

Korean J. Chem. Eng.  
33(12) 3299-3594 (2016)  
Print: ISSN 0256-1115  
Online: ISSN 1975-7220

Korean Journal of Chemical Engineering

# Korean Journal of Chemical Engineering

Vol. 33, No. 12, December 2016

Vol. 33, No. 12, December 2016 pp. 3299-3594

 Springer

 **KIChE**  
The Korean Institute of Chemical Engineers