Table of contents »

Bergakao's	
Preface Bibliothek Biblioth	vii
Organization	ix
Sponsors	xi
Contributers	xiii
Present day conditions in the world of Carbon Capture and Storage (CCS) projects L. Ribeiro e Sousa	1
Considerations on CO_2 storage in abandoned coal mines in China $M.C.He$	25
Carbon Capture and Storage (CCS) activities in China N. Zhang & L. Ribeiro e Sousa	37
Complex process couplings in systems pushed far-from-equilibrium: Applications to CO ₂ sequestration in carboniferous formations D. Elsworth, S. Wang, G. Izadi, H. Kumar, J. Mathews, J.S. Liu, DS. Lee & D. Pone	55
A fully coupled gas flow, coal deformation and thermal transport model for the injection of carbon dioxide into coal seams H. Qu, J.S. Liu, Z. Chen, Z. Pan & L. Connell	69
Micro-scale modeling of gas-coal interaction in coalbed seam—heterogeneity effect J.G. Wang & J.S. Liu	95
Considerations on the numerical modelling of injection processes of CO ₂ in geological formations with emphasis on carboniferous formations and abandoned coal mines E.A. Vargas Jr., R.Q. Velloso, W.N. Ribeiro, A.L. Muller & L.E. Vaz	107
Methodologies for risk analysis and decision making R. Leal e Sousa	125
Risk associated to storage of CO_2 in carboniferous formations. Application of Bayesian networks L. Ribeiro e Sousa & R. Leal e Sousa	153
The conceptual model for an abandoned coal mine reservoir <i>K. Piessens</i>	179
Author index	201