

# Stuart John Piketh

## List of Publications by Year in descending order

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Version: 2024-02-01

97  
papers

2,534  
citations

201575

27  
h-index

223716

46  
g-index

102  
all docs

102  
docs citations

102  
times ranked

3677  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Key challenges for tropospheric chemistry in the Southern Hemisphere. <i>Elementa</i> , 2022, 10, .   | 1.1 | 7         |
| 2  | Assessment of criteria pollutants contributions from coal-fired plants and domestic solid fuel combustion at the South African industrial highveld. <i>Cleaner Engineering and Technology</i> , 2022, 6, 100358.  | 2.1 | 4         |
| 3  | Determinants of Solid Fuel Use and Emission Risks among Households: Insights from Limpopo, South Africa. <i>Toxics</i> , 2022, 10, 67.  | 1.6 | 5         |
| 4  | Butene Emissions From Coastal Ecosystems May Contribute to New Particle Formation. <i>Geophysical Research Letters</i> , 2022, 49, .  | 1.5 | 5         |
| 5  | Smoke in the river: an Aerosols, Radiation and Clouds in southern Africa (AEROCLO-sA) case study. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5701-5724.   | 1.9 | 5         |
| 6  | Analysis of the first surface nitrogen dioxide concentration observations over the South African Highveld derived from the Pandora-2s instrument. <i>Clean Air Journal</i> , 2022, 32, .  | 0.2 | 0         |
| 7  | Rainwater Chemistry and Total Deposition of Acidity from the Northern Savanna to the Southern Coastal Fynbos of South Africa. <i>Water, Air, and Soil Pollution</i> , 2022, 233, .  | 1.1 | 3         |
| 8  | The influence of particle size on the thermal performance of coal and its derived char in a Union stove. <i>Energy Geoscience</i> , 2021, 2, 148-159.   | 1.3 | 9         |
| 9  | Solid fuel use in electrified low-income residential areas in South Africa: The case of KwaDela, Mpumalanga. <i>Journal of Energy in Southern Africa</i> , 2021, 32, 58-67.   | 0.5 | 3         |
| 10 | An overview of the ORACLES (ObseRVations of Aerosols above CLouds and their intEractionS) project: aerosolâ€“cloudâ€“radiation interactions in the southeast Atlantic basin. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1507-1563.                                | 1.9 | 97        |
| 11 | Housing Quality in a Rural and an Urban Settlement in South Africa. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 2240.  | 1.2 | 9         |
| 12 | Intra-urban variability of PM <sub>2.5</sub> in a dense, low-income settlement on the South African Highveld. <i>Clean Air Journal</i> , 2021, 31, .  | 0.2 | 5         |
| 13 | Source apportionment of ambient PM <sub>10</sub> ~ <sup>2.5</sup> and PM <sub>2.5</sub> for the Vaal Triangle, South Africa. <i>South African Journal of Science</i> , 2021, 117, .   | 0.3 | 12        |
| 14 | Asymptomatic transmission and high community burden of seasonal influenza in an urban and a rural community in South Africa, 2017â€“18 (PHIRST): a population cohort study. <i>The Lancet Global Health</i> , 2021, 9, e863-e874.   | 2.9 | 61        |
| 15 | A rule-based method for diagnosing radiation fog in an arid region from NWP forecasts. <i>Journal of Hydrology</i> , 2021, 597, 126189.   | 2.3 | 8         |
| 16 | Cohort profile: A Prospective Household cohort study of Influenza, Respiratory syncytial virus and other respiratory pathogens community burden and Transmission dynamics in South Africa, 2016â€“2018. <i>Influenza and Other Respiratory Viruses</i> , 2021, 15, 789-803. | 1.5 | 16        |
| 17 | Traditional Brick Making, Environmental and Socio-Economic Impacts: A Case Study of Vhembe District, South Africa. <i>Sustainability</i> , 2021, 13, 10659.   | 1.6 | 6         |
| 18 | A global observational analysis to understand changes in air quality during exceptionally low anthropogenic emission conditions. <i>Environment International</i> , 2021, 157, 106818.  | 4.8 | 126       |

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|----|--|-----|-----------|
| 19 | Risks of Indoor Overheating in Low-Cost Dwellings on the South African Lowveld. , 2021, , 1583-1600.   |     | 1         |
| 20 | Quantifying potential particulate matter intake dose in a low-income community in South Africa. Clean Air Journal, 2021, 31, .   | 0.2 | 0         |
| 21 | The Health and Economic Benefits of Reduced Residential Solid Fuel Burning on the South African Highveld. Atmosphere, 2021, 12, 1405.  | 1.0 | 1         |
| 22 | Source apportionment of ambient fine and coarse aerosols in Embalenhle and Kinross, South Africa. Clean Air Journal, 2021, 31, .   | 0.2 | 3         |
| 23 | Contrasting indoor and ambient particulate matter concentrations and thermal comfort in coal and non-coal burning households at South Africa Highveld. Science of the Total Environment, 2020, 699, 134403.    | 3.9 | 37        |
| 24 | The effect of particle size on the pollution reduction potential of a South African coal-derived low-smoke fuel. Energy Geoscience, 2020, 1, 165-173.  | 1.3 | 3         |
| 25 | Observation and quantification of aerosol outflow from southern Africa using spaceborne lidar. South African Journal of Science, 2020, 116, .  | 0.3 | 4         |
| 26 | Risks of Indoor Overheating in Low-Cost Dwellings on the South African Lowveld. , 2020, , 1-18.  |     | 0         |
| 27 | Above-cloud aerosol optical depth from airborne observations in the southeast Atlantic. Atmospheric Chemistry and Physics, 2020, 20, 1565-1590.  | 1.9 | 23        |
| 28 | Evaluating the potential of remote sensing imagery in mapping ground-level fine particulate matter (PM <sub>2.5</sub> ) for the Vaal Triangle Priority Area. Clean Air Journal, 2020, 30, .                    | 0.2 | 4         |
| 29 | Quantifying the effect of air quality offsets on household air pollution and thermal comfort on the South Africa Highveld. Clean Air Journal, 2020, 30, .  | 0.2 | 2         |
| 30 | Characterizing Light-absorbing Aerosols in a Low-income Settlement in South Africa. Aerosol and Air Quality Research, 2020, 20, 1812-1832.   | 0.9 | 11        |
| 31 | Chemical composition and source apportionment of atmospheric aerosols on the Namibian coast. Atmospheric Chemistry and Physics, 2020, 20, 15811-15833.   | 1.9 | 12        |
| 32 | Statistical analysis of the long-range transport of the 2015 Calbuco volcanic plume from ground-based and space-borne observations. Annales Geophysicae, 2020, 38, 395-420.                                    | 0.6 | 12        |
| 33 | Characterisation of ambient Total Gaseous Mercury concentrations over the South African Highveld. Atmospheric Pollution Research, 2019, 10, 12-23.   | 1.8 | 8         |
| 34 | The Aerosols, Radiation and Clouds in Southern Africa Field Campaign in Namibia: Overview, Illustrative Observations, and Way Forward. Bulletin of the American Meteorological Society, 2019, 100, 1277-1298.  | 1.7 | 59        |
| 35 | Complex refractive indices and single-scattering albedo of global dust aerosols in the shortwave spectrum and relationship to size and iron content. Atmospheric Chemistry and Physics, 2019, 19, 15503-15531. | 1.9 | 108       |
| 36 | The potential for domestic thermal insulation retrofits on the South African Highveld. Clean Air Journal, 2019, 29, .  | 0.2 | 5         |

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|----|---|-----|-----------|
| 37 | Aerosol optical properties and direct radiative effect over Gobabeb, Namibia. <i>Clean Air Journal</i> , 2019, 29, .  | 0.2 | 3         |
| 38 | Global Statement on Air Pollution and Health: Opportunities for Africa. <i>Annals of Global Health</i> , 2019, 85, 144.   | 0.8 | 4         |
| 39 | Message from the NACA President. <i>Clean Air Journal</i> , 2019, 29, .   | 0.2 | 0         |
| 40 | Assessing the impact of Eskom power plant emissions on ambient air quality over KwaZamokuhle. <i>Clean Air Journal</i> , 2019, 29, .  | 0.2 | 3         |
| 41 | Indoor Particulate Matter Concentration Variations and Associations with Indoor/Outdoor Temperature in Rural Limpopo. <i>Clean Air Journal</i> , 2019, 29, .  | 0.2 | 0         |
| 42 | An overview of mesoscale aerosol processes, comparisons, and validation studies from DRAGON networks. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 655-671.   | 1.9 | 72        |
| 43 | Three years of measurements of light-absorbing aerosols over coastal Namibia: seasonality, origin, and transport. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17003-17016.   | 1.9 | 13        |
| 44 | Intra-pixel variability in satellite tropospheric NO <sub>2</sub> column densities derived from simultaneous space-borne and airborne observations over the South African Highveld. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 2797-2819.                        | 1.2 | 9         |
| 45 | Moving households to cleaner energy through air quality offsets. , 2018, , .  |     | 3         |
| 46 | Variation of Indoor Particulate Matter Concentrations and Association with Indoor/Outdoor Temperature: A Case Study in Rural Limpopo, South Africa. <i>Atmosphere</i> , 2018, 9, 124.   | 1.0 | 18        |
| 47 | Emissions management and health exposure: should all power stations be treated equal?. <i>Air Quality, Atmosphere and Health</i> , 2017, 10, 509-520.   | 1.5 | 7         |
| 48 | Bird species richness and densities in relation to sulphur dioxide gradients and environmental variables. <i>Ostrich</i> , 2017, 88, 253-259.   | 0.4 | 2         |
| 49 | Coal-derived low smoke fuel assessment through coal stove combustion testing. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 126, 158-168.  | 2.6 | 11        |
| 50 | Evaluating the performance and emission reductions of a coal-derived low-smoke fuel in a conventional household stove. , 2017, , .  |     | 0         |
| 51 | Characteristics of columnar aerosol optical and microphysical properties retrieved from the sun photometer and its impact on radiative forcing over Skukuza (South Africa) during 1999â€“2010. <i>Environmental Science and Pollution Research</i> , 2017, 24, 16160-16171. | 2.7 | 23        |
| 52 | Global scale variability of the mineral dust long-wave refractive index: a new dataset of in situ measurements for climate modeling and remote sensing. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1901-1929.   | 1.9 | 91        |
| 53 | Spectral- and size-resolved mass absorption efficiency of mineral dust aerosols in the shortwave spectrum: a simulation chamber study. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7175-7191.  | 1.9 | 66        |
| 54 | Culicoides species composition and environmental factors influencing African horse sickness distribution at three sites in Namibia. <i>Acta Tropica</i> , 2016, 163, 70-79.   | 0.9 | 7         |

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|----|--|-----|-----------|
| 55 | Intercomparison and assessment of long-term (2004–2013) multiple satellite aerosol products over two contrasting sites in South Africa. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 148, 82-95.  | 0.6 | 27        |
| 56 | Free Tropospheric Aerosols Over South Africa. <i>EPJ Web of Conferences</i> , 2016, 119, 23015.  | 0.1 | 0         |
| 57 | Smoke and Clouds above the Southeast Atlantic: Upcoming Field Campaigns Probe Absorbing Aerosols' Impact on Climate. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1131-1135.   | 1.7 | 149       |
| 58 | A web-based survey of horse owners' perceptions and network analysis of horse movements relating to African horse sickness distribution in Namibia and South Africa. <i>Acta Tropica</i> , 2016, 158, 201-207.   | 0.9 | 8         |
| 59 | Investigation of the relative fine and coarse mode aerosol loadings and properties in the Southern Arabian Gulf region. <i>Atmospheric Research</i> , 2016, 169, 171-182.  | 1.8 | 10        |
| 60 | Comparing the effect of modeled climatic variables on the distribution of African horse sickness in South Africa and Namibia. <i>Journal of Vector Ecology</i> , 2015, 40, 333-341.  | 0.5 | 7         |
| 61 | Characterization of satellite-based proxies for estimating nucleation mode particles over South Africa. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4983-4996.  | 1.9 | 15        |
| 62 | One year of Raman lidar observations of free-tropospheric aerosol layers over South Africa. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5429-5442.  | 1.9 | 26        |
| 63 | An overview of regional and local characteristics of aerosols in South Africa using satellite, ground, and modeling data. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4259-4278.  | 1.9 | 73        |
| 64 | Greenhouse gas emissions from road transport in South Africa and Lesotho between 2000 and 2009. <i>Transportation Research, Part D: Transport and Environment</i> , 2015, 37, 1-13.  | 3.2 | 30        |
| 65 | Aerosol remote sensing in polar regions. <i>Earth-Science Reviews</i> , 2015, 140, 108-157.  | 4.0 | 106       |
| 66 | A perspective on South African coal fired power station emissions. <i>Journal of Energy in Southern Africa</i> , 2015, 26, 27-40.  | 0.5 | 26        |
| 67 | Differences in aerosol absorption Ångström 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.   | 1.2 | 17        |
| 68 | Arsenic-Based Warfare Agents: Production, Use, and Destruction. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 1525-1576.   | 6.6 | 29        |
| 69 | Surface ozone variability and trends over the South African Highveld from 1990 to 2007. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4323-4342.  | 1.2 | 21        |
| 70 | A seasonal trend of single scattering albedo in southern African biomass-burning particles: Implications for satellite products and estimates of emissions for the world's largest biomass-burning source. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6414-6432. | 1.2 | 99        |
| 71 | Effect of wind speed on aerosol optical depth over remote oceans, based on data from the Maritime Aerosol Network. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 377-388.   | 1.2 | 30        |
| 72 | The Queensland Cloud Seeding Research Program. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 75-90.   | 1.7 | 29        |

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|----|--|-----|-----------|
| 73 | South African EUCAARI measurements: seasonal variation of trace gases and aerosol optical properties. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1847-1864.  | 1.9 | 62        |
| 74 | Seasonal changes in organotin compounds in water and sediment samples from the semi-closed Port of Gdynia. <i>Science of the Total Environment</i> , 2012, 441, 57-66.   | 3.9 | 32        |
| 75 | A quantum chemical calculation of the potential energy surface in the formation of HOSO <sub>2</sub> from OH+SO <sub>2</sub> . <i>Atmospheric Environment</i> , 2011, 45, 745-754.   | 1.9 | 8         |
| 76 | Climatology of aerosol optical properties in Southern Africa. <i>Atmospheric Environment</i> , 2011, 45, 2910-2921.  | 1.9 | 55        |
| 77 | Atmospheric dry and wet deposition of sulphur and nitrogen species and assessment of critical loads of acidic deposition exceedance in South Africa. <i>South African Journal of Science</i> , 2011, 107, .  | 0.3 | 24        |
| 78 | Concentrations, distributions and critical level exceedance assessment of SO <sub>2</sub> , NO <sub>2</sub> and O <sub>3</sub> in South Africa. <i>Environmental Monitoring and Assessment</i> , 2010, 171, 181-196.   | 1.3 | 49        |
| 79 | An assessment of the atmospheric nitrogen budget on the South African Highveld. <i>South African Journal of Science</i> , 2010, 106, .   | 0.3 | 30        |
| 80 | Aerosol optical properties over the South Atlantic and Southern Ocean during the 140th cruise of the M/V.S.A. Agulhas. <i>Atmospheric Research</i> , 2010, 98, 285-296.  | 1.8 | 12        |
| 81 | Airborne imaging differential optical absorption spectroscopy: Trace-gas measurements from the suburbs to the sub-continent. , 2009, , .   |     | 0         |
| 82 | An overview of UAE<sup>2</sup> flight operations: Observations of summertime atmospheric thermodynamic and aerosol profiles of the southern Arabian Gulf. <i>Journal of Geophysical Research</i> , 2008, 113, .  | 3.3 | 34        |
| 83 | Dynamics of southwest Asian dust particle size characteristics with implications for global dust research. <i>Journal of Geophysical Research</i> , 2008, 113, .   | 3.3 | 98        |
| 84 | Statistical evaluation of aerosol data from Ben Macdhui mountain, South Africa. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2008, 43, 705-713.  | 0.9 | 1         |
| 85 | Direct observation of two dimensional trace gas distributions with an airborne Imaging DOAS instrument. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6707-6717.   | 1.9 | 53        |
| 86 | AEROSOL DEPOSITION OFF THE SOUTHERN AFRICAN WEST COAST BY BERG WINDS. <i>Southern African Geographical Journal</i> , 2005, 87, 152-161.  | 0.9 | 9         |
| 87 | Spatial and temporal assessment of sources contributing to the annual austral spring mid-tropospheric ozone maxima over the tropical South Atlantic. <i>Global Change Biology</i> , 2003, 9, 336-345.  | 4.2 | 4         |
| 88 | Retrieval of aerosol optical thickness and size distribution from the CIMEL Sun photometer over Inhaca Island, Mozambique. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.  | 3.3 | 20        |
| 89 | Exploring the potential of combining column-integrated atmospheric polarization with airborne in situ size distribution measurements for the retrieval of an aerosol model: A case study of a biomass burning plume during SAFARI 2000. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a. | 3.3 | 4         |
| 90 | Micropulse lidar observations of tropospheric aerosols over northeastern South Africa during the ARREX and SAFARI 2000 dry season experiments. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.  | 3.3 | 65        |

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| 91 | Haze layer characterization and associated meteorological controls along the eastern coastal region of southern Africa. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.                                 | 3.3 | 24        |
| 92 | Preliminary results of dry-season trace gas and aerosol measurements over the Kalahari region during SAFARI 2000. <i>Journal of Arid Environments</i> , 2003, 54, 371-379.   | 1.2 | 1         |
| 93 | Aerosol optical depth over a remote semi-arid region of South Africa from spectral measurements of the daytime solar extinction and the nighttime stellar extinction. <i>Atmospheric Research</i> , 2002, 62, 11-32. | 1.8 | 31        |
| 94 | Characterization and transport of aerosols over equatorial eastern Africa. <i>Global Biogeochemical Cycles</i> , 2001, 15, 663-672.  | 1.9 | 18        |
| 95 | A 3000-year high-resolution stalagmitebased record of palaeoclimate for northeastern South Africa. <i>Holocene</i> , 1999, 9, 295-309.   | 0.9 | 172       |
| 96 | Dry Deposition of Sulphur at a High-Altitude Background Station in South Africa. <i>Water, Air, and Soil Pollution</i> , 1999, 115, 445-463.   | 1.1 | 6         |
| 97 | Fine PM emission factors from residential burning of solid fuels using traditional cast-iron coal stoves. <i>Clean Air Journal</i> , 0, , .  | 0.2 | 2         |