SUPPLEMENTARY MATERIAL

**Table SI0 Search keywords used**

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| Endpoint category | Search terms\* |
| partitioning | organic carbon, organic matter, Koc, Kd, sorption, model, QSAR, QSPR, organic, chemicals, pharmaceuticals, pesticides, herbicides, soil, sludge, sediment, partitioning, mineral surfaces, minerals, prediction |
| Abiotic degradation | chlorination, ozonation, oxidation, hydroxyl radical, hypochlorous acid, sodium hypochlorite, chlorine, chlorine dioxide, hydrogen peroxide, singlet oxygen, quenching, Fenton, UV, O3, OH, Cl2, HClO, ClO2, filtration, nanofiltration, microfiltration, sand filtration, model, QSAR, QSPR, organic, chemicals, pharmaceuticals, pesticides, herbicides, dyes, prediction, treatment, tertiary, degradation rate, rate constant |
| biodegradation | biodegradation, microbial, bacteria, microbial, degradation, transformation, rate constant, kb, second order, first order, parent, removal, primary, water, aqueous, prediction, QSAR, QSBR, pharmaceuticals, pesticides, OECD 309, OECD 301 |
| bio-concentration | bio-concentration, BCF, fish, benthic, worms, crustaceans, algae, daphnia, internal concentration, aqueous, water |

\*Search terms used for QSPR database were ‘Koc’, ‘sorption’ and ‘organic carbon’ (partitioning), ‘OH’, ‘water’, ‘hydroxyl’ ‘ozone’, ‘UV’, ‘chlorination’ and ‘abiotic’ (abiotic degradation)