



Preface

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This special issue of Catalysis Survey from Asia is dedicated to the 9th Tokyo Conference on Advanced Catalytic Science and Technology (TOCAT9), which was held from July 24 to 29, 2022 in Fukuoka, Japan, chaired by Prof. Tatsumi Ishihara with Prof. Masato Machida as secretary, Prof. Hisahiro Einaga as program chair, Prof. Shintaro Ida as financial chair, Prof. Atsushi Takagaki as vice secretary, and other professors. This is the most recent in a series of international conferences organized by the Catalysis Society of Japan as a continuation of TOCAT (1990), TOCAT2 (1994), TOCAT3 (1998), TOCAT4 (2002), TOCAT5 (2006), TOCAT6/APCAT5 (2010), TOCAT7 (2014), and TOCAT8 (2018). This conference series has promoted closer ties between academia and industry, encouraged young researchers in the field of catalysis, and greatly contributed to exchanging new ideas and technologies and promoting developments of new outstanding catalysts and systems. Even during the

coronavirus pandemic, this conference was successfully carried out as a hybrid event (in-person and virtually) with 712 participants including 393 participants who joined in-person. It is confirmed that catalysis is a highly and eagerly demanded technology in industries and for sustainable society and drives innovation in many other fields. The details of the conference can be found by following this URL: <https://tocat.catsj.jp/9/>.

The contributors to the oral presentation in this conference were invited to submit a paper to Catalysis Surveys from Asia, and one review article and ten original papers are selected in this special issue. We hope this special issue will contribute to further development in this field.

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