Roy Harrison

List of Publications by Citations

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684 papers	37,368 citations	95 h-index	164 g-index
819 ext. papers	41,776 ext. citations	7.1 avg, IF	7.6 L-index

#	Paper	IF	Citations
684	Source Apportionment of Atmospheric Polycyclic Aromatic Hydrocarbons Collected from an Urban Location in Birmingham, U.K.. *Environmental Science & Technology*, **1996**, 30, 825-832	10.3	998
683	Sources and properties of non-exhaust particulate matter from road traffic: a review. *Science of the Total Environment*, **2008**, 400, 270-82	10.2	975
682	Particulate matter in the atmosphere: which particle properties are important for its effects on health?. *Science of the Total Environment*, **2000**, 249, 85-101	10.2	821
681	Source apportionment of particulate matter in Europe: A review of methods and results. *Journal of Aerosol Science*, **2008**, 39, 827-849	4.3	674
680	Estimation of the contribution of road traffic emissions to particulate matter concentrations from field measurements: A review. *Atmospheric Environment*, **2013**, 77, 78-97	5.3	672
679	Carbonaceous aerosol in urban and rural European atmospheres: estimation of secondary organic carbon concentrations. *Atmospheric Environment*, **1999**, 33, 2771-2781	5.3	630
678	The effects of meteorological factors on atmospheric bioaerosol concentrations--a review. *Science of the Total Environment*, **2004**, 326, 151-80	10.2	577
677	Mobility particle size spectrometers: harmonization of technical standards and data structure to facilitate high quality long-term observations of atmospheric particle number size distributions. *Atmospheric Measurement Techniques*, **2012**, 5, 657-685	4	531
676	Particles, air quality, policy and health. *Chemical Society Reviews*, **2012**, 41, 6606-30	58.5	454
675	Chemical associations of lead, cadmium, copper, and zinc in street dusts and roadside soils. *Environmental Science & Technology*, **1981**, 15, 1378-1383	10.3	435
674	Toward direct measurement of atmospheric nucleation. *Science*, **2007**, 318, 89-92	33.3	414
673	Evaluating the toxicity of airborne particulate matter and nanoparticles by measuring oxidative stress potential--a workshop report and consensus statement. *Inhalation Toxicology*, **2008**, 20, 75-99	2.7	407
672	Chemical reactivity and long-range transport potential of polycyclic aromatic hydrocarbons--a review. *Chemical Society Reviews*, **2013**, 42, 9333-91	58.5	394
671	A European aerosol phenomenology-1: physical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. *Atmospheric Environment*, **2004**, 38, 2561-2577	5.3	381
670	Ultrafine particles in cities. *Environment International*, **2014**, 66, 1-10	12.9	374
669	Estimation of the contributions of brake dust, tire wear, and resuspension to nonexhaust traffic particles derived from atmospheric measurements. *Environmental Science & Technology*, **2012**, 46, 6523-9	10.3	327
668	Concentrations and sources of VOCs in urban domestic and public microenvironments. *Environmental Science & Technology*, **2001**, 35, 997-1004	10.3	298

667	Identification of brake wear particles and derivation of a quantitative tracer for brake dust at a major road. *Atmospheric Environment*, **2010**, 44, 141-146	5.3	286
666	OC/EC ratio observations in Europe: Re-thinking the approach for apportionment between primary and secondary organic carbon. *Atmospheric Environment*, **2011**, 45, 6121-6132	5.3	277
665	Trace metal concentrations and water solubility in size-fractionated atmospheric particles and influence of road traffic. *Environmental Science & Technology*, **2006**, 40, 1144-53	10.3	277
664	Emissions and indoor concentrations of particulate matter and its specific chemical components from cooking: A review. *Atmospheric Environment*, **2013**, 71, 260-294	5.3	270
663	New considerations for PM, Black Carbon and particle number concentration for air quality monitoring across different European cities. *Atmospheric Chemistry and Physics*, **2011**, 11, 6207-6227	6.8	269
662	Primary particle formation from vehicle emissions during exhaust dilution in the roadside atmosphere. *Atmospheric Environment*, **2003**, 37, 4109-4119	5.3	266
661	Urban ambient particle metrics and health: a time-series analysis. *Epidemiology*, **2010**, 21, 501-11	3.1	246
660	Sources and processes affecting concentrations of PM10 and PM2.5 particulate matter in Birmingham (U.K.). *Atmospheric Environment*, **1997**, 31, 4103-4117	5.3	242
659	Respiratory health effects of airborne particulate matter: the role of particle size, composition, and oxidative potential-the RAPTES project. *Environmental Health Perspectives*, **2012**, 120, 1183-9	8.4	238
658	Investigation of Ultrafine Particle Formation during Diesel Exhaust Dilution. *Environmental Science & Technology*, **1999**, 33, 3730-3736	10.3	234
657	Critical review of receptor modelling for particulate matter: A case study of India. *Atmospheric Environment*, **2012**, 49, 1-12	5.3	232
656	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) Integrating aerosol research from nano to global scales. *Atmospheric Chemistry and Physics*, **2011**, 11, 13061-13143	6.8	231
655	Sources and concentration of nanoparticles (. *Atmospheric Environment*, **2001**, 35, 1193-1202	5.3	230
654	Nanoparticle emissions from 11 non-vehicle exhaust sources A review. *Atmospheric Environment*, **2013**, 67, 252-277	5.3	229
653	Aircraft engine exhaust emissions and other airport-related contributions to ambient air pollution: A review. *Atmospheric Environment*, **2014**, 95, 409-455	5.3	225
652	Urban air quality: the challenge of traffic non-exhaust emissions. *Journal of Hazardous Materials*, **2014**, 275, 31-6	12.8	221
651	Cleaning methods for polythene containers prior to the determination of trace metals in fresh water samples. *Analytical Chemistry*, **1981**, 53, 345-350	7.8	213
650	In vitro toxicity of particulate matter (PM) collected at different sites in the Netherlands is associated with PM composition, size fraction and oxidative potential--the RAPTES project. *Particle and Fibre Toxicology*, **2011**, 8, 26	8.4	211

649	Measurements of ultrafine particle concentration and size distribution in the urban atmosphere. *Science of the Total Environment*, **1999**, 235, 51-64	10.2	204
648	A study of trace metals and polycyclic aromatic hydrocarbons in the roadside environment. *Atmospheric Environment*, **2003**, 37, 2391-2402	5.3	198
647	AIRUSE-LIFE+: a harmonized PM speciation and source apportionment in five southern European cities. *Atmospheric Chemistry and Physics*, **2016**, 16, 3289-3309	6.8	191
646	Oxidative potential of particulate matter collected at sites with different source characteristics. *Science of the Total Environment*, **2014**, 472, 572-81	10.2	184
645	Tropospheric cycle of nitrous acid. *Journal of Geophysical Research*, **1996**, 101, 14429-14439		181
644	Number size distributions and seasonality of submicron particles in Europe 2008–2009. *Atmospheric Chemistry and Physics*, **2011**, 11, 5505-5538	6.8	172
643	Studies of the coarse particle (2.5–10) component in UK urban atmospheres. *Atmospheric Environment*, **2001**, 35, 3667-3679	5.3	170
642	Explaining global surface aerosol number concentrations in terms of primary emissions and particle formation. *Atmospheric Chemistry and Physics*, **2010**, 10, 4775-4793	6.8	167
641	Size-differentiated composition of inorganic atmospheric aerosols of both marine and polluted continental origin. *Atmospheric Environment*, **1983**, 17, 1733-1738		166
640	Ozone levels in European and USA cities are increasing more than at rural sites, while peak values are decreasing. *Environmental Pollution*, **2014**, 192, 295-9	9.3	163
639	Fine (PM2.5) and coarse (PM2.5-10) particulate matter on a heavily trafficked London highway: sources and processes. *Environmental Science & Technology*, **2005**, 39, 7768-76	10.3	161
638	Characterization of Particles from a Current Technology Heavy-Duty Diesel Engine. *Environmental Science & Technology*, **2000**, 34, 748-755	10.3	158
637	The Contribution of Traffic to Atmospheric Concentrations of Polycyclic Aromatic Hydrocarbons. *Environmental Science & Technology*, **1999**, 33, 3538-3542	10.3	158
636	Characterization of ambient PM2.5 at a pollution hotspot in New Delhi, India and inference of sources. *Atmospheric Environment*, **2015**, 109, 178-189	5.3	157
635	Major component composition of PM10 and PM2.5 from roadside and urban background sites. *Atmospheric Environment*, **2004**, 38, 4531-4538	5.3	157
634	Concentrations, trends and vehicle source profile of polynuclear aromatic hydrocarbons in the U.K. atmosphere. *Atmospheric Environment*, **1996**, 30, 2513-2525	5.3	150
633	Particulate matter and daily mortality and hospital admissions in the west midlands conurbation of the United Kingdom: associations with fine and coarse particles, black smoke and sulphate. *Occupational and Environmental Medicine*, **2001**, 58, 504-10	2.1	148
632	Source apportionment of fine particles at urban background and rural sites in the UK atmosphere. *Atmospheric Environment*, **2010**, 44, 841-851	5.3	147

631	PMF analysis of wide-range particle size spectra collected on a major highway. *Environmental Science & Technology*, **2011**, 45, 5522-8	10.3	146
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629	Field measurements of the dissociation of ammonium nitrate and ammonium chloride aerosols. *Atmospheric Environment*, **1989**, 23, 1591-1599		141
628	Measurements of the physical properties of particles in the urban atmosphere. *Atmospheric Environment*, **1999**, 33, 309-321	5.3	139
627	Review of the efficacy of low emission zones to improve urban air quality in European cities. *Atmospheric Environment*, **2015**, 111, 161-169	5.3	136
626	Indoor–outdoor relationships of particle number and mass in four European cities. *Atmospheric Environment*, **2008**, 42, 156-169	5.3	131
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619	A pragmatic mass closure model for airborne particulate matter at urban background and roadside sites. *Atmospheric Environment*, **2003**, 37, 4927-4933	5.3	119
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609	Source apportionment of polycyclic aromatic hydrocarbons in urban air using positive matrix factorization and spatial distribution analysis. *Atmospheric Environment*, **2013**, 79, 271-285	5.3	109
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591	The measurement and interpretation of ratios in airborne particles. *Atmospheric Environment*, **1983**, 17, 311-328		97
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589	Effect of inhaled sulphur dioxide and carbon particles on heart rate variability and markers of inflammation and coagulation in human subjects. *Heart*, **2006**, 92, 220-7	5.1	95
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557	Comparison of methods for evaluation of wood smoke and estimation of UK ambient concentrations. *Atmospheric Chemistry and Physics*, **2012**, 12, 8271-8283	6.8	77
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555	Environmental and biological monitoring of exposures to PAHs and ETS in the general population. *Environment International*, **2010**, 36, 763-71	12.9	76
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552	Lead Pollution **1981**,		76
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550	Dry deposition of ozone: some measurements ofdeposition velocity and of vertical profiles to 100 metres. *Atmospheric Environment*, **1985**, 19, 1807-1818		74
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548	Mass and number size distributions of particulate matter components: comparison of an industrial site and an urban background site. *Science of the Total Environment*, **2014**, 475, 29-38	10.2	73
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