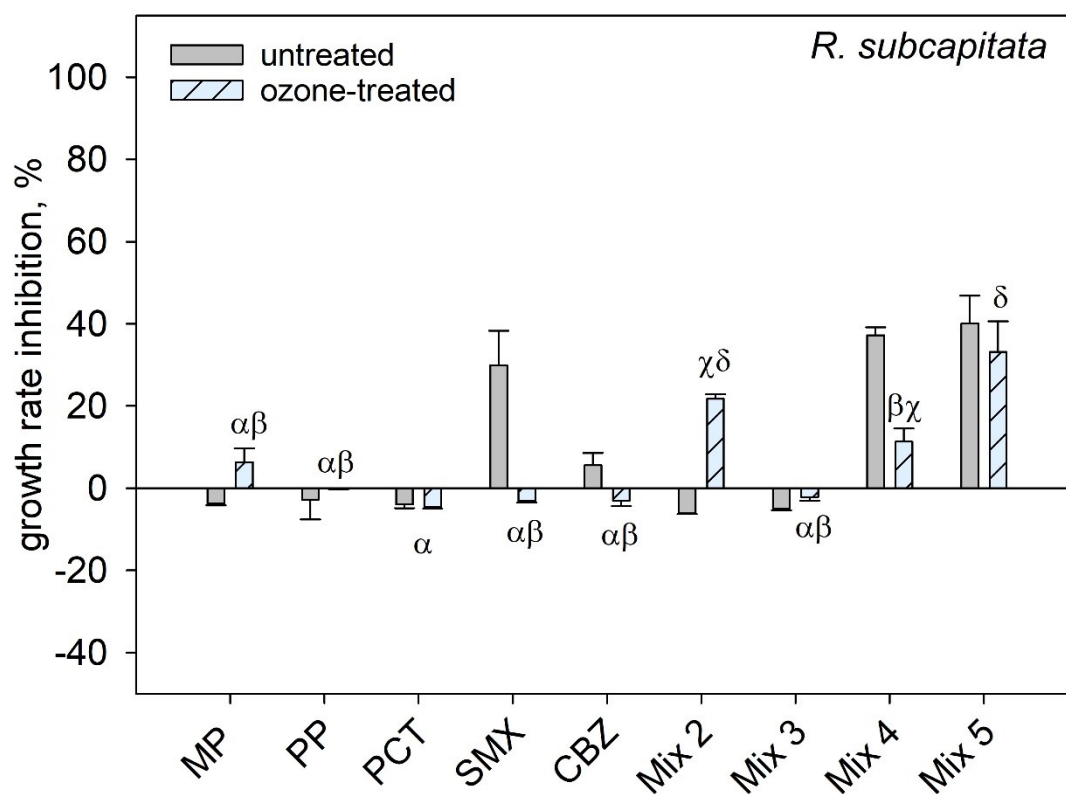


Figure S1: Growth rate inhibition of *Raphidocelis subcapitata* after 96 h of exposure to untreated and ozone-treated solutions. The bars represent the mean and the error bars represent the standard error of the mean. Mix 2: MP+PP; Mix 3: MP+PP+PCT; Mix 4: MP+PP+PCT+SMX; Mix 5: MP+PP+PCT+SMX+CBZ. Different Latin letters indicate significant differences among untreated samples; different Greek letters indicate significant differences among ozone-treated samples.

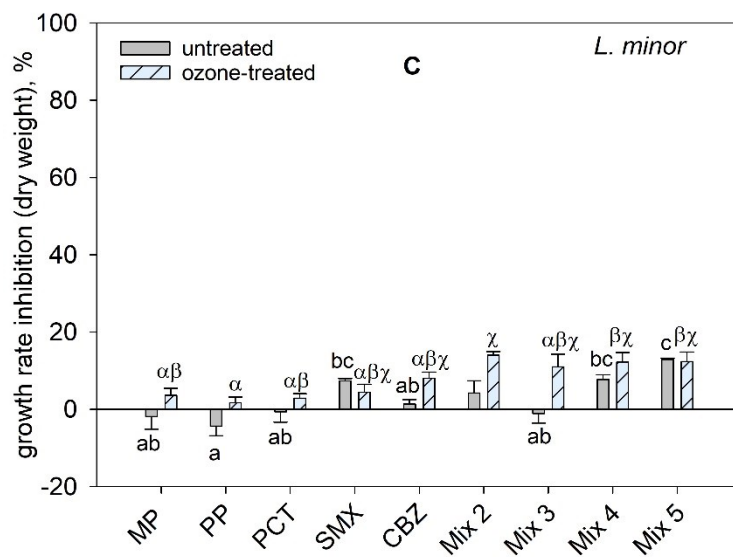
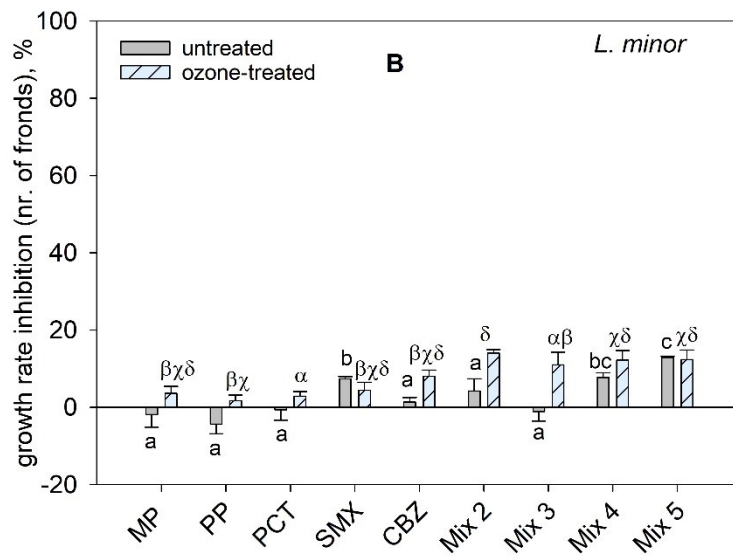
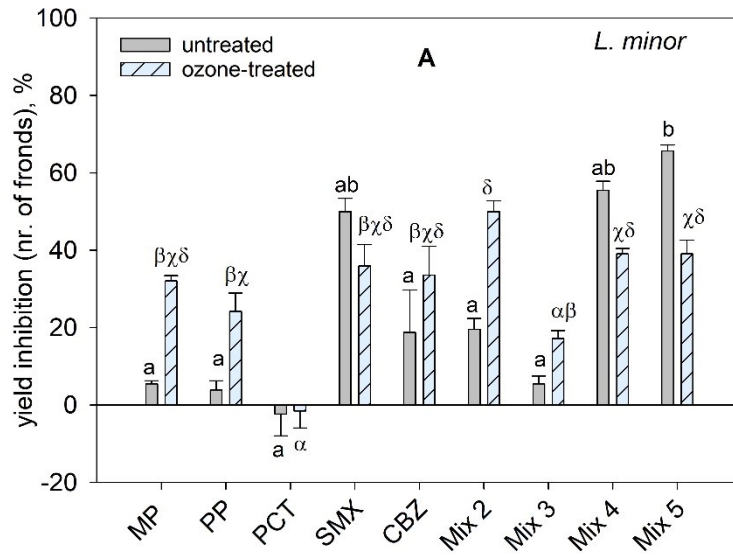


Figure S2 – Ecotoxicological responses of *Lemna minor* after 7d of exposure to untreated and ozone-treated solutions, expressed as: yield inhibition as a function of the number of fronds (A); growth rate inhibition as a function of dry weight (B); growth rate inhibition as a function of the number of fronds (C). The bars represent the mean and the error bars represent the standard error of the mean. Mix 2: MP+PP; Mix 3: MP+PP+PCT; Mix 4: MP+PP+PCT+SMX; Mix 5: MP+PP+PCT+SMX+CBZ. Different Latin letters indicate significant differences among untreated samples; different Greek letters indicate significant differences among ozone-treated samples.

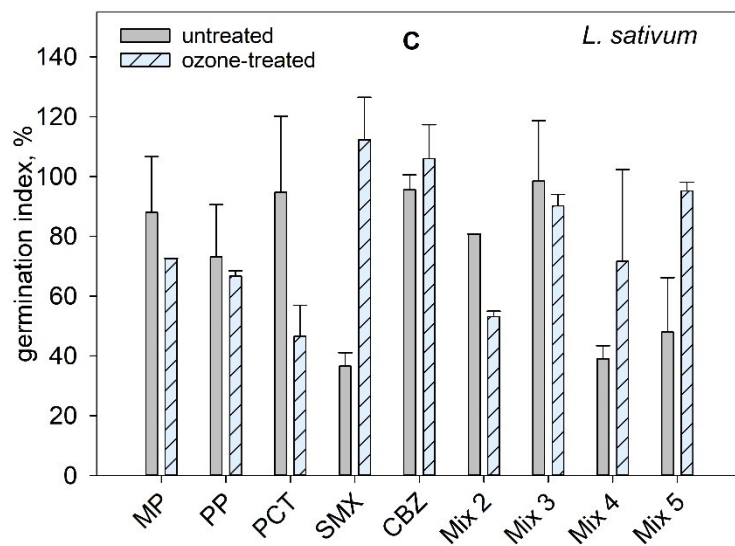
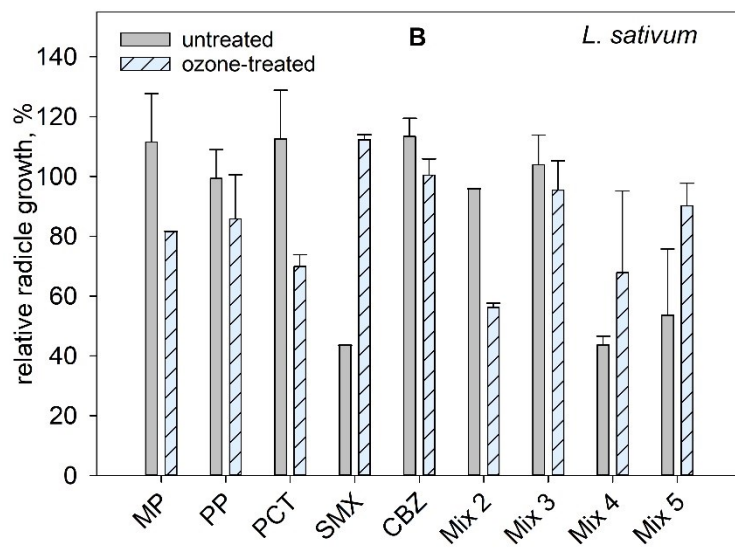
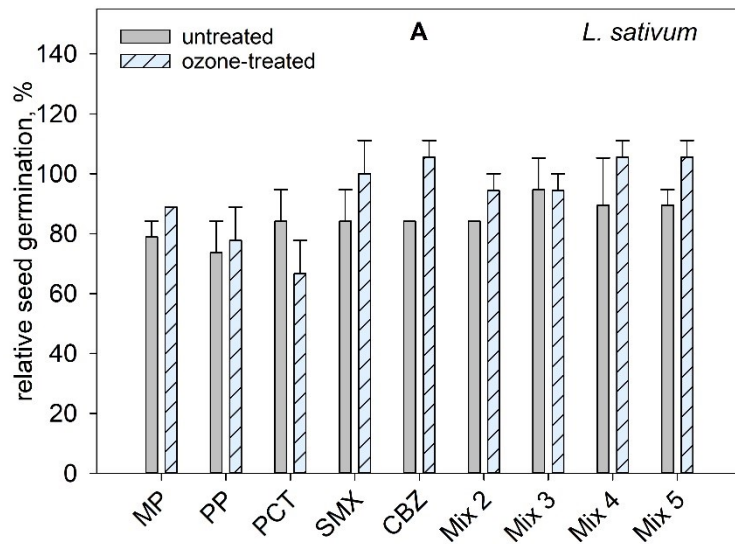


Figure S3 – Ecotoxicological responses of *Lepidium sativum* after 48h of exposure to untreated and ozone-treated solutions, expressed as: relative seed germination (RSG; A); relative radicle growth (RRG; B) and germination index (GI, C). The bars represent the mean and the error bars represent the standard error of the mean. Mix 2: MP+PP; Mix 3: MP+PP+PCT; Mix 4: MP+PP+PCT+SMX; Mix 5: MP+PP+PCT+SMX+CBZ. No statistically significant differences among untreated samples and ozone-treated samples were observed.