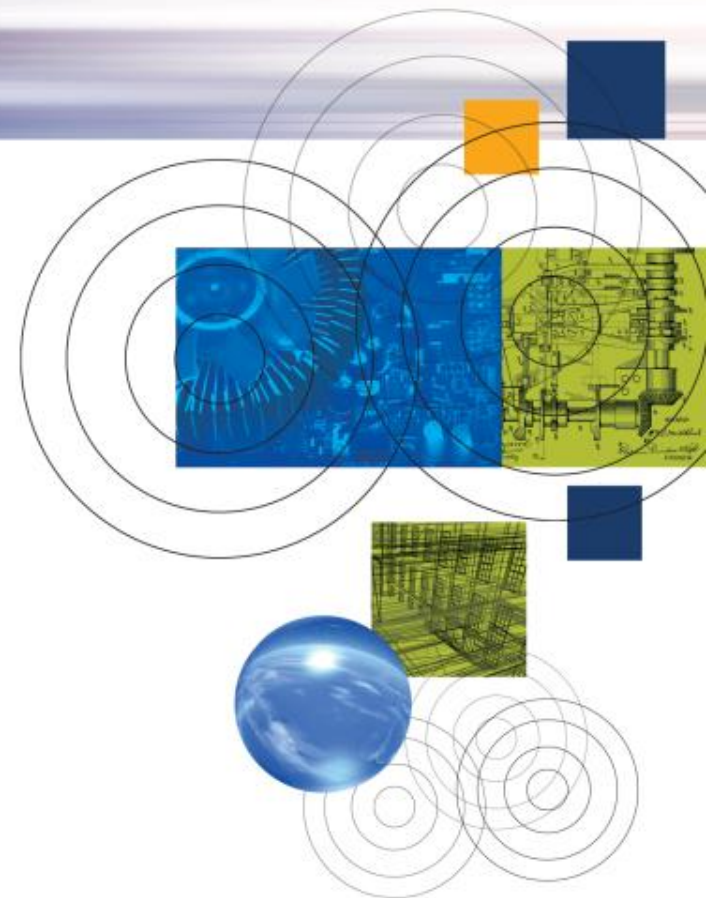


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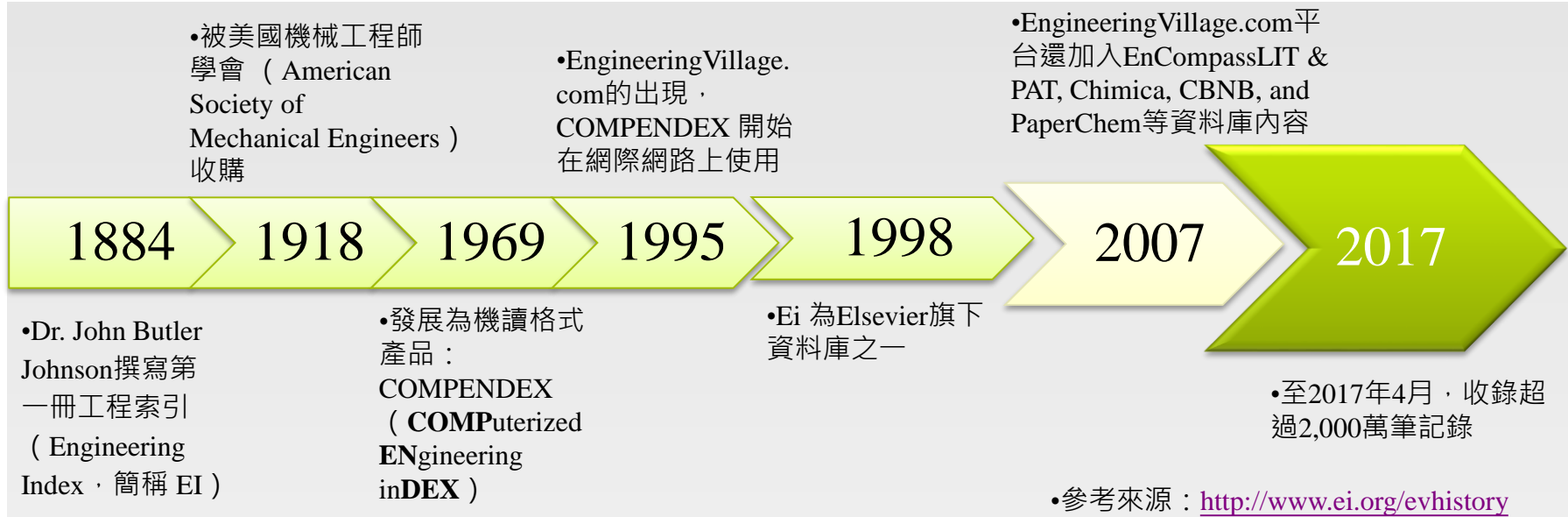
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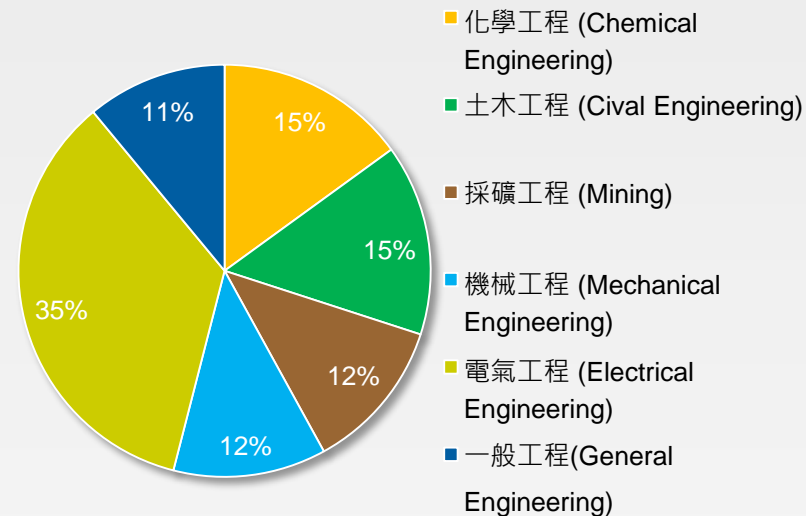
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Abstract

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Effect of public transport strikes on air pollution levels in Barcelona (Spain)

Basagaña, Xavier^{1, 2, 3}; Triguero-Mas, Margarita^{1, 2, 3}; Agis, David^{1, 2, 3}; Pérez, Noemí⁴; Reche, Cristina⁴; Alastuey, Andrés⁴; Querol, Xavier⁴

Source: *Science of the Total Environment*, v 610-611, p 1076-1082, January 1, 2018; ISSN: 00489697, E-ISSN: 18791026; DOI: 10.1016/j.scitotenv.2017.07.263; Publisher: Elsevier B.V.

Author affiliations: ¹ ISGlobal, Centre for Research in Environmental Epidemiology (CREAL), C/ Doctor Aiguader 88, Barcelona; 08003, Spain
² Universitat Pompeu Fabra (UPF), C/ Doctor Aiguader 88, Barcelona; 08003, Spain
³ CIBER Epidemiología y Salud Pública (CIBERESP), C/ Doctor Aiguader 88, Barcelona; 08003, Spain
⁴ Institute of Environmental Assessment and Water Research (IDAEA-CSIC), C/Jordi Girona 18-26, Barcelona; 08034, Spain

Abstract: Public transport strikes can lead to an increase of the number of private vehicle trips, which in turn can increase air pollution levels. We aimed to estimate the change in air pollution concentrations during public transport strikes in the city of Barcelona (Spain). Data on strikes of the metro, train or bus systems were collected from government records (2005–2016). We collected daily concentrations of NO_x; particulate matter with an aerodynamic diameter smaller than 10 μm (PM₁₀), 2.5 μm (PM_{2.5}), and 1 μm (PM₁); particle number concentration (N); black carbon (BC) and CO from research and official monitoring stations. We fitted linear regression models for each pollutant with the strike indicator as an independent variable, and models were adjusted for day of the week, month, year, and holiday periods. During the study period, there were 208 days affected by a strike of the metro (28), train (106) or bus (91) systems. Half of the strikes were partial, most of them were single-day strikes, there was little overlap between strikes of the different transport systems, and all strikes had to comply with mandatory minimal services. When pooling all types of strikes, NO_x and BC showed higher levels during strike days in comparison with non-strike days (increase between 4.1% and 7.7%, with higher increases for NO). The increases in these concentrations were more evident during full day and multiday metro strikes. In conclusion, alterations in public transport have consequences on air quality. This highlights the importance of public transport in reducing air pollution concentrations in cities. © 2017 Elsevier B.V. (17 refs)

Main heading: Pollution

Controlled terms: Air pollution - Air quality - Nitrogen compounds - Nitrogen oxides - Particles (particulate matter) - Regression analysis

Uncontrolled terms: Black carbon - Independent variables - Linear regression models - Particle number concentration - Particulate Matter - Pollution concentration - Public transport - Strike

Classification code: 451 Air Pollution - 451.2 Air Pollution Control - 804.2 Inorganic Science

Databases: Compendex

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Author details:

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Triguero-Mas, M.
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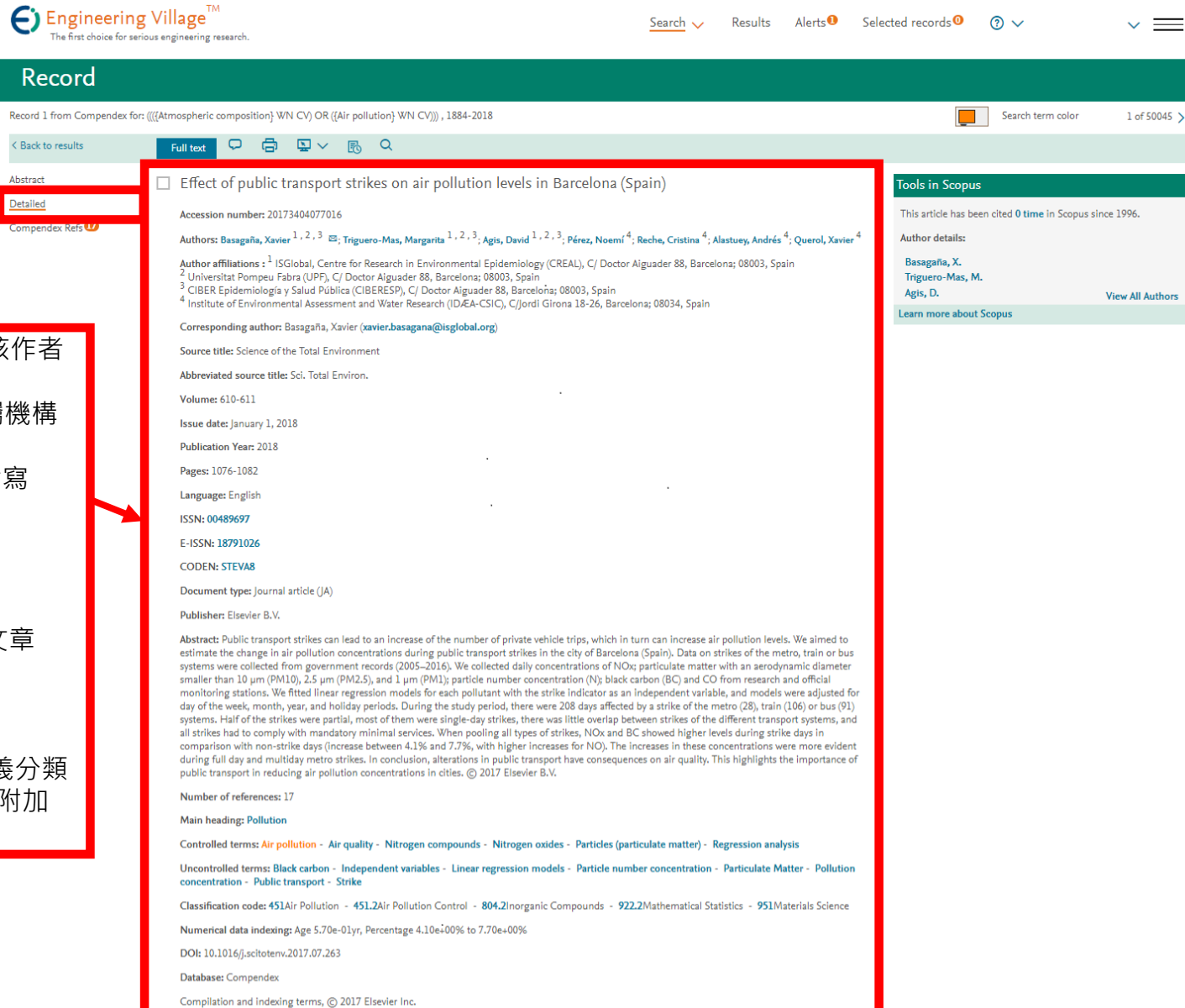
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Effect of public transport strikes on air pollution levels in Barcelona (Spain)

Accession number: 20173404077016

Authors: Basagaña, Xavier^{1, 2, 3}; Triguero-Mas, Margarita^{1, 2, 3}; Agis, David^{1, 2, 3}; Pérez, Noemí⁴; Reche, Cristina⁴; Alastuey, Andrés⁴; Querol, Xavier⁴

Author affiliations: ¹ ISGlobal, Centre for Research in Environmental Epidemiology (CREAL), C/ Doctor Aiguader 88, Barcelona; 08003, Spain
² Universitat Pompeu Fabra (UPF), C/ Doctor Aiguader 88, Barcelona; 08003, Spain
³ CIBER Epidemiología y Salud Pública (CIBERESP), C/ Doctor Aiguader 88, Barcelona; 08003, Spain
⁴ Institute of Environmental Assessment and Water Research (IDEA-CSIC), C/Jordi Girona 18-26, Barcelona; 08034, Spain

Corresponding author: Basagaña, Xavier (xavier.basagana@isglobal.org)

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Document type: Journal article (JA)

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Uncontrolled terms: Black carbon - Independent variables - Linear regression models - Particle number concentration - Particulate Matter - Pollution concentration - Public transport - Strike

Classification code: 451Air Pollution - 451.2Air Pollution Control - 804.2Inorganic Compounds - 922.2Mathematical Statistics - 951Materials Science

Numerical data indexing: Age 5.70e-01yr, Percentage 4.10e+00% to 7.70e+00%

DOI: 10.1016/j.scitotenv.2017.07.263

Database: Compendex

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- Main heading：主要主題
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4. **Effects of atmospheric pollution on health of man**
 Anon Source: *Effects of Atmospheric Pollution on Health of Man*, 481p, 1957

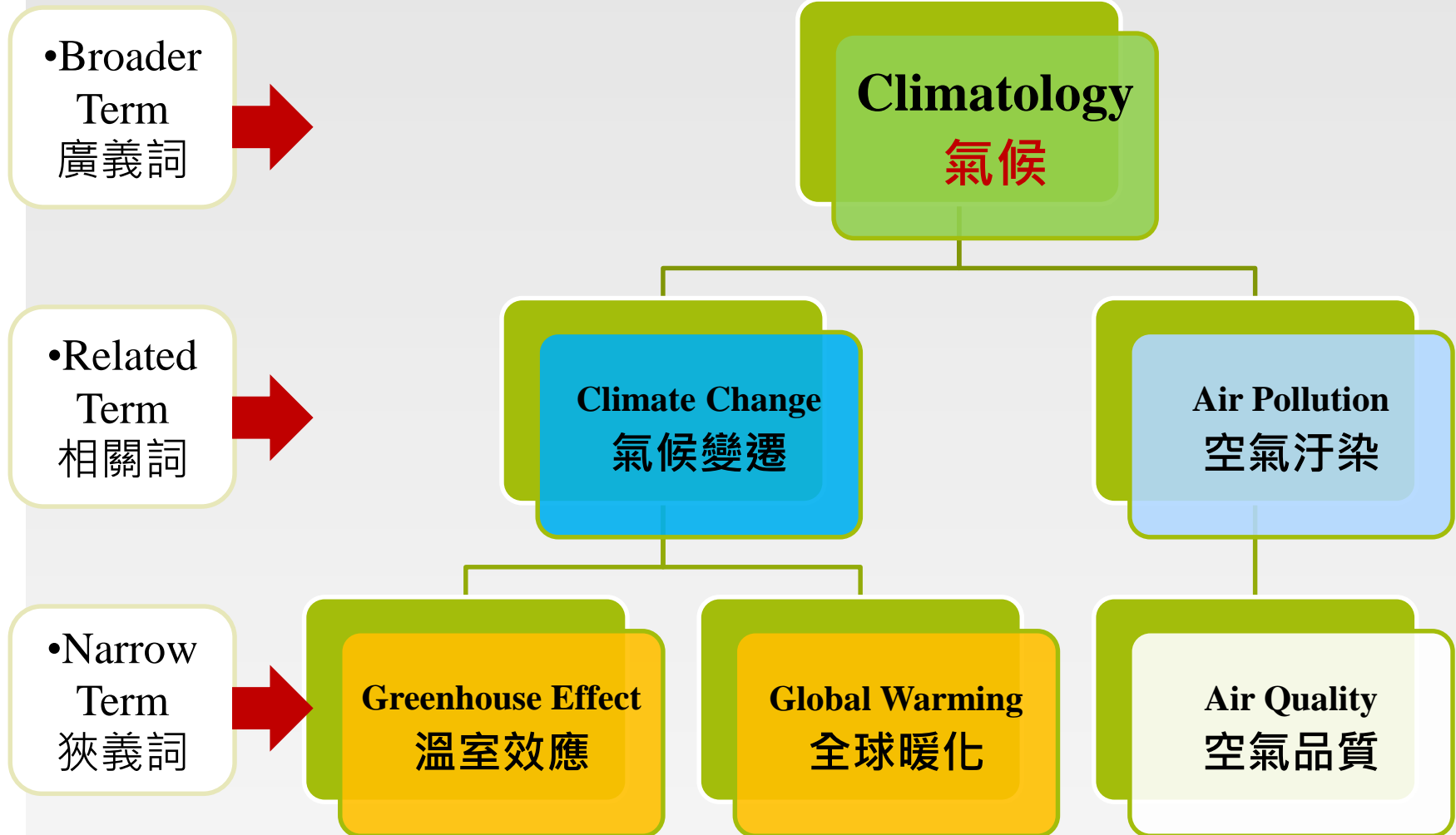
THESAURUS索引典

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一般口語表達用詞為**自然語言**，但每人對詞彙認知與用法有所差異，學術文獻的用字措辭更是嚴謹，需避免自然語言混淆不清或模稜兩可用法。

透過專家編寫的**索引典(Thesaurus)**，將自然語言分類重組為「**廣義詞**」、「**狹義詞**」、「**相關詞**」。對同一概念採用固定的詞彙表達，以達到控制詞彙目的，清楚呈現整個主題概念的結構，進而提高檢索的精確度。

範例 - Climate Change



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Thesaurus

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Thesaurus search

Database: Compindex Inspec GeoRef GEOBASE EnCompass

Search in: Vocabulary search

Vocabulary search

Exact term

Browse

"Climate change"

Search index

Vocabulary Search- 顯示所有相似意義的控制詞彙

Exact term - 顯示該詞彙階層關係

Browse - 該詞彙的字母順序位置, 但不一定在意義上有關係

如何知道心中關鍵字是否為索引詞彙

Thesaurus search

Database: Compendex Inspec GeoRef GEOBASE EnCompass

Search in: Vocabulary search for "Climate change" Search index

9 matching terms:

"Climate change" 1 of 1

- | Term | Term |
|--|--|
| <input type="checkbox"/> Air pollution | <input type="checkbox"/> Climatology |
| <input type="checkbox"/> Atmospheric composition | <input type="checkbox"/> Global warming |
| <input type="checkbox"/> Atmospheric temperature | <input type="checkbox"/> Greenhouse effect |
| <input type="checkbox"/> Climate change | <input type="checkbox"/> Greenhouse gases |
| <input type="checkbox"/> Climate models | |

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9 matching terms:

"Climate change" 1 of 1

- | Term | Term |
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| <input checked="" type="checkbox"/> Atmospheric composition | <input type="checkbox"/> Global warming |
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| <input type="checkbox"/> Climate change | <input type="checkbox"/> Greenhouse gases |
| <input type="checkbox"/> Climate models | |

Selected term(s) >

- Air pollution
- Atmospheric composition

AND
 OR



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