

# Brett C Singer

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

5,554  
citations

76326

40  
h-index

102487

66  
g-index

79  
all docs

79  
docs citations

79  
times ranked

4524  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Traffic-related Air Pollution near Busy Roads. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004, 170, 520-526.   | 5.6  | 372       |
| 2  | Thirdhand Tobacco Smoke: Emerging Evidence and Arguments for a Multidisciplinary Research Agenda. <i>Environmental Health Perspectives</i> , 2011, 119, 1218-1226.   | 6.0  | 355       |
| 3  | Formation of carcinogens indoors by surface-mediated reactions of nicotine with nitrous acid, leading to potential thirdhand smoke hazards. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6576-6581. | 7.1  | 351       |
| 4  | Indoor pollutants emitted by office equipment: A review of reported data and information needs. <i>Atmospheric Environment</i> , 2008, 42, 1371-1388.  | 4.1  | 300       |
| 5  | Indoor secondary pollutants from cleaning product and air freshener use in the presence of ozone. <i>Atmospheric Environment</i> , 2006, 40, 6696-6710.  | 4.1  | 267       |
| 6  | Cleaning products and air fresheners: emissions and resulting concentrations of glycol ethers and terpenoids. <i>Indoor Air</i> , 2006, 16, 179-191.   | 4.3  | 262       |
| 7  | Indoor Secondary Pollutants from Household Product Emissions in the Presence of Ozone: A Bench-Scale Chamber Study. <i>Environmental Science &amp; Technology</i> , 2006, 40, 4421-4428.   | 10.0 | 218       |
| 8  | A Method to Estimate the Chronic Health Impact of Air Pollutants in U.S. Residences. <i>Environmental Health Perspectives</i> , 2012, 120, 216-222.  | 6.0  | 195       |
| 9  | Hazard assessment of chemical air contaminants measured in residences. <i>Indoor Air</i> , 2011, 21, 92-109.   | 4.3  | 194       |
| 10 | Impact of Oxygenated Gasoline Use on California Light-Duty Vehicle Emissions. <i>Environmental Science &amp; Technology</i> , 1996, 30, 661-670.   | 10.0 | 162       |
| 11 | Gas-Phase Organics in Environmental Tobacco Smoke. 1. Effects of Smoking Rate, Ventilation, and Furnishing Level on Emission Factors. <i>Environmental Science &amp; Technology</i> , 2002, 36, 846-853.   | 10.0 | 130       |
| 12 | Sorption of organic gases in a furnished room. <i>Atmospheric Environment</i> , 2004, 38, 2483-2494.   | 4.1  | 123       |
| 13 | Gas-phase organics in environmental tobacco smoke: 2. Exposure-relevant emission factors and indirect exposures from habitual smoking. <i>Atmospheric Environment</i> , 2003, 37, 5551-5561.   | 4.1  | 113       |
| 14 | Inhalation of hazardous air pollutants from environmental tobacco smoke in US residences. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2004, 14, S71-S77.   | 3.9  | 111       |
| 15 | Impact of California Reformulated Gasoline on Motor Vehicle Emissions. 2. Volatile Organic Compound Speciation and Reactivity. <i>Environmental Science &amp; Technology</i> , 1999, 33, 329-336.  | 10.0 | 109       |
| 16 | Effect of Ozone on Nicotine Desorption from Model Surfaces: Evidence for Heterogeneous Chemistry. <i>Environmental Science &amp; Technology</i> , 2006, 40, 1799-1805.   | 10.0 | 108       |
| 17 | Impact of California Reformulated Gasoline on Motor Vehicle Emissions. 1. Mass Emission Rates. <i>Environmental Science &amp; Technology</i> , 1999, 33, 318-328.  | 10.0 | 105       |
| 18 | Pollutant concentrations and emission rates from natural gas cooking burners without and with range hood exhaust in nine California homes. <i>Building and Environment</i> , 2017, 122, 215-229.   | 6.9  | 97        |

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|----|---|------|-----------|
| 19 | Indoor environmental quality benefits of apartment energy retrofits. <i>Building and Environment</i> , 2013, 68, 170-178.   | 6.9  | 92        |
| 20 | Capture efficiency of cooking-related fine and ultrafine particles by residential exhaust hoods. <i>Indoor Air</i> , 2015, 25, 45-58.   | 4.3  | 91        |
| 21 | A Fuel-Based Motor Vehicle Emission Inventory. <i>Journal of the Air and Waste Management Association</i> , 1996, 46, 581-593.  | 1.9  | 87        |
| 22 | Response of consumer and research grade indoor air quality monitors to residential sources of fine particles. <i>Indoor Air</i> , 2018, 28, 624-639.  | 4.3  | 87        |
| 23 | Performance of installed cooking exhaust devices. <i>Indoor Air</i> , 2012, 22, 224-234.  | 4.3  | 85        |
| 24 | Pollutant Exposures from Natural Gas Cooking Burners: A Simulation-Based Assessment for Southern California. <i>Environmental Health Perspectives</i> , 2014, 122, 43-50.                     | 6.0  | 81        |
| 25 | Performance of low-cost indoor air quality monitors for PM2.5 and PM10 from residential sources. <i>Building and Environment</i> , 2020, 171, 106654.   | 6.9  | 78        |
| 26 | A fuel-based inventory of motor vehicle exhaust emissions in the Los Angeles area during summer 1997. <i>Atmospheric Environment</i> , 2000, 34, 1783-1795.                                   | 4.1  | 73        |
| 27 | Sorption of organic gases in residential rooms. <i>Atmospheric Environment</i> , 2007, 41, 3251-3265.   | 4.1  | 73        |
| 28 | Performance Assessment of U.S. Residential Cooking Exhaust Hoods. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6167-6173.  | 10.0 | 69        |
| 29 | Scaling of Infrared Remote Sensor Hydrocarbon Measurements for Motor Vehicle Emission Inventory Calculations. <i>Environmental Science &amp; Technology</i> , 1998, 32, 3241-3248.            | 10.0 | 68        |
| 30 | Indoor Sorption of Surrogates for Sarin and Related Nerve Agents. <i>Environmental Science &amp; Technology</i> , 2005, 39, 3203-3214.  | 10.0 | 66        |
| 31 | Formaldehyde and acetaldehyde exposure mitigation in US residences: in-home measurements of ventilation control and source control. <i>Indoor Air</i> , 2015, 25, 523-535.                    | 4.3  | 64        |
| 32 | Performance assessment of low-cost environmental monitors and single sensors under variable indoor air quality and thermal conditions. <i>Building and Environment</i> , 2021, 187, 107415.   | 6.9  | 64        |
| 33 | Wildfire Smoke Adjustment Factors for Low-Cost and Professional PM2.5 Monitors with Optical Sensors. <i>Sensors</i> , 2020, 20, 3683.   | 3.8  | 62        |
| 34 | Passive measurement of nitrogen oxides to assess traffic-related pollutant exposure for the East Bay Children's Respiratory Health Study. <i>Atmospheric Environment</i> , 2004, 38, 393-403. | 4.1  | 61        |
| 35 | Results of the California Healthy Homes Indoor Air Quality Study of 2011-2013: impact of natural gas appliances on air pollutant concentrations. <i>Indoor Air</i> , 2016, 26, 231-245.       | 4.3  | 54        |
| 36 | A Fuel-Based Approach to Estimating Motor Vehicle Cold-Start Emissions. <i>Journal of the Air and Waste Management Association</i> , 1999, 49, 125-135.                                       | 1.9  | 53        |

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|----|---|------|-----------|
| 37 | Interactions and comprehensive effect of indoor environmental quality factors on occupant satisfaction. <i>Building and Environment</i> , 2020, 167, 106462.                                    | 6.9  | 53        |
| 38 | Ozone Levels in Passenger Cabins of Commercial Aircraft on North American and Transoceanic Routes. <i>Environmental Science &amp; Technology</i> , 2008, 42, 3938-3943.                         | 10.0 | 49        |
| 39 | The benefit of kitchen exhaust fan use after cooking - An experimental assessment. <i>Building and Environment</i> , 2018, 135, 286-296.  | 6.9  | 48        |
| 40 | Association of residential energy efficiency retrofits with indoor environmental quality, comfort, and health: A review of empirical data. <i>Building and Environment</i> , 2020, 180, 107067. | 6.9  | 43        |
| 41 | Quantifying fine particle emission events from time-resolved measurements: Method description and application to 18 California low-income apartments. <i>Indoor Air</i> , 2018, 28, 89-101.     | 4.3  | 37        |
| 42 | Energy impacts of envelope tightening and mechanical ventilation for the U.S. residential sector. <i>Energy and Buildings</i> , 2013, 65, 281-291.  | 6.7  | 35        |
| 43 | Ventilation rates in California classrooms: Why many recent HVAC retrofits are not delivering sufficient ventilation. <i>Building and Environment</i> , 2020, 167, 106426.                      | 6.9  | 35        |
| 44 | Indoor air quality in 24 California residences designed as high-performance homes. <i>Science and Technology for the Built Environment</i> , 2015, 21, 14-24.                                   | 1.7  | 33        |
| 45 | Indoor air quality in California homes with code-required mechanical ventilation. <i>Indoor Air</i> , 2020, 30, 885-899.  | 4.3  | 32        |
| 46 | Measured performance of filtration and ventilation systems for fine and ultrafine particles and ozone in an unoccupied modern California house. <i>Indoor Air</i> , 2017, 27, 780-790.          | 4.3  | 29        |
| 47 | Infiltration effects on residential pollutant concentrations for continuous and intermittent mechanical ventilation approaches. <i>HVAC and R Research</i> , 2011, 17, 159-173.                 | 0.6  | 23        |
| 48 | Protocol for maximizing energy savings and indoor environmental quality improvements when retrofitting apartments. <i>Energy and Buildings</i> , 2013, 61, 378-386.                             | 6.7  | 22        |
| 49 | Effect of venting range hood flow rate on size-resolved ultrafine particle concentrations from gas stove cooking. <i>Aerosol Science and Technology</i> , 2018, 52, 1370-1381.                  | 3.1  | 17        |
| 50 | Factors Impacting Range Hood Use in California Houses and Low-Income Apartments. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8870.                     | 2.6  | 16        |
| 51 | Post-occupancy evaluation of indoor environmental quality in ten nonresidential buildings in Chongqing, China. <i>Journal of Building Engineering</i> , 2020, 32, 101649.                       | 3.4  | 14        |
| 52 | Control of airborne infectious disease in buildings: Evidence and research priorities. <i>Indoor Air</i> , 2022, 32, .  | 4.3  | 14        |
| 53 | Indoor air quality in new and renovated low-income apartments with mechanical ventilation and natural gas cooking in California. <i>Indoor Air</i> , 2021, 31, 717-729.                         | 4.3  | 13        |
| 54 | Measured influence of overhead HVAC on exposure to airborne contaminants from simulated speaking in a meeting and a classroom. <i>Indoor Air</i> , 2022, 32, .                                  | 4.3  | 11        |

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|----|--|------|-----------|
| 55 | Estimated Emission Reductions from California's Enhanced Smog Check Program. Environmental Science & Technology, 2003, 37, 2588-2595.  | 10.0 | 10        |
| 56 | Short-term emissions deterioration in the California and Phoenix I/M programs. Transportation Research, Part D: Transport and Environment, 2004, 9, 107-124.   | 6.8  | 8         |
| 57 | Investigation of formaldehyde and acetaldehyde sampling rate and ozone interference for passive deployment of Waters Sep-Pak XPoSure samplers. Atmospheric Environment, 2013, 80, 184-189.                       | 4.1  | 8         |
| 58 | Evidence of acid-base interactions between amines and model indoor surfaces by ATR-FTIR spectroscopy. Atmospheric Environment, 2007, 41, 3177-3181.  | 4.1  | 7         |
| 59 | Calibration of the Ogawa passive ozone sampler for aircraft cabins. Atmospheric Environment, 2013, 65, 21-24.  | 4.1  | 7         |
| 60 | A simplified model for estimating population-scale energy impacts of building envelope air tightening and mechanical ventilation retrofits. Journal of Building Performance Simulation, 2016, 9, 1-16.           | 2.0  | 7         |
| 61 | Does vaping affect indoor air quality?. Indoor Air, 2020, 30, 793-794.   | 4.3  | 6         |
| 62 | Air quality impacts of liquefied natural gas in the South Coast Air Basin of California. Journal of Natural Gas Science and Engineering, 2014, 21, 680-690.  | 4.4  | 5         |
| 63 | Performance of a CO <sub>2</sub> sorbent for indoor air cleaning applications: Effects of environmental conditions, sorbent aging, and adsorption of co-occurring formaldehyde. Indoor Air, 2020, 30, 1283-1295. | 4.3  | 5         |
| 64 | Energy impacts of effective range hood use for all U.S. residential cooking. HVAC and R Research, 2014, 20, 264-275.   | 0.6  | 3         |
| 65 | Investigating the influence of environmental information on perceived indoor environmental quality: An exploratory study. Journal of Building Engineering, 2022, 48, 103933.                                     | 3.4  | 2         |