

Colin R Ward

List of Publications by Year in descending order

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122
papers

10,305
citations

26567

56
h-index

32761

100
g-index

125
all docs

125
docs citations

125
times ranked

3885
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis and significance of mineral matter in coal seams. <i>International Journal of Coal Geology</i> , 2002, 50, 135-168.	1.9	676
2	A review of anomalous rare earth elements and yttrium in coal. <i>International Journal of Coal Geology</i> , 2016, 159, 82-95.	1.9	356
3	Analysis, origin and significance of mineral matter in coal: An updated review. <i>International Journal of Coal Geology</i> , 2016, 165, 1-27.	1.9	303
4	Enrichment of U, Se, Mo, Re, V in coals preserved within marine carbonate successions: geochemical and mineralogical data from the Late Permian Guiding Coalfield, Guizhou, China. <i>Mineralium Deposita</i> , 2015, 50, 159-186.	1.7	287
5	Determination of glass content and estimation of glass composition in fly ash using quantitative X-ray diffractometry. <i>Fuel</i> , 2006, 85, 2268-2277.	3.4	258
6	On the fundamental difference between coal rank and coal type. <i>International Journal of Coal Geology</i> , 2013, 118, 58-87.	1.9	258
7	Mineralogical and geochemical compositions of the coal in the Guanbanwusu Mine, Inner Mongolia, China: Further evidence for the existence of an Al (Ga and REE) ore deposit in the Jungar Coalfield. <i>International Journal of Coal Geology</i> , 2012, 98, 10-40.	1.9	252
8	Petrology, mineralogy, and geochemistry of the Ge-rich coal from the Wulantuga Ge ore deposit, Inner Mongolia, China: New data and genetic implications. <i>International Journal of Coal Geology</i> , 2012, 90-91, 72-99.	1.9	238
9	Mineralogical and geochemical compositions of the Pennsylvanian coal in the Adaohai Mine, Daqingshan Coalfield, Inner Mongolia, China: Modes of occurrence and origin of diasporite, goethite, and ammonian illite. <i>International Journal of Coal Geology</i> , 2012, 94, 250-270.	1.9	221
10	Mineral matter and trace elements in coals of the Gunnedah Basin, New South Wales, Australia. <i>International Journal of Coal Geology</i> , 1999, 40, 281-308.	1.9	215
11	Origin of minerals and elements in the Late Permian coals, tonsteins, and host rocks of the Xinde Mine, Xuanwei, eastern Yunnan, China. <i>International Journal of Coal Geology</i> , 2014, 121, 53-78.	1.9	203
12	Mineralogical and geochemical anomalies of late Permian coals from the Fusui Coalfield, Guangxi Province, southern China: Influences of terrigenous materials and hydrothermal fluids. <i>International Journal of Coal Geology</i> , 2013, 105, 60-84.	1.9	200
13	Geochemical and mineralogical evidence for a coal-hosted uranium deposit in the Yili Basin, Xinjiang, northwestern China. <i>Ore Geology Reviews</i> , 2015, 70, 1-30.	1.1	189
14	Enrichment of U-Re-V-Cr-Se and rare earth elements in the Late Permian coals of the Moxinpo Coalfield, Chongqing, China: Genetic implications from geochemical and mineralogical data. <i>Ore Geology Reviews</i> , 2017, 80, 1-17.	1.1	188
15	Quantification of mineral matter in the Argonne Premium Coals using interactive Rietveld-based X-ray diffraction. <i>International Journal of Coal Geology</i> , 2001, 46, 67-82.	1.9	184
16	Composition and modes of occurrence of minerals and elements in coal combustion products derived from high-Ge coals. <i>International Journal of Coal Geology</i> , 2014, 121, 79-97.	1.9	172
17	Identification of nanominerals and nanoparticles in burning coal waste piles from Portugal. <i>Science of the Total Environment</i> , 2010, 408, 6032-6041.	3.9	170
18	Valuable elements in Chinese coals: a review. <i>International Geology Review</i> , 2018, 60, 590-620.	1.1	170

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19	Revisiting the late Permian coal from the Huayingshan, Sichuan, southwestern China: Enrichment and occurrence modes of minerals and trace elements. <i>International Journal of Coal Geology</i> , 2014, 122, 110-128.	1.9	160
20	Coal-derived unburned carbons in fly ash: A review. <i>International Journal of Coal Geology</i> , 2017, 179, 11-27.	1.9	158
21	Chemical composition and minerals in pyrite ash of an abandoned sulphuric acid production plant. <i>Science of the Total Environment</i> , 2012, 430, 34-47.	3.9	151
22	Altered volcanic ashes in coal and coal-bearing sequences: A review of their nature and significance. <i>Earth-Science Reviews</i> , 2017, 175, 44-74.	4.0	145
23	Metalliferous coal deposits in East Asia (Primorye of Russia and South China): A review of geodynamic controls and styles of mineralization. <i>Gondwana Research</i> , 2016, 29, 60-82.	3.0	144
24	Factors controlling geochemical and mineralogical compositions of coals preserved within marine carbonate successions: A case study from the Heshan Coalfield, southern China. <i>International Journal of Coal Geology</i> , 2013, 109-110, 77-100.	1.9	143
25	Mineralogical and geochemical compositions of Late Permian coals and host rocks from the Guxu Coalfield, Sichuan Province, China, with emphasis on enrichment of rare metals. <i>International Journal of Coal Geology</i> , 2016, 166, 71-95.	1.9	143
26	Elemental and mineralogical anomalies in the coal-hosted Ge ore deposit of Lincang, Yunnan, southwestern China: Key role of N ₂ -CO ₂ -mixed hydrothermal solutions. <i>International Journal of Coal Geology</i> , 2015, 152, 19-46.	1.9	142
27	Mineralogical and geochemical compositions of the Pennsylvanian coal in the Hailiushu Mine, Daqingshan Coalfield, Inner Mongolia, China: Implications of sediment-source region and acid hydrothermal solutions. <i>International Journal of Coal Geology</i> , 2015, 137, 92-110.	1.9	137
28	High-resolution three-dimensional imaging of coal using microfocus X-ray computed tomography, with special reference to modes of mineral occurrence. <i>International Journal of Coal Geology</i> , 2013, 113, 97-108.	1.9	132
29	Organic associations of non-mineral elements in coal: A review. <i>International Journal of Coal Geology</i> , 2020, 218, 103347.	1.9	128
30	Chemical composition of glass and crystalline phases in coarse coal gasification ash. <i>Fuel</i> , 2008, 87, 857-869.	3.4	127
31	Mineralogy and leaching characteristics of beneficiated coal products from Santa Catarina, Brazil. <i>International Journal of Coal Geology</i> , 2012, 94, 314-325.	1.9	124
32	Quantitative X-ray powder diffraction analysis of clay minerals in Australian coals using Rietveld methods. <i>Applied Clay Science</i> , 2002, 21, 227-240.	2.6	123
33	Petrological, geochemical, and mineralogical compositions of the low-Ge coals from the Shengli Coalfield, China: A comparative study with Ge-rich coals and a formation model for coal-hosted Ge ore deposit. <i>Ore Geology Reviews</i> , 2015, 71, 318-349.	1.1	121
34	A mineralogical and geochemical study of three Brazilian coal cleaning rejects: Demonstration of electron beam applications. <i>International Journal of Coal Geology</i> , 2014, 130, 33-52.	1.9	108
35	Occurrence of phosphorus minerals in Australian coal seams. <i>International Journal of Coal Geology</i> , 1996, 30, 185-210.	1.9	105
36	Elements and phosphorus minerals in the middle Jurassic inertinite-rich coals of the Muli Coalfield on the Tibetan Plateau. <i>International Journal of Coal Geology</i> , 2015, 144-145, 23-47.	1.9	105

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37	Anomalies of rare metals in Lopingian super-high-organic-sulfur coals from the Yishan Coalfield, Guangxi, China. <i>Ore Geology Reviews</i> , 2017, 88, 235-250.	1.1	104
38	Distribution and origin of minerals in high-rank coals of the South Walker Creek area, Bowen Basin, Australia. <i>International Journal of Coal Geology</i> , 2013, 116-117, 185-207.	1.9	102
39	Minerals in bituminous coals of the Sydney basin (Australia) and the Illinois basin (U.S.A.). <i>International Journal of Coal Geology</i> , 1989, 13, 455-479.	1.9	99
40	Geochemistry and nano-mineralogy of two medium-sulfur northeast Indian coals. <i>International Journal of Coal Geology</i> , 2014, 121, 26-34.	1.9	91
41	Geochemistry and nano-mineralogy of feed coals, mine overburden, and coal-derived fly ashes from Assam (North-east India): a multi-faceted analytical approach. <i>International Journal of Coal Geology</i> , 2015, 137, 19-37.	1.9	90
42	Behaviour of coal mineral matter in sintering and slagging of ash during the gasification process. <i>Fuel Processing Technology</i> , 2011, 92, 1426-1433.	3.7	86
43	Occurrence of non-mineral inorganic elements in macerals of low-rank coals. <i>International Journal of Coal Geology</i> , 2010, 81, 242-250.	1.9	84
44	Mineralogical composition of Late Permian coal seams in the Songzao Coalfield, southwestern China. <i>International Journal of Coal Geology</i> , 2013, 116-117, 208-226.	1.9	81
45	Partitioning of mineralogical and inorganic geochemical components of coals from Santa Catarina, Brazil, by industrial beneficiation processes. <i>International Journal of Coal Geology</i> , 2013, 116-117, 75-92.	1.9	80
46	Mineral matter in low-rank coals and associated strata of the Mae Moh basin, northern Thailand. <i>International Journal of Coal Geology</i> , 1991, 17, 69-93.	1.9	78
47	Tracking mercury from the mine to the power plant: geochemistry of the Manchester coal bed, Clay County, Kentucky. <i>International Journal of Coal Geology</i> , 2004, 57, 127-141.	1.9	74
48	Metamorphism of mineral matter in coal from the Bukit Asam deposit, south Sumatra, Indonesia. <i>International Journal of Coal Geology</i> , 2006, 68, 171-195.	1.9	73
49	Oil generation by igneous intrusions in the northern Gunnedah Basin, Australia. <i>Organic Geochemistry</i> , 2001, 32, 1219-1232.	0.9	72
50	Origin of a kaolinite-NH ₄ -illite-pyrophyllite-chlorite assemblage in a marine-influenced anthracite and associated strata from the Jincheng Coalfield, Qinshui Basin, Northern China. <i>International Journal of Coal Geology</i> , 2018, 185, 61-78.	1.9	70
51	Element mobility from fresh and long-stored acidic fly ashes associated with an Australian power station. <i>International Journal of Coal Geology</i> , 2009, 80, 224-236.	1.9	69
52	Mineralogy of the volcanic-influenced Great Northern coal seam in the Sydney Basin, Australia. <i>International Journal of Coal Geology</i> , 2012, 94, 94-110.	1.9	69
53	Quantitative evaluation of minerals in coal deposits in the Witbank and Highveld Coalfields, and the potential impact on acid mine drainage. <i>International Journal of Coal Geology</i> , 2007, 70, 166-183.	1.9	64
54	A scanning electron microscope method for automated, quantitative analysis of mineral matter in coal. <i>International Journal of Coal Geology</i> , 1996, 30, 249-269.	1.9	61

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55	A model for Nbâ€“Zrâ€“REEâ€“Ga enrichment in Lopingian altered alkaline volcanic ashes: Key evidence of H-O isotopes. <i>Lithos</i> , 2018, 302-303, 359-369.	0.6	61
56	SEDNORMâ€“a program to calculate a normative mineralogy for sedimentary rocks based on chemical analyses. <i>Computers and Geosciences</i> , 1991, 17, 1235-1253.	2.0	60
57	Relation between Coal Mineral Matter and Deposit Mineralogy in Pulverized Fuel Furnaces. <i>Energy & Fuels</i> , 2013, 27, 5714-5724.	2.5	59
58	Modes of occurrence and origin of mineral matter in the Palaeogene coal (No. 19-2) from the Hunchun Coalfield, Jilin Province, China. <i>International Journal of Coal Geology</i> , 2018, 189, 94-110.	1.9	57
59	Composition and mode of occurrence of mineral matter in some Colombian coals. <i>International Journal of Coal Geology</i> , 2008, 73, 3-18.	1.9	54
60	Quantitative evaluation of minerals in fly ashes of biomass, coal and biomassâ€“coal mixture derived from circulating fluidised bed combustion technology. <i>Journal of Hazardous Materials</i> , 2009, 169, 100-107.	6.5	53
61	Mississippian anthracites in Guangxi Province, southern China: Petrological, mineralogical, and rare earth element evidence for high-temperature solutions. <i>International Journal of Coal Geology</i> , 2018, 197, 84-114.	1.9	53
62	Vitrinite reflectance anomalies in the high-volatile bituminous coals of the Gunnedah Basin, New South Wales, Australia. <i>International Journal of Coal Geology</i> , 1998, 36, 111-140.	1.9	52
63	Environmental evaluation and nano-mineralogical study of fresh and unsaturated weathered coal fly ashes. <i>Science of the Total Environment</i> , 2019, 663, 177-188.	3.9	51
64	Geochemical and mineralogical changes in a coal seam due to contact metamorphism, Sydney Basin, New South Wales, Australia. <i>International Journal of Coal Geology</i> , 1989, 11, 105-125.	1.9	50
65	Mineral matter in triassic and tertiary low-rank coals from South Australia. <i>International Journal of Coal Geology</i> , 1992, 20, 185-208.	1.9	50
66	Clays and other minerals in coal seams of the Moura-Baralaba area, Bowen Basin, Australia. <i>International Journal of Coal Geology</i> , 1994, 25, 287-309.	1.9	50
67	Occurrence of non-mineral inorganic elements in low-rank coal macerals as shown by electron microprobe element mapping techniques. <i>International Journal of Coal Geology</i> , 2007, 70, 137-149.	1.9	50
68	Application of attenuated total reflectance micro-Fourier transform infrared (ATR-FTIR) spectroscopy to the study of coal macerals: Examples from the Bowen Basin, Australia. <i>International Journal of Coal Geology</i> , 2007, 70, 87-94.	1.9	50
69	Variations in elemental composition of macerals with vitrinite reflectance and organic sulphur in the Greta Coal Measures, New South Wales, Australia. <i>International Journal of Coal Geology</i> , 2007, 69, 205-219.	1.9	49
70	Isolation of mineral matter from Australian bituminous coals using hydrogen peroxide. <i>Fuel</i> , 1974, 53, 220-221.	3.4	47
71	Variations in coal maceral chemistry with rank advance in the German Creek and Moranbah Coal Measures of the Bowen Basin, Australia, using electron microprobe techniques. <i>International Journal of Coal Geology</i> , 2005, 63, 117-129.	1.9	47
72	Elemental composition of coal macerals in relation to vitrinite reflectance, Gunnedah Basin, Australia, as determined by electron microprobe analysis. <i>International Journal of Coal Geology</i> , 2000, 44, 127-147.	1.9	45

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73	Quantitative mineralogical analysis of coals from the Callide Basin, Queensland, Australia using X-ray diffractometry and normative interpretation. <i>International Journal of Coal Geology</i> , 1996, 30, 211-229.	1.9	44
74	Mineralogy of lignites and associated strata in the Mavropigi field of the Ptolemais Basin, northern Greece. <i>International Journal of Coal Geology</i> , 2010, 81, 182-190.	1.9	44
75	Determination of Boron in Coal Using Closed-Vessel Microwave Digestion and Inductively Coupled Plasma Mass Spectrometry (ICP-MS). <i>Energy & Fuels</i> , 2014, 28, 4517-4522.	2.5	43
76	Petrography and mineralogy of self-burning coal wastes from anthracite mining in the El Bierzo Coalfield (NW Spain). <i>International Journal of Coal Geology</i> , 2016, 154-155, 92-106.	1.9	40
77	Thermal maturation pattern in the southern Bowen, northern Gunnedah and Surat Basins, northern New South Wales, Australia. <i>International Journal of Coal Geology</i> , 2002, 51, 145-167.	1.9	39
78	Modes of occurrence of non-mineral inorganic elements in lignites from the Mile Basin, Yunnan Province, China. <i>Fuel</i> , 2018, 222, 146-155.	3.4	39
79	Mineralogical Characterization of Sasol Feed Coals and Corresponding Gasification Ash Constituents. <i>Energy & Fuels</i> , 2009, 23, 2867-2873.	2.5	36
80	Comparison of elemental composition of macerals determined by electron microprobe to whole-coal ultimate analysis data. <i>International Journal of Coal Geology</i> , 2008, 75, 157-165.	1.9	35
81	Quantitative mineralogical analysis of Spanish roofing slates using the Rietveld method and X-ray powder diffraction data. <i>European Journal of Mineralogy</i> , 2004, 15, 1051-1062.	0.4	32
82	Mineralogical analysis of coals as an aid to seam correlation in the Gloucester Basin, New South Wales, Australia. <i>International Journal of Coal Geology</i> , 2001, 47, 31-49.	1.9	31
83	Characterization and quantification of inorganic constituents of tropical peats and organic-rich deposits from Tasek Bera (Peninsular Malaysia): implications for coals. <i>International Journal of Coal Geology</i> , 2002, 49, 215-249.	1.9	31
84	Chemical Composition, Speciation, and Elemental Associations in Coal Fly Ash Samples Related to the Kingston Ash Spill. <i>Energy & Fuels</i> , 2015, 29, 954-967.	2.5	31
85	Chemical composition of macerals in bituminous coals of the Gunnedah Basin, Australia, using electron microprobe analysis techniques. <i>International Journal of Coal Geology</i> , 1999, 39, 279-300.	1.9	30
86	Quantitative chemical profiling of coal using core-scanning X-ray fluorescence techniques. <i>International Journal of Coal Geology</i> , 2014, 128-129, 55-67.	1.9	30
87	Characteristics of ferrospheres in fly ashes derived from Bokaro and Jharia (Jharkand, India) coals. <i>International Journal of Coal Geology</i> , 2016, 153, 52-74.	1.9	30
88	Sedimentation in the Narrabeen Group, southern Sydney basin, New South Wales. <i>Journal of the Geological Society of Australia</i> , 1972, 19, 393-409.	0.6	26
89	Occurrence and distribution of organic sulphur in macerals of Australian coals using electron microprobe techniques. <i>Organic Geochemistry</i> , 1998, 28, 635-647.	0.9	26
90	The occurrence of buddingtonite in super-high-organic-sulphur coals from the Yishan Coalfield, Guangxi, southern China. <i>International Journal of Coal Geology</i> , 2018, 195, 347-361.	1.9	26

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91	Use of mineralogical analysis in geotechnical assessment of rock strata for coal mining. <i>International Journal of Coal Geology</i> , 2005, 64, 156-171.	1.9	25
92	Organic petrographical, mineralogical and geochemical features of the Achlada and Mavropigi lignite deposits, NW Macedonia, Greece. <i>International Journal of Coal Geology</i> , 2010, 83, 387-395.	1.9	24
93	Identification of potential for methane ignition by rock friction in Australian coal mines. <i>International Journal of Coal Geology</i> , 2001, 45, 91-103.	1.9	21
94	Basic Factors Controlling Coal Quality and Technological Behavior of Coal. , 2008, , 19-59.		20
95	Mineralogy and organic petrology of oil shales in the Sangkarewang Formation, Ombilin Basin, West Sumatra, Indonesia. <i>International Journal of Coal Geology</i> , 2009, 77, 424-435.	1.9	19
96	Chemical functionalities of high and low sulfur Australian coals: A case study using micro attenuated total reflectanceâ€“Fourier transform infrared (ATRâ€“FTIR) spectrometry. <i>Organic Geochemistry</i> , 2010, 41, 554-558.	0.9	18
97	Notes on the occurrence of phosphate mineral relics and spheres (phosphospheres) in coal and biomass fly ash. <i>International Journal of Coal Geology</i> , 2016, 154-155, 43-56.	1.9	18
98	Occurrence of Spherical Halloysite in Bituminous Coals of the Sydney Basin, Australia. <i>Clays and Clay Minerals</i> , 1990, 38, 501-506.	0.6	17
99	Introduction to Applied Coal Petrology. , 2008, , 1-18.		17
100	Mineralogy of Furnace Deposits Produced by South African Coals during Pulverized-Fuel Combustion Tests. <i>Energy & Fuels</i> , 2015, 29, 8226-8238.	2.5	16
101	Quantitative Evaluation of Minerals in Lignites and Intraseam Sediments from the Achlada Basin, Northern Greece. <i>Energy & Fuels</i> , 2009, 23, 2169-2175.	2.5	15
102	Effects of igneous intrusions on thermal maturity of carbonaceous fluvial sediments: A case study of the Early Cretaceous Strzelecki Group in west Gippsland, Victoria, Australia. <i>International Journal of Coal Geology</i> , 2015, 152, 68-77.	1.9	15
103	Multi-technique study of fly ash from the Bokaro and Jharia coalfields (Jharkhand state, India): A contribution to its use as a geoliner. <i>International Journal of Coal Geology</i> , 2015, 152, 25-38.	1.9	15
104	Mineral and trace element composition of the Lokpanta oil shales in the Lower Benue Trough, Nigeria. <i>Fuel</i> , 2011, 90, 2843-2849.	3.4	14
105	Element leachability from a coal stockpile and associated coastal sand deposits. <i>Fuel Processing Technology</i> , 2011, 92, 817-824.	3.7	12
106	Calibration for ED-XRF profiling of coal cores for the Itrax Core Scanner. <i>Powder Diffraction</i> , 2014, 29, S28-S34.	0.4	12
107	Mineral transformations during high temperature treatment of anthracite. <i>International Journal of Coal Geology</i> , 2012, 94, 191-200.	1.9	10
108	In-situ inorganic analysis of coal seams using a hand-held field-portable XRF Analyser. <i>International Journal of Coal Geology</i> , 2018, 191, 172-188.	1.9	10

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109	Coal Combustion. , 2008, , 85-117.		9
110	THE APPLICATION OF PORTABLE X-RAY DIFFRACTION TO QUANTITATIVE MINERALOGICAL ANALYSIS OF HYDROTHERMAL SYSTEMS. Canadian Mineralogist, 2015, , canmin.1400099.	0.3	9
111	Vermicular kaolinite relics in fly ash derived from Bokaro and Jharia coals (Jharkhand, India). International Journal of Coal Geology, 2016, 162, 151-157.	1.9	9
112	Profiling of inorganic elements in coal seams using laboratory-based core scanning X-ray fluorescence techniques. International Journal of Coal Geology, 2018, 191, 158-171.	1.9	8
113	Enrichment of Bi-Be-Mo-Cd-Pb-Nb-Ga, REEs and Y in the Permian coals of the Huainan Coalfield, Anhui, China: Discussion. Ore Geology Reviews, 2018, 102, 937-939.	1.1	6
114	Comments on Geochemical Characteristics of Rare-Metal, Rare-Scattered, and Rare-Earth Elements and Minerals in the Late Permian Coals from the Moxinpo Mine, Chongqing, China. Energy & Fuels, 2018, 32, 8891-8894.	2.5	6
115	Notes on the occurrence of char plerospheres in fly ashes derived from Bokaro and Jharia coals (Jharkhand, India) and the influence of the combustion conditions on their genesis. International Journal of Coal Geology, 2016, 158, 29-43.	1.9	4
116	Surface characterisation of mineral matter in an Australian bituminous coal (Whybrow seam, NSW) using X-ray photoelectron spectroscopy and laser ionisation mass analysis. Fuel Processing Technology, 1997, 50, 69-86.	3.7	3
117	Evaluation of mineral matter transformations in low-temperature ashes of South African coal feedstock samples and their density separated cuts using high-temperature X-ray diffraction. International Journal of Coal Preparation and Utilization, 2020, 40, 320-347.	1.2	3
118	A BASIC program for in-field entry of lithologic descriptions in borehole logs to a hand-held portable computer system. Computers and Geosciences, 1988, 14, 83-97.	2.0	2
119	Analysis of Coal Cores Using Micro-XRF Scanning Techniques. Developments in Paleoenvironmental Research, 2015, , 601-612.	7.5	2
120	The Influence of Depositional and Maturation Factors on the Three-Dimensional Distribution of Coal Rank Indicators and Hydrocarbon Source Potential in the Gunnedah Basin, New South Wales. , 1999, , 493-515.		1
121	Mineral Characterization for Combustion. , 2002, , 23-32.		0
122	Discussion of "Roofing slate standards: A critical review" by V. Čárdenes et al. [Construction and Building Materials 115(2016) 93-104]. Construction and Building Materials, 2017, 133, 543-544.	3.2	0