**Table A1. Search string development**

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| **17.05.2022** | Unselected WOS categories  Timespan 2000-2021. Search language=English   Lemmatization=Off  SEARCH = TOPIC | Hits |
| Relevant KEY WORDS | (("species diversity" OR "biodiversity" OR "species richness" OR "species abundance" OR "species similarity" OR "species composition" OR "community composition" OR "functional biodiversity") AND ("prefer\*ability\*ence"OR "perception" OR "scenic beauty" OR "scenic assessment" OR "scenic value" OR "public preferences" OR "landscape preferability" OR "perceived value" OR "visual landscape assessment" OR "visual landscape indicators" OR "landscape sensory dimensions" OR "perceived site attributes") AND ("ecoaesthetics" OR "cultural ecosystem service" OR " aesthetic value" OR "landscape aesthetics" OR "landscape aesthetic quality" OR "cultural ecosystem benefits" OR "well-being benefits" OR "landscape amenities") AND ("urban\*")) | 11 |
| Delete prefer\*ability\*ence, and preferability, preference; merge the second and third line with OR, calibrating of groups: delete AND before “ecoaesthetics”. | (("species diversity" OR "biodiversity" OR "species richness" OR "species abundance" OR "species similarity" OR "species composition" OR "community composition" OR "functional biodiversity") AND ("preferability" OR "preference" OR "perception" OR "scenic beauty" OR "scenic assessment" OR "scenic value" OR "public preferences" OR "landscape preferability" OR "perceived value" OR "visual landscape assessment" OR "visual landscape indicators" OR "landscape sensory dimensions" OR "perceived site attributes" OR "ecoaesthetics" OR "cultural ecosystem service" OR "aesthetic value" OR "landscape aesthetics" OR "landscape aesthetic quality" OR "cultural ecosystem benefits" OR "well-being benefits" OR "landscape amenities") AND ("urban\*")) | 645 |
| Add "preference\*", "perception\*" and "cultural ecosystem service\*" | (("species diversity" OR "biodiversity" OR "species richness" OR "species abundance" OR "species similarity" OR "species composition" OR "community composition" OR "functional biodiversity") AND ("preferability" OR "preference\*" OR "perception\*" OR "scenic beauty" OR "scenic assessment" OR "scenic value\*" OR "public preferences" OR "landscape preferability" OR "perceived value\*" OR "visual landscape assessment" OR "visual landscape indicator" OR "landscape sensory dimensions" OR "perceived site attributes" OR "ecoaesthetics" OR "cultural ecosystem service\*" OR "aesthetic value" OR "landscape aesthetics" OR "landscape aesthetic quality" OR "cultural ecosystem benefits" OR "well-being benefits" OR "landscape amenities") AND ("urban\*")) | 1230 |