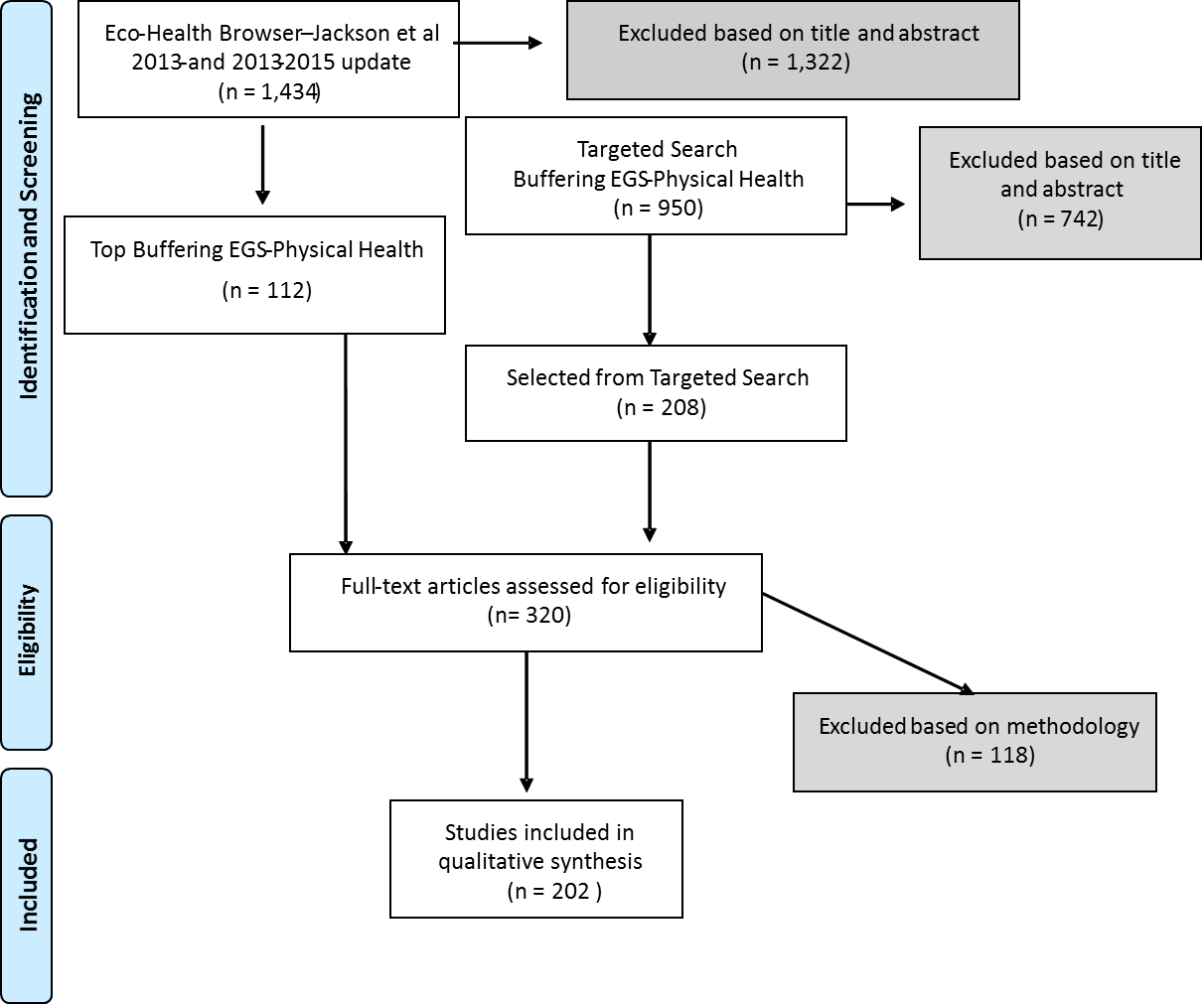
**Keyword search specifications.** We searched in Google Scholar for a combination of all keywords in column 1 with the keywords in column 2 to assess Green Space-Ecosystem Goods and Services (EGS) linkages. We used a combination of keywords in column 2 and column 3 to assess EGS-Health linkages, and a combination of keywords in column 1 and column 3 to assess Green Space-Health direct linkages. The keywords selected were based on indicators that we found to be associated to Eco-Health linkages after revising the USEPA Eco Health browser (<https://www.epa.gov/enviroatlas/enviroatlas-eco-health-relationship-browser>)

|  |  |  |
| --- | --- | --- |
| 1.Green Spaces | 2.Ecosystem Goods and Services | 3.Physical Health |
| trees | Clean Water | \*GI Disease |
| vegetation | fecal coliform | gastro-intestinal |
| green spaces | copper | diarrhea |
| green-roofs | Clean Air | vomit |
| urban forest | \*PM2.5,10 | Respiratory Illness |
| wetlands | \*NO2 | respiratory |
| mangroves | \*SO2 | bronchitis |
| marshes | \*CO | asthma |
|  | Water Hazard Mitigation | cough |
|  | flood | wheeze |
|  | urban runoff | Cardio Vascular Disease |
|  | storm-surge | cardiovascular |
|  | hurricane | heart |
|  | wave attenuation | circulatory |
|  | Heat Hazard Mitigation | Heat Morbidities |
|  | heat | excess hospital admissions |
|  | heat-wave |  |

\*Abbreviations: PM2.5,10= particulate matter smaller than 2.5µm, or 10µm; NO2= Nitrogen dioxide; SO2= Sulfur dioxide; CO=Carbon monoxide

Literature Review Process



\*

\*

\* EGS=Ecosystem Goods and Services

**Details of articles evaluated and Eco-Evidence scores**. Abbreviations: GI Disease= Gastro Intestinal Disease; CVD=Cardiovascular disease; EGS=Ecosystem Goods and Services; Y=Yes; N=No.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Linkage | Reference | Cause | Effect | Supports Linkage? | Design | Score | Controls | score | Impacted | Score | Total |
| *Green Space-EGS* |  |  |  |  |  |  |  |  |  |  |  |
| **Green Space-Clean Water** | Allen 2003 | bioretention facilities | copper removal | Y | Before/After | 2 | 0 | 0 | 4 | 3 | 5 |
| Allen 2007 | bioretention facilities | copper removal | Y | Before/After | 2 | 0 | 0 | 2 | 2 | 4 |
| Ayaz et al 2008 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 3 | 3 | 5 |
| Birch et al 2004 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Birch et al 2005 | stormwater infiltration basin | fecal bacteria removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Casteel et al 2005 | riparian buffer | fecal bacteria removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Cheng et al 2002 | constructed wetlandss | copper removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Coleman et al 2001 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 1 | 2 | 4 | 3 | 7 |
| Coyne et al 1995 | grass filter strips | fecal Bacteria Removal | Y | Before/After | 2 | 0 | 0 | 2 | 2 | 4 |
| Dallas et al 2004 | reedbeds | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Davies and Bavor 2000 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 1 | 2 | 1 | 0 | 5 |
| Diaz et al 2010 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 4 | 3 | 5 |
| Dorsey et al 2010 | urban salt marsh | fecal bacteria | N | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Eger and Lapakko 1988 | natural wetlands | copper removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Gerba et al 1999 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 2 | 1 | 3 |
| Hill and Sobsey 2001 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 3 | 3 | 5 |
| Johnston et al 1990 | landscape wetland cover | fecal bacteria | Y | Gradient | 3 | 0 | 0 | 15 | 6 | 9 |
| Karathanasis et al 2003 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 3 | 3 | 7 |
| Karpiscak et al 1996 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 2 | 1 | 3 |
| Khan et al 2009 | constructed wetlandss | copper removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| KNx et al 2008 | natural wetlandss | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Knox et al 2009 | impacted wetland | fecal bacteria | N | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Lau and Chu 2000 | wetland enclosures | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 2 | 1 | 3 |
| Li and Allen 2009 | bioretention facilities | Copper removal | Y | Before/After | 2 | 0 | 0 | 0 | 0 | 0 |
| Mahenge 2014 | constructed mangroves | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Mallin et al 2001 | wetland cover | correlation between rain and fecal coliform counts | Y | Gradient | 3 | 0 | 0 | 11 | 6 | 9 |
| Mantovi et al 2003 | reedbeds | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 2 | 1 | 3 |
| Murray-Gulde et al 2005 | constructed wetlandss | copper removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Myers and Ambrose 2015 | urban salt marsh | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Nelson et al 2006 | constructed wetlandss | copper removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Neralla et al 2000 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 8 | 3 | 5 |
| Perkins and Hunter 2000 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 4 | 3 | 5 |
| Quiñónez-Dìaz | constructed wetlands | fecal bacteria | N | Before/after | 2 | 1 | 2 | 1 | 0 | 4 |
| Rea et al 2015 | coastal wetland | fecal bacteria | Y | Gradient | 3 | 0 | 0 | 4 | 2 | 5 |
| Reinelt and Horner 1995 | palustrine wetland | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 2 | 1 | 3 |
| Scholz et al 2002 | constructed wetlandss | copper removal | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Shutes et al 2001 | constructed wetlandss | copper removal | N | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Sleytr et al 2007 | constructed wetlands | fecal bacteria | N | Before/after | 2 | 2 | 3 | 8 | 3 | 8 |
| Song et al 2006 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 1 | 0 | 2 |
| Steer et al 2002 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 21 | 3 | 5 |
| Tam and Wong 1995 | mangrove mesocosms | copper concentration | Y | Before/after | 4 | 6 | 3 | 6 | 3 | 10 |
| Thurston et al 2001 | constructed wetlands | fecal bacteria | Y | Before/after | 2 | 1 | 2 | 1 | 0 | 4 |
| Vijayaraghavan and Joshi 2014 | green roof | Copper removal | Y | Before/After | 2 | 1 | 2 | 1 | 0 | 4 |
| Yang et al 2008 | constructed mangroves | fecal bacteria | Y | Before/after | 2 | 0 | 0 | 3 | 3 | 5 |
| **Green Spaces-Clean Air** | Hill 1971 | alfalfa canopy | SO2 removal | Y | Before and After | 2 | 0 | 0 | 1 | 0 | 2 |
| Martin and Barber 1967 | hedge | SO2 removal | Y | Before and After | 2 | 4 | 3 | 1 | 0 | 5 |
| Chaparro-Suarez et al 2011 | tree cover | NO2 | Y | BACI | 4 | 1 | 2 | 1 | 0 | 6 |
| Cohen et al 2014 | tree cover | NOx | Y | Gradient | 3 | 0 | 0 | 3 | 0 | 3 |
| Grundström and Pleijel 2014 | urban trees | NO2 | Y | Before and After | 2 | 0 | 0 | 1 | 0 | 2 |
| Setala et al 2012 | tree canopy | NO2 | N | Impact Reference | 2 | 20 | 3 | 20 | 3 | 8 |
| Takahashi et al 2005 | trees | NO2 | Y | Before and After | 2 | 0 | 0 | 70 | 3 | 5 |
| Beckettt et al 2000 | trees | PM10, 2.5 | Y | Reference control | 2 | 5 | 3 | 5 | 3 | 8 |
| Cavanagh et al 2009 | urban forest | PM10 | Y | Gradient | 3 | 0 | 0 | 8 | 6 | 9 |
| Cohen et al 2014 | tree cover | PM10 | Y | Gradient | 3 | 0 | 0 | 3 | 0 | 3 |
| Dadvand et al 2015 | greenness | TrafficRelated AirPollution | Y | Gradient | 3 | 0 | 0 | 39 | 6 | 9 |
| Islam et al 2012 | crown density | TSP removal | Y | Gradient | 3 | 0 |  | 11 | 6 | 9 |
| Manes et al 2014 | urban trees | PM 10 | Y | Reference/Control | 2 | 1 | 2 | 1 | 0 | 4 |
| Mori et al 2015 | shrub species | Traffic Related | Y | Before and After | 2 | 0 | 0 | 6 | 3 | 5 |
| Air Pollution |
| Nguyen et al 2014 | urban forest | PM 2.5 | Y | Impact Reference | | 1 | 2 | 5 | 3 | 5 |
| Rasanen et al 2013 | coniferous vs broadleaf | PM | Y | Before and After | 2 | 4 | 3 | 4 | 3 | 8 |
| Sæbø et al 2012 | woody Species | PM 10, 2.5 | Y | Before and After | 2 | 0 | 0 | 2 | 1 | 3 |
| Setala et al 2012 | tree canopy | PM | N | Impact Reference | 2 | 20 | 3 | 20 | 3 | 8 |
| Speak et al 2012 | green roof | PM | Y | Impact Reference | 2 | 1 | 2 | 2 | 1 | 5 |
| Sternberg et al 2010 | green wall/Ivy | PM | Y | Impact Reference | 2 | 2 | 3 | 2 | 1 | 6 |
| Weber et al 2014 | herbaceous plants | PM | Y | Gradient | 3 | 0 | 0 | 3 | 0 | 3 |
| Choi et al 2012 | proximity to green space | urban Heat | Y | Gradient | 3 | 0 | 0 | 5 | 4 | 7 |
| **Green Space-Heat Hazard Mitigation** | Gromke et al 2015 | green space | Heat | Y | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Jenerette et al 2011 | NDVI | Surface Temperature | Y | Gradient | 3 | 0 | 0 | 5000 | 6 | 9 |
| Oliveira et al 2011 | green space | Surface Temperature | Y | Reference/Control | 2 | ? | ? | 1 | 0 |  |
| Shashua-Bar et al 2011 | trees,grass | Thermal Stress | Y | Reference/Control | 2 | 2 | 3 | 2 | 2 | 7 |
| Simmons et al 2008 | green roof | Surface Temperature | Y | Reference/Control | 2 | 6 | 3 | 18 | 3 | 8 |
| Vandertorren et al 2006 | green spaces | Heat | Y | Reference/Control | 2 | 257 | 3 | 257 | 3 | 8 |
| Dvorak et al 2013 | succulent roof tops | Temperature | Y | Reference/Control | 2 | 3 | 3 | 9 | 3 | 8 |
| Akbari et al 1997 | green space | Cooling Energy | Y | Before/After | 2 | 0 | 0 | 2 | 2 | 4 |
| Amson et al 2012 | grass and trees | Surface Temperature | Y | Reference/Control | 2 | 1 | 2 | 3 | 3 | 7 |
| Chang and Li 2014 | cool island parks | Temperature | Y | Gradient | 3 | 0 | 0 | 60 | 6 | 9 |
| Chen et al 2014 | cool island parks | Temperature | Y | Gradient | 3 | 0 | 0 | 1089 | 6 | 9 |
| Feyisa and Milby 2014 | NDVI and park area | Cooling | Y | Gradient | 3 | 0 | 0 | 21 | 6 | 9 |
| Kong et al 2014 | area of forest vegetation | urban Cool Island Intensity | Y | Gradient | 3 | 0 | 0 | 153 | 6 | 9 |
| Tan et al 2007 | Increased urban green space | Heat wave mortality | Y | Reference/Control | 2 | 1 | 2 | 1 | 0 | 3 |
| Vailshery et al 2013 | street trees | Temperature | Y | Reference/Control | 2 | 1 | 2 | 3 | 2 | 8 |
| Yang et al 2010 | percent greening | urban Heat Island | N | Gradient | 3 | 0 | 0 | 3 | 0 | 3 |
| Hou et al 2013 | distance to urban wetlands | Near Surface air temperature | Y | Gradient | 3 | 0 | 0 | 7 | 6 | 9 |
| Song et al 2013 | rooftop-wetlands | Temperature | Y | Reference/Control | 2 | 1 | 2 | 1 | 0 | 4 |
| Costanza et al 2008 | coastal wetlands | storm surge damage | Y | Gradient | 3 | 0 | 0 | 34 | 6 | 9 |
| **Greenspace-WaterHazard Mitigation** | Granek and Ruttenberg 2007 | mangrove | storm surge damage | Y | BACI | 4 | 7 | 3 | 7 | 3 | 10 |
| Krauss et al 2009 | coastal wetlands | water level | Y | Before and After | 2 | 0 | 0 | 4 | 3 | 5 |
| Moller et al 2016 | salt marshes | wave attenuation | Y | Reference-Control | 2 | 1 | 2 | 1 | 0 | 4 |
| Moller et al 1999 | salt marshes | wave energy | Y | Reference-Control | 2 | 1 | 2 | 1 | 0 | 4 |
| Quang 2011 | mangrove | wave height | Y | Gradient | 3 | 0 | 0 | 32 | 6 | 9 |
| Moller et al 2014 | marshes | storm surge | Y | BACI | 4 | 1 | 2 | 1 | 0 | 6 |
| Highfield and Broody 2006 | inland wetlands | floods | Y | Gradient | 3 | 0 | 0 | 67 | 6 | 9 |
| Broody etal 2012 | inland wetlands | floods | Y | Gradient | 3 | 0 | 0 | 144 | 6 | 9 |
| Broody et al 2008 | inland wetlands | flood damage | Y | Gradient | 3 | 0 | 0 | 423 | 6 | 9 |
| Carlton et al 2000 | inland wetlands | changes in flow | N | Reference-Impact | 2 | 3 | 3 | 33 | 3 | 8 |
| Broody and Highfield 2013 | open spaces | flood damages | Y | Gradient | 3 | 0 | 0 | 450 | 6 | 9 |
| Xiao and McPherson 2016 | trees | surface runoff | Y | Before and After | 2 | 0 | 0 | 20 | 3 | 5 |
| Lee et al 2013 | green spaces | surface runoff | Y | Before and After | 2 | 0 | 0 | 1 | 0 | 2 |
| Stovin 2009 | green spaces | surface runoff | Y | Before and After | 2 | 0 | 0 | 1 | 0 | 2 |
| Mentens et al 2006 | green roofs | surface runoff | N | Gradient | 3 | 0 | 0 | 18 | 6 | 9 |
| Simmons et al 2008 | green roos | surface runoff | Y | Before and After | 2 | 0 | 0 | 5 | 3 | 5 |
| VanWoert et al 2005 | green roofs | surface runoff | Y | BACI | 4 | 2 | 3 | 1 | 0 | 7 |
| Denardo 2005 | green roofs | surface runoff | Y | Before and After | 2 | 0 | 0 | 3 | 3 | 5 |
| Bliss et al 2008 | green spaces | surface runoff | Y | BACI | 4 | 1 | 2 | 1 | 0 | 6 |
|  |  |  |  |  |  |  |  |  |  |  |
| *EGS-Human Health* | |  |  |  |  |  |  |  |  |  |  |
| **Clean Water-GI Disease** | Araya et al 2004 | Copper | Gi symptoms | Y | Reference/Impact | 2 | 124 | 3 | 317 | 3 | 8 |
| Collier et al 2015 | waste water in beaches | GI disease | Y | Reference/Impact | 2 | 14539 | 3 | 39711 | 3 | 8 |
| Jagai 2014 | rainfall/combinedsewer-overflows/drinking water | GI disease | Y | Reference/Impact | 2 | 1 | 2 | 2 | 2 | 6 |
| Knobeloch et al 1994 | copper | GI upsets | Y | After impact only | 1 | 0 | 0 | 5 | 3 | 4 |
| Qasim et al 2014 | waterborne pathogens | GI disease | Y | Reference/Impact | 2 | 13 | 3 | 252 | 3 | 8 |
| Tyagi et al 2013 | fecal coliforms | Water Borne Infections | Y | After impact only | 1 | 0 | 0 | 1 | 0 | 1 |
| **WaterHazard Mitigation-GI Disease** | Wade et al 2004 | flood | GI disease | Y | Control/Reference | 2 | 1110 | 3 | 1110 | 3 | 8 |
| Reacher et al 2004 | flood | GI disease | Y | Reference/Control | 2 | 104 | 3 | 103 | 3 | 8 |
| Yusof et al 1991 | flood | GI disease | Y | After Impact | 1 | 0 | 0 | 46740 | 3 | 4 |
| De Man et al 2015 | flood | GI disease | Y | Reference/Control | 2 | 1 | 2 | 149 | 3 | 7 |
| Masakazu et al 2016 | flood | GI disease | Y | Gradient | 3 | 0 | 0 | 10 | 6 | 9 |
| Jagai 2014 | rainfall | GI disease | N | BACI | 4 | 1 | 3 | 1 | 0 | 7 |
| Hashimoto et al 2014 | flood depth | GI disease | Y | Before/After | 2 | 0 | 0 | 10 | 3 | 5 |
|  |  |  |  |  |  |  |  |  |  |  |
| **WaterHazard Mitigation-Respiratory Disease** | Dales et al 1991 | flood/dampness | bronchitis and cough | Y | Reference-Control | 2 | 10250 | 3 | 3238 | 3 | 8 |
| Lakovou et al 2015 | flood | asthma | Y | After impact | 1 | 0 | 0 | 1 | 0 | 1 |
| park et al 2013 | rainfall | asthma | N | Before/After | 2 | 0 | 0 | 16 | 3 | 5 |
| Reacher et al 2004 | flood | asthma exacerbations | Y | Reference-Control | 2 | 104 | 3 | 103 | 3 | 8 |
| **Clean Air-Respiratory Illness** | Adam et al 2015 | NO2, PM10 | Forced Expiatory Volume and Forced Vital Capacity | Y | Gradient | 3 | 0 | 0 | 5 | 4 | 7 |
| Adam et al 2015 | PM2.5 | Forced Expiatory Volume and Forced Vital Capacity | N | Gradient | 3 | 0 | 0 | 5 | 4 | 7 |
| Bayer-Oglesby et al 2005 | PM10 | Bronchitis, Chronic Cough, Common Cold | Y | Before-After | 2 | 0 | 0 | 10 | 3 | 5 |
| Bayer-Oglesby et al 2005 | PM10 | Asthma, Sneezing, Hay Fever | N | Before-After | 2 | 0 | 0 | 10 | 3 | 5 |
| Braun-Fahrländer et al 1997 | PM10, NO2, SO2 | Chronic Cough, Bronchitis, Night cough | Y | Gradient | 3 | 0 | 0 | 10 | 5 | 8 |
| Braun-Fahrländer et al 1997 | PM10, NO2, SO3 | Asthma, Allergies | N | Gradient | 3 | 0 | 0 | 10 | 5 | 8 |
| Burnett et al 1997 | Ozone | Respiratory Admissions | Y | Gradient | 3 | 0 | 0 | 16 | 5 | 8 |
| Delfino et al 2013 | PM2.5 Oxidative potential , NO2 | Asthma (fractional exhaled nitric oxide) | Y | Gradient | 3 | 0 | 0 | 45 | 5 | 8 |
| Delfino et al 2013 | PM2.5 Mass | Asthma (fractional exhaled nitric oxide) | N | Gradient | 3 | 0 | 0 | 45 | 5 | 8 |
| Dockery et al 1996 | Acid Aerosols | bronchitis, | Y | Gradient | 3 | 0 | 0 | 24 | 5 | 8 |
| Dockery et al 1996 | Acid Aerosols | Asthma, Chronic Coungh, chronic Phlegm | N | Gradient | 3 | 0 | 0 | 24 | 5 | 8 |
| Faustini et al 2013 | PM 10, 2.5, and NO2 | Respiratory hospitalizations | Y | Gradient | 3 | 0 | 0 | 6 | 5 | 8 |
| Gao et al 2014 | PM 10, 2.5, SO2, NO2, O3 | Wheezing Boys | Y | Impact-Reference | 2 | 1 | 2 | 1 | 0 | 4 |
| Gao et al 2014 | PM 10, 2.5, SO2, NO2, O3 | Wheezing Girls | N | Impact-Reference | 2 | 1 | 2 | 1 | 0 | 4 |
| Gao et al 2014 | PM 10, 2.5, SO2, NO2, O3 | Cough, Phlegm with Cold, Boys, Girls | Y | Impact-Reference | 2 | 1 | 2 | 1 | 0 | 4 |
| Gao et al 2014 | PM 10, 2.5, SO2, NO2, O3 | Allergies Boys and Girls | N | Impact-Reference | 2 | 1 | 2 | 1 | 0 | 4 |
| Gonzales-Barcala et al 2013 | proximity to Truck Traffic | Asthma in young Boys | Y | Gradient | 3 | 0 | 0 | >14K | 5 | 8 |
| Gonzales-Barcala et al 2013 | proximity to Truck Traffic | Asthma in Adolescent Boys and Girls | N | Gradient | 3 | 0 | 0 | >14K | 5 | 8 |
| Gorai et al 2014 | PM 2.5, SO2 | Asthma Admissions | Y | Gradient | 3 | 0 | 0 | 62 | 6 | 9 |
| Gorai et al 2014 | O3 | Asthma Admissions | N | Gradient | 3 | 0 | 0 | 62 | 6 | 9 |
| Goudarzi et al 2013 | O3 | COPD | Y | Before and After | 2 | 0 | 0 | 1 | 0 | 1 |
| Hasunuma et al 2014 | PM, Nox | Asthma | Y | Gradient | 3 | 0 | 0 | 28 | 6 | 9 |
| Hasunuma et al 2014 | PM, Nox | Allergic Rhinitis | N | Gradient | 3 | 0 | 0 | 28 | 6 | 9 |
| Jacquemin et al 2015 | PM, Nox | Asthma | N | Gradient | 3 | 0 | 0 | 24 | 6 | 9 |
| Kim et al 2015 | proximity to Trafic Roads | Airway Hyperresponsiveness | Y | Gradient | 3 | 0 | 0 | 4 | 2 | 5 |
| Liu et al 2013 | PM 10, 2.5 Nox | Allergic Rhinitis, Persistent Cough and Phlegm, Wheezing in Girls | Y | Gradient | 3 | 0 | 0 | 25 | 6 | 9 |
| Liu et al 2013 | PM 10, 2.5 Nox | Allergic Rhinitis, Persistent Cough and Phlegm, Wheezing in Boys | N | Gradient | 3 | 0 | 0 | 25 | 6 | 9 |
| Liu et al 2013 | Exposure to roads and indoor pollution | Respiratory symptoms | Y | Gradient | 3 | 0 | 0 | 6730 | 6 | 9 |
| Morales et al 2015 | prenatal NO2 exposure | lung function-preschool children | Y | Gradient | 3 | 0 | 0 | 620 | 6 | 9 |
| park et al 2013 | PM 10, NO2 | Asthmatic Hospital Admissions-Elderly | Y | Gradient | 3 | 0 | 0 | 7 | 6 | 9 |
| park et al 2013 | NO2 | Asthmatic Hospital Admissions-Adults and Children | N | Gradient | 3 | 0 | 0 | 7 | 6 | 9 |
| Ponka and Virtanen 1994 | NO2, SO2 | exacerbation of chronic bronchitis or emphysema-elderly | N | Gradient | 3 | 0 | 0 | 1096 | 6 | 9 |
| Ponka and Virtanen 1994 | NO2 | exacerbation of chronic bronchitis or emphysema-adults | Y | Gradient | 3 | 0 | 0 | 1096 | 6 | 9 |
| Ponka and Virtanen 1994 | SO2 | exacerbation of chronic bronchitis or emphysema-adults | Y | Gradient | 3 | 0 | 0 | 1096 | 6 | 9 |
| Prescott et al 1998 | Black Smoke, PM10, NO2 | Respiratory Mortality elderly | Y | Gradient | 3 | 0 | 0 | 33 | 6 | 9 |
| Prescott et al 1998 | SO2, CO, O3, Black smoke, NO2 | Respiratory Mortality elderly and adults | N | Gradient | 3 | 0 | 0 | 33 | 6 | 9 |
| Puett et al 2014 | PM10. 2.5 | Lung Cancer-Nurses health study | Y | Gradient | 3 | 0 | 0 | 72 | 6 | 9 |
| Segala et al 1998 | PM, SO2, NO2 | Prevalent and Incident Asthma, Respiratory infections all | Y | Gradient | 3 | 0 | 0 | 84 | 6 | 9 |
| Segala et al 1998 | PM, NO2 | Incident and Prevalent Wheeze Mild Asthmatics | N | Gradient | 3 | 0 | 0 | 43 | 6 | 9 |
| Segala et al 1998 | PM, NO2, SO2 | Incident and Prevalent Wheeze | Y | Gradient | 3 | 0 | 0 | 43 | 6 | 9 |
| Vandini et al 2013 | PM10 | RSV | Y | Gradient | 3 | 0 | 0 | 84 | 6 | 9 |
| Vandini et al 2013 | PM2.5 | RSV | N | Gradient | 3 | 0 | 0 | 84 | 6 | 9 |
| Walter et al 1994 | SO2 | Asthma in Spring and Summer | N | Gradient | 3 | 0 | 0 | >5 | 6 | 9 |
| Walter et al 1994 | SO2 | Asthma in Winter and Fall | Y | Gradient | 3 | 0 | 0 | >5 | 6 | 9 |
| Walter et al 1994 | Smoke | Respiratory All/All seasons | Y | Gradient | 3 | 0 | 0 | >5 | 6 | 9 |
| Wang et al 2013 | PM10, NO2, SO2 | Respiratory Admissions Low and Moderate Temperatures | Y | Gradient | 3 | 0 | 0 | >5 | 6 | 9 |
| Wang et al 2013 | PM10, SO2,NO2 | Respiratory Admissions Hot Temperatures | N | Gradient | 3 | 0 | 0 | >5 | 6 | 9 |
| Winquist et al 2014 | PM2.5, NO2, O3 warm season | Pediatric Asthma admissions | Y | Gradient | 3 | 0 | 0 | 1196 | 6 | 9 |
| Winquist et al 2014 | PM2.5, NO2, O3 cold season | Pediatric Asthma admissions | N | Gradient | 3 | 0 | 0 | 1148 | 6 | 9 |
| Yamazaki et al 2013 | PM2.5, O3, NO2 | Pediatric Asthma visits and Pediatric Hospital Admissions | N | Gradient | 3 | 0 | 0 | 124-243 | 6 | 9 |
| Yamazaki et al 2014 | O3 | Hospital admissions asthma | Y | Gradient | 3 | 0 | 0 | 210 | 6 | 9 |
| Zhou et al 2015 | PM10 | Respirstory mortality adults | N | Gradient | 3 | 0 | 0 | 32 | 6 | 9 |
| Zhou et al 2015 | PM10 | Respirstory mortality elderly | Y | Gradient | 3 | 0 | 0 | 32 | 6 | 9 |
| Pope etal 2002 | SO2, PM | Lung Cancer | Y | Gradient | 3 | 0 | 0 | 51 | 6 | 9 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Clean Air-CVD** | Babish et al 2014 | PM2.5 | Hypertension | Y | Gradient | 3 | 0 | 0 | 4166 | 3 | 9 |
| Bilenko et al 2015 | PM10,2.5, SO2 | Blood Pressure | N | Gradient | 3 | 0 | 0 | 1432 | 3 | 9 |
| Chang et al 2015 | PM2.5 | CVD admissions on cool days | Y | Gradient | 3 | 0 | 0 | >1500 | 3 | 9 |
| Chang et al 2015 | PM2.5 | CVD admissions on warm days | N | Gradient | 3 | 0 | 0 | >1501 | 3 | 9 |
| Chang et al 2013 | PM 2.5 | Myocardial infarction | Y | Gradient | 3 | 0 | 0 | >1500 | 3 | 9 |
| Dong et al 2013 | PM10, SO2 | CVD survey | N | Gradient | 3 | 0 | 0 | 24845 | 3 | 9 |
| forester et al 2014 | NO2 | Blood Pressure | Y | Reference-Control | 2 | 1222 | 3 | 704 | 3 | 8 |
| Fuks et al 2014 | Traffic load 100m from residence | Blood Pressure | Y | Gradient | 3 | 0 | 0 | 113000 | 6 | 9 |
| Hajat et al 2012 | NOx | Blood Clots (fibrinogen) | Y | Gradient | 3 | 0 | 0 | >2k | 3 | 9 |
| Hajat et al 2013 | NOx | Inflamation (CRP, IL6, E-selecting, SICam), Blood Clots (D-Dimer) | N | Gradient | 3 | 0 | 0 | >2k | 3 | 9 |
| Hajat et al 2015 | PM2.5 | Inflamation (CRP, IL6, E-selecting) and Blood Clots (fibrinogen) | Y | Gradient | 3 | 0 | 0 | >2k | 3 | 9 |
| Hajat et al 2015 | PM2.5 | Inflamation (SiCam) and Blood Clots (D-Dimer) | N | Gradient | 3 | 0 | 0 | >2k | 3 | 9 |
| Hajat et al 2015 | NO2 | Inflamation (CRP, IL6, E-selecting, SICam) and Blood Clots (fibrinogen) | N | Gradient | 3 | 0 | 0 | >2k | 3 | 9 |
| Hajat et al 2015 | NO2 | Blood Clots (D-dimer) | Y | Gradient | 3 | 0 | 0 | >2k | 3 | 9 |
| Henning et al 2014 | PM2.5, 10 | Inflamation (CRP)C.Reactive Protein | Y | Before-After | 2 | 0 | 0 | >4k | 3 | 5 |
| Kajbafzadeh et al 2015 | PM2.5 Traffic | Systemic inflamation:CVD morbidity | N | Reference-Control | 2 | 48 | 3 | 48 | 3 | 8 |
| Kajbafzadeh et al 2015 | PM2.5 WoodSmoke | Systemic inflamation:CVD morbidity | Y | Reference-Control | 2 | 20 | 3 | 20 | 3 | 8 |
| Kalsch et al 2014 | PM | Toracic Aortic Calcification (artherosclerosis indicator) | Y | Gradient | 3 | 0 | 0 | >4k | 6 | 9 |
| Link et al 2013 | PM 2.5 2 hr prior | Atrial Fibrilation | Y | Gradient | 3 | 0 | 0 | 4 | 2 | 5 |
| Liu et al 2014 | PM2.5, NO2 | Blood Pressure | N | Gradient | 3 | 0 | 0 | 2368 | 6 | 9 |
| Miller et al 2007 | PM 2.5 | Cardivascular Event | Y | Gradient | 3 | 0 | 0 | 36 | 6 | 9 |
| Nuvolone et al 2013 | O3 | acute coronary event | N | Gradient | 3 | 0 | 0 | >500 | 6 | 9 |
| Nuvolone et al 2014 | O3 | out of hospital coronary death | Y | Gradient | 3 | 0 | 0 | >501 | 6 | 9 |
| Poloniecki et al 1997 | O3 | acute myocardial infarction | N | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | Black Smoke, CO, SO2 | acute myocardial infarction | Y | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | Black Smoke, CO, SO2, O3 | Cardiac Arrhytmias | N | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | NO2 | Cardiac Arrhytmias | Y | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | CO | Angina Pectoris | Y | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | Black Smoke, SO2, O3, N02 | Angina Pectoris | N | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | Black Smoke, CO, SO2, NO2 | Combined Circulatory Diseases | Y | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1997 | O3 | Combined Circulatory Diseases | N | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Poloniecki et al 1998 | Black Smoke, CO, SO2, NO2, O3 | Heart Failure | N | Gradient | 3 | 0 | 0 | >2k | 6 | 9 |
| Prescott et al 1998 | PM10 >65 | cardio admissions | Y | Gradient | 3 | 0 | 0 | >36 | 6 | 9 |
| Prescott et al 1999 | PM10 <65 | cardio admissions | no | Gradient | 3 | 0 | 0 | >36 | 6 | 9 |
| Prescott et al 1999 | O3, Black Smoke, So2, NO2 all | cardio admissions | no | Gradient | 3 | 0 | 0 | >36 | 6 | 9 |
| Schwartz et al 1999 | CO and PM10 | cardio admissions medicare | Y | Gradient | 3 | 0 | 0 | >600 | 6 | 9 |
| Tonne and Wilkinson 2013 | PM 2.5 | cardiac mortality | Y | Gradient | 3 | 0 | 0 | >6 | 6 | 9 |
| Tonne and Wilkinson 2013 | PM 10, Nox | cardiac mortality | no | Gradient | 3 | 0 | 0 | >7 | 6 | 9 |
| Zhang et al 2014 | PM 10 | cardio mortality (especially IHD) | Y | Gradient | 3 | 0 | 0 | ~11 | 6 | 9 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Heat Hazard-Heat Morbidities** | Mamou et al 2013 | Heat | Sunburn, Dehydration, Heat Stroke | Y | BACI | 4 | 4 | 3 | 4 | 3 | 10 |
| Chan et al 2013 | Heat | Respiratory/Infectious disease in hot season | Y | Reference/Control | 2 | 1 | 2 | 1 | 0 | 4 |
| Guirguis et al 2014 | Heat | Hospital Admissions | Y | Before/After | 2 | 1 | 2 | 19 | 3 | 7 |
| Bishop et al 2015 | Heat | Hospital Admissions | Y | BACI | 4 | 6 | 3 | 3 | 3 | 10 |
| Nitschke et al 2011 | Heat | Hospital Admissions | Y | Reference-Control | 2 | 2 | 3 | 1 | 0 | 5 |
| Jones etal 1982 | 1980 Heat Wave | Heat Stroke | Y | Before/After | 2 | 2 | 3 | 2 | 2 | 7 |
| Knowlton et al 2008 | Heat Wave | Hospital Admissions | Y | Before/After | 2 | 0 | 0 | 6 | 3 | 5 |
| Semenza et al 1999 | Heat Wave | Dehydration, Heat Stroke, Heat Exhaustion | no | Before/After | 2 | 0 | 0 | 1 | 0 | 2 |
| Brunetti et al 2013 | Heat Wave | Telecardiology | Y | Reference/Control | 2 | 24 | 3 | 6 | 3 | 8 |
| Grolund et al 2014 | Heat Wave | Hospital Admissions Medicare | Y | Gradient | 3 | 0 | 0 | 114 | 6 | 9 |
| Hess et al 2014 | Temperature Anomalies | Emergency Department Visits | Y | Gradient | 3 | 0 | 0 | 5 | 4 | 7 |
| Jones et al 1982 | 1980 Heat Wave | Hospital Visits | Y | Before/After | 2 | 0 | 0 | 2 | 2 | 4 |
| kingsley etal 2016 | Teperature change | Hospital admissions | Y | Gradient | 3 | 0 | 0 | 1260 | 6 | 9 |
| Smith et al 2012 | Heat Wave | ED Visits | Y | Reference/Control | 2 | 3 | 3 | 1 | 0 | 5 |
| Stotz et al 2014 | Temperature Increase | Blood Pressure-Heart Rate | Y | Before/After | 2 | 0 | 0 | 26 | 3 | 5 |
| Tasian et al 2014 | Temperature | Kidney Stones | Y | Gradient | 3 | 0 | 0 | >2190 | 6 | 9 |
| Xu et al 2014 | Extreme Temperatures | Pediatric ED visits | Y | Gradient | 3 | 0 | 0 | >2190 | 6 | 9 |
| Zhang et al 2014 | Temperature | Cardiac-Senile Mice | Y | Reference/Control | 2 | 6 | 3 | 6 | 3 | 8 |
|  |  |  |  |  |  |  |  |  |  |  |
| *green space-Human Health* | |  |  |  |  |  |  |  |  |  |  |
| **Green Space-Respiratory Illness** | Donovan et al 2013 | green space | Mortality-Lower Respiratory Tract | Y | Gradient | 3 | 0 | 0 | 1296 | 6 | 9 |
| Lee et al 2014 | forest vs City Walking | Respiratory Risk-Pulmonary Function Decrease | Y | BACI | 4 | 19 | 3 | 43 | 3 | 10 |
| Lovasi et al 2013 | tree canopy cover | Asthma/Allergies | N | Gradient | 3 | 0 | 0 | 549 | 6 | 9 |
| Dadvand et al 2014 | proximity to parks | Asthma | N | Gradient | 3 | 0 | 0 | 3178 | 6 | 9 |
| Fuertes et al 2014 | Residential greenness | Allergies | N | Gradient | 3 | 0 | 0 | 2531 | 6 | 9 |
| Fuertes et al 2015 | Residential greenness | Allergies | Y | Gradient | 3 | 0 | 0 | 2007 | 6 | 9 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Green Space-Heat Morbidities** | Harlan et al 2013 | Vegetation | Heat Mortality | Y | Gradient | 3 | 0 | 0 | 2081 | 6 | 9 |
| Vandertorren et al 2006 | green space | Heat Mortality | Y | BACI | 4 | 262 | 3 | 315 | 3 | 8 |
| Burkart et al 2015 | NDVI | Heat Mortality | Y | Gradient | 3 | 0 | 0 | 203 | 6 | 9 |
| **Green Space-CVD** | Donovan et al 2013 | green space | CVD Mortality | Y | Gradient | 3 | 0 | 0 | 1296 | 6 | 9 |
| Donovan et al 2013 | green space | CV Disease | Y | Gradient | 3 | 0 | 0 | 534891 | 6 | 9 |
| Pereira et al 2012 | green space/NDVI | Coronary Heart Disease | Y | Gradient | 3 | 0 | 0 | 11404 | 6 | 9 |

**Full Bibliography by Category**

## Green Spaces-EGS

Alongi, D. M., Clough, B. F., Dixon, P., & Tirendi, F. (2003). Nutrient partitioning and storage in arid-zone forests of the mangroves Rhizophora stylosa and Avicennia marina. Trees, 17(1), 51-60. doi: 10.1007/s00468-002-0206-2

Amorim, J. H., Valente, J., Cascão, P., Rodrigues, V., Pimentel, C., Miranda, A. I., & Borrego, C. (2013). Pedestrian Exposure to Air Pollution in Cities: Modeling the Effect of Roadside Trees. Advances in Meteorology, 2013, 1-7. doi: 10.1155/2013/964904

Ayaz, S. Ç. (2008). Post-treatment and reuse of tertiary treated wastewater by constructed wetlands. Desalination, 226(1–3), 249-255. doi: http://dx.doi.org/10.1016/j.desal.2007.02.110

Baker, A. J. M. (1981). Accumulators and excluders ‐strategies in the response of plants to heavy metals. Journal of Plant Nutrition, 3(1-4), 643-654. doi: 10.1080/01904168109362867

Baker, D. B., Richards, R. P., Loftus, T. T., & Kramer, J. W. (2004). A new flashiness index: Characteristics and applications to midwestern rivers and streams1: Wiley Online Library.

Barbier, E. B., Georgiou, I. Y., Enchelmeyer, B., & Reed, D. J. (2013). The value of wetlands in protecting southeast Louisiana from hurricane storm surges. PloS one, 8(3), e58715.

Baró, F., Chaparro, L., Gómez-Baggethun, E., Langemeyer, J., Nowak, D. J., & Terradas, J. (2014). Contribution of Ecosystem Services to Air Quality and Climate Change Mitigation Policies: The Case of Urban Forests in Barcelona, Spain. Ambio, 43(4), 466-479. doi: 10.1007/s13280-014-0507-x

Baumgardner, D., Varela, S., Escobedo, F. J., Chacalo, A., & Ochoa, C. (2012). The role of a peri-urban forest on air quality improvement in the Mexico City megalopolis. Environmental Pollution, 163, 174-183.

Bealey, W., McDonald, A., Nemitz, E., Donovan, R., Dragosits, U., Duffy, T., & Fowler, D. (2007). Estimating the reduction of urban PM 10 concentrations by trees within an environmental information system for planners. J Environ Manage, 85(1), 44-58.

Beckett, K. P., Freer Smith, P., & Taylor, G. (2000). Effective tree species for local air quality management. Journal of arboriculture, 26(1), 12-19.

Beckett, K. P., Freer-Smith, P. H., & Taylor, G. (2000). THE CAPTURE OF PARTICULATE POLLUTION BY TREES AT FIVE CONTRASTING URBAN SITES. Arboricultural Journal, 24(2-3), 209-230. doi: 10.1080/03071375.2000.9747273

Berland, A., & Hopton, M. E. (2014). Comparing street tree assemblages and associated stormwater benefits among communities in metropolitan Cincinnati, Ohio, USA. Urban Forestry & Urban Greening, 13(4), 734-741. doi: http://dx.doi.org/10.1016/j.ufug.2014.06.004

Birch, G. F., Matthai, C., Fazeli, M. S., & Suh, J. (2004). EFFICIENCY OF A CONSTRUCTED WETLAND IN REMOVING CONTAMINANTS FROM STORMWATER. Wetlands, 24(2), 459-466. doi: 10.1672/0277-5212(2004)024[0459:EOACWI]2.0.CO;2

Birch, G., Fazeli, M., & Matthai, C. (2005). Efficiency of an infiltration basin in removing contaminants from urban stormwater. Environmental monitoring and assessment, 101(1-3), 23-38.

Bliss, D. J., Neufeld, R. D., & Ries, R. J. (2008). Storm Water Runoff Mitigation Using a Green Roof. Environmental Engineering Science, 26(2), 407-418. doi: 10.1089/ees.2007.0186

Bolund, P., & Hunhammar, S. (1999). Ecosystem services in urban areas. Ecological economics, 29(2), 293-301.

Brody, S. D., & Highfield, W. E. (2013). Open space protection and flood mitigation: A national study. Land Use Policy, 32, 89-95. doi: http://dx.doi.org/10.1016/j.landusepol.2012.10.017

Brody, S. D., Peacock, W. G., & Gunn, J. (2012). Ecological indicators of flood risk along the Gulf of Mexico. Ecological Indicators, 18, 493-500. doi: http://dx.doi.org/10.1016/j.ecolind.2012.01.004

Brody, S. D., Zahran, S., Highfield, W. E., Grover, H., & Vedlitz, A. (2008). Identifying the impact of the built environment on flood damage in Texas. Disasters, 32(1), 1-18. doi: 10.1111/j.1467-7717.2007.01024.x

Broody, H. a. (2006). Price of Permits: Measuring the Economic Impacts of Wetland Development on Flood Damages in Florida. Natural Hazards Review, 7(3), 123-130. doi: doi:10.1061/(ASCE)1527-6988(2006)7:3(123)

Burkart, K., Meier, F., Schneider, A., Breitner, S., Canário, P., Joao Alcoforado, M., ... & Endlicher, W. (2015). Modification of heat-related mortality in an elderly urban population by vegetation (Urban Green) and proximity to water (Urban Blue): Evidence from Lisbon, Portugal. Environ. Health Perspect.

Carinanos, P., Casares-Porcel, M., & Quesada-Rubio, J.-M. (2014). Estimating the allergenic potential of urban green spaces: A case-study in Granada, Spain. Landscape and Urban Planning, 123, 134-144.

Carleton, J. N., Grizzard, T. J., Godrej, A. N., Post, H. E., Lampe, L., & Kenel, P. P. (2000). Performance of a Constructed Wetlands in Treating Urban Stormwater Runoff. Water Environment Research, 72(3), 295-304. doi: 10.2175/106143000X137518

Casteel, M., Bartow, G., Taylor, S., & Sweetland, P. (2005). Removal of bacterial indicators of fecal contamination in urban stormwater using a natural riparian buffer. Paper presented at the International Conference on Urban Drainage.

Cavanagh, J.-A. E., Zawar-Reza, P., & Wilson, J. G. (2009). Spatial attenuation of ambient particulate matter air pollution within an urbanised native forest patch. Urban Forestry & Urban Greening, 8(1), 21-30. doi: http://dx.doi.org/10.1016/j.ufug.2008.10.002

Chaparro-Suarez, I. G., Meixner, F. X., & Kesselmeier, J. (2011). Nitrogen dioxide (NO2) uptake by vegetation controlled by atmospheric concentrations and plant stomatal aperture. Atmospheric Environment, 45(32), 5742-5750. doi: http://dx.doi.org/10.1016/j.atmosenv.2011.07.021

Cheng, S., Grosse, W., Karrenbrock, F., & Thoennessen, M. (2002). Efficiency of constructed wetlands in decontamination of water polluted by heavy metals. Ecological Engineering, 18(3), 317-325. doi: http://dx.doi.org/10.1016/S0925-8574(01)00091-X

Chiu, C.-Y., & Chou, C.-H. (1991). The distribution and influence of heavy metals in mangrove forests of the Tamshui Estuary in Taiwan. Soil Science and Plant Nutrition, 37(4), 659-669. doi: 10.1080/00380768.1991.10416934

Cohen, P., Potchter, O., & Schnell, I. (2014). The impact of an urban park on air pollution and noise levels in the Mediterranean city of Tel-Aviv, Israel. Environmental Pollution, 195, 73-83.

Coleman, J., Hench, K., Garbutt, K., Sexstone, A., Bissonnette, G., & Skousen, J. (2001). Treatment of Domestic Wastewater by Three Plant Species in Constructed Wetlands. Water, Air, and Soil Pollution, 128(3), 283-295. doi: 10.1023/a:1010336703606

Costanza, R., Pérez-Maqueo, O., Martinez, M. L., Sutton, P., Anderson, S. J., & Mulder, K. (2008). The Value of Coastal Wetlands for Hurricane Protection. AMBIO: A Journal of the Human Environment, 37(4), 241-248. doi: 10.1579/0044-7447(2008)37[241:TVOCWF]2.0.CO;2

Coyne, M., Gilfillen, R., Rhodes, R., & Blevins, R. (1995). Soil and fecal coliform trapping by grass filter strips during simulated rain. Journal of Soil and Water Conservation, 50(4), 405-408.

Currie, B. A., & Bass, B. (2008). Estimates of air pollution mitigation with green plants and green roofs using the UFORE model. Urban Ecosystems, 11(4), 409-422. doi: 10.1007/s11252-008-0054-y

Dadvand, P., Rivas, I., Basagaña, X., Alvarez-Pedrerol, M., Su, J., Pascual, M. D. C., . . . Sunyer, J. (2015). The association between greenness and traffic-related air pollution at schools. Science of The Total Environment, 523, 59-63.

Dallas, S., Scheffe, B., & Ho, G. (2004). Reedbeds for greywater treatment—case study in Santa Elena-Monteverde, Costa Rica, Central America. Ecological Engineering, 23(1), 55-61. doi: http://dx.doi.org/10.1016/j.ecoleng.2004.07.002

Davies, C., & Bavor, H. (2000). The fate of stormwater‐associated bacteria in constructed wetland and water pollution control pond systems. Journal of Applied Microbiology, 89(2), 349-360.

Davis, A. P. (2007). Field Performance of Bioretention: Water Quality. Environmental Engineering Science, 24(8), 1048-1064. doi: 10.1089/ees.2006.0190

Davis, A. P., Shokouhian, M., Sharma, H., Minami, C., & Winogradoff, D. (2003). Water quality improvement through bioretention: Lead, copper, and zinc removal. Water Environment Research, 73-82.

Defew, L. H., Mair, J. M., & Guzman, H. M. (2005). An assessment of metal contamination in mangrove sediments and leaves from Punta Mala Bay, Pacific Panama. Mar Pollut Bull, 50(5), 547-552. doi: 10.1016/j.marpolbul.2004.11.047

De Lacerda, L. D., & Abrao, J. J. (1984). Heavy metal accumulation by mangrove and saltmarsh intertidal sediments. Rvta. Brasil Bot, 7, 49-52..

DENARDO, J., JARRETT, A., MANBECK, H., BEATTIE, D., & BERGHAGE, R. (2005). Stormwater mitigation and surface temperature reduction by green roofs. Transactions of the ASAE, 48(4), 1491-1496.

Díaz, F. J., O’Geen, A. T., & Dahlgren, R. A. (2010). Efficacy of constructed wetlands for removal of bacterial contamination from agricultural return flows. Agricultural Water Management, 97(11), 1813-1821.

Dorsey, J. H., Carter, P. M., Bergquist, S., & Sagarin, R. (2010). Reduction of fecal indicator bacteria (FIB) in the Ballona Wetlands saltwater marsh (Los Angeles County, California, USA) with implications for restoration actions. Water Research, 44(15), 4630-4642. doi: http://dx.doi.org/10.1016/j.watres.2010.06.012

Dussaillant, A. R., Wu, C. H., & Potter, K. W. (2004). Richards equation model of a rain garden. Journal of Hydrologic Engineering, 9(3), 219-225.

Dzierżanowski, K., Popek, R., Gawrońska, H., Sæbø, A., & Gawroński, S. W. (2011). Deposition of Particulate Matter of Different Size Fractions on Leaf Surfaces and in Waxes of Urban Forest Species. International Journal of Phytoremediation, 13(10), 1037-1046. doi: 10.1080/15226514.2011.552929

Eger, P., & Lapakko, K. (1988). NICKEL AND COPPER REMOVAL FROM MINE DRAINAGE BY A NATURAL WETLAND. gas, 3, 7.

Entry, J. A., Hubbard, R. K., Thies, J. E., & Fuhrmann, J. J. (2000). The influence of vegetation in riparian filterstrips on coliform bacteria: II. Survival in soils. Journal of Environmental Quality, 29(4), 1215-1224.

Escobedo, F. J., & Nowak, D. J. (2009). Spatial heterogeneity and air pollution removal by an urban forest. Landscape and Urban Planning, 90(3–4), 102-110. doi: http://dx.doi.org/10.1016/j.landurbplan.2008.10.021

Gearheart, R. A. (1992). Use of Constructed Wetlands to Treat Domestic Wastewater, City of Arcata, California. Water Science and Technology, 26(7-8), 1625-1637.

Gerba, C. P., Thurston, J. A., Falabi, J. A., Watt, P. M., & Karpiscak, M. M. (1999). Optimization of artificial wetland design for removal of indicator microorganisms and pathogenic protozoa. Water Science and Technology, 40(4–5), 363-368. doi: http://dx.doi.org/10.1016/S0273-1223(99)00519-3

Granek, E. F., & Ruttenberg, B. I. (2007). Protective capacity of mangroves during tropical storms: a case study from ‘Wilma’and ‘Gamma’in Belize. MEPS, 343, 101-105.

Greenway, M. (2005). The role of constructed wetlands in secondary effluent treatment and water reuse in subtropical and arid Australia. Ecological Engineering, 25(5), 501-509. doi: http://dx.doi.org/10.1016/j.ecoleng.2005.07.008

Grundström, M., & Pleijel, H. (2014). Limited effect of urban tree vegetation on NO 2 and O 3 concentrations near a traffic route. Environmental Pollution, 189, 73-76.

Harlan, S. L., Declet-Barreto, J. H., Stefanov, W. L., & Petitti, D. B. (2013). Neighborhood effects on heat deaths: social and environmental predictors of vulnerability in Maricopa County, Arizona. Environmental Health Perspectives (Online), 121(2), 197.

Hill, A. C. (1971). Vegetation: A Sink for Atmospheric Pollutants. Journal of the Air Pollution Control Association, 21(6), 341-346. doi: 10.1080/00022470.1971.10469535

Hill, V. R., & Sobsey, M. D. (2001). Removal of Salmonella and microbial indicators in constructed wetlands treating swine wastewater. Water Sci Technol, 44(11-12), 215-222.

Hofman, J., Wuyts, K., Van Wittenberghe, S., Brackx, M., & Samson, R. (2014). On the link between biomagnetic monitoring and leaf-deposited dust load of urban trees: relationships and spatial variability of different particle size fractions. Environmental Pollution, 189, 63-72.

Hollis, G., & Thompson, J. (1993). Water resource developments and their hydrological impacts.

Islam, M. N., Rahman, K.-S., Bahar, M. M., Habib, M. A., Ando, K., & Hattori, N. (2012). Pollution attenuation by roadside greenbelt in and around urban areas. Urban Forestry & Urban Greening, 11(4), 460-464.

Jeong, Y., Sanders, B. F., McLaughlin, K., & Grant, S. B. (2008). Treatment of Dry Weather Urban Runoff in Tidal Saltwater Marshes: A Longitudinal Study of the Talbert Marsh in Southern California. Environmental Science & Technology, 42(10), 3609-3614. doi: 10.1021/es7026778

Jim, C. Y., & Chen, W. Y. (2008). Assessing the ecosystem service of air pollutant removal by urban trees in Guangzhou (China). J Environ Manage, 88(4), 665-676. doi: 10.1016/j.jenvman.2007.03.035

Johnston, C. A., Detenbeck, N. E., & Niemi, G. J. The cumulative effect of wetlands on stream water quality and quantity. A landscape approach. Biogeochemistry, 10(2), 105-141. doi: 10.1007/bf00002226

Johnston, K. K., Dorsey, J. H., & Saez, J. A. (2015). Stratification and loading of fecal indicator bacteria (FIB) in a tidally muted urban salt marsh. Environmental monitoring and assessment, 187(3), 58.

Kansiime, F., & van Bruggen, J. J. A. (2001). Distribution and retention of faecal coliforms in the Nakivubo wetland in Kampala, Uganda. Water Science and Technology, 44(11-12), 199-206.

Karathanasis, A. D., Potter, C. L., & Coyne, M. S. (2003). Vegetation effects on fecal bacteria, BOD, and suspended solid removal in constructed wetlands treating domestic wastewater. 20(2), 157-169. doi: 10.1016/S0925-8574(03)00011-9

Karim, M. R., Manshadi, F. D., Karpiscak, M. M., & Gerba, C. P. (2004). The persistence and removal of enteric pathogens in constructed wetlands. Water Research, 38(7), 1831-1837. doi: http://dx.doi.org/10.1016/j.watres.2003.12.029

Karpiscak, M. M., Gerba, C. P., Watt, P. M., Foster, K. E., & Falabi, J. A. (1996). Multi-species plant systems for wastewater quality improvements and habitat enhancement. Water Science and Technology, 33(10–11), 231-236. doi: http://dx.doi.org/10.1016/0273-1223(96)00424-6

Khambete, A. K., & Jagdish, S. N. (2010, 2-4 Nov. 2010). Role of Mangroves on domestic wastewater discharge: Case study at Jamnagar costal region, India. Paper presented at the 2010 2nd International Conference on Chemical, Biological and Environmental Engineering.

Khan, S., Ahmad, I., Shah, M. T., Rehman, S., & Khaliq, A. (2009). Use of constructed wetland for the removal of heavy metals from industrial wastewater. J Environ Manage, 90(11), 3451-3457. doi: http://dx.doi.org/10.1016/j.jenvman.2009.05.026

Knight, R. L., Payne Jr, V. W. E., Borer, R. E., Clarke Jr, R. A., & Pries, J. H. (2000). Constructed wetlands for livestock wastewater management. Ecological Engineering, 15(1–2), 41-55. doi: http://dx.doi.org/10.1016/S0925-8574(99)00034-8

Knox, A. K., Dahlgren, R. A., Tate, K. W., & Atwill, E. R. (2008). Efficacy of Natural Wetlands to Retain Nutrient, Sediment and Microbial Pollutants All rights reserved. No part of this periodical may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or any information storage and retrieval system, without permission in writing from the publisher. Journal of Environmental Quality, 37(5). doi: 10.2134/jeq2007.0067

Krauss, K. W., Doyle, T. W., Doyle, T. J., Swarzenski, C. M., From, A. S., Day, R. H., & Conner, W. H. (2009). Water level observations in mangrove swamps during two hurricanes in Florida. Wetlands, 29(1), 142-149. doi: 10.1672/07-232.1

Lau, S. S. S., & Chu, L. M. (2000). Nutrient and faecal contamination and retention in wetland enclosures (gei wais) in the Mai Po Marshes, Hong Kong. Hydrobiologia, 431(1), 81-92. doi: 10.1023/a:1004058523243

Lee, J. Y., Moon, H. J., Kim, T. I., Kim, H. W., & Han, M. Y. (2013). Quantitative analysis on the urban flood mitigation effect by the extensive green roof system. Environmental Pollution, 181, 257-261. doi: http://dx.doi.org/10.1016/j.envpol.2013.06.039

Li, H. a. A. D. (2009). Water Quality Improvement through Reductions of Pollutant Loads Using Bioretention. Journal of Environmental Engineering, 135(8), 567-576. doi: doi:10.1061/(ASCE)EE.1943-7870.0000026

Li, X., Zhou, W., & Ouyang, Z. (2013). Relationship between land surface temperature and spatial pattern of greenspace: What are the effects of spatial resolution?. Landscape and Urban Planning, 114, 1-8.

Lindau, C. W., & Hossner, L. R. (1982). Sediment Fractionation of Cu, Ni, Zn, Cr, Mn, and Fe in One Experimental and Three Natural Marshes1. Journal of Environmental Quality, 11, 540-545. doi: 10.2134/jeq1982.00472425001100030041x

Liu, H., Zhang, K., Li, Y., & Xie, L. (2013). Numerical study of the sensitivity of mangroves in reducing storm surge and flooding to hurricane characteristics in southern Florida. Continental Shelf Research, 64, 51-65. doi: http://dx.doi.org/10.1016/j.csr.2013.05.015

Machado, W., Silva-Filho, E., Oliveira, R., & Lacerda, L. (2002). Trace metal retention in mangrove ecosystems in Guanabara Bay, SE Brazil. Marine Pollution Bulletin, 44(11), 1277-1280.

MAHENGE, A. S. (2014). PERFORMANCE OF HORIZONTAL SURFACE FLOW CONSTRUCTED MANGROVES WETLAND IN FAECAL COLIFORM REMOVAL. Journal of Applied Phytotechnology in Environmental Sanitation, 30(2).

Mallin, M. A., Ensign, S. H., McIver, M. R., Shank, G. C., & Fowler, P. K. (2001). Demographic, landscape, and meteorological factors controlling the microbial pollution of coastal waters. Hydrobiologia, 460(1), 185-193. doi: 10.1023/a:1013169401211

Manes, F. S., V;Salvatori, E;Incerti, G;Galante, G;Fusaro, L;Perrino, C. (2014). URBAN ECOSYSTEM SERVICES: TREE DIVERSITY AND STABILITY OF PM10 REMOVAL IN THE METROPOLITAN AREA OF ROME. Annali di Botanica, 4, 19-26.

Mantovi, P., Marmiroli, M., Maestri, E., Tagliavini, S., Piccinini, S., & Marmiroli, N. (2003). Application of a horizontal subsurface flow constructed wetland on treatment of dairy parlor wastewater. Bioresource Technology, 88(2), 85-94. doi: http://dx.doi.org/10.1016/S0960-8524(02)00291-2

Martin, A., & Barber, F. R. (1971). Some measurements of loss of atmospheric sulphur dioxide near foliage. Atmospheric Environment (1967), 5(5), 345-352. doi: http://dx.doi.org/10.1016/0004-6981(71)90106-5

McAllister, L. S., Peniston, B. E., Leibowitz, S. G., Abbruzzese, B., & Hyman, J. B. (2000). A synoptic assessment for prioritizing wetland restoration efforts to optimize flood attenuation. Wetlands, 20(1), 70-83. doi: 10.1672/0277-5212(2000)020[0070:asafpw]2.0.co;2

McIvor, A., Möller, I., Spencer, T., & Spalding, M. (2012). Reduction of wind and swell waves by mangroves: The Nature Conservancy and Wetlands International.

McPherson, E. G., Simpson, J. R., Peper, P. J., & Xiao, Q. TITLE: BENEFIT-COST ANALYSIS OF MODESTO'S MUNICIPAL URBAN FOREST.

Mentens, J., Raes, D., & Hermy, M. (2006). Green roofs as a tool for solving the rainwater runoff problem in the urbanized 21st century? Landscape and Urban Planning, 77(3), 217-226.

Ming, J., Xian-Guo, L., Lin-Shu, X., Li-juan, C., & Shouzheng, T. (2007). Flood mitigation benefit of wetland soil—A case study in Momoge National Nature Reserve in China. Ecological economics, 61(2), 217-223.

Möller, I. (2006). Quantifying saltmarsh vegetation and its effect on wave height dissipation: Results from a UK East coast saltmarsh. Estuarine, Coastal and Shelf Science, 69(3–4), 337-351. doi: http://dx.doi.org/10.1016/j.ecss.2006.05.003

Moller, I., Kudella, M., Rupprecht, F., Spencer, T., Paul, M., van Wesenbeeck, B. K., . . . Schimmels, S. (2014). Wave attenuation over coastal salt marshes under storm surge conditions. Nature Geosci, 7(10), 727-731. doi: 10.1038/ngeo2251

Möller, I., Spencer, T., French, J. R., Leggett, D. J., & Dixon, M. (1999). Wave Transformation Over Salt Marshes: A Field and Numerical Modelling Study from North Norfolk, England. Estuarine, Coastal and Shelf Science, 49(3), 411-426. doi: http://dx.doi.org/10.1006/ecss.1999.0509

Mori, J., Sæbø, A., Hanslin, H. M., Teani, A., Ferrini, F., Fini, A., & Burchi, G. (2015). Deposition of traffic-related air pollutants on leaves of six evergreen shrub species during a Mediterranean summer season. Urban Forestry & Urban Greening, 14(2), 264-273. doi: http://dx.doi.org/10.1016/j.ufug.2015.02.008

Murray-Gulde, C. L., Bearr, J., & Rodgers, J. H. (2005). Evaluation of a constructed wetland treatment system specifically designed to decrease bioavailable copper in a wastestream. Ecotoxicology and Environmental Safety, 61(1), 60-73. doi: http://dx.doi.org/10.1016/j.ecoenv.2004.12.020

Myers, M. R., & Ambrose, R. F. (2015). Salt Marsh Reduces Fecal Indicator Bacteria Input to Coastal Waters in Southern California. Bulletin, Southern California Academy of Sciences, 114(2), 76-88. doi: 10.3160/0038-3872-114.2.76

NARAYAN, S., BECK, M. W., REGUERO, B. G., & INGRAM, J. C. (2015). REVIEWING THE EVIDENCE FOR RISK REDUCTION BY NATURAL COASTAL HABITATS WORLD-WIDE: WHEN AND WHERE THEY HAVE WORKED.

Nelson, E. A., Specht, W. L., & Knox, A. S. (2006). Metal Removal from Water Discharges by a Constructed Treatment Wetland. Engineering in Life Sciences, 6(1), 26-30. doi: 10.1002/elsc.200620112

Neralla, S., Weaver, R. W., Lesikar, B. J., & Persyn, R. A. (2000). Improvement of domestic wastewater quality by subsurface flow constructed wetlands. Bioresource Technology, 75(1), 19-25. doi: http://dx.doi.org/10.1016/S0960-8524(00)00039-0

Ngugi, F. (2015). Adsorption of heavy metals from aqueous solutions using mangroves from Kenyan coast. University of Nairobi.

Nguyen, T., Yu, X., Zhang, Z., Liu, M., & Liu, X. (2015). Relationship between types of urban forest and PM2.5 capture at three growth stages of leaves. Journal of Environmental Sciences, 27, 33-41. doi: http://dx.doi.org/10.1016/j.jes.2014.04.019

Noor, M. J., Sultana, S., Fatima, S., Ahmad, M., Zafar, M., Sarfraz, M., . . . Ashraf, M. A. (2014). Estimation of Anticipated Performance Index and Air Pollution Tolerance Index and of vegetation around the marble industrial areas of Potwar region: bioindicators of plant pollution response. Environmental Geochemistry and Health, 37(3), 441-455. doi: 10.1007/s10653-014-9657-9

Nowak, D. J. (1994). Air Pollution Removal by Chicago's Urban Forest. Chicago's Urban Forest Ecosystem: Results of the Chicago Urban Forest Climate Project, 63.

Nowak, D. J. (2002). The effects of urban trees on air quality. USDA Forest Service, 96-102.

Nowak, D. J., Crane, D. E., & Stevens, J. C. (2006). Air pollution removal by urban trees and shrubs in the United States. Urban Forestry & Urban Greening, 4(3–4), 115-123. doi: http://dx.doi.org/10.1016/j.ufug.2006.01.007

Nowak, D. J., Crane, D. E., Stevens, J. C., Hoehn, R. E., Walton, J. T., & Bond, J. (2008). A ground-based method of assessing urban forest structure and ecosystem services.

Nowak, D. J., Hirabayashi, S., Bodine, A., & Hoehn, R. (2013). Modeled PM2.5 removal by trees in ten U.S. cities and associated health effects. Environmental Pollution, 178(0), 395-402. doi: http://dx.doi.org/10.1016/j.envpol.2013.03.050

Ogawa, H., and James W. Male. (1986). Simulating the Flood Mitigation Role of Wetlands. Journal of Water Resources Planning and Management, 112(1), 114-128. doi: doi:10.1061/(ASCE)0733-9496(1986)112:1(114)

Ong Che, R. G. (1999). Concentration of 7 Heavy Metals in Sediments and Mangrove Root Samples from Mai Po, Hong Kong. Marine Pollution Bulletin, 39(1–12), 269-279. doi: http://dx.doi.org/10.1016/S0025-326X(99)00056-9

Paz-Alberto, A. M., Vizmonte, J. L. D., & Sigua, G. C. (2015). Volume-5, Issue-4, Oct-Dec-2015 Coden: IJPAJX-CAS-USA, Copyrights@ 2015 ISSN-2231-4490 Received: 12 th Aug-2015 Revised: 26 th Aug-2015 Accepted: 27 th Aug-2015 Research article ASSESSING DIVERSITY AND PHYTOREMEDIATION POTENTIAL OF MANGROVES FOR COPPER CONTAMINATED SEDIMENTS IN SUBIC BAY, PHILIPPINES.

Perkins, J., & Hunter, C. (2000). Removal of enteric bacteria in a surface flow constructed wetland in Yorkshire, England. Water Research, 34(6), 1941-1947. doi: http://dx.doi.org/10.1016/S0043-1354(99)00333-4

Popek, R., Gawrońska, H., Wrochna, M., Gawroński, S. W., & Sæbø, A. (2013). Particulate matter on foliage of 13 woody species: Deposition on surfaces and phytostabilisation in waxes–a 3-year study. International Journal of Phytoremediation, 15(3), 245-256.

Quang Bao, T. (2011). Effect of mangrove forest structures on wave attenuation in coastal Vietnam. Oceanologia, 53(3), 807-818. doi: http://dx.doi.org/10.5697/oc.53-3.807

Quiñónez-Dìaz, M. d. J., Karpiscak, M. M., Ellman, E. D., & Gerba, C. P. (2001). REMOVAL OF PATHOGENIC AND INDICATOR MICROORGANISMS BY A CONSTRUCTED WETLAND RECEIVING UNTREATED DOMESTIC WASTEWATER. Journal of Environmental Science and Health, Part A, 36(7), 1311-1320. doi: 10.1081/ESE-100104880

Räsänen, J. V., Holopainen, T., Joutsensaari, J., Ndam, C., Pasanen, P., Rinnan, Å., & Kivimäenpää, M. (2013). Effects of species-specific leaf characteristics and reduced water availability on fine particle capture efficiency of trees. Environmental Pollution, 183, 64-70.

Rea, C. L., Bisesi, M. S., Mitsch, W., Andridge, R., & Lee, J. (2015). Human Health-Related Ecosystem Services of Avian-Dense Coastal Wetlands Adjacent to a Western Lake Erie Swimming Beach. EcoHealth, 12(1), 77-87. doi: 10.1007/s10393-014-1007-y

Reinelt, L. E., & Horner, R. R. (1995). Pollutant removal from stormwater runoff by palustrine wetlands based on comprehensive budgets. Ecological Engineering, 4(2), 77-97. doi: http://dx.doi.org/10.1016/0925-8574(94)00002-M

Rogers, H. H., Jeffries, H. E., & Witherspoon, A. M. (1979). Measuring Air Pollutant Uptake by Plants: Nitrogen Dioxide1. Journal of Environmental Quality, 8(4). doi: 10.2134/jeq1979.00472425000800040022x

Sæbø, A., Popek, R., Nawrot, B., Hanslin, H. M., Gawronska, H., & Gawronski, S. W. (2012). Plant species differences in particulate matter accumulation on leaf surfaces. Science of The Total Environment, 427–428, 347-354. doi: http://dx.doi.org/10.1016/j.scitotenv.2012.03.084

Sanders, R. A. (1986). Special Issue Ecology of the Urban Forest IIUrban vegetation impacts on the hydrology of Dayton, Ohio. Urban Ecology, 9(3), 361-376. doi: http://dx.doi.org/10.1016/0304-4009(86)90009-4

Scholz, M., & Xu, J. (2002). Comparison of constructed reed beds with different filter media and macrophytes treating urban stream water contaminated with lead and copper. Ecological Engineering, 18(3), 385-390. doi: http://dx.doi.org/10.1016/S0925-8574(01)00100-8

Scholz, M., Höhn, P., & Minall, R. (2002). Mature Experimental Constructed Wetlands Treating Urban Water Receiving High Metal Loads. Biotechnology Progress, 18(6), 1257-1264. doi: 10.1021/bp0200503

Setälä, H., Viippola, V., Rantalainen, A.-L., Pennanen, A., & Yli-Pelkonen, V. (2013). Does urban vegetation mitigate air pollution in northern conditions? Environmental Pollution, 183, 104-112.

Shutes, R. B. E., Revitt, D. M., Scholes, L. N. L., Forshaw, M., & Winter, B. (2001). An experimental constructed wetland system for the treatment of highway runoff in the UK. Water Science and Technology, 44(11-12), 571-578.

Silva, C., Lacerda, L., & Rezende, C. (1990). Metals reservoir in a red mangrove forest. Biotropica, 22(4), 339-345.

Simmons, M. T., Gardiner, B., Windhager, S., & Tinsley, J. (2008). Green roofs are not created equal: the hydrologic and thermal performance of six different extensive green roofs and reflective and non-reflective roofs in a sub-tropical climate. Urban Ecosystems, 11(4), 339-348. doi: 10.1007/s11252-008-0069-4

Sleytr, K., Tietz, A., Langergraber, G., & Haberl, R. (2007). Investigation of bacterial removal during the filtration process in constructed wetlands. Science of The Total Environment, 380(1–3), 173-180. doi: http://dx.doi.org/10.1016/j.scitotenv.2007.03.001

Song, Z., Zheng, Z., Li, J., Sun, X., Han, X., Wang, W., & Xu, M. (2006). Seasonal and annual performance of a full-scale constructed wetland system for sewage treatment in China. Ecological Engineering, 26(3), 272-282. doi: http://dx.doi.org/10.1016/j.ecoleng.2005.10.008

Speak, A. F., Rothwell, J. J., Lindley, S. J., & Smith, C. L. (2012). Urban particulate pollution reduction by four species of green roof vegetation in a UK city. Atmospheric Environment, 61, 283-293. doi: http://dx.doi.org/10.1016/j.atmosenv.2012.07.043

Steer, D., Fraser, L., Boddy, J., & Seibert, B. (2002). Efficiency of small constructed wetlands for subsurface treatment of single-family domestic effluent. Ecological Engineering, 18(4), 429-440. doi: http://dx.doi.org/10.1016/S0925-8574(01)00104-5

Sternberg, T., Viles, H., Cathersides, A., & Edwards, M. (2010). Dust particulate absorption by ivy (Hedera helix L) on historic walls in urban environments. Science of The Total Environment, 409(1), 162-168. doi: http://dx.doi.org/10.1016/j.scitotenv.2010.09.022

Stovin, V. (2010). The potential of green roofs to manage Urban Stormwater. Water and Environment Journal, 24(3), 192-199. doi: 10.1111/j.1747-6593.2009.00174.x

Takahashi, M., Higaki, A., Nohno, M., Kamada, M., Okamura, Y., Matsui, K., . . . Morikawa, H. (2005). Differential assimilation of nitrogen dioxide by 70 taxa of roadside trees at an urban pollution level. Chemosphere, 61(5), 633-639. doi: <http://dx.doi.org/10.1016/j.chemosphere.2005.03.033>

Tallis, M., Taylor, G., Sinnett, D., & Freer-Smith, P. (2011). Estimating the removal of atmospheric particulate pollution by the urban tree canopy of London, under current and future environments. Landscape and Urban Planning, 103(2), 129-138.

Tam, N. F. Y., & Wong, Y. S. (1995). Mangrove soils as sinks for wastewater-borne pollutants. Hydrobiologia, 295(1), 231-241. doi: 10.1007/bf00029130

Tam, N. F. Y., & Wong, Y. S. (1996). Retention and distribution of heavy metals in mangrove soils receiving wastewater. Environmental Pollution, 94(3), 283-291. doi: <http://dx.doi.org/10.1016/S0269-7491(96)00115-7>

Thurston, J. A., Foster, K. E., Karpiscak, M. M., & Gerba, C. P. (2001). Fate of indicator microorganisms, giardia and cryptosporidium in subsurface flow constructed wetlands. Water Research, 35(6), 1547-1551. doi: <http://dx.doi.org/10.1016/S0043-1354(00)00414-0>

Trinh, D. H., & Chui, T. F. M. (2013). Assessing the hydrologic restoration of an urbanized area via an integrated distributed hydrological model. Hydrol. Earth Syst. Sci., 17(12), 4789-4801. doi: 10.5194/hess-17-4789-2013.

Vandentorren, S., Bretin, P., Zeghnoun, A., Mandereau-Bruno, L., Croisier, A., Cochet, C., ... & Ledrans, M. (2006). August 2003 heat wave in France: risk factors for death of elderly people living at home. The European Journal of Public Health, 16(6), 583-591.

VanWoert, N. D., Rowe, D. B., Andresen, J. A., Rugh, C. L., Fernandez, R. T., & Xiao, L. (2005). Green Roof Stormwater Retention This paper is a portion of a thesis submitted by N.D. VanWoert. Journal of Environmental Quality, 34(3). doi: 10.2134/jeq2004.0364

Vijayaraghavan, K., & Joshi, U. M. (2014). Can green roof act as a sink for contaminants? A methodological study to evaluate runoff quality from green roofs. Environmental Pollution, 194, 121-129. doi: <http://dx.doi.org/10.1016/j.envpol.2014.07.021>

Wamsley, T. V., Cialone, M. A., Smith, J. M., Atkinson, J. H., & Rosati, J. D. (2010). The potential of wetlands in reducing storm surge. Ocean Engineering, 37(1), 59-68. doi: http://dx.doi.org/10.1016/j.oceaneng.2009.07.018

Wania, A., Bruse, M., Blond, N., & Weber, C. (2012). Analysing the influence of different street vegetation on traffic-induced particle dispersion using microscale simulations. J Environ Manage, 94(1), 91-101.

Warhurst, J. R., Parks, K. E., McCulloch, L., & Hudson, M. D. (2014). Front gardens to car parks: Changes in garden permeability and effects on flood regulation. Science of The Total Environment, 485–486, 329-339. doi: http://dx.doi.org/10.1016/j.scitotenv.2014.03.035

Weber, F., Kowarik, I., & Säumel, I. (2014). Herbaceous plants as filters: Immobilization of particulates along urban street corridors. Environmental Pollution, 186, 234-240.

Wong, Y. S., Tam, N. F. Y., & Lan, C. Y. (1997). Mangrove wetlands as wastewater treatment facility: a field trial. Hydrobiologia, 352(1), 49-59. doi: 10.1023/a:1003040920173

Wu, Y., Chung, A., Tam, N. F. Y., Pi, N., & Wong, M. H. (2008). Constructed mangrove wetland as secondary treatment system for municipal wastewater. Ecological Engineering, 34(2), 137-146. doi: http://dx.doi.org/10.1016/j.ecoleng.2008.07.010

Xiao, Q., & McPherson, E. G. (2016). Surface Water Storage Capacity of Twenty Tree Species in Davis, California. Journal of Environmental Quality, 45, 188-198. doi: 10.2134/jeq2015.02.0092

Xiao, Q., & McPherson, E. G. Rainfall interception by Santa Monica's municipal urban forest. Urban Ecosystems, 6(4), 291-302. doi: 10.1023/b:ueco.0000004828.05143.67

Yang, J., Yu, Q., & Gong, P. (2008). Quantifying air pollution removal by green roofs in Chicago. Atmospheric Environment, 42(31), 7266-7273. doi: <http://dx.doi.org/10.1016/j.atmosenv.2008.07.003>

Yang, Q., Tam, N., Wong, Y. S., Luan, T., Su, W., Lan, C., . . . Cheung, S. G. (2008). Potential use of mangroves as constructed wetland for municipal sewage treatment in Futian, Shenzhen, China. Marine Pollution Bulletin, 57(6), 735-743.

Yao, L., Chen, L., Wei, W., & Sun, R. (2015). Potential reduction in urban runoff by green spaces in Beijing: A scenario analysis. Urban Forestry & Urban Greening, 14(2), 300-308. doi: http://dx.doi.org/10.1016/j.ufug.2015.02.014

Ye, Y., Tam, N. F. Y., & Wong, Y. S. (2001). Livestock Wastewater Treatment by a Mangrove Pot-cultivation System and the Effect of Salinity on the Nutrient Removal Efficiency. Marine Pollution Bulletin, 42(6), 512-520. doi: <http://dx.doi.org/10.1016/S0025-326X(00)00196-X>

Zhang, B., Xie, G., Zhang, C., & Zhang, J. (2012). The economic benefits of rainwater-runoff reduction by urban green spaces: A case study in Beijing, China. J Environ Manage, 100, 65-71. doi: <http://dx.doi.org/10.1016/j.jenvman.2012.01.015>

Zhang, K., Liu, H., Li, Y., Xu, H., Shen, J., Rhome, J., & Smith Iii, T. J. (2012). The role of mangroves in attenuating storm surges. Estuarine, Coastal and Shelf Science, 102–103, 11-23. doi: http://dx.doi.org/10.1016/j.ecss.2012.02.021

## EGS-Health

Adam, M., Schikowski, T., Carsin, A. E., Cai, Y., Jacquemin, B., Sanchez, M., . . . Probst-Hensch, N. (2015). Adult lung function and long-term air pollution exposure. ESCAPE: a multicentre cohort study and meta-analysis. European Respiratory Journal, 45(1), 38-50. doi: 10.1183/09031936.00130014

Aggarwal, P., & Jain, S. (2015). Impact of air pollutants from surface transport sources on human health: A modeling and epidemiological approach. Environment International, 83, 146-157.

Aggarwal, P., & Jain, S. (2015). Impact of air pollutants from surface transport sources on human health: A modeling and epidemiological approach. Environment International, 83, 146-157.

Araya, M., Olivares, M., Pizarro, F., Llanos, A., Figueroa, G., & Uauy, R. (2004). Community-Based Randomized Double-Blind Study of Gastrointestinal Effects and Copper Exposure in Drinking Water. Environmental Health Perspectives, 112(10), 1068-1073.

Babisch, W., Wolf, K., Petz, M., Heinrich, J., Cyrys, J., & Peters, A. (2014). Associations between traffic noise, particulate air pollution, hypertension, and isolated systolic hypertension in adults: the KORA study. Environmental Health Perspectives, 122(5), 492-498. doi: 10.1289/ehp.1306981

Bayer-Oglesby, L., Grize, L., Gassner, M., Takken-Sahli, K., Sennhauser, F. H., Neu, U., . . . nder, C. (2005). Decline of Ambient Air Pollution Levels and Improved Respiratory Health in Swiss Children. Environmental Health Perspectives, 113(11), 1632-1637.

Bilenko, N., Rossem, L. v., Brunekreef, B., Beelen, R., Eeftens, M., Hoek, G., . . . Gehring, U. (2015). Traffic-related air pollution and noise and children’s blood pressure: Results from the PIAMA birth cohort study. European Journal of Preventive Cardiology, 22(1), 4-12. doi: 10.1177/2047487313505821

Bishop-Williams, K. E., Berke, O., Pearl, D. L., & Kelton, D. F. (2015). A spatial analysis of heat stress related emergency room visits in rural Southern Ontario during heat waves. BMC Emergency Medicine, 15, 17. doi: 10.1186/s12873-015-0043-4

Braun-Fahrländer, C., Vuille, J. C., Sennhauser, F. H., Neu, U., Künzle, T., Grize, L., . . . Wüthrich, B. (1997). Respiratory health and long-term exposure to air pollutants in Swiss schoolchildren. SCARPOL Team. Swiss Study on Childhood Allergy and Respiratory Symptoms with Respect to Air Pollution, Climate and Pollen. American Journal of Respiratory and Critical Care Medicine, 155(3), 1042-1049. doi: 10.1164/ajrccm.155.3.9116984

Brunetti, N., Amoruso, D., De Gennaro, L., Dellegrottaglie, G., Di Giuseppe, G., Antonelli, G., & Di Biase, M. (2013). Hot Spot: impact of July 2011 heat-wave in southern Italy (Apulia) on cardiovascular disease assessed by Emergency Medical Service and tele-medicine support. European Heart Journal, 34(suppl 1), P2504.

Burnett, R. T., Brook, J. R., Yung, W. T., Dales, R. E., & Krewski, D. (1997). Association between Ozone and Hospitalization for Respiratory Diseases in 16 Canadian Cities. Environmental Research, 72(1), 24-31. doi: http://dx.doi.org/10.1006/enrs.1996.3685

Bush, K. F., O'Neill, M. S., Shi, L., Mukherjee, B., Hu, H., Ghosh, S., & Balakrishnan, K. (2014). Associations between extreme precipitation and gastrointestinal-related hospital admissions in Chennai, India. Environmental Health Perspectives (Online), 122(3), 249.

Chan, E. Y. Y., Goggins, W. B., Yue, J. S. K., & Lee, P. (2013). Hospital admissions as a function of temperature, other weather phenomena and pollution levels in an urban setting in China. Bulletin of the World Health Organization, 91(8), 576-584. doi: 10.2471/BLT.12.113035

Chang, C. C., Chen, P. S., & Yang, C. Y. (2015). Short-term effects of fine particulate air pollution on hospital admissions for cardiovascular diseases: a case-crossover study in a tropical city. Journal of toxicology and environmental health. Part A, 78(4), 267-277. doi: 10.1080/15287394.2014.960044

Chang, C.-C., Kuo, C.-C., Liou, S.-H., & Yang, C.-Y. (2013). Fine particulate air pollution and hospital admissions for myocardial infarction in a subtropical city: Taipei, Taiwan. Journal of toxicology and environmental health. Part A, 76(7), 440-448. doi: 10.1080/15287394.2013.771559

Charan, P., & Sahel, H. (2014). Study of Respirable Dust in Ambient Air of Bikaner City and Its Impact on Human Health.

Chiu, H.-F., Tsai, S.-S., Weng, H.-H., & Yang, C.-Y. (2013). Short-Term Effects of Fine Particulate Air Pollution on Emergency Room Visits for Cardiac Arrhythmias: A Case-Crossover Study in Taipei. Journal of Toxicology and Environmental Health, Part A, 76(10), 614-623. doi: 10.1080/15287394.2013.801763

Chuang, W.-C., & Gober, P. (2015). Predicting hospitalization for heat-related illness at the census-tract level: Accuracy of a generic heat vulnerability index in phoenix, Arizona (USA). Environmental Health Perspectives (Online), 123(6), 606.

Chung, Y., Dominici, F., Wang, Y., Coull, B. A., & Bell, M. L. (2015). Associations between long-term exposure to chemical constituents of fine particulate matter (PM2. 5) and mortality in Medicare enrollees in the eastern United States.

Collier, S. A., Wade, T. J., Sams, E. A., Hlavsa, M. C., Dufour, A. P., & Beach, M. J. (2015). Swimming in the USA: beachgoer characteristics and health outcomes at US marine and freshwater beaches. Journal of water and health, 13(2), 531-543.

Dales, R. E., Zwanenburg, H., Burnett, R., & Franklin, C. A. (1991). Respiratory Health Effects of Home Dampness and Molds among Canadian Children. American Journal of Epidemiology, 134(2), 196-203.

De Man, H., Mughini Gras, L., Schimmer, B., Friesema, I. H. M., De Roda Husman, A. M., & Van Pelt, W. (2015). Gastrointestinal, influenza-like illness and dermatological complaints following exposure to floodwater: a cross-sectional survey in The Netherlands. Epidemiology and infection, 1-10.

Delfino, R. J., Staimer, N., Tjoa, T., Gillen, D. L., Schauer, J. J., & Shafer, M. M. (2013). Airway inflammation and oxidative potential of air pollutant particles in a pediatric asthma panel. J Expos Sci Environ Epidemiol, 23(5), 466-473. doi: 10.1038/jes.2013.25

Di Novi, C. (2013). The indirect effect of fine particulate matter on health through individuals’ life-style. The Journal of Socio-Economics, 44, 27-36.

Dockery, D. W., Cunningham, J., Damokosh, A. I., Neas, L. M., Spengler, J. D., Koutrakis, P., . . . Speizer, F. E. (1996). Health Effects of Acid Aerosols on North American Children: Respiratory Symptoms. Environmental Health Perspectives, 104(5), 500-505. doi: 10.2307/3432990

Dong, G.-H., Qian, Z., Wang, J., Chen, W., Ma, W., Trevathan, E., . . . Ren, W.-H. (2013). Associations between ambient air pollution and prevalence of stroke and cardiovascular diseases in 33 Chinese communities. Atmospheric Environment, 77, 968-973. doi: http://dx.doi.org/10.1016/j.atmosenv.2013.06.034

Evans, J., van Donkelaar, A., Martin, R. V., Burnett, R., Rainham, D. G., Birkett, N. J., & Krewski, D. (2013). Estimates of global mortality attributable to particulate air pollution using satellite imagery. Environmental Research, 120, 33-42. doi: http://dx.doi.org/10.1016/j.envres.2012.08.005

Faustini, A., Stafoggia, M., Colais, P., Berti, G., Bisanti, L., Cadum, E., . . . Forastiere, F. (2013). Air pollution and multiple acute respiratory outcomes. European Respiratory Journal, 42(2), 304-313. doi: 10.1183/09031936.00128712

Foraster, M., Künzli, N., Aguilera, I., Rivera, M., Agis, D., Vila, J., . . . Ramos, R. (2014). High blood pressure and long-term exposure to indoor noise and air pollution from road traffic. Environmental Health Perspectives (Online), 122(11), 1193.

Fuks, K. B., Weinmayr, G., Foraster, M., Dratva, J., Hampel, R., Houthuijs, D., . . . Penell, J. (2014). Arterial blood pressure and long-term exposure to traffic-related air pollution: an analysis in the European Study of Cohorts for Air Pollution Effects (ESCAPE).

Gao, Y., Chan, E. Y., Li, L., Lau, P. W., & Wong, T. W. (2014). Chronic effects of ambient air pollution on respiratory morbidities among Chinese children: a cross-sectional study in Hong Kong. BMC Public Health, 14, 105. http://europepmc.org/abstract/MED/24484614

Gonzalez-Barcala, F. J., Pertega, S., Garnelo, L., Castro, T. P., Sampedro, M., Lastres, J. S., . . . Silvarrey, A. L. (2013). Truck traffic related air pollution associated with asthma symptoms in young boys: a cross-sectional study. Public Health, 127(3), 275-281. doi: http://dx.doi.org/10.1016/j.puhe.2012.12.028

Gorai, A. K., Tuluri, F., & Tchounwou, P. B. (2014). A GIS based approach for assessing the association between air pollution and asthma in New York State, USA. International journal of environmental research and public health, 11(5), 4845-4869. http://europepmc.org/abstract/MED/24806193

Goudarzi, G., Zallaghi, E., Neissi, A., Ankali, K. A., Saki, A., Babaei, A. A., . . . Mohammadi, M. J. (2013). Cardiopulmonary mortalities and chronic obstructive pulmonary disease attributed to ozone air pollution. Archives of Hygiene sciences, 2(2).

Gronlund, C. J., Zanobetti, A., Schwartz, J. D., Wellenius, G. A., & O’Neill, M. S. (2014). Heat, heat waves, and hospital admissions among the elderly in the United States, 1992–2006.

Guirguis, K., Gershunov, A., Tardy, A., & Basu, R. (2014). The impact of recent heat waves on human health in California. Journal of Applied Meteorology and Climatology, 53(1), 3-19.

Hajat, A., Allison, M., Diez-Roux, A. V., Jenny, N. S., Jorgensen, N. W., Szpiro, A. A., . . . Kaufman, J. D. (2015). Long-term Exposure to Air Pollution and Markers of Inflammation, Coagulation, and Endothelial Activation: A Repeat-measures Analysis in the Multi-Ethnic Study of Atherosclerosis (MESA). Epidemiology, 26(3), 310-320. doi: 10.1097/ede.0000000000000267

Hansen, A. L., Bi, P., Nitschke, M., Ryan, P., Pisaniello, D., & Tucker, G. (2008). The Effect of Heatwaves on Mental Health in a Temperate Australian City. Epidemiology, 19(6), S85. doi: 10.1097/01.ede.0000339795.05175.c2

Hashimoto, M., Suetsugi, T., Ichikawa, Y., Sunada, K., Nishida, K., Kondo, N., & Ishidaira, H. (2014). Assessing the relationship between inundation and diarrhoeal cases by flood simulations in low-income communities of Dhaka City, Bangladesh. Hydrological Research Letters, 8(3), 96-102. doi: 10.3178/hrl.8.96

Hasunuma, H., Ishimaru, Y., Yoda, Y., & Shima, M. (2014). Decline of ambient air pollution levels due to measures to control automobile emissions and effects on the prevalence of respiratory and allergic disorders among children in Japan. Environmental Research, 131, 111-118. doi: http://dx.doi.org/10.1016/j.envres.2014.03.007

Hennig, F., Fuks, K., Moebus, S., Weinmayr, G., Memmesheimer, M., Jakobs, H., . . . Erbel, R. (2014). Association between source-specific particulate matter air pollution and hs-CRP: local traffic and industrial emissions. Environmental Health Perspectives (Online), 122(7), 703.

Hess, J. J., Saha, S., & Luber, G. (2014). Summertime acute heat illness in US Emergency Departments from 2006 through 2010: analysis of a nationally representative sample. Environmental Health Perspectives (Online), 122(11), 1209.

Hou, P., Chen, Y., Qiao, W., Cao, G., Jiang, W., & Li, J. (2013). Near-surface air temperature retrieval from satellite images and influence by wetlands in urban region. Theoretical and applied climatology, 111(1-2), 109-118.

Hsieh, Y.-L., Tsai, S.-S., & Yang, C.-Y. (2013). Fine particulate air pollution and hospital admissions for congestive heart failure: a case-crossover study in Taipei. Inhalation Toxicology, 25(8), 455-460. doi: 10.3109/08958378.2013.804609

Jacquemin, B., Siroux, V., Sanchez, M., Carsin, A.-E., Schikowski, T., Adam, M., . . . Brunekreef, B. (2015). Ambient Air Pollution and Adult Asthma Incidence in Six European horts ESCAPE). Journal of Environmental Health Perspectives, 123(6), 613-621.

Jagai, J. (2014). Association between gastrointestinal illness and precipitation in areas impacted by combined sewer systems: utilizing a distributed lag model. Paper presented at the 142nd APHA Annual Meeting and Exposition (November 15-November 19, 2014).

Jagai, J. (2014). Association between gastrointestinal illness and precipitation in areas impacted by combined sewer systems: utilizing a distributed lag model. Paper presented at the 142nd APHA Annual Meeting and Exposition (November 15-November 19, 2014).

Jones, T. S., Liang, A. P., Kilbourne, E. M., Griffin, M. R., Patriarca, P. A., Wassilak, S. G., . . . Thacker, S. B. (1982). Morbidity and mortality associated with the July 1980 heat wave in St Louis and Kansas City, Mo. Jama, 247(24), 3327-3331.

Kajbafzadeh, M., Brauer, M., Karlen, B., Carlsten, C., van Eeden, S., & Allen, R. W. (2015). The impacts of traffic-related and woodsmoke particulate matter on measures of cardiovascular health: a HEPA filter intervention study. Occupational and Environmental Medicine, 72(6), 394-400. doi: 10.1136/oemed-2014-102696

Kälsch, H., Hennig, F., Moebus, S., Möhlenkamp, S., Dragano, N., Jakobs, H., . . . Heinz Nixdorf Recall Study Investigative, G. (2014). Are air pollution and traffic noise independently associated with atherosclerosis: the Heinz Nixdorf Recall Study. European Heart Journal, 35(13), 853-860. doi: 10.1093/eurheartj/eht426

Katukiza, A., Ronteltap, M., Steen, P., Foppen, J., & Lens, P. (2014). Quantification of microbial risks to human health caused by waterborne viruses and bacteria in an urban slum. Journal of Applied Microbiology, 116(2), 447-463.

Ketterer, C., & Matzarakis, A. (2014). Human-biometeorological assessment of heat stress reduction by replanning measures in Stuttgart, Germany. Landscape and Urban Planning, 122, 78-88.

Kim, B.-J., Lee, S.-Y., Kwon, J.-W., Jung, Y.-H., Lee, E., Yang, S. I., . . . Hong, S.-J. (2014). Traffic-related air pollution is associated with airway hyperresponsiveness. The Journal of allergy and clinical immunology, 133(6), 1763-1765.e1762. doi: 10.1016/j.jaci.2014.01.020

Kingsley, S., Eliot, M., Gold, J., Vanderslice, R., & Wellenius, G. (2016). Current and projected heat-related morbidity and mortality in Rhode Island. Environ Health Perspect, 124, 460-467.

Knobeloch, L., Ziarnik, M., Howard, J., Theis, B., Farmer, D., Anderson, H., & Proctor, M. (1994). Gastrointestinal upsets associated with ingestion of copper-contaminated water. Environmental Health Perspectives, 102(11), 958-961.

Knowlton, K., Rotkin-Ellman, M., King, G., Margolis, H. G., Smith, D., Solomon, G., . . . English, P. (2008). The 2006 California Heat Wave: Impacts on Hospitalizations and Emergency Department Visits. Epidemiology, 19(6), S323. doi: 10.1097/01.ede.0000340508.25106.ed

Lin, C. J., Wade, T. J., & Hilborn, E. D. Flooding and intestinal illness due to Clostridium difficile infection: a case-crossover analysis of Massachusetts data, 2003-2007.

Link, M. S., Luttmann-Gibson, H., Schwartz, J., Mittleman, M. A., Wessler, B., Gold, D. R., . . . Laden, F. (2013). Acute Exposure to Air Pollution Triggers Atrial Fibrillation. Journal of the American College of Cardiology, 62(9), 816-825. doi: http://dx.doi.org/10.1016/j.jacc.2013.05.043

Liu, C., Fuertes, E., Tiesler, C. M. T., Birk, M., Babisch, W., Bauer, C.-P., . . . Heinrich, J. (2014). The associations between traffic-related air pollution and noise with blood pressure in children: Results from the GINIplus and LISAplus studies. International Journal of Hygiene and Environmental Health, 217(4–5), 499-505. doi: http://dx.doi.org/10.1016/j.ijheh.2013.09.008

Liu, M.-M., Wang, D., Zhao, Y., Liu, Y.-Q., Huang, M.-M., Liu, Y., . . . Dong, G.-H. (2013). Effects of Outdoor and Indoor Air Pollution on Respiratory Health of Chinese Children from 50 Kindergartens. Journal of Epidemiology, 23(4), 280-287. doi: 10.2188/jea.JE20120175

Mamou, F., & Henderson, T. (2013). Analysis of Heat Illness using Michigan Emergency Department Syndromic Surveillance. Online Journal of Public Health Informatics, 5(1), e139.

Mauderly, J. L., Barrett, E. G., Day, K. C., Gigliotti, A. P., McDonald, J. D., Harrod, K. S., . . . Seilkop, S. K. (2014). The National Environmental Respiratory Center (NERC) experiment in multi-pollutant air quality health research: II. Comparison of responses to diesel and gasoline engine exhausts, hardwood smoke and simulated downwind coal emissions. Inhalation Toxicology, 26(11), 651-667. doi: 10.3109/08958378.2014.925523

Miller , K. A., Siscovick , D. S., Sheppard , L., Shepherd , K., Sullivan , J. H., Anderson , G. L., & Kaufman , J. D. (2007). Long-Term Exposure to Air Pollution and Incidence of Cardiovascular Events in Women. New England Journal of Medicine, 356(5), 447-458. doi: doi:10.1056/NEJMoa054409

Mina, M., Annamaria, I., & Gita, L. (2015). A Case of Severe Asthma With Fungal Sensitization (SAFS) due to Aureobasidium Pullulans Following Hurricane Sandy D32. INTERESTING CASES IN ALLERGY AND IMMUNOLOGY (pp. A5644-A5644): American Thoracic Society.

Mohammadi, M. J., Godini, H., Tobeh Khak, M., Daryanoosh, S. M., Dobaradaran, S., & Goudarzi, G. (2015). An Association Between Air Quality and COPD in Ahvaz, Iran. Jundishapur J Chronic Dis Care, 4(1), e26621. doi: 10.5812/jjcdc.26621

Mohsin, M., Safdar, S., Asghar, F., & Jamal, F. (2013). Assessment of drinking water quality and its impact on residents health in Bahawalpur city. International Journal of Humanities and Social Science, 3(15), 114-128.

Monteiro, A., Carvalho, V., Oliveira, T., & Sousa, C. (2013). Excess mortality and morbidity during the July 2006 heat wave in Porto, Portugal. Int J Biometeorol, 57(1), 155-167. doi: 10.1007/s00484-012-0543-9

Morales, E., Garcia-Esteban, R., Asensio de la Cruz, O., Basterrechea, M., Lertxundi, A., Martinez López de Dicastillo, M. D., . . . Sunyer, J. (2015). Intrauterine and early postnatal exposure to outdoor air pollution and lung function at preschool age. Thorax, 70(1), 64-73. doi: 10.1136/thoraxjnl-2014-205413

Nuvolone, D., Balzi, D., Pepe, P., Chini, M., Scala, D., Giovannini, F., . . . Barchielli, A. (2013). Ozone short-term exposure and acute coronary events: A multicities study in Tuscany (Italy). Environmental Research, 126, 17-23.

Ostro, B. (1994). Estimating health effects of air pollution: A methodology with an application to Jakarta. Policy Research Working Paper, 1301, 32-54.

Ostro, B. D. (1990). Associations between morbidity and alternative measures of particulate matter. Risk Anal, 10(3), 421-427.

Park, K. J., Moon, J. Y., Ha, J. S., Kim, S. D., Pyun, B. Y., Min, T. K., & Park, Y. H. (2013). Impacts of Heavy Rain and Typhoon on Allergic Disease. Osong Public Health and Research Perspectives, 4(3), 140-145. doi: http://dx.doi.org/10.1016/j.phrp.2013.04.009

Park, M., Luo, S., Kwon, J., Stock, T. H., Delclos, G., Kim, H., & Yun-Chul, H. (2013). Effects of air pollution on asthma hospitalization rates in different age groups in metropolitan cities of Korea. Air Quality, Atmosphere & Health, 6(3), 543-551. doi: 10.1007/s11869-013-0195-x

Pillai, S. K., Noe, R. S., Murphy, M. W., Vaidyanathan, A., Young, R., Kieszak, S., . . . Wolkin, A. F. (2014). Heat illness: predictors of hospital admissions among emergency department visits-Georgia, 2002-2008. J Community Health, 39(1), 90-98. doi: 10.1007/s10900-013-9743-4

Pirani, M., Best, N., Blangiardo, M., Liverani, S., Atkinson, R. W., & Fuller, G. W. (2015). Analysing the health effects of simultaneous exposure to physical and chemical properties of airborne particles. Environment International, 79, 56-64.

Poloniecki, J. D., Atkinson, R. W., de Leon, A. P., & Anderson, H. R. (1997). Daily time series for cardiovascular hospital admissions and previous day's air pollution in London, UK. Occupational and Environmental Medicine, 54(8), 535-540.

Pönkä, A., & Virtanen, M. (1994). Chronic bronchitis, emphysema, and low-level air pollution in Helsinki, 1987-1989. Environmental Research, 65(2), 207-217. doi: 10.1006/enrs.1994.1032

Prescott, G. J., Cohen, G. R., Elton, R. A., Fowkes, F. G., & Agius, R. M. (1998). Urban air pollution and cardiopulmonary ill health: a 14.5 year time series study. Occupational and Environmental Medicine, 55(10), 697-704. doi: 10.1136/oem.55.10.697

Prescott, G. J., Cohen, G. R., Elton, R. A., Fowkes, F. G., & Agius, R. M. (1998). Urban air pollution and cardiopulmonary ill health: a 14.5 year time series study. Occupational and Environmental Medicine, 55(10), 697-704. doi: 10.1136/oem.55.10.697

Prevost, B., Lucas, F. S., Goncalves, A., Richard, F., Moulin, L., & Wurtzer, S. (2015). Large scale survey of enteric viruses in river and waste water underlines the health status of the local population. Environment International, 79, 42-50. doi: http://dx.doi.org/10.1016/j.envint.2015.03.004

Puett, R. C., Hart, J. E., Yanosky, J. D., Spiegelman, D., Wang, M., Fisher, J. A., . . . Laden, F. (2014). Particulate matter air pollution exposure, distance to road, and incident lung cancer in the nurses' health study cohort. Environmental Health Perspectives (Online), 122(9), 926.

Qasim, M., Anees, M. M., & Bashir, A. (2014). Unhygienic water is the cause of water borne disease among villagers: A case of Gujrat-Pakistan. World Applied Sciences Journal, 29(12), 1484-1491.

Reacher, M., McKenzie, K., Lane, C., Nichols, T., Kedge, I., Iversen, A., . . . Lewes Flood Action Recovery, T. (2004). Health impacts of flooding in Lewes: a comparison of reported gastrointestinal and other illness and mental health in flooded and non-flooded households. Communicable disease and public health / PHLS, 7(1), 39-46.

Reacher, M., McKenzie, K., Lane, C., Nichols, T., Kedge, I., Iversen, A., . . . Lewes Flood Action Recovery, T. (2004). Health impacts of flooding in Lewes: a comparison of reported gastrointestinal and other illness and mental health in flooded and non-flooded households. Communicable disease and public health / PHLS, 7(1), 39-46.

Schwartz, J. (1999). Air Pollution and Hospital Admissions for Heart Disease in Eight U.S. Counties. Epidemiology, 10(1), 17-22.

Segala, C., Fauroux, B., Just, J., Pascual, L., Grimfeld, A., & Neukirch, F. (1998). Short-term effect of winter air pollution on respiratory health of asthmatic children in Paris. European Respiratory Journal, 11(3), 677-685.

Semenza, J. C., McCullough, J. E., Flanders, W. D., McGeehin, M. A., & Lumpkin, J. R. (1999). Excess hospital admissions during the July 1995 heat wave in Chicago. American Journal of Preventive Medicine, 16(4), 269-277. doi: http://dx.doi.org/10.1016/S0749-3797(99)00025-2

Siddique, A. K., Baqui, A. H., Eusof, A., & Zaman, K. (1991). 1988 floods in Bangladesh: pattern of illness and causes of death. J Diarrhoeal Dis Res, 9(4), 310-314.

Smith, S., Elliot, A. J., Hajat, S., Bone, A., Smith, G. E., & Kovats, S. (2016). Estimating the burden of heat illness in England during the 2013 summer heatwave using syndromic surveillance. Journal of epidemiology and community health, jech-2015-206079.

Soller, J., Bartrand, T., Ravenscroft, J., Molina, M., Whelan, G., Schoen, M., & Ashbolt, N. (2015). Estimated human health risks from recreational exposures to stormwater runoff containing animal faecal material. Environmental Modelling & Software, 72, 21-32. doi: http://dx.doi.org/10.1016/j.envsoft.2015.05.018

Stotz, A., Rapp, K., Oksa, J., Skelton, D. A., Beyer, N., Klenk, J., . . . Lindemann, U. (2014). Effect of a brief heat exposure on blood pressure and physical performance of older women living in the community—a pilot-study. International journal of environmental research and public health, 11(12), 12623-12631.

Tasian, G. E., Pulido, J. E., Gasparrini, A., Saigal, C. S., Horton, B. P., Landis, J. R., . . . Project, U. D. i. A. (2014). Daily mean temperature and clinical kidney stone presentation in five US metropolitan areas: a time-series analysis. Environmental Health Perspectives, 122(10), 1081.

Tonne, C., & Wilkinson, P. (2013). Long-term exposure to air pollution is associated with survival following acute coronary syndrome. European Heart Journal, 34(17), 1306-1311. doi: 10.1093/eurheartj/ehs480

Tyagi, V. K., Bhatia, A., Gaur, R. Z., Khan, A. A., Ali, M., Khursheed, A., . . . Lo, S.-L. (2013). Impairment in water quality of Ganges River and consequential health risks on account of mass ritualistic bathing. Desalination and Water Treatment, 51(10-12), 2121-2129. doi: 10.1080/19443994.2013.734677

Vailshery, L. S., Jaganmohan, M., & Nagendra, H. (2013). Effect of street trees on microclimate and air pollution in a tropical city. Urban forestry & urban greening, 12(3), 408-415.

Vandini, S., Corvaglia, L., Alessandroni, R., Aquilano, G., Marsico, C., Spinelli, M., . . . Faldella, G. (2013). Respiratory syncytial virus infection in infants and correlation with meteorological factors and air pollutants. Italian Journal of Pediatrics, 39, 1-1. doi: 10.1186/1824-7288-39-1

Vedal, S., Campen, M. J., McDonald, J. D., Larson, T. V., Sampson, P. D., Sheppard, L., . . . Szpiro, A. A. (2013). National Particle Component Toxicity (NPACT) initiative report on cardiovascular effects. Research report (Health Effects Institute)(178), 5-8.

von Clemm, E. M. (2014). Environmental Drivers of Diarrheal Disease Risk in Ho Chi Minh City, Vietnam.

Wade, T. J., Sandhu, S. K., Levy, D., Lee, S., LeChevallier, M. W., Katz, L., & Colford, J. M. (2004). Did a Severe Flood in the Midwest Cause an Increase in the Incidence of Gastrointestinal Symptoms? American Journal of Epidemiology, 159(4), 398-405. doi: 10.1093/aje/kwh050

Walters, S., Griffiths, R. K., & Ayres, J. G. (1994). Temporal association between hospital admissions for asthma in Birmingham and ambient levels of sulphur dioxide and smoke. Thorax, 49(2), 133-140. doi: 10.1136/thx.49.2.133

Wang, M. Z., Zheng, S., Wang, S. G., Tao, Y., & Shang, K. Z. (2013). The weather temperature and air pollution interaction and its effect on hospital admissions due to respiratory system diseases in western China. Biomedical and environmental sciences : BES, 26(5), 403-407. doi: 10.3967/0895-3988.2013.05.011

Wang, T.-N., Ko, Y.-C., Chao, Y.-Y., Huang, C.-C., & Lin, R.-S. (1999). Association between Indoor and Outdoor Air Pollution and Adolescent Asthma from 1995 to 1996 in Taiwan. Environmental Research, 81(3), 239-247. doi: http://dx.doi.org/10.1006/enrs.1999.3985

Winquist, A., Kirrane, E., Klein, M., Strickland, M., Darrow, L. A., Sarnat, S. E., . . . Tolbert, P. (2014). Joint Effects of Ambient Air Pollutants on Pediatric Asthma Emergency Department Visits in Atlanta, 1998–2004. Epidemiology, 25(5), 666-673. doi: 10.1097/ede.0000000000000146

Xiaoxue, Z., Yajuan, Z., & Xiaochuan, P. (2013). Study on Relationship of Incidence of Gastrointestinal Disorders with Drinking Water Quality and Personal Hygienic Habit in Part Rural Residents of Beijing. Journal of Environmental Hygiene, 3, 007.

Xu, Z., Hu, W., Su, H., Turner, L. R., Ye, X., Wang, J., & Tong, S. (2014). Extreme temperatures and paediatric emergency department admissions. Journal of epidemiology and community health, 68(4), 304-311.

Yamazaki, S., Shima, M., Yoda, Y., Oka, K., Kurosaka, F., Shimizu, S., . . . Yamamoto, N. (2013). Association of ambient air pollution and meteorological factors with primary care visits at night due to asthma attack. Environmental Health and Preventive Medicine, 18(5), 401-406. doi: 10.1007/s12199-013-0339-5

Yamazaki, S., Shima, M., Yoda, Y., Oka, K., Kurosaka, F., Shimizu, S., . . . Yamamoto, N. (2014). Association between PM2.5 and primary care visits due to asthma attack in Japan: relation to Beijing's air pollution episode in January 2013. Environmental Health and Preventive Medicine, 19(2), 172-176. doi: 10.1007/s12199-013-0371-5

Zahran, H. S., & Bailey, C. (2013). Factors Associated with Asthma Prevalence among Racial and Ethnic Groups—United States, 2009–2010 Behavioral Risk Factor Surveillance System. Journal of Asthma, 50(6), 583-589. doi: 10.3109/02770903.2013.794238

Zhang, L.-w., Chen, X., Xue, X.-d., Sun, M., Han, B., Li, C.-p., . . . Tang, N.-j. (2014). Long-term exposure to high particulate matter pollution and cardiovascular mortality: A 12-year cohort study in four cities in northern China. Environment International, 62, 41-47. doi: <http://dx.doi.org/10.1016/j.envint.2013.09.012>

Zhang, X., Lu, J., Zhang, S., Wang, C., Wang, B., Guo, P., & Dong, L. (2014). Effects of simulated heat waves on cardiovascular functions in senile mice. International journal of environmental research and public health, 11(8), 7841-7855.

Zhang, Y., Nitschke, M., & Bi, P. (2013). Risk factors for direct heat-related hospitalization during the 2009 Adelaide heatwave: A case crossover study. Science of The Total Environment, 442, 1-5. doi: <http://dx.doi.org/10.1016/j.scitotenv.2012.10.042>

Zhou, M., He, G., Liu, Y., Yin, P., Li, Y., Kan, H., . . . Fan, M. (2015). The associations between ambient air pollution and adult respiratory mortality in 32 major Chinese cities, 2006–2010. Environmental Research, 137, 278-286. doi: <http://dx.doi.org/10.1016/j.envres.2014.12.016>

## Eco-Health-Direct

Barrett, M. A. M., Daphne;Frumkin, Howard. (2014). Parks and Health: Aligning Incentives to Create Innovations in Chronic Disease Prevention. Preventing Chronic Disease, 11, E63. doi: 10.5888/pcd11.130407

Beale, L., Hodgson, S., Abellan, J. J., Lefevre, S., & Jarup, L. (2010). Evaluation of spatial relationships between health and the environment: the rapid inquiry facility. Environ Health Perspect, 118(9), 1306-1312. doi: 10.1289/ehp.0901849

Beil, K., & Hanes, D. (2013). The Influence of Urban Natural and Built Environments on Physiological and Psychological Measures of Stress— A Pilot Study. International journal of environmental research and public health, 10(4), 1250-1267.

Coutts, C., Horner, M., & Chapin, T. (2010). Using geographical information system to model the effects of green space accessibility on mortality in Florida. Geocarto International, 25(6), 471-484. doi: 10.1080/10106049.2010.505302

de Vries, S., van Dillen, S. M. E., Groenewegen, P. P., & Spreeuwenberg, P. (2013). Streetscape greenery and health: Stress, social cohesion and physical activity as mediators. Social Science & Medicine, 94, 26-33. doi: http://dx.doi.org/10.1016/j.socscimed.2013.06.030

Donovan, G. H., Michael, Y. L., Gatziolis, D., Prestemon, J. P., & Whitsel, E. A. (2015). Is tree loss associated with cardiovascular-disease risk in the Women's Health Initiative? A natural experiment. Health & Place, 36, 1-7. doi: http://dx.doi.org/10.1016/j.healthplace.2015.08.007

Harlan, S. L., Declet-Barreto, J. H., Stefanov, W. L., & Petitti, D. B. (2013). Neighborhood Effects on Heat Deaths: Social and Environmental Predictors of Vulnerability in Maricopa County, Arizona. Environmental Health Perspectives, 121(2), 197-204. doi: 10.1289/ehp.1104625

Jenerette, G. D., Harlan, S. L., Stefanov, W. L., & Martin, C. A. (2011). Ecosystem services and urban heat riskscape moderation: water, green spaces, and social inequality in Phoenix, USA. Ecological Applications, 21(7), 2637-2651. doi: 10.1890/10-1493.1

Johnson, K. B., Jacob, A., & Brown, M. E. (2013). Forest cover associated with improved child health and nutrition: evidence from the Malawi Demographic and Health Survey and satellite data. Global Health: Science and Practice, 1(2), 237-248. doi: 10.9745/ghsp-d-13-00055

Laurent, O., Wu, J., Li, L., & Milesi, C. (2013). Green spaces and pregnancy outcomes in Southern California. Health & Place, 24(0), 190-195. doi: http://dx.doi.org/10.1016/j.healthplace.2013.09.016

Lee, J.-Y., & Lee, D.-C. (2014). Cardiac and pulmonary benefits of forest walking versus city walking in elderly women: A randomised, controlled, open-label trial. European Journal of Integrative Medicine, 6(1), 5-11. doi: http://dx.doi.org/10.1016/j.eujim.2013.10.006

Li, X., Zhou, W., & Ouyang, Z. (2013). Relationship between land surface temperature and spatial pattern of greenspace: What are the effects of spatial resolution? Landscape and Urban Planning, 114(0), 1-8. doi: http://dx.doi.org/10.1016/j.landurbplan.2013.02.005

Lovasi, G. S., O'Neil-Dunne, J. P., Lu, J. W., Sheehan, D., Perzanowski, M. S., Macfaden, S. W., . . . Rundle, A. (2013). Urban tree canopy and asthma, wheeze, rhinitis, and allergic sensitization to tree pollen in a New York City birth cohort. Environ Health Perspect, 121(4), 494-500, 500e491-496. doi: 10.1289/ehp.1205513

Lovasi, G. S., O'Neil-Dunne, J. P., Lu, J. W., Sheehan, D., Perzanowski, M. S., Macfaden, S. W., . . . Rundle, A. (2013). Urban tree canopy and asthma, wheeze, rhinitis, and allergic sensitization to tree pollen in a New York City birth cohort. Environ Health Perspect, 121(4), 494-500, 500e491-496. doi: 10.1289/ehp.1205513

Lovasi, G. S., Schwartz-Soicher, O., Quinn, J. W., Berger, D. K., Neckerman, K., Jaslow, R., . . . Rundle, A. (2013). Neighborhood safety and green space as predictors of obesity among preschool children from low-income families in New York City. Preventive Medicine, 57(3), 189-193. doi: 10.1016/j.ypmed.2013.05.012

Markevych, I. T., Elisabeth;Fuertes, Elaine;Sugiri, Dorothea;Berdel, Dietrich;Koletzko, Sibylle;von Berg, Andrea;Bauer, Carl-Peter;Heinrich, Joachim. (2014). A cross-sectional analysis of the effects of residential greenness on blood pressure in 10-year old children: results from the GINIplus and LISAplus studies. BMC Public Health, 14(1), 477.

Nowak, D. J., Hirabayashi, S., Bodine, A., & Hoehn, R. (2013). Modeled PM2.5 removal by trees in ten U.S. cities and associated health effects. Environmental Pollution, 178(0), 395-402. doi: http://dx.doi.org/10.1016/j.envpol.2013.03.050

Paquet, C., Orschulok, T. P., Coffee, N. T., Howard, N. J., Hugo, G., Taylor, A. W., . . . Daniel, M. (2013). Are accessibility and characteristics of public open spaces associated with a better cardiometabolic health? Landscape and Urban Planning, 118(0), 70-78. doi: http://dx.doi.org/10.1016/j.landurbplan.2012.11.011

Pereira, G., Christian, H., Foster, S., Boruff, B. J., Bull, F., Knuiman, M., & Giles-Corti, B. (2013). The association between neighborhood greenness and weight status: an observational study in Perth Western Australia. Environ Health, 12. doi: 10.1186/1476-069X-12-49

Richardson, E., Pearce, J., Mitchell, R., Day, P., & Kingham, S. (2010). The association between green space and cause-specific mortality in urban New Zealand: an ecological analysis of green space utility. BMC Public Health, 10(1), 1-14. doi: 10.1186/1471-2458-10-240

Richardson, E. A., Pearce, J., Mitchell, R., & Kingham, S. (2013). Role of physical activity in the relationship between urban green space and health. Public Health, 127(4), 318-324. doi: http://dx.doi.org/10.1016/j.puhe.2013.01.004

Stark, J. H., Neckerman, K., Lovasi, G. S., Quinn, J., Weiss, C. C., Bader, M. D. M., . . . Rundle, A. (2014). The impact of neighborhood park access and quality on body mass index among adults in New York City. Preventive Medicine, 64, 63-68. doi: http://dx.doi.org/10.1016/j.ypmed.2014.03.026

Tamosiunas, A., Grazuleviciene, R., Luksiene, D., Dedele, A., Reklaitiene, R., Baceviciene, M., . . . Nieuwenhuijsen, M. J. (2014). Accessibility and use of urban green spaces, and cardiovascular health: findings from a Kaunas cohort study. Environmental Health, 13(1), 1-11. doi: 10.1186/1476-069x-13-20

Tan, J., Zheng, Y., Song, G., Kalkstein, L. S., Kalkstein, A. J., & Tang, X. (2007). Heat wave impacts on mortality in Shanghai, 1998 and 2003. International Journal of Biometeorology, 51(3), 193-200. doi: 10.1007/s00484-006-0058-3

Uejio, C. K., Wilhelmi, O. V., Golden, J. S., Mills, D. M., Gulino, S. P., & Samenow, J. P. (2011). Intra-urban societal vulnerability to extreme heat: The role of heat exposure and the built environment, socioeconomics, and neighborhood stability. Health & Place, 17(2), 498-507. doi: http://dx.doi.org/10.1016/j.healthplace.2010.12.005

Vandentorren, S., Bretin, P., Zeghnoun, A., Mandereau-Bruno, L., Croisier, A., Cochet, C., . . . Ledrans, M. (2006). August 2003 Heat Wave in France: Risk Factors for Death of Elderly People Living at Home. The European Journal of Public Health, 16(6), 583-591. doi: 10.1093/eurpub/ckl063

Villeneuve, P. J., Jerrett, M., G. Su, J., Burnett, R. T., Chen, H., Wheeler, A. J., & Goldberg, M. S. (2012). A cohort study relating urban green space with mortality in Ontario, Canada. Environmental Research, 115, 51-58. doi: http://dx.doi.org/10.1016/j.envres.2012.03.003

Votsi, N.-E. P., Mazaris, A. D., Kallimanis, A. S., Drakou, E. G., & Pantis, J. D. (2013). Landscape structure and diseases profile: associating land use type composition with disease distribution. International Journal of Environmental Health Research, 24(2), 176-187. doi: 10.1080/09603123.2013.800965

Wilker, E. H. W., Chih-Da;McNeely, Eileen;Mostofsky, Elizabeth;Spengler, John;Wellenius, Gregory A.;Mittleman, Murray A. (2014). Green space and mortality following ischemic stroke. Environmental Research, 133(0), 42-48. doi: http://dx.doi.org/10.1016/j.envres.2014.05.005

Yamaguchi Dobbert, L., Ferreira da Silva Filho, D., & Polizel, J. L. (2013). Urban tree cover and human comfort in Campinas, Brazil. PROCEEDINGS of the Protected Areas and Place Making Conference 2013, 69-72.