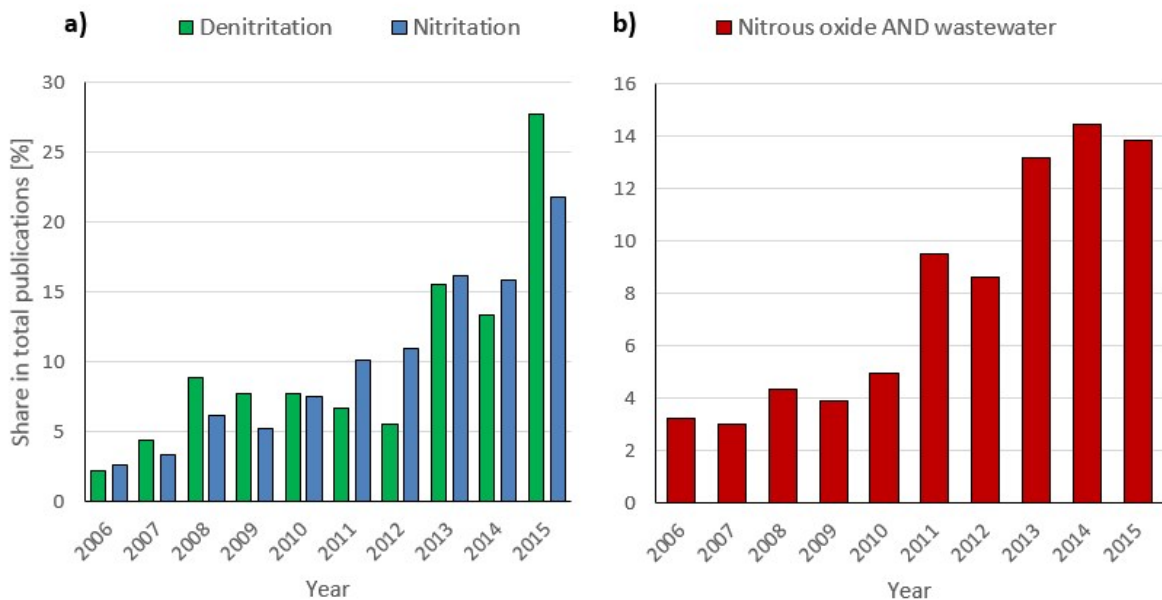


1 Supplemental Information

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4 Figure 1: Illustration of the publication trends in the core collection of Web of Science™ of
5 a) nitritation, denitrification and b) publications including both terms nitrous oxide and
6 wastewater in the topic.

7 To illustrate the present relevance of short-cut biological nitrogen removal processes
8 the shares of total publications in the core collection of Web of Science™ per year
9 from 2006 to 2015 are presented. As examples for short-cut BNR, the search was
10 executed for the expressions (a) “*nitritation*” and “*denitrification*” and (b) “*nitrous oxide*
11 *AND wastewater*”. The increasing trends in a) and b) illustrate the historical
12 development and underline the development of such processes towards central
13 techniques in biological wastewater treatment. However, no consistent
14 nomenclature exists for their description so far.