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Sijian Zheng, Yanbin Yao, Dameng Liu, Yidong Cai, Yong Liu

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## **ACCEPTED MANUSCRIPT**

# Characterizations of full-scale pore size distribution, porosity and permeability of coals: a novel methodology by nuclear magnetic resonance and fractal analysis theory

Sijian Zheng <sup>a, b, c</sup>, Yanbin Yao <sup>a, b</sup>\*, Dameng Liu <sup>a, b</sup>, Yidong Cai <sup>a, b</sup>, Yong Liu <sup>a, b</sup>

<sup>&</sup>lt;sup>a</sup> School of Energy resource, China University of Geosciences, Beijing 100083, China

<sup>&</sup>lt;sup>b</sup> Coal Reservoir Laboratory of National Engineering Research Center of CBM Development & Utilization, China University of Geosciences, Beijing 100083, China

<sup>&</sup>lt;sup>c</sup> Beijing key laboratory of unconventional natural gas geological evaluation and development engineering

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