

## Chlorine in Coal: Proceedings (Coal Science and Technology)



The Illinois basin coals have a chlorine content which varies from 0.1% to values in excess of 0.5%. The mean chlorine content of the coal being mined is steadily rising. Customers are already expressing some unease and contracts limiting the chlorine content of coal have been reported. This has potentially significant implications for the industry. The object of this Conference was to attempt to quantify the impact of coal chlorine content on a variety of coal-using technologies, and to identify new research which is necessary to allow a rational definition of the limits of chlorine content required for each technology. The distribution of chlorine in the Illinois Basin coals was considered, and the current state of knowledge of the forms in which the chlorine is present in the coal was reviewed. The release of the chlorine from the coal during its processing, and the forms in which it is present in the products was examined. This information permits an assessment of the viability of methods of removing chlorine, either in coal preparation or from the post-processing products. The effect of chlorine on the coal conversion and combustion processes, and on the balance of the plant was reviewed. The most important effects are on the corrosion of construction materials at both high and low temperatures. These proceedings should be of interest to power plant, corrosion, and chemical engineers, and to coal cleaning technologists and researchers.

**: Coal Science & Technology - Energy Production** Chlorine in coal : proceedings of an international conference. [John Stringer D D Banerjee Series: Coal science and technology, v. 17. Edition/Format: Print **Behavior of Chloride during Coal Combustion in an AFBC System** replication of these demonstrated technologies for biomass co-firing, which Importance of coal ash composition in protecting the boiler against chlorine (2005) Co-firing pulverized coal and biomass: A modeling approach, Proceedings **International Journal of Coal Science & Technology - a - Springer** Institute for Combustion Science and Environmental Technology,. Western investigate the effect of chlorine in coal on mercury emission and its speciation by selecting coals . In Proceedings, Conference on Air Quality: Mercury, Trace. **EFFECTS OF CHLORINE IN COAL ON BOILER SUPERHEATER** eds., Proceedings of the Coal Combustion

By-Products and Western Coal Mines: A . vent Cl-originated superheater corrosion in power plants: Fuel, v. 87, p. 647654. .. and adjacent cooling lake: Environmental Science and Technology, v. **High-Temperature Chlorine Corrosion during Co-Utilisation of Coal - Google Books Result** Aug 14, 2003 Environmental Science & Technology 2016 50 (9), 4863-4868 Mercury Transformation and NO Emission of Coal Combustion with CaCl<sub>2</sub> and NH<sub>4</sub>Cl Additives in a 6 The Fate of Fluorine and Chlorine during Thermal Treatment of Coals . Proceedings of the Combustion Institute 2007 31, 2855-2861 **PDF - Polish Journal of Environmental Studies** Proceedings of the International Conference on Coal Science, 1620 plot of chlorine removal from model compounds and IL#6 coal. marm conspunt K, whn . from Illinois coal by high temperature leaching, Fuel Processing Technology, 13 **Low Corrosivity of Coal Chlorine - Springer** chlorine in coal samples from one of the high-chlorine Illinois mines was . Coal-fired boilers, in Proceedings of EPRI Symposium The Effects of Coal W X t y On (eds), Coal Science and Technology 17: Chlorine in Coal, Ekevier Science **Geochemical Database of Feed Coal and Coal Combustion** Aug 3, 2006 Chlorine enhances mercury evolution in the coal combustion, whereas Proceedings of the Combustion Institute 2015 35 (3), 2883-2890 Journal of Zhejiang University-SCIENCE A 2010 11 (7), 530-537 The gene-editing technology mutates the viruss DNA, blocking its replication in immune cells. **chlorine in five illinois coals and three british coals - Argonne** Penn State has a long history of coal science and technology dating back to the 1930s and even earlier.\* We are one of the leading coal research centers **A study of chlorine behavior in a simulated fluidized bed - WKU** on coal science, (Proceedings ICCS, 97), DGMK Tagungsberichte 9703, pp. on corrosion at a straw- fired boiler, Fuel Processing Technology 64 (2000) pp. **Impact of Coal Chlorine on Mercury Speciation and Emission from a** Chlorine in Coal: Proceedings (Coal Science and Technology) by Spain International Conference on Coal Science 1995 Oviedo and J. M. D. Tascon : **Coal Science & Technology - Coal / Fossil Fuels: Books** The Illinois basin coals have a chlorine content which varies from 0.1% to values in excess of 0.5%. The mean chlorine content of the coal being mined is **Chlorine in Coal: Proceedings (Coal Science and Technology): J** Chlorine in Coal: Proceedings (Coal Science and Technology) by Spain International Conference on Coal Science 1995 Oviedo and J. M. D. Tascon **Mercury and Chlorine in the Balingian Coal from - UMExpert** Aug 9, 2014 mean of 139 ppm. The Balingian coal is highly depleted in Hg but it is enriched in Cl, with . a large extent, by applying physical cleaning tech- nologies this is .. Banerjee (Eds.), Chlorine in coal, Proceedings (Coal science. : **Coal Science & Technology - Fossil Fuels / Energy** Keywords: XAFS, sulfur, trace elements, calcium, chlorine, potassium. INTRODUCTION has been extensively applied to a variety of problems in coal science. **Theoretically Predicted Rate Constants for Mercury Oxidation by** Low Corrosivity of Coal Chlorine .. Manager, Energy Technology, Kerr-McGee Coal Corporation, 123 Robert S Kerr Street, Oklahoma City, OK, 73102 4. : **Coal Science & Technology - Chemical / Engineering** : Chlorine in Coal: Proceedings (Coal Science and Technology) (9780444874993) by Stringer, J. and a great selection of similar New, Used and Jul 12, 2001 Fuel Science and Combustion, Electric Power Research Institute, 3412 Hillview The results of the study indicate that using high-chlorine coal in an FBC low-cost technologies for mercury emission reductions from utility plants. .. capacities than bituminous coal fly ashes, but show, in most cases, very **Biomass Combustion Science, Technology and Engineering - Google Books Result** 511 pp. Chlorine in Coal is Volume 17 of the Coal Science and. Technology series published by Elsevier and is a conference proceedings based on 23 papers **Chlorine in Coal: Proceedings (Coal Science and Technology)** International Journal of Coal Science & Technology is a peer-reviewed open access journal published under the brand SpringerOpen. It focuses on key topics of **An Investigation of Mercury Emission from FBC Systems Fired with** 1997 Science and Technology Letters. Figure 1 Estimated of WTE plants in the 1960s modeled their designs on coal-fired psig)4-6. In many cases, failures of carbon steel boiler tubes due MSW INCINERATION TECHNOLOGY. The two **The role of chlorine in high temperature - Nickel Institute** Chlorine in Coal: Proceedings (Coal Science and Technology) by Spain International Conference on Coal Science 1995 Oviedo and J. M. D. Tascon **XAFS STUDIES OF COAL.** Book Citation Index in Web of Science. Core Collection (BKCI). Chapter from the book Developments in Combustion Technology presence of chlorine in the waste, are important drawbacks to waste-derived fuel use in WDF as well as the effect of its cofiring in coal power plants in terms of CO<sub>2</sub>, NO<sub>x</sub>, and SO<sub>2</sub>. **Coal Science & Technology EMS Energy Institute** content is in some cases low [4]. Our paper deals with the balance of chlorine in coal combustion and flue gas .. Coal. Combustion Science and Technology. **Chlorine in coal : proceedings of an international conference (Book** Feb 26, 1999 With increasing use of high-chloride coal for combustion in an AFBC system, . cases is Ca(OH)<sub>2</sub>, which is due to CaO reacting with water, CaSO<sub>4</sub>, CaCO<sub>3</sub>, and CaCl<sub>2</sub>. . Eds. Applied Science Publishers: New York, 1983 Chapter 5, p 87. . Environmental Science & Technology 2006 40 (24), 7886-7889.