Nicola J Wagner

List of Publications by Year
in descending order

54 papers	2,437 citations	361413 20 h-index	206112 48 g-index
55 all docs	55 docs citations	55 times ranked	2060 citing authors

#	Article	IF	Citations
1	Classification of liptinite â€“ ICCP System 1994. International Journal of Coal Geology, 2017, 169, 40-61.	5.0	532
2	On the fundamental difference between coal rank and coal type. International Journal of Coal Geology, 2013, 118, 58-87.	5.0	258
3	Raman spectroscopy for the analysis of coal: a review. Journal of Raman Spectroscopy, 2011, 42, 123-129.	2.5	230
4	Elemental and mineralogical anomalies in the coal-hosted Ge ore deposit of Lincang, Yunnan, southwestern China: Key role of N2â€“CO2-mixed hydrothermal solutions. International Journal of Coal Geology, 2015, 152, 19-46.	5.0	142
5	The occurrence of potentially hazardous trace elements in five Highveld coals, South Africa. International Journal of Coal Geology, 2005, 63, 228-246.	5.0	120
6	Gaseous emissions and sublimates from the Truman Shepherd coal fire, Floyd County, Kentucky: A re-investigation following attempted mitigation of the fire. International Journal of Coal Geology, 2013, 116-117, 63-74.	5.0	115
7	Investigation into the evolution of char structure using Raman spectroscopy in conjunction with coal petrography; Part 1. Fuel Processing Technology, 2011, 92, 750-756.	7.2	98
8	Geochemistry of ultra-fine and nano-compounds in coal gasification ashes: A synoptic view. Science of the Total Environment, 2013, 456-457, 95-103.	8.0	88
9	A CO2 Capture Technology Using Multi-walled Carbon Nanotubes with Polyaspartamide Surfactant. Energy Procedia, 2014, 63, 2230-2248.	1.8	81
10	Characterization of unburned carbon present in coarse gasification ash. Fuel, 2008, 87, 683-691.	6.4	80
11	Rare earth elements in select Main Karoo Basin (South Africa) coal and coal ash samples. International Journal of Coal Geology, 2018, 196, 82-92.	5.0	60
12	Distribution of selected trace elements in density fractionated Waterberg coals from South Africa. International Journal of Coal Geology, 2012, 94, 225-237.	5.0	57
13	An investigation of Wulantuga coal (Cretaceous, Inner Mongolia) macerals: Paleopathology of faunal and fungal invasions into wood and the recognizable clues for their activity. International Journal of Coal Geology, 2013, 114, 44-53.	5.0	57
14	Structural analysis of chars generated from South African inertinite coals in a pipe-reactor combustion unit. Fuel Processing Technology, 2011, 92, 743-749.	7.2	40
15	Notes on the mechanisms of coal metamorphism in the Pennsylvania Anthracite Fields. International Journal of Coal Geology, 2019, 202, 161-170.	5.0	36
16	Development of a petrographic classification of fly-ash components from coal combustion and co-combustion. (An ICCP Classification System, Fly-Ash Working Group â€“ Commission III.). International Journal of Coal Geology, 2017, 183, 188-203.	5.0	33
17	Synthesis and evaluation of carbon nanotubes composite adsorbent for CO2 capture: a comparative study of CO2 adsorption capacity of single-walled and multi-walled carbon nanotubes. International Journal of Coal Science and Technology, 2017, 4, 41-49.	6.0	24
18	The petrographic determination of reactivity differences of two South African inertinite-rich lump coals. Journal of Analytical and Applied Pyrolysis, 2012, 93, 139-146.	5.5	23

#	Article	IF	Citations
19	Notes on the methods of the combined maceral/microlithotype determination in coal. International Journal of Coal Geology, 2012, 95, 47-53.	5.0	21
20	Full-plant Analysis of a PSA CO2 Capture Unit Integrated In Coal-fired Power Plants: Post-and Pre-combustion Scenarios. Energy Procedia, 2014, 63, 2289-2304.	1.8	21
21	Influence of organic and inorganic properties of coal-shale on spontaneous combustion liability. International Journal of Mining Science and Technology, 2019, 29, 851-857.	10.3	21
22	Carbon particle type characterization of the carbon behaviour impacting on a commercial-scale Sasol-Lurgi FBDB gasifier. Fuel, 2009, 88, 771-779.	6.4	20
23	Effect of the Presence of Water-soluble Amines on the Carbon Dioxide (CO2) Adsorption Capacity of Amine-grafted Poly-succinimide (PSI) Adsorbent During CO2 Capture. Energy Procedia, 2016, 86, 90-105.	1.8	20
24	A Nuclear Magnetic Resonance study: Implications for coal formation in the Witbank Coalfield, South Africa. International Journal of Coal Geology, 2018, 188, 145-155.	5.0	19
25	The characterization of weathered discard coals and their behaviour during combustion. Fuel, 2008, 87, 1687-1697.	6.4	17
26	Maceral types in some Permian southern African coals. International Journal of Coal Geology, 2012, 100, 93-107.	5.0	17
27	Using Î´15N and Î´13C and nitrogen functionalities to support a fire origin for certain inertinite macerals in a No. 4 Seam Upper Witbank coal, South Africa. Organic Geochemistry, 2018, 126, 23-32.	1.8	17
28	Effects of CO2 storage in coal on coal properties. Energy Procedia, 2012, 23, 426-438.	1.8	16
29	The impact of particle size and maceral segregation on char formation in a packed bed combustion unit. Fuel, 2013, 111, 350-356.	6.4	16
30	Assessment of Graphitized Coal Ash Char Concentrates as a Potential Synthetic Graphite Source. Minerals (Basel, Switzerland), 2020, 10, 986.	2.0	16
31	Coal Gasification. , 2008, , 119-144.		14
32	The Abnormal Condition Analysis used to characterize weathered discard coals. International Journal of Coal Geology, 2007, 72, 177-186.	5.0	13
33	Petrology and palynology of select coal samples from the Permian Waterberg Coalfield, South Africa. International Journal of Coal Geology, 2019, 204, 85-101.	5.0	11
34	Geochemical Evaluation of the Permian Ecca Shale in Eastern Cape Province, South Africa: Implications for Shale Gas Potential. Acta Geologica Sinica, 2018, 92, 1193-1217.	1.4	10
35	A source apportioned mercury mass balance across a coal-based petrochemical complex. Fuel Processing Technology, 2008, 89, 1351-1357.	7.2	9
36	Macromolecular structural changes in contact metamorphosed inertinite-rich coals from the No. 2 Seam, Witbank Coalfield (South Africa): Insights from petrography, NMR and XRD. International Journal of Coal Geology, 2021, 247, 103857.	5.0	9

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37	Characterization of coal using electron spin resonance: implications for the formation of inertinite macerals in the Witbank Coalfield, South Africa. International Journal of Coal Science and Technology, 2018, 5, 385-398.	6.0	8
38	Control of variability of primary grain assemblages on the stratigraphic differences in diagenetic processes and products in organic-rich sediments. Sedimentary Geology, 2021, 422, 105966.	2.1	8
39	CO2 adsorption using water-soluble polyaspartamide. South African Journal of Chemical Engineering, 2017, 23, 139-144.	2.4	7
40	Geochemistry and organic petrology of the permian whitehill formation, Karoo Basin (RSA) and the Devonian/Carboniferous shale of the Appalachian Basin (USA). International Journal of Coal Geology, 2020, 232, 103612.	5.0	7
41	Evaluating CO2 Sorption Capacity of a Number of South African (SA) Coal Types: Comparative Study of the Different Coal Properties at Incremental Pressures up to Supercritical Pressures. Energy Procedia, 2014, 51, 299-307.	1.8	5
42	Migmatite-like textures in anthracite: Further evidence for low-grade metamorphic melting and resolidification in high-rank coals. Geoscience Frontiers, 2021, 12, 101122.	8.4	5
43	Coal chars recovered from fly ash as promising electrocatalysts for oxygen reduction reaction. International Journal of Hydrogen Energy, 2021, 46, 34679-34688.	7.1	5
44	Changes of pyrite and pyrrhotite in coal upon microwave treatment. Journal of Physics: Conference Series, 2010, 217, 012051.	0.4	4
45	Comparative study of a vitrinite-rich and an inertinite-rich Witbank coal (South Africa) using pyrolysis-gas chromatography. International Journal of Coal Science and Technology, 2019, 6, 621-632.	6.0	4
46	Geochemical Evaluation of the Cretaceous Mudrocks and Sandstones (Wackes) in the Southern Bredasdorp Basin, Offshore South Africa: Implications for Hydrocarbon Potential. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.0	4
47	Petrographic composition of coal within the Benue Trough, Nigeria and a consideration of the paleodepositional setting. International Journal of Coal Science and Technology, 2022, 9, .	6.0	4
48	Coal modeling using Markov Chain and Monte Carlo simulation: Analysis of microlithotype and lithotype succession. Sedimentary Geology, 2015, 329, 1-11.	2.1	3
49	Parametric effect of adsorption variables on CO<SUB align="right">2 adsorption of amine-grafted polyaspartamide composite adsorbent during post-combustion CO<SUB align="right">2 capture: a response surface methodology approach. International Journal of Oil, Gas and Coal Technology, 2018, 17, 321.	0.2	3
50	Quantification of U, Th and specific radionuclides in coal from selected coal fired power plants in South Africa. PLoS ONE, 2020, 15, e0229452.	2.5	3
51	Geology of Coal. , 2021, , 745-761.		3
52	Significance of coal properties on the caking degree of coarse coal particles mined at Limpopo Province, Republic of South Africa. International Journal of Coal Preparation and Utilization, 2020, 40, 297-319.	2.1	2
53	Dual sea-level-climatic controls on the stratigraphic distribution of total organic carbon content and macerals in the Permian black shales of southwest Gondwana. Journal of African Earth Sciences, 2022, , 104495.	2.0	1
54	Selected papers from the International Conference on Coal Science and Technology 2009. Fuel Processing Technology, 2011, 92, 717.	7.2	0