

Professor Mamoru Senna
Keio University, Yokohama



Mamoru SENNA is a professor at Department of Applied Chemistry in Keio University in Yokohama. After his promotion in Keio University in 1971, he carried out his post-doctoral research works in RWTH Aachen, and University of Karlsruhe, Karlsruhe.

His background is physical chemistry of fine particulate solids, with preferential research field of solid state reactions and reactivity of solids. His particular interest is concentrated on the mechanochemical reactions at the boundary between inorganic and organic solids. He is one of the co-founders of International Mechanochemical Association.

His recent activity is concentrated on the rationalization of preparation processes of functional fine particles in view of energy storage devices, particularly for all-oxide solid-state Li-ion batteries. His recent research activities are associated with some research institutes in European countries, among others, Institute Josef Stefan, Ljubljana, Institute of Nanotechnology in Karlsruhe Institute of Technology, Institute of Geotechnics, SAS, Kosice, and J. Heyrovsky Institute of Physical Chemistry, Prague.

His latest publications are :

- Chemical and thermal properties of VO_2 mechanochemically derived from V_2O_5 by co-milling with paraffin wax, *RSC Adv*, 2018, **8**, 21306-21315,
- Li insertion into $\text{Li}_4\text{Ti}_5\text{O}_{12}$ spinel prepared by low temperature solid state route: Charge capability vs surface area, *Electrochim. Acta*, 2018, **265**, 480-487
- How can we make solids more reactive? —Basics of mechanochemistry with a new insight—, *ChemTexts*, 2017, **3**, 1-13,

Web of Science registers 283 publications, cited 4788 times, with his h-index 33, as of 17.08.2018.