

Poster Presentation

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Japanese Science & Technology with Crystallography

G. Kurisu¹, Y. Sugawara¹, A. Nakagawa¹, M. Takata¹

¹International Year of Crystallography 2014 Japan Initiative, Osaka, Japan

Divers Japanese Science and Technology has advanced together with the progress of crystallography in biology, chemistry, physics, materials science, metallurgy, electronics, engineering, geoscience, etc. Based on the highly scientific and crystallographic technology, Japan has been a great contributor in developing of high-end X-ray generator, electron microscope as well as large scale Photon Science facilities, such as Photon Factory (SR), SPring-8 (SR), J-PARC (Neutron) and SACLA (XFEL). Under such background, we promote IYCr2014 with the partnership of 36 academic societies in the field of pure and applied sciences. In the last half-century, developments in crystallography have also helped thriving manufacturing sectors such as the semiconductor, the iron and steel, the pharmaceuticals, the electronics, the textile, and the chemical industries. Some of the recent impressive outcomes in Japan are fundamental findings of photosynthesis [1] and pristine asteroid [2]. Crystallography in Japan keeps promoting our nationwide projects grappling with global problems such as environment and food, and will contribute to realize a sustainable society.

[1] Y. Umena, K. Kawakami, J. R. Shen and N. Kamiya, "Crystal structure of oxygen-evolving photosystem II at a resolution of 1.9Å", *Nature*, 2011, 473, 55-60., [2] A. Tsuchiyama et al., "Three-Dimensional Structure of Hayabusa Samples: Origin and Evolution of Itokawa Regolith", *Science*, 2011, 333, 1125-1128



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