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Naha, Japan**



**The Society of Chemical Engineers, Japan
Korean Institute of Chemical Engineers
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B11 Enhancing carbonation efficiency of coal fly ash via alkaline activator for carbon mineralization

Seohui Jeon, Purnaning Tuwuh Triwigati, Gyudae Sim, Dongju Seo and Youngjune Park

School of Environment and Energy Engineering, Gwangju Institute of Science and Technology, Korea

B12 Economic evaluation of a supply chain to produce biochar from fruit tree pruned branches

Taiyo Azuma¹, Kazuo Matsuyama² and Ken-Ichiro Sotowa¹

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B13 Removal of fluorine by adsorption with inorganic adsorbent

Naoyuki Shinohara, Syouhei Nishihama and Kazuharu Yoshizuka

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B14 Preparation and characterization of carbon-based materials from lignin-ammonium nitrate mixtures

Momoko Sugiyama¹, Kento Shiota², Naoki Yoshihara², Eiko Higashi², Katsumi Katoh² and Takafumi Kato²

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B15 Production of valuable chemical materials via the catalytic pyrolysis of e-wastes

Hye-rim Son¹, Sumin Pyo², Siyoung Q. Choi² and Young-Kwon Park¹

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B16 Removal of phosphate from water by activated carbon loaded with lanthanum hydroxide

Hiroto Shiratsuchi, Syouhei Nishihama and Kazuharu Yoshizuka

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B17 Improved biohydrogen production using Ni/Zr_xCe_yO₂ catalyst in the steam gasification of sewage sludge in foam reactor

Haneul Shim, Behzad Valizadeh, Sejin Hwang and Young-Kwon Park

School of Environmental Engineering, University of Seoul, Korea

B18 An efficient recycling of precious metals from automotive catalysts using