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for Environmental Protection in Shale Gas Development"; "Conversion of Marcellus Production Wastewater into Salable Products"; "Environmental Issues in Produced Water Disposal"; "Regulation of TDS and Chloride from Oil and Gas Wastewater in Pennsylvania"; "Management of Produced Water in Pennsylvania: 2010-2012"; "Evaluating Leachability of Residual Solids from Hydraulic Fracturing in the Marcellus Shale"; "Geological and Geotechnical Aspects of Shale Oil and Gas Well Development"; "Geotechnical Aspects of Shale Oil and Gas"; "The Role of Shallow Surface Investigations in Appalachian Shale Energy Development"; "Geomechanical Characterization of Shale Formations for Sustainable Production"; "Comminution of Solids Due to Kinetic Energy of High Shear Strain Rate: Implications for Shock and Shale Fracturing"; "Guided Ultrasonic Waves for the Nondestructive Evaluation Imaging of Pipes"; "Mechanical Behaviors of an Anisotropic Shale Rock"; "Shale Fracturing for Energy Recovery: Current Issues and Review of Available Analytical and Computational Models"; "Particle Stacking Model to Simulate Sedimentary Rock Microcracks"; "Geomechanics and Numerical Simulation of Hydraulic Fracturing"; "Fracture Mechanics Evaluation of Parameters Associated with Horizontal Hydrofracturing"; "Numerical Simulation of Simultaneous Growth of Multiple Interacting Hydraulic Fractures from Horizontal Wells"; "Subcritical Crack Propagation Enhanced by Chemical Injection"; "Numerical Analysis on Deformation Behavior of Expandable Casing and Contact Evaluation of Its Threaded Connection"; "Hydro-Mechanical Coupled Model of Hydraulic Fractures Using the eXtended Finite Element Method"; "Modeling Flow Regime in Shale Using Isogeometric Analysis"; "Characterizing and Validating Seismic Impact"; "Towards a Real-Time Forecast of Induced Seismicity for Enhanced Geothermal Systems"; "Predicting the Seismic Hazard Due to Deep Injection Well-Induced Seismicity"
