

Mohammed S Alam

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

1,263
citations

21
h-index

35
g-index

54
ext. papers

1,496
ext. citations

5.9
avg, IF

4.63
L-index

#	Paper	IF	Citations
48	Source apportionment of polycyclic aromatic hydrocarbons in urban air using positive matrix factorization and spatial distribution analysis. <i>Atmospheric Environment</i> , 2013 , 79, 271-285	5.3	109
47	Analysis of atmospheric concentrations of quinones and polycyclic aromatic hydrocarbons in vapour and particulate phases. <i>Atmospheric Environment</i> , 2013 , 77, 974-982	5.3	104
46	Distribution of gaseous and particulate organic composition during dark α -pinene ozonolysis. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 2893-2917	6.8	103
45	Kinetics of stabilised Criegee intermediates derived from alkene ozonolysis: reactions with SO ₂ , H ₂ O and decomposition under boundary layer conditions. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4076-88	3.6	97
44	Total radical yields from tropospheric ethene ozonolysis. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 11002-15	3.6	77
43	Using atmospheric measurements of PAH and quinone compounds at roadside and urban background sites to assess sources and reactivity. <i>Atmospheric Environment</i> , 2013 , 77, 24-35	5.3	67
42	Using Variable Ionization Energy Time-of-Flight Mass Spectrometry with Comprehensive GC/MS To Identify Isomeric Species. <i>Analytical Chemistry</i> , 2016 , 88, 4211-20	7.8	62
41	Investigating PAH relative reactivity using congener profiles, quinone measurements and back trajectories. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 2467-2477	6.8	48
40	The characterisation of diesel exhaust particles - composition, size distribution and partitioning. <i>Faraday Discussions</i> , 2016 , 189, 69-84	3.6	38
39	Polycyclic aromatic hydrocarbons, brachial artery distensibility and blood pressure among children residing near an oil refinery. <i>Environmental Research</i> , 2015 , 136, 133-40	7.9	36
38	Diurnal variability of polycyclic aromatic compound (PAC) concentrations: Relationship with meteorological conditions and inferred sources. <i>Atmospheric Environment</i> , 2015 , 122, 427-438	5.3	36
37	Radical product yields from the ozonolysis of short chain alkenes under atmospheric boundary layer conditions. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12468-83	2.8	33
36	Mapping and quantifying isomer sets of hydrocarbons (C_{12} and C_{13}) in diesel exhaust, lubricating oil and diesel fuel samples using GC-MS. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 3047-3058	4	31
35	Comprehensive chemical characterization of lubricating oils used in modern vehicular engines utilizing GC-MS-TOFMS. <i>Fuel</i> , 2018 , 220, 792-799	7.1	29
34	Insights into the Formation and Evolution of Individual Compounds in the Particulate Phase during Aromatic Photo-Oxidation. <i>Environmental Science & Technology</i> , 2015 , 49, 13168-78	10.3	28
33	Receptor modelling study of polycyclic aromatic hydrocarbons in Jeddah, Saudi Arabia. <i>Science of the Total Environment</i> , 2015 , 506-507, 401-8	10.2	27
32	Recent advances in the application of 2-dimensional gas chromatography with soft and hard ionisation time-of-flight mass spectrometry in environmental analysis. <i>Chemical Science</i> , 2016 , 7, 3968-3977	8.7	26

31	Application of 2D-GCMS reveals many industrial chemicals in airborne particulate matter. <i>Atmospheric Environment</i> , 2013 , 65, 101-111	5.3	25
30	Urinary metabolites of polycyclic aromatic hydrocarbons in Saudi Arabian schoolchildren in relation to sources of exposure. <i>Environmental Research</i> , 2015 , 140, 495-501	7.9	25
29	Relationship of polycyclic aromatic hydrocarbons with oxy(quinone) and nitro derivatives during air mass transport. <i>Science of the Total Environment</i> , 2016 , 572, 1175-1183	10.2	22
28	Interpretation of particle number size distributions measured across an urban area during the FASTER campaign. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 39-55	6.8	21
27	Effect of aerosol composition on the performance of low-cost optical particle counter correction factors. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 1181-1193	4	20
26	Alkanes and aliphatic carbonyl compounds in wintertime PM _{2.5} in Beijing, China. <i>Atmospheric Environment</i> , 2019 , 202, 244-255	5.3	16
25	Diesel exhaust nanoparticles and their behaviour in the atmosphere. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20180492	2.4	16
24	Characterization of Gas and Particulate Phase Organic Emissions (C-C) from a Diesel Engine and the Effect of Abatement Devices. <i>Environmental Science & Technology</i> , 2019 , 53, 11345-11352	10.3	14
23	A comparison of PM _{2.5} -bound polycyclic aromatic hydrocarbons in summer Beijing (China) and Delhi (India). <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14303-14319	6.8	14
22	Technical note: Use of an atmospheric simulation chamber to investigate the effect of different engine conditions on unregulated VOC-IVOC diesel exhaust emissions. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11073-11096	6.8	14
21	Behaviour of traffic emitted semi-volatile and intermediate volatility organic compounds within the urban atmosphere. <i>Science of the Total Environment</i> , 2020 , 720, 137470	10.2	13
20	Modelling component evaporation and composition change of traffic-induced ultrafine particles during travel from street canyon to urban background. <i>Faraday Discussions</i> , 2016 , 189, 529-46	3.6	13
19	Influence of petrochemical installations upon PAH concentrations at sites in Western Saudi Arabia. <i>Atmospheric Pollution Research</i> , 2016 , 7, 954-960	4.5	12
18	Size-resolved physico-chemical characterization of diesel exhaust particles and efficiency of exhaust aftertreatment. <i>Atmospheric Environment</i> , 2020 , 222, 117021	5.3	12
17	Chemical source profiles of fine particles for five different sources in Delhi. <i>Chemosphere</i> , 2021 , 274, 129913	8.4	12
16	Experimental vapour pressures of eight n-alkanes (C ₁₇ , C ₁₈ , C ₂₀ , C ₂₂ , C ₂₄ , C ₂₆ , C ₂₈ and C ₃₁) measured at ambient temperatures. <i>Atmospheric Environment</i> , 2019 , 213, 739-745	5.3	9
15	Composition and emission factors of traffic- emitted intermediate volatility and semi-volatile hydrocarbons (C ₁₀ -C ₁₆) at a street canyon and urban background sites in central London, UK. <i>Atmospheric Environment</i> , 2020 , 231, 117448	5.3	8
14	Insight into the composition of organic compounds (C ₆ -C ₁₀) in PM _{2.5} in wintertime in Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10865-10881	6.8	8

13	Secondary organic aerosol formation and composition from the photo-oxidation of methyl chavicol (estragole). <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5349-5368	6.8	8
12	Traffic-induced multicomponent ultrafine particle microphysics in the WRF v3.6.1 large eddy simulation model: General behaviour from idealised scenarios at the neighbourhood-scale. <i>Atmospheric Environment</i> , 2020 , 223, 117213	5.3	6
11	Aliphatic carbonyl compounds (C ₈ –C ₂₆) in wintertime atmospheric aerosol in London, UK. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2233-2246	6.8	5
10	The influence of particle composition upon the evolution of urban ultrafine diesel particles on the neighbourhood scale. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17143-17155	6.8	4
9	Interference from alkenes in chemiluminescent NO _x measurements. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 5977-5991	4	3
8	Mechanisms of reactivity of benzo(a)pyrene and other PAH inferred from field measurements. <i>Atmospheric Pollution Research</i> , 2018 , 9, 1214-1220	4.5	3
7	An instrument for in situ measurement of total ozone reactivity. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 1655-1670	4	2
6	Highlights from Faraday Discussion: Chemistry in the urban atmosphere, United Kingdom, April 2016. <i>Chemical Communications</i> , 2016 , 52, 9162-72	5.8	2
5	Neighbourhood-scale dispersion of traffic-induced ultrafine particles in central London: WRF large eddy simulations. <i>Environmental Pollution</i> , 2020 , 266, 115223	9.3	2
4	Insight into the Composition of Organic Compounds (C ₆) in PM _{2.5} in Wintertime in Beijing, China 2019 ,		1
3	Measurement report: Interpretation of wide-range particulate matter size distributions in Delhi. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 5415-5433	6.8	0
2	Production of the Atmospheric Oxidant Radicals OH and HO ₂ from the Ozonolysis of Alkenes. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2013 , 151-162	0.3	
1	Numerical modelling strategies for the urban atmosphere: general discussion. <i>Faraday Discussions</i> , 2016 , 189, 635-60	3.6	