

CONTENTS

Empirical Analysis of Wind Power Potential at Multiple Heights for North Dakota Wind **Observation Sites**

Yong HOU; Yidong PENG; A. L. Johnson; Jing SHI (1)

Overview of Process Modeling Software: Utilizing Alternative Fuels in Cement Plant for Air Pollution Reduction

Emad Benhelal; Alireza Rafiei (10)

Assessing the Contribution of Carbon Emissions Trading in China to Carbon Intensity Reduction

Hancheng DAI; Toshihiko Masui (19)

The Effect of High Pressures and High Temperatures on the Properties of Water Based **Drilling Fluids**

Mahmood Amani; Mohammed Al-Jubouri (27)

Properties Analysis of Spent Catalyst for Fixed-Bed Residue Hydrotreating Unit: Composition of Deposited Elements Along Catalyst Bed

SUN Yudong; YANG Chaohe; LIU Ziyuan (34)

A Global Kinetic Mechanism for the Prediction of Hg Oxidation by a Chlorine Species

Hans Agarwal; Carlos E. Romero; Fernando Hernandez Rosales; Crisanto Mendoza-Covarrubias (41)

Steam Condensation Cooled by Piezoelectric Driven Oscillating Air Flow

CHENG Ting; HU Ling; WU Yajuan; XIONG Yangheng (55)

Hydrate Formation: Considering the Effects of Pressure, Temperature, Composition and Water Jerome Rajnauth; Maria Barrufet; Gioia Falcone (60)

Unconventional Oil Potential Tends to Change the World Oil Market

Ekaterina Grushevenko; Dmitry Grushevenko (68)