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is a professor of Frontier Research Center & Materials and Structures Laboratory of Tokyo Institute of Technology. The current research interest includes creation of wide band gap crystalline and amorphous oxide materials with photonic and electronic functions and defect engineering in amorphous SiO₂ and related materials.

He received BE, ME and Doc of Eng. Degree in Applied Chemistry from The Tokyo Metropolitan University. Before joining TiTech, he served as an associate professor of National Institute for Molecular Science and Nagoya Institute of Technology. He has served the leader of “Hosono Project of Transparent Electro-Active Materials “Exploratory Research for Advanced Technology (ERATO), sponsored by The Japan Science and Technology Corporation (JST) from October 1, 1999 to September 30, 2004. This project has renewed due to success to September 30, 2009 as ERATO-SORST(Solution-Oriented Study for Science and Technology). He received several awards including Otto-Schott Research Award (1990), W.H.Zachariasen Award(1995), Achievement Awards from the Chemical Society of Japan (2004) and the Ceramic Society of Japan(1999) and Research Award (2005) from the Japanese MEXT minister.

