

***Journal of Smart Processing***

**Vol. 11 No. 1 2022 (January 2022)**

**CONTENTS**

Prospects and Challenges for Coal Processes toward Carbon Neutrality in 2050

<b>S.P.S.Announcement</b> .....	N1
---------------------------------	----

Preface	Manabu TANAKA..... 1
---------	----------------------

Preface of Reviews

Prospects and Challenges for Coal Processes toward Carbon Neutrality in 2050	Manabu FUCHIHATA..... 3
--	-------------------------

**Reviews**

Challenges toward 2050 Carbon Neutrality in Fossil Fuel Utilization Process	Toshiyuki SUDA..... 4
---	-----------------------

Prospects of Coal Utilization Technologies toward the Low-carbon and Carbon-free Energy Resources	Kenji KATO, Suguru TAKEDA and Yoshihiro ONO.....11
--	--

Approach towards Carbon Neutral Operation Using Bio-Coke Derived from Mixed Biomass Resources at Gasifying and Direct Melting Facilities	Junichi KAKUMAZAKI, Takahisa SUZUKI, Hidetoshi KAWABATA and Keiichi OKUYAMA..... 18
---	--

Current Situation and Foresight on Development of Coal Utilization Technology	Ryuichi ASHIDA..... 25
---	------------------------

Current Status and Future Prospects of Carbon Dioxide Geosequestration	Tetsuya SUEKANE..... 30
--	-------------------------

<b>S.P.S.News</b> .....	N6
-------------------------	----