

# William J Trompetter

## List of Publications by Citations

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40  
papers

646  
citations

17  
h-index

24  
g-index

41  
ext. papers

727  
ext. citations

3.9  
avg, IF

3.64  
L-index

#	Paper	IF	Citations
40	Air particulate matter pollution in Ulaanbaatar, Mongolia: determination of composition, source contributions and source locations. <i>Atmospheric Pollution Research</i> , <b>2011</b> , 2, 126-137	4.5	55
39	Carbonaceous aerosols in an urban tunnel. <i>Atmospheric Environment</i> , <b>2011</b> , 45, 4463-4469	5.3	52
38	Mineral deposits in the Rotokawa geothermal pipelines, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , <b>2003</b> , 119, 215-239	2.8	46
37	Identification of particulate matter sources on an hourly time-scale in a wood burning community. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 4767-74	10.3	36
36	Synoptic controls on precipitation pathways and snow delivery to high-accumulation ice core sites in the Ross Sea region, Antarctica. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		32
35	Effect of substrate hardness on splat morphology in high-velocity thermal spray coatings. <i>Journal of Thermal Spray Technology</i> , <b>2006</b> , 15, 663-669	2.5	32
34	AIR PARTICULATE RESEARCH CAPABILITY AT THE NEW ZEALAND ION BEAM ANALYSIS FACILITY USING PIXE AND IBA TECHNIQUES. <i>International Journal of PIXE</i> , <b>2005</b> , 15, 249-255	0.1	28
33	High-resolution sampling and analysis of ambient particulate matter in the Pearl River Delta region of southern China: source apportionment and health risk implications. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 2049-2064	6.8	27
32	Effect of atmospheric stability on the impact of domestic wood combustion to air quality of a small urban township in winter. <i>Atmospheric Environment</i> , <b>2013</b> , 70, 28-38	5.3	25
31	Vertical and temporal variations of black carbon in New Zealand urban areas during winter. <i>Atmospheric Environment</i> , <b>2013</b> , 75, 179-187	5.3	24
30	Influence of environmental conditions on carbonaceous particle concentrations within New Zealand. <i>Journal of Aerosol Science</i> , <b>2010</b> , 41, 134-142	4.3	24
29	Composition and source contributions of air particulate matter pollution in a New Zealand suburban town. <i>Atmospheric Pollution Research</i> , <b>2012</b> , 3, 143-147	4.5	23
28	Sources of indoor air pollution at a New Zealand urban primary school; a case study. <i>Atmospheric Pollution Research</i> , <b>2019</b> , 10, 435-444	4.5	23
27	Seasonality of Airmass Pathways to Coastal Antarctica: Ramifications for Interpreting High-Resolution Ice Core Records. <i>Journal of Climate</i> , <b>2013</b> , 26, 2065-2076	4.4	20
26	Role of oxides in high velocity thermal spray coatings. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 190, 518-523	1.2	20
25	Evidence of mechanical interlocking of NiCr particles thermally sprayed onto Al substrates. <i>Journal of Thermal Spray Technology</i> , <b>2005</b> , 14, 524-529	2.5	19
24	High time-resolved elemental components in fine and coarse particles in the Pearl River Delta region of Southern China: Dynamic variations and effects of meteorology. <i>Science of the Total Environment</i> , <b>2016</b> , 572, 634-648	10.2	17

23	Sources of particulate matter pollution in a small New Zealand city. <i>Atmospheric Pollution Research</i> , <b>2014</b> , 5, 572-580	4.5	17
22	Oxygen and hydrogen profiles in metal surfaces following plasma immersion ion implantation of helium. <i>Surface and Coatings Technology</i> , <b>2001</b> , 136, 217-222	4.4	17
21	Carbonaceous aerosols in a wood burning community in rural New Zealand. <i>Atmospheric Pollution Research</i> , <b>2013</b> , 4, 245-249	4.5	16
20	Particulate matter sources on an hourly timescale in a rural community during the winter. <i>Journal of the Air and Waste Management Association</i> , <b>2014</b> , 64, 501-8	2.4	12
19	Sources and transport of particulate matter on an hourly time-scale during the winter in a New Zealand urban valley. <i>Urban Climate</i> , <b>2014</b> , 10, 644-655	6.8	12
18	Calibration of eddy current carburization measurements in ethylene production tubes using ion beam analysis. <i>Journal Physics D: Applied Physics</i> , <b>2004</b> , 37, 501-509	3	11
17	New phosphors synthesised by ion exchange of a metakaolin-based geopolymer. <i>Applied Clay Science</i> , <b>2018</b> , 157, 1-7	5.2	8
16	Aluminosilicate inorganic polymers (geopolymers) containing rare earth ions: a new class of photoluminescent materials. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 11370-11382	4.3	7
15	Novel photoluminescent materials based on gallium silicate inorganic polymer hosts activated with Sm <sup>3+</sup> or Eu <sup>3+</sup> . <i>Journal of Non-Crystalline Solids</i> , <b>2017</b> , 460, 98-105	3.9	6
14	Particulate matter sources and long-term trends in a small New Zealand city. <i>Atmospheric Pollution Research</i> , <b>2015</b> , 6, 1105-1112	4.5	6
13	The Effect of Substrate Surface Oxides on the Bonding of NiCr Alloy Particles HVAF Thermally Sprayed onto Aluminum Substrates. <i>Journal of Thermal Spray Technology</i> , <b>2010</b> , 19, 1024-1031	2.5	6
12	AIR PARTICULATE MATTER POLLUTION IN ULAANBAATAR CITY, MONGOLIA. <i>International Journal of PIXE</i> , <b>2012</b> , 22, 165-171	0.1	5
11	Fugitive emissions from nanopowder manufacturing. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	3
10	Determination of chemical elements in airborne particulate matter collected at Lembang, Indonesia by particle induced X-ray emission. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2013</b> , 297, 177-182	1.5	3
9	USE OF IBA TECHNIQUES TO CHARACTERIZE HIGH VELOCITY THERMAL SPRAY COATINGS. <i>Modern Physics Letters B</i> , <b>2001</b> , 15, 1428-1436	1.6	3
8	Investigation of New Zealand's natural magnetic minerals for application in inroad charging systems. <i>International Journal of Modern Physics B</i> , <b>2020</b> , 34, 2040018	1.1	2
7	Oxidation resistance of SiAlon/TiN composites: an ion beam analysis (IBA) study. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 15348-15361	4.3	2
6	RECENT DEVELOPMENTS IN THE AIR PARTICULATE RESEARCH CAPABILITY AT THE NEW ZEALAND ION BEAM ANALYSIS FACILITY. <i>International Journal of PIXE</i> , <b>2012</b> , 22, 121-130	0.1	2

5	Influence of the Native Oxide Layer on the Silicon Surface During Initial Stages of Nitridation. <i>Mikrochimica Acta</i> , <b>2001</b> , 137, 49-56	5.8	2
4	Deuteron microprobe analysis of carbon in the transition region between SiC and Si nanostructures grown on Si. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 260, 325-328	1.2	1
3	USE OF IBA TECHNIQUES FOR THE MEASUREMENT OF OXIDATION PROCESSES IN SIALON CERAMICS. <i>Modern Physics Letters B</i> , <b>2001</b> , 15, 1305-1313	1.6	1
2	Evolution of Rutherford <sup>+</sup> ion beam science to applied research activities at GNS Science. <i>Journal of the Royal Society of New Zealand</i> , 1-18	2	1
1	Electromagnetic Angular Momentum of an Orbiting Charge. <i>Foundations of Physics</i> , <b>2021</b> , 51, 1	1.2	0