

Johan Paul Beukes

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,981
citations

218677

26
h-index

189892

50
g-index

82
all docs

82
docs citations

82
times ranked

3986
citing authors

#	ARTICLE	IF	CITATIONS
1	The AeroCom evaluation and intercomparison of organic aerosol in global models. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10845-10895.	4.9	363
2	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13061-13143.	4.9	278
3	An overview of the first decade of Polly<sup>+>NET</sup>: an emerging network of automated Raman-polarization lidars for continuous aerosol profiling. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5111-5137.	4.9	212
4	Rapid changes in biomass burning aerosols by atmospheric oxidation. <i>Geophysical Research Letters</i> , 2014, 41, 2644-2651.	4.0	175
5	The impact of residential combustion emissions on atmospheric aerosol, human health, and climate. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 873-905.	4.9	122
6	Global analysis of continental boundary layer new particle formation based on long-term measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14737-14756.	4.9	113
7	Biomass burning aerosols in most climate models are too absorbing. <i>Nature Communications</i> , 2021, 12, 277.	12.8	84
8	Chemical composition, main sources and temporal variability of PM<sub>1></sub> aerosols in southern African grassland. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1909-1927.	4.9	81
9	Correction for a measurement artifact of the Multi-Angle Absorption Photometer (MAAP) at high black carbon mass concentration levels. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 81-90.	3.1	77
10	The chemical composition and fluxes of atmospheric wet deposition at four sites in South Africa. <i>Atmospheric Environment</i> , 2016, 146, 113-131.	4.1	73
11	Major secondary aerosol formation in southern African open biomass burning plumes. <i>Nature Geoscience</i> , 2018, 11, 580-583.	12.9	72
12	An air quality assessment in the industrialised western Bushveld Igneous Complex, South Africa. <i>South African Journal of Science</i> , 2012, 108, .	0.7	66
13	Atmospheric boundary layer top height in South Africa: measurements with lidar and radiosonde compared to three atmospheric models. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4263-4278.	4.9	65
14	South African EUCAARI measurements: seasonal variation of trace gases and aerosol optical properties. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1847-1864.	4.9	62
15	Ambient aromatic hydrocarbon measurements at Welgegund, South Africa. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7075-7089.	4.9	48
16	Atmospheric trace metals measured at a regional background site (Welgegund) in South Africa. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4251-4263.	4.9	47
17	Spatial and temporal assessment of gaseous pollutants in the Highveld of South Africa. <i>South African Journal of Science</i> , 2011, 107, .	0.7	46
18	Characterisation of sub-micron particle number concentrations and formation events in the western Bushveld Igneous Complex, South Africa. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3951-3967.	4.9	46

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19	Nickel retention by goethite and hematite. <i>Minerals Engineering</i> , 2000, 13, 1573-1579.	4.3	45
20	Long-term observations of aerosol size distributions in semi-clean and polluted savannah in South Africa. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1751-1770.	4.9	44
21	Reducing atmosphere ash fusion temperatures of a mixture of coal-associated minerals – The effect of inorganic additives and ashing temperature. <i>Fuel Processing Technology</i> , 2014, 124, 78-86.	7.2	44
22	Re-evaluating the NO ₂ hotspot over the South African Highveld. <i>South African Journal of Science</i> , 2012, 108, .	0.7	42
23	Receptor modelling and risk assessment of volatile organic compounds measured at a regional background site in South Africa. <i>Atmospheric Environment</i> , 2018, 172, 133-148.	4.1	41
24	Measurements of biogenic volatile organic compounds at a grazed savannah grassland agricultural landscape in South Africa. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15665-15688.	4.9	30
25	Reevaluating the contribution of sulfuric acid and the origin of organic compounds in atmospheric nanoparticle growth. <i>Geophysical Research Letters</i> , 2015, 42, 10,486.	4.0	27
26	Multiple daytime nucleation events in semi-clean savannah and industrial environments in South Africa: analysis based on observations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5523-5532.	4.9	26
27	One year of Raman lidar observations of free-tropospheric aerosol layers over South Africa. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5429-5442.	4.9	26
28	The anthropogenic contribution to atmospheric black carbon concentrations in southern Africa: a WRF-Chem modeling study. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8809-8830.	4.9	26
29	Carbon balance of a grazed savanna grassland ecosystem in South Africa. <i>Biogeosciences</i> , 2017, 14, 1039-1054.	3.3	26
30	Seasonal influences on surface ozone variability in continental South Africa and implications for air quality. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15491-15514.	4.9	26
31	Utilisation of pre-oxidised ore in the pelletised chromite pre-reduction process. <i>Minerals Engineering</i> , 2016, 92, 114-124.	4.3	23
32	Cr(VI) and Conductivity as Indicators of Surface Water Pollution from Ferrochrome Production in South Africa: Four Case Studies. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 2315-2325.	2.1	22
33	Comparison of sintering and compressive strength tendencies of a model coal mineral mixture heat-treated in inert and oxidizing atmospheres. <i>Fuel Processing Technology</i> , 2011, 92, 1042-1051.	7.2	21
34	Unique challenges of clay binders in a pelletised chromite pre-reduction process. <i>Minerals Engineering</i> , 2012, 34, 55-62.	4.3	21
35	Spatial, temporal and source contribution assessments of black carbon over the northern interior of South Africa. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6177-6196.	4.9	21
36	Size-resolved characterisation of organic compounds in atmospheric aerosols collected at Welgegund, South Africa. <i>Journal of Atmospheric Chemistry</i> , 2015, 72, 43-64.	3.2	20

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37	Cr(VI) Generation During Flaring of CO-Rich Off-Gas from Closed Ferrochromium Submerged Arc Furnaces. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 1002-1010.	2.1	19
38	Regional atmospheric Cr(VI) pollution from the Bushveld Complex, South Africa. <i>Atmospheric Pollution Research</i> , 2016, 7, 762-767.	3.8	19
39	Why is CaCO ₃ not used as an additive in the pelletised chromite pre-reduction process?. <i>Minerals Engineering</i> , 2013, 45, 115-120.	4.3	18
40	Differences in aerosol absorption Å...ngstrÅm exponents between correction algorithms for a particle soot absorption photometer measured on the South African Highveld. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 4285-4298.	3.1	17
41	A survey of Cr(VI) contamination of surface water in the proximity of ferrochromium smelters in South Africa. <i>Water S A</i> , 2014, 40, 709.	0.4	17
42	Characterisation and liberation of chromium from fine ferrochrome waste materials. <i>Minerals Engineering</i> , 2014, 56, 112-120.	4.3	17
43	OMI Satellite and Ground-Based Pandora Observations and Their Application to Surface NO ₂ Estimations at Terrestrial and Marine Sites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1441-1459.	3.3	16
44	Characterization of satellite-based proxies for estimating nucleation mode particles over South Africa. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4983-4996.	4.9	15
45	Statistical exploration of gaseous elemental mercury (GEM) measured at Cape Point from 2007 to 2011. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10271-10280.	4.9	15
46	Technical note Cr(VI) generation during milling. <i>Minerals Engineering</i> , 2001, 14, 423-426.	4.3	14
47	Cr(VI) formation during ozonation of Cr-containing materials in aqueous suspension – implications for water treatment. <i>Water S A</i> , 2012, 38, .	0.4	14
48	composition of ambient and fresh biomass burning aerosols at a savannah site, South Africa. <i>South African Journal of Science</i> , 2016, 112, 8.	0.7	14
49	The Effect of Carbonaceous Reductant Selection on Chromite Pre-reduction. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 827-840.	2.1	14
50	Assessment of atmospheric trace metals in the western Bushveld Igneous Complex, South Africa. <i>South African Journal of Science</i> , 2014, 110, 1-11.	0.7	13
51	Aqueous solubility of Cr(VI) compounds in ferrochrome bag filter dust and the implications thereof. <i>Water S A</i> , 2017, 43, 298.	0.4	12
52	Source apportionment of ambient PM ₁₀ ~2.5 and PM _{2.5} for the Vaal Triangle, South Africa. <i>South African Journal of Science</i> , 2021, 117, .	0.7	12
53	Automated Continuous Air Monitoring. <i>Comprehensive Analytical Chemistry</i> , 2015, , 183-208.	1.3	10
54	Characterising Particulate Organic Nitrogen at A Savannah-Grassland Region in South Africa. <i>Atmosphere</i> , 2019, 10, 492.	2.3	10

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55	Comparison of physical properties of oxidative sintered pellets produced with UG2 or metallurgical-grade South African chromite: A case study. <i>Journal of the South African Institute of Mining and Metallurgy</i> , 2015, 115, 699-706.	0.5	10
56	Ozone Concentrations and Their Potential Impacts on Vegetation in Southern Africa. <i>Developments in Environmental Science</i> , 2013, 13, 429-450.	0.5	9
57	Effect of sodium compounds on the sintering propensity of coal-associated minerals. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 111, 94-99.	5.5	9
58	Submicrometer aerosols and excess CO as tracers for biomass burning air mass transport over southern Africa. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,262-10,282.	3.3	9
59	The use of thermomechanical analysis to characterise SÅrderberg electrode paste raw materials. <i>Minerals Engineering</i> , 2013, 46-47, 167-176.	4.3	8
60	Passive Diffusion Sampling Devices for Monitoring Ambient Air Concentrations. <i>Comprehensive Analytical Chemistry</i> , 2015, , 13-52.	1.3	8
61	Observing continental boundary-layer structure and evolution over the South African savannah using a ceilometer. <i>Theoretical and Applied Climatology</i> , 2019, 136, 333-346.	2.8	8
62	Determining the baking isotherm temperature of SÅrderberg electrodes and associated structural changes. <i>Minerals Engineering</i> , 2013, 49, 33-39.	4.3	7
63	Short Communication: Conductivity as an indicator of surface water quality in the proximity of ferrochrome smelters in South Africa. <i>Water S A</i> , 2015, 41, 705.	0.4	7
64	Predicting the toluene- and quinoline insoluble contents of coal tar pitches used as binders in SÅrderberg electrodes. <i>International Journal of Mineral Processing</i> , 2015, 144, 46-49.	2.6	7
65	Investigating atmospheric photochemistry in the Johannesburg-Pretoria megacity using a box model. <i>South African Journal of Science</i> , 2016, 112, 11.	0.7	7
66	The sensitivity of Afromontane tarns in the Maloti-Drakensberg region of South Africa and Lesotho to acidic deposition. <i>African Journal of Aquatic Science</i> , 2016, 41, 413-426.	1.1	7
67	Techno-economic feasibility of a pre-oxidation process to enhance prereduction of chromite. <i>Journal of the South African Institute of Mining and Metallurgy</i> , 2017, 117, 457-468.	0.5	7
68	Key challenges for tropospheric chemistry in the Southern Hemisphere. <i>Elementa</i> , 2022, 10, .	3.2	7
69	Size-resolved characteristics of inorganic ionic species in atmospheric aerosols at a regional background site on the South African Highveld. <i>Journal of Atmospheric Chemistry</i> , 2018, 75, 285-304.	3.2	5
70	Assessment of polar organic aerosols at a regional background site in southern Africa. <i>Journal of Atmospheric Chemistry</i> , 2019, 76, 89-113.	3.2	5
71	Temporal and source assessments of organic and elemental carbon at sites in the northern South African interior. <i>Journal of Atmospheric Chemistry</i> , 2019, 76, 263-287.	3.2	5
72	Statistical analysis of factors driving surface ozone variability over continental South Africa. <i>Journal of Integrative Environmental Sciences</i> , 2020, 17, 1-28.	2.5	5

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73	Modelling new particle formation events in the South African savannah. South African Journal of Science, 2014, 110, 12.	0.7	4
74	Simulating effects of aerosols on rainfall in southern Africa. Air Quality, Atmosphere and Health, 2019, 12, 1-10.	3.3	4
75	Measurement report: Statistical modelling of long-term trends of atmospheric inorganic gaseous species within proximity of the pollution hotspot in South Africa. Atmospheric Chemistry and Physics, 2020, 20, 10637-10665.	4.9	4
76	Observations of ozone formation in southern African savanna and grassland fire plumes. Atmospheric Environment, 2020, 223, 117256.	4.1	3
77	Six-year observations of aerosol optical properties at a southern African grassland savannah site. Atmospheric Environment, 2020, 230, 117477.	4.1	2
78	Free Tropospheric Aerosols Over South Africa. EPJ Web of Conferences, 2016, 119, 23015.	0.3	0
79	Wet season chemical composition of atmospheric wet deposition at Cape Point. Clean Air Journal, 2022, 32, .	0.5	0