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Natural acidification of soil by nitric acid derived from feces of water bird (Phalacrocorax carbo)

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A small pond named Yamada-Onuma in Japanese, located in western Kanto prefecture, is highly eutrophic with the inflow of nitrate and phosphorus derived from feces of cormorant (Phalacrocorax carbo). Nitrate as nitric acid is produced at the watershed of this pond by the oxidation of ammonia, which strongly acidifies the soil of watershed.

Keywords: cormorant, nitric acid, acidification, soil