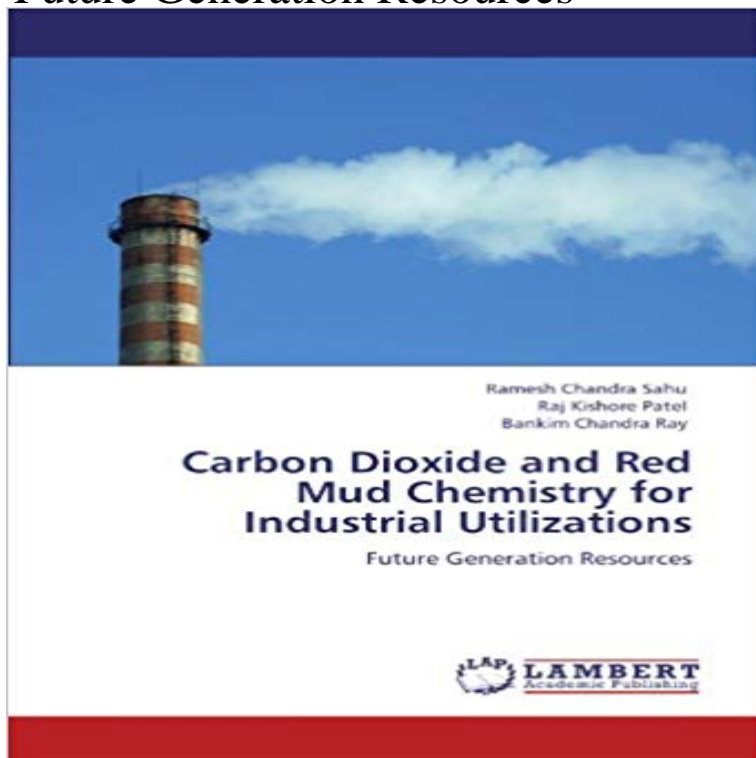


# Carbon Dioxide and Red Mud Chemistry for Industrial Utilizations: Future Generation Resources



The increase of anthropogenic inorganic CO<sub>2</sub> concentration in the atmosphere is creating global challenging problem for the future generation. The climate change and global warming can be reduced through utilization of greenhouse gases.

Reduction/oxidation of CO<sub>2</sub> changes the electronic arrangement on the atom due to loss or gain of the electron. Linear shape changes to angular shape, which can able to decrease heat (IR radiation) absorption capacity. The linear shape (O=C=O), highly stable molecule undergoes molecular vibrational transition due to its change of dipole moment, by receiving solar (IR) radiation reflected from earth, which causes global warming. But, it cannot re-radiate heat radiation into the earth atmosphere by change of its shape. CO<sub>2</sub> is an abundant, inexpensive, nontoxic at low concentration, biorenewable, and economical resource. Whereas, red mud is composed of micro-nanomaterials of heterogeneous metal oxides of Fe<sub>2</sub>O<sub>3</sub>, Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>, Na<sub>2</sub>O, CaO, TiO<sub>2</sub>, etc. Both are attractive future generation resources green chemistry for the socio-economical-ecological sustainable development of industry.

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of alumina from bauxite in the . Resources of bauxite in the country as on 1.4.2010, as per . Company. Red mud generation in India .. 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