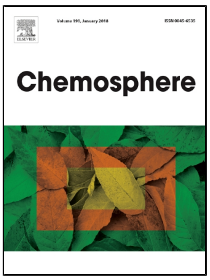
Accepted Manuscript



Advanced oxidation of real sulfamethoxazole + trimethoprim formulations using different anodes and electrolytes

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PII:	S0045-6535(17)31722-8
DOI:	10.1016/j.chemosphere.2017.10.136
Reference:	CHEM 20158
To appear in:	*Chemosphere*
Received Date:	07 September 2017
Revised Date:	20 October 2017
Accepted Date:	25 October 2017

Please cite this article as: Juan C. Murillo-Sierra, Ignasi Sirés, Enric Brillas, Edgar J. Ruiz-Ruiz, Aracely Hernández-Ramírez, Advanced oxidation of real sulfamethoxazole + trimethoprim formulations using different anodes and electrolytes, *Chemosphere* (2017), doi: 10.1016/j.chemosphere.2017.10.136

Research highlights

- Mixture of drugs treated with an IrO_2-based, Pt or BDD anode and an air-diffusion cathode
- Larger degradation in sulfate medium: EO-H_2O_2 < EF < PEF < SPEF, regardless of the anode
- Quicker degradation using the BDD/air-diffusion cell in all methods
- Similar apparent rate constants for EF, PEF and SPEF due to main attack of $^{\bullet}OH$ in the bulk
- Presence of Cl^-: enhanced drug decay due to active chlorine, but slower mineralization