CURRICULUM VITAE MELITA KEYWOOD

Qualifications: B.Sc, University of Auckland, 1989
M.Sc, University of Auckland, 1991
Ph.D, Australian National University, 1996

Research Interests: tracking long term changes in aerosol microphysics and chemical composition in the remote marine boundary layer, understanding aerosol growth and secondary organic aerosol in urban airsheds and biomass burning plumes, understanding the drivers of CCN regulation in the marine boundary layer and understanding the role of aerosols in cloud modulation

Employment

2018 - present	Senior Principal Research Scientist, CSIRO
2011 - 2018	Principal Research Scientist, CSIRO
2004 - 2011	Senior Research Scientist CSIRO
2002 - 2004	Post Doctoral Fellow, Californian Institute of Technology
2000 - 2002	Senior Research Scientist CSIRO
1999 - 2000	Research Scientist CSIRO
1996 - 1999	Post Doctoral Fellow, CSIRO

Leadership roles

2019 - present	President Commission for Atmospheric Chemistry and Global Pollution (ICACGP)
2016 -2018	Co-Chair, Scientific Program Committee, 14th iCACGP Quadrennial Symposium and 15th IGAC Science Conference Takamatsu, Japan, September 25-29, 2018
2014 - 2019	Vice president Commission for Atmospheric Chemistry and Global Pollution (ICACGP)
2012 - 2017	Co-chair of the IGAC\iLEAPS\WMO Interdisciplinary Biomass Burning Initiative
2013 - present	Research Group Leader, CSIRO
2016 - present	Team Leader, CSIRO
2011 - 2013	Team leader, CSIRO
2012 - 2014	Stream Leader, CSIRO
2017 - present	Lead Scientist, Particles and Multiphase Atmospheric Chemistry (PMAC) Program, Cape Grim Monitoring Station
2011 - 2017	Lead Scientist, Particles Program, Cape Grim Monitoring Station
2005 - 2017	Lead Scientist, Multiphase Atmospheric Chemistry Program, Cape Grim Monitoring Station

Committees

2014 to present	Member of the WMO Pollution and Atmospheric Chemistry Scientific Steering Committee (EPAC SSC)
2006 to present	Commission for Atmospheric Chemistry and Global Pollution (ICACGP)
2010 to 2016	Member of the RV Investigator Technical Advisory Group
2007 to 2009	Member of the Air Quality Working Group of the Environment Protection and Heritage Council
2005 to 2015	Env-007 Australian Standards Committee Member
2004 to 2014	NATA technical assessor
2010 to 2016	Science Steering Committee Member for International Global Atmospheric Chemistry Project (IGAC)

Awards

- 2019 Clean Air Achievement Award from the Clean Air Society of Australia and New Zealand Werner Strauss Clean Air Achievement Award
- 2016 Clean Air Achievement Award from the Clean Air Society of Australia and New Zealand for making a significant contribution to achieving improvements in the quality of the air environment.
- 2014 Certificate of Recognition from the Clean Air Society of Australia and New Zealand in recognition of significant contribution to the understanding of the air quality impacts of a major emergency on the local community and environment- Hazelwood Coal Mine Fire 2014
- 2002 to 2004 Post-Doctoral Fellowship, Californian Institute of Technology

Invited Presentations

- 2018 Keynote presentation at the 12th Australian and NZ Aerosol Symposium, Queenstown NZ , 19-20 October 2018
- 2018 Presentation at the EPA Victoria Workshop-Source Apportionment – why, what and how? Melbourne, 1-3 May 2018
- 2017 Keynote presentation at the 23rd Biennial International Clean Air and Environment Conference of the Clean Air Society of Australia and New Zealand, Brisbane, 15 – 18 October 2017
- 2016 Plenary presentation at the 13th iCACGP Quadrennial Symposium and 13th IGAC Science Conference, Natal Brazil, 22-26 September 2014
- 2016 Presentation to Early Career Researchers at the 13th iCACGP Quadrennial Symposium and 13th IGAC Science Conference, Natal Brazil, 22-26 September 2014
- 2016 Pearman Lecture Celebrating 40 years at Cape Grim, Melbourne, 5 April 2016 with Paul Fraser, Paul Krummel and Ian Galbally
- 2015 Pearman Lecture Aerosol, Clouds and the Southern Ocean - the chemistry-climate research frontier, Melbourne, 1 May 2015
- 2013 Presentation at the Advanced Air Quality Management Workshop, Sydney 7 September 2013

Publications

Melita has authored or co-authored 84 peer reviewed publications with over 3000 citations and an average of 38 citations per paper. Melita has a H-Index or 26 (26 papers with 25 or more citations – ISI Web of Science). Melita is also the author of over 75 client reports. Melita was the lead author for the Atmosphere Chapter of the 2016 Australian State of the Environment.

Supervision

Melita has supervised/co-supervised 5 PhD and 2 BSc (hons) students to completion and 1 Postdoctoral Fellow. Melita supervises a group of 32 staff at CSIRO.

Conference Organisation

- Convened IUGG Session Air Quality in the Changing Anthropocene, Montreal July 2019
- Chaired scientific program committee for 14th iCACGP Quadrennial Symposium and 15th IGAC Science Conference Takamatsu, Japan, September 25-29, 2018
- Convened EGU Session “Fire in the Earth System” Vienna, 2013-2016
- Convened Chemistry and Climate Session of IGAC Open Science Conference, Beijing 2012
- Convened 3rd, 8th and 13th Australian and NZ Aerosol Symposium (2004, 2012 and 2017)

Recent Significant Projects

Project title	External Investment	Role
Cape Grim Particles and Multiphase Atmospheric Chemistry Program	BoM ongoing ~$200K per year	Project and scientific leadership
National monitoring of hazardous substances in air for Persistent Organic Pollutants	Department of Environment and Energy 2011-2015 $1.4 M	Project and scientific leadership
Upper Hunter Particle Characterisation Study	NSW Office of Environment and Heritage 2012 $750K	Scientific leadership
Lower Hunter Particle Characterisation Study	NSW Office of Environment and Heritage 2014-2015 $350K	Scientific leadership
Sydney Particle Study	NSW Office of Environment and Heritage 2011-2014 $200K	Scientific leadership
Human health and CSG development: A future study design framework	Gas Industry Social and Environmental Alliance 2017 $275K	Project and scientific leadership
Air, water and soil impacts of hydraulic fracturing	Gas Industry Social and Environmental Alliance 2017-2018 $1.3M	Project and scientific leadership

Peer-Reviewed Publications

1. Coen, M. C., Andrews, E., Alastuey, A., Arsov, T. P., Backman, J., Brem, B. T., .Keywood, M., . . Laj, P. (2020). Multidecadal trend analysis of in situ aerosol radiative properties around the world. Atmospheric Chemistry and Physics, 20(14), 8867-8908. doi:10.5194/acp-20-8867-2020
2. Laj, P., Bigi, A., Rose, C., Andrews, E., Myhre, C. L., Coen, M. C., . Keywood, M., . Zikova, N. (2020). A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. Atmospheric Measurement Techniques, 13(8), 4353-4392. doi:10.5194/amt-13-4353-2020
3. Alroe, J., Cravigan, L. T., Miljevic, B., Johnson, G. R., Selleck, P., Humphries, R. S., Keywood, M. D., Chambers, S. D., Williams, A. G. and Ristovski, Z. D. (2020). Marine productivity and synoptic meteorology drive summer-time variability in Southern Ocean aerosols. Atmospheric Chemistry and Physics, 20(13), 8047-8062. doi:10.5194/acp-20-8047-2020
4. Strzelec, M., B. C. Proemse, M. Gault-Ringold, P. W. Boyd, M. M. G. Perron, R. Schofield, R. G. Ryan, Z. D. Ristovski, J. Alroe, R. S. Humphries, M. D. Keywood, J. Ward and A. R. Bowie (2020). "Atmospheric Trace Metal Deposition near the Great Barrier Reef, Australia." Atmosphere 11(4). doi:10.3390/atmos11040390
5. McGain F, Humphries R S, Hoon Lee J, Schofield R, French C, Keywood M, Irving L, Kevin K, Patel J and M. J (2020). "Aerosol generation related to respiratory interventions and the effectiveness of a personal ventilation hood." Critical Care and Resuscitation Epub ahead of print https://ccr.cicm.org.au/supplementary-june-2020/original-article-(2)?fbclid=IwAR2dYLQdJxUtMQ5H8IZn2hby4gAzgQTJ5QMIuFQhddWgqetnMkcgcX3Xrm
6. Keywood, M.; Hibberd, M.F.; Selleck, P.W.; Desservettaz, M.; Cohen, D.D.; Stelcer, E.; Atanacio, A.J.; Scorgie, Y.; Tzu-Chi Chang, L. (2020) Sources of Particulate Matter in the Hunter Valley, New South Wales, Australia. Atmosphere 2020, 11, 4. doi: 10.3390/atmos11010004.
7. Paton-Walsh, C., P. Rayner, J. Simmons, S. L. Fiddes, R. Schofield, H. Bridgman, S. Beaupark, R. Broome, S. D. Chambers, L. T. C. Chang, M. Cope, C. T. Cowie, M. Desservettaz, D. Dominick, K. Emmerson, H. Forehead, I. E. Galbally, A. Griffiths, E. A. Guerette, A. Haynes, J. Heyworth, B. Jalaludin, R. Kan, M. Keywood, K. Monk, G. G. Morgan, H. N. Duc, F. Phillips, R. Popek, Y. Scorgie, J. D. Silver, S. Utembe, I. Wadlow, S. R. Wilson and Y. Zhang (2019). "A Clean Air Plan for Sydney: An Overview of the Special Issue on Air Quality in New South Wales." Atmosphere 10, 12. doi: 10.3390/atmos10120774
8. Zhang, Y., Wang, K., Jena, C., Paton-Walsh, C., Guerette, E. A., Utembe, S., Silver, J. D., and Keywood, M. (2019) Multiscale Applications of Two Online-Coupled Meteorology-Chemistry Models during Recent Field Campaigns in Australia, Part II: Comparison of WRF/Chem and WRF/Chem-ROMS and Impacts of Air-Sea Interactions and Boundary Conditions, Atmosphere, 10, 210. doi: 10.3390/atmos10040210, 2019.
9. Zhang, Y., Jena, C., Wang, K., Paton-Walsh, C., Guerette, E. A., Utembe, S., Silver, J. D., and Keywood, M., (2019). Multiscale Applications of Two Online-Coupled Meteorology-Chemistry Models during Recent Field Campaigns in Australia, Part I: Model Description and WRF/Chem-ROMS Evaluation Using Surface and Satellite Data and Sensitivity to Spatial Grid Resolutions, Atmosphere, 10, 189. doi:10.3390/atmos10040189.
10. Humphries, R. S., McRobert, I. M., Ponsonby, W. A., Ward, J. P., Keywood, M. D., Loh, Z. M., Krummel, P. B., and Harnwell, J.(2019) Identification of platform exhaust on the RV Investigator, Atmospheric Measurement Techniques, 12, 3019-3038, doi: 10.5194/amt-12-3019-2019.
11. Keywood, M., Selleck, P., Reisen, F., Cohen, D., Chambers, S., Cheng, M., Cope, M., Crumeyrolle, S., Dunne, E., Emmerson, K., Fedele, R., Galbally, I., Gillett, R., Griffiths, A., Guerette, E. A., Harnwell, J., Humphries, R., Lawson, S., Miljevic, B., Molloy, S., Powell, J., Simmons, J., Ristovski, Z., and Ward, J. (2019) Comprehensive aerosol and gas data set from the Sydney Particle Study, Earth System Science Data, 11, 1883-1903, doi: 10.5194/essd-11-1883-2019
12. Howard, D., Macsween, K., Edwards, G. C., Desservettaz, M., Guerette, E. A., Paton-Walsh, C., Surawski, N. C., Sullivan, A. L., Weston, C., Volkova, L., Powell, J., Keywood, M. D., Reisen, F., and Meyer, C. P. (2019) Investigation of mercury emissions from burning of Australian eucalypt forest surface fuels using a

combustion wind tunnel and field observations, Atmospheric Environment, 202, 17-27, doi: 10.1016/j.atmosenv.2018.12.015.

13. Guerette, E. A., Paton-Walsh, C., Galbally, I., Molloy, S., Lawson, S., Kubistin, D., Buchholz, R., Griffith, D. W. T., Langenfelds, R. L., Krummel, P. B., Loh, Z., Chambers, S., Griffiths, A., Keywood, M., Selleck, P., Dominick, D., Humphries, R., and Wilson, S. R. (2019) Composition of Clean Marine Air and Biogenic Influences on VOCs during the MUMBA Campaign, Atmosphere, 10, 383 doi:10.3390/atmos10070383.
14. Dominick, D., Wilson, S. R., Paton-Walsh, C., Humphries, R., Guerette, E. A., Keywood, M., Selleck, P., Kubistin, D., and Marwick, B. (2019) Particle Formation in a Complex Environment, Atmosphere, 10, 275 doi: 10.3390/atmos10050275.
15. Cui, T., Green, H. S., Selleck, P. W., Zhang, Z. F., O'Brien, R. E., Gold, A., Keywood, M., Kroll, J. H., and Surratt, J. D. (2019) Chemical Characterization of Isoprene- and Monoterpene-Derived Secondary Organic Aerosol Tracers in Remote Marine Aerosols over a Quarter Century, ACS Earth and Space Chemistry, 3, 935-946, doi: 10.1021/acsearthspacechem.9b00061.
16. Chen, Z. Y., Schofield, R., Rayner, P., Zhang, T. S., Liu, C., Vincent, C., Fiddes, S., Ryan, R. G., Alroe, J., Ristovski, Z. D., Humphries, R. S., Keywood, M. D., Ward, J., Paton-Walsh, C., Naylor, T., and Shu, X. W. (2019) Characterization of aerosols over the Great Barrier Reef: The influence of transported continental sources, Science of The Total Environment, 690, 426-437, doi: 10.1016/j.scitotenv.2019.07.007.
17. Andrews, E., Sheridan, P. J., Ogren, J. A., Hageman, D., Jefferson, A., Wendell, J., Alastuey, A., Alados-Arboledas, L., Bergin, M., Ealo, M., Hallar, A. G., Hoffer, A., Kalapov, I., Keywood, M., Kim, J., Kim, S. W., Kolonjari, F., Labuschagne, C., Lin, N. H., Macdonald, A., Mayol-Bracero, O. L., McCubbin, I. B., Pandolfi, M., Reisen, F., Sharma, S., Sherman, J. P., Sorribas, M., and Sun, J. Y. (2019) OVERVIEW OF THE NOAA/ESRL FEDERATED AEROSOL NETWORK, Bulletin of the American Meteorological Society, 100, 123-135, doi: 10.1175/bams-d-17-0175.1.
18. Chambers, S. D., Guerette, E. A., Monk, K., Griffiths, A. D., Zhang, Y., Duc, H., Cope, M., Emmerson, K. M., Chang, L. T., Silver, J. D., Utembe, S., Crawford, J., Williams, A. G., and Keywood, M.(2019) Skill-Testing Chemical Transport Models across Contrasting Atmospheric Mixing States Using Radon-222, Atmosphere, 10, 25 doi: 10.3390/atmos10010025.
19. Paton-Walsh, C., Guerette, E. A., Emmerson, K., Cope, M., Kubistin, D., Humphries, R., Wilson, S., Buchholz, R., Jones, N. B., Griffith, D. W. T., Dominick, D., Galbally, I., Keywood, M., Lawson, S., Harnwell, J., Ward, J., Griffiths, A., and Chambers, S. (2019) Urban Air Quality in a Coastal City: Wollongong during the MUMBA Campaign, Atmosphere, 9, 500 doi: 10.3390/atmos9120500.
20. McCluskey, C. S., Hill, T. C. J., Humphries, R. S., Rauker, A. M., Moreau, S., Strutton, P. G., Chambers, S. D., Williams, A. G., McRobert, I., Ward, J., Keywood, M. D., Harnwell, J., Ponsonby, W., Loh, Z. M., Krummel, P. B., Protat, A., Kreidenweis, S. M., and DeMott, P. J.(2018) Observations of Ice Nucleating Particles Over Southern Ocean Waters, Geophysical Research Letters, 45, 11989-11997, doi: 10.1029/2018gl0799.
21. Dominick, D., Wilson, S. R., Paton-Walsh, C., Humphries, R., Guerette, E. A., Keywood, M., Kubistin, D., and Marwick, B. (2018) Characteristics of airborne particle number size distributions in a coastal-urban environment, Atmospheric Environment, 186, 256-265, doi:10.1016/j.atmosenv.2018.05.031.
22. Desservettaz M, Paton-Walsh C, Griffith DWT, Kettlewell G, Keywood MD, Vanderschoot MV, Ward J, Mallet MD, Milic A, Miljevic B, Ristovski ZD, Howard D, Edwards GC and Atkinson B (2017) Emission factors of trace gases and particles from tropical savanna fires in Australia. Journal of Geophysical Research-Atmospheres 122(11): 6059-6074. doi: 10.1002/2016jd025925
23. Gillett RW, Galbally IE, Keywood MD, Powell JC, Stevenson G, Yates A and Borgen AR (2017) Atmospheric short-chain-chlorinated paraffins in Melbourne, Australia - first extensive Southern Hemisphere observations. Environmental Chemistry 14(2): 106-114. doi:10.1071/en16152
24. Keywood M, Hibberd M and Emmerson K (2017) Atmosphere in State of the Environment 2016. https://soe.environment.gov.au/sites/g/files/net806/f/soe2011-report-atmosphere.pdf?v=1488161769
25. Jackson W, Argent R, Bax N, Clarke G, Coleman S, Cresswell I, Emmerson K, Evans K, Hibberd M, Johnston E, Keywood M, Klekociuk A, Mackay R, Metcalfe D, Murphy H, Rankin A, Smith D and Wienecke B (2017) State of the Environment 2016: Overview. https://soe.environment.gov.au/sites/g/files/net806/f/soe2011-report-complete.pdf?v=1488164460
26. Gras JL and Keywood M (2017) Cloud condensation nuclei over the Southern Ocean: wind dependence and seasonal cycles. Atmospheric Chemistry and Physics 17(7): 4419-4432. doi: 10.5194/acp-17-4419-2017

27. Lawson SJ, Cope M, Lee S, Galbally IE, Ristovski Z and Keywood MD (2017) Biomass burning at Cape Grim: exploring photochemistry using multi-scale modelling. Atmospheric Chemistry and Physics 17(19): 11707-11726. doi: 10.5194/acp-17-11707-2017
28. Mallet MD, Cravigan LT, Milic A, Alroe J, Ristovski ZD, Ward J, Keywood M, Williams LR, Selleck P and Miljevic B (2017) Composition, size and cloud condensation nuclei activity of biomass burning aerosol from northern Australian savannah fires. Atmospheric Chemistry and Physics 17(5): 3605-3617. doi: 10.5194/acp-17-3605-2017
29. Milic A, Mallet MD, Cravigan LT, Alroe J, Ristovski ZD, Selleck P, Lawson SJ, Ward J, Desservettaz MJ, Paton-Walsh C, Williams LR, Keywood MD and Miljevic B (2017) Biomass burning and biogenic aerosols in northern Australia during the SAFIRED campaign. Atmospheric Chemistry and Physics 17(6): 3945-3961. doi: 10.5194/acp-17-3945-2017
30. Paton-Walsh C, Guerette EA, Kubistin D, Humphries R, Wilson SR, Dominick D, Galbally I, Buchholz R, Bhujel M, Chambers S, Cheng M, Cope M, Davy P, Emmerson K, Griffith DWT, Griffiths A, Keywood M, Lawson S, Molloy S, Rea G, Selleck P, Shi X, Simmons J and Velazco V (2017) The MUMBA campaign: measurements of urban, marine and biogenic air. Earth System Science Data 9(1): 349-362. doi: 10.5194/essd-9-349-2017
31. Wang XY, Meyer CP, Reisen F, Keywood M, Thai PK, Hawker DW, Powell J and Mueller JF (2017) Emission Factors for Selected Semivolatile Organic Chemicals from Burning of Tropical Biomass Fuels and Estimation of Annual Australian Emissions. Environmental Science & Technology 51(17): 9644-9652. doi: 10.1021/acs.est.7b01392
32. Wang XY, Thai PK, Mallet M, Desservettaz M, Hawker DW, Keywood M, Miljevic B, Paton-Walsh C, Gallen M and Mueller JF (2017) Emissions of Selected Semivolatile Organic Chemicals from Forest and Savannah Fires. Environmental Science & Technology 51(3): 1293-1302. doi: 10.1021/acs.est.6b03503
33. Wang ZB, Wu ZJ, Yue DL, Shang DJ, Guo S, Sun JY, Ding AJ, Wang L, Jiang JK, Guo H, Gao J, Cheung HC, Morawska L, Keywood M and Hu M (2017) New particle formation in China: Current knowledge and further directions. Science of The Total Environment 577: 258-266. doi: 10.1016/j.scitotenv.2016.10.177
34. Protat A, Schulz E, Rikus L, Sun ZA, Xiao Y and Keywood M (2017) Shipborne observations of the radiative effect of Southern Ocean clouds. Journal of Geophysical Research-Atmospheres 122(1): 318-328. doi: 10.1002/2016jd026061
35. Winton VHL, Edwards R, Bowie AR, Keywood M, Williams AG, Chambers SD, Selleck PW, Desservettaz M, Mallet MD and Paton-Walsh C (2016) Dry season aerosol iron solubility in tropical northern Australia. Atmospheric Chemistry and Physics 16(19): 12829-12848. doi:10.5194/acp-16-12829-2016
36. Cheng, M., Galbally, I. E., Molloy, S. B., Selleck, P. W., Keywood, M. D., Lawson, S. J., Powell, J. C., Gillett, R. W., & Dunne, E. (2016). Factors controlling volatile organic compounds in dwellings in Melbourne, Australia. Indoor Air, 26(2), 219-230.
37. Iinuma Y, Keywood M and Herrmann H (2016) Characterization of primary and secondary organic aerosols in Melbourne airshed: The influence of biogenic emissions, wood smoke and bushfires. Atmospheric Environment 130: 54-63. doi:10.1016/j.atmosenv.2015.12.014
38. Emmerson KM, Galbally IE, Guenther AB, Paton-Walsh C, Guerette EA, Cope ME, Keywood MD, Lawson SJ, Molloy SB, Dunne E, Thatcher M, Karl T and Maleknia SD (2016) Current estimates of biogenic emissions from eucalypts uncertain for southeast Australia. Atmospheric Chemistry and Physics 16(11): 6997-7011. doi: 10.5194/acp-16-6997-2016
39. Winton VHL, Bowie AR, Edwards R, Keywood M, Townsend AT, van der Merwe P and Bollhoefer A (2015) Fractional iron solubility of atmospheric iron inputs to the Southern Ocean. Marine Chemistry 177: 20-32. doi: 10.1016/j.marchem.2015.06.006
40. Humphries RS, Klekociuk AR, Schofield R, Keywood M, Ward J and Wilson SR (2016) Unexpectedly high ultrafine aerosol concentrations above East Antarctic sea ice. Atmospheric Chemistry and Physics 16(4): 2185-2206. doi: 10.5194/acp-16-2185-2016
41. Humphries RS, Schofield R, Keywood MD, Ward J, Pierce JR, Gionfriddo CM, Tate MT, Krabbenhoft DP, Galbally IE, Molloy SB, Klekociuk AR, Johnston PV, Kreher K, Thomas AJ, Robinson AD, Harris NRP, Johnson R and Wilson SR (2015) Boundary layer new particle formation over East Antarctic sea ice – possible Hg-driven nucleation? Atmos. Chem. Phys. 15(23): 13339-13364. doi:10.5194/acp-15-13339-2015
42. Kaiser JW and Keywood M (2015) Preface for Atmos. Env. Special issue on IBBI. Atmospheric Environment 121: 1-3. doi: 10.1016/j.atmosenv.2015.10.033

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44. Lawson SJ, Keywood MD, Galbally IE, Gras JL, Cainey JM, Cope ME, Krummel PB, Fraser PJ, Steele LP, Bentley ST, Meyer CP, Ristovski Z and Goldstein AH (2015) Biomass burning emissions of trace gases and particles in marine air at Cape Grim, Tasmania, 41° S. Atmospheric Chemistry and Physics, 15(23), 13393-13411. doi:10.5194/acp-15-13393-2015
45. Cravigan LT, Ristovski Z, Modini RL, Keywood MD and Gras JL (2015) Observation of sea-salt fraction in sub-100nm diameter particles at Cape Grim. Journal of Geophysical Research-Atmospheres 120(5): 1848-1864. doi: 10.1002/2014jd022601
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47. Wang X, Kennedy K, Powell JP, **Keywood MD**, Gillett RW, Thai P, Bridgen P, Broomhall S, Paxman C, Wania F and Mueller J (2015) Spatial distribution 1 of selected persistent organic pollutants (POPs) in Australia's atmosphere. Environmental Science Processes and Impacts in press doi: 10.1039/c4em00594e
48. Dennekamp M, Straney LD, Erbas B, Abramson MJ, **Keywood M**, Smith K, Sim MR, Glass DC, Del Monaco A, Haikerwal A and Tonkin AM (2015) Forest Fire Smoke Exposures and Out-of-Hospital Cardiac Arrests in Melbourne, Australia: A Case-Crossover Study. Environmental Health Perspectives 123(10): 959-964. doi: 10.1289/ehp.1408436
49. Lawson S J, Selleck PW, Galbally IE, **Keywood MD**, Harvey MJ, Lerot C, Helmig D and Ristovski Z (2015) Seasonal in situ observations of glyoxal and methylglyoxal over the temperate oceans of the Southern Hemisphere Atmospheric Chemistry and Physics, 15, 223–240, doi:10.5194/acp-15-223-2015 www.atmos-chem-phys.net/15/223/2015/
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51. Molloy SB, Cheng M, Galbally IE, **Keywood MD**, Lawson SJ, Powell JC, Gillett R, Dunne E and Selleck PW (2012) Indoor air quality in typical temperate zone Australian dwellings. Atmospheric Environment 54: 400-407. doi: 10.1016/j.atmosenv.2012.02.031
52. **Keywood MD**, Kanakidou M, Stohl A, Dentener F, Grassi G, Meyer CP, Torseth K, Edwards D, Thompson AM, Lohmann U and Burrows J (2013) Fire in the Air: Biomass Burning Impacts in a Changing Climate. Critical Reviews in Environmental Science and Technology 43(1): 40-83. doi: 10.1080/10643389.2011.604248
53. Galbally IE, **Keywood MD**, Powell JC, Lawson SJ, Cheng M., Dunne R, Gillett RW, Molloy SB, Selleck PW, Ward J and Reisen F (2011) An overview of the CSIRO 2008-2009 indoor air quality study. Air Quality and Climate Change 45: 27-35
54. Lawson SJ, Galbally IE, Powell JC, **Keywood MD**, Molloy SB, Cheng M and Selleck PW (2011) The effect of proximity to major roads on indoor air quality in typical Australian dwellings. Atmospheric Environment 45(13): 2252-2259. doi: 10.1016/j.atmosenv.2011.01.024
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56. Beer T, Carras J, Worth D, Coplin N, Campbell PK, Jalaludin B, Angove D, Azzi M, Brown S, Campbell I, Cope M, Farrell O, Galbally I, Haiser S, Halliburton B, Hynes R, Jacyna D, **Keywood MD**, Lavrencic S, Lawson S, Lee S, Liepa I, McGregor J, Nancarrow P, Patterson M, Powell J, Tibbett A, Ward J, White S, Williams D and Wood R (2011) The Health Impacts of Ethanol Blend Petrol. Energies 4(2): 352-367. doi: 10.3390/en4020352
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