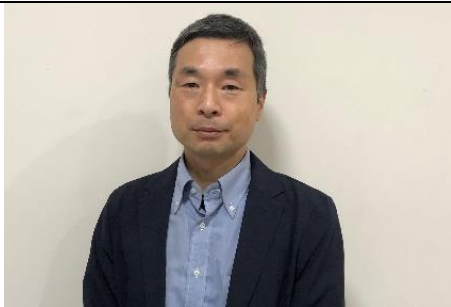


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<b>Main research interests</b>	<p><u>Impact of land use changes on soil:</u> Population growth affects land use change. In Japan, the population grew rapidly in the mid-20th century and the land area spread seaward. The land area has been created by landfill materials, forming new soils. On the other hand, due to changes in the population structure in the early 21st century, agricultural land decreases and becomes abandoned, and the soils distributed within agricultural land also change under the natural process, as they are no longer subject to artificial management.</p> <p><u>Watershed studies:</u> Valuable wetland ecosystems are established on a balanced material cycle. Changes in land use in the catchment affect the material cycle of the ecosystem. Material cycles through natural water are strongly influenced by changes in land use, but changes in heat transfer after the development of natural ecosystems also affect the water status leading to changes in soil redox. Solute composition in the water system tells us the influences of the land use changes.</p>
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