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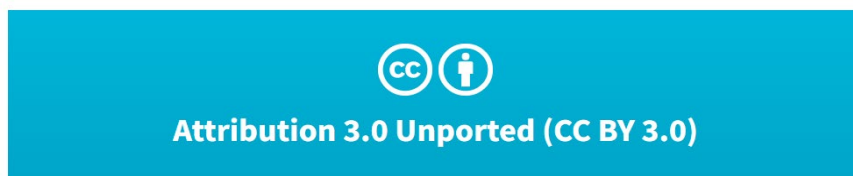
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(1) Figure 2 and 3 quotes from articles of Jo et al.(2016),which have added CC3.0 (by), the link is: <https://creativecommons.org/licenses/by/3.0/>, and no changes were made.

Jo, D. S. , Park, R. J. , Lee, S. , Kim, S. W.,Zhang, X. L..(2016). A global simulation of brown carbon:implications for photochemism and direct radiative effect[J]. Atmospheric Chemistry and Physics.16(5),3413-3432.<https://doi.org/10.5194/acpd-15-27805-2015>.

The image shows a screenshot of the journal's website. At the top left is the EGU logo (European Geosciences Union). The journal title 'Atmospheric Chemistry and Physics' is centered at the top. Below it is a navigation menu with items like 'ARTICLES & PREPRINTS', 'SUBMISSION', 'POLICIES', 'PEER REVIEW', 'EDITORIAL BOARD', 'AWARDS', 'ABOUT', and 'EGU PUBLICATIONS'. The main header area features a large blue image of Earth from space with the word 'Article' overlaid. Below the header is a search bar and a breadcrumb trail: 'Articles / Volume 16, issue 5 / ACP, 16, 3413–3432, 2016'. The article information section includes the journal citation, DOI, and Creative Commons license. A 'Download' box lists options: Article (3019 KB), Full-text XML, Supplement (148 KB), BibTeX, and EndNote. A 'Short summary' box contains a brief description of the article. A 'Share' box has icons for various social media platforms. At the bottom, there is a timeline of the article's publication process: 'Received: 20 Jul 2015 - Discussion started: 15 Oct 2015 - Revised: 03 Mar 2016 - Accepted: 03 Mar 2016 - Published: 16 Mar 2016'.

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A global simulation of brown carbon: implications for photochemistry and direct radiative effect

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Short summary

We develop a new approach to estimate global emission of primary brown carbon from biomass...

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Zhang, A. X., Wang, Y. H., Zhang, Y. Z., Weber, R. J., Zou, Y. (2020). Modeling the global radiative effect of brown carbon: a potentially larger heating source in the tropical free troposphere than black carbon[J]. Atmospheric Chemistry and Physics .20,1901-1920. <https://doi.org/10.5194/acp-2019-594>.

The image shows a screenshot of the Atmospheric Chemistry and Physics journal article page. At the top, there is the EGU logo (European Geosciences Union) and the journal title "Atmospheric Chemistry and Physics". Below the logo is a navigation menu with items: ARTICLES & PREPRINTS, SUBMISSION, POLICIES, PEER REVIEW, EDITORIAL BOARD, AWARDS, ABOUT, and EGU PUBLICATIONS. The main header area has a large blue image of Earth from space and the word "Article" in white. Below the header is a search bar and a breadcrumb trail: "Articles / Volume 20, Issue 4 / ACP, 20, 1901-1920, 2020". The article title is "Modeling the global radiative effect of brown carbon: a potentially larger heating source in the tropical free troposphere than black carbon". The authors listed are Aoxing Zhang, Yuhang Wang, Yuzhong Zhang, Rodney J. Weber, Yongjia Song, Ziming Ke, and Yufei Zou. The article is dated 20 Feb 2020. On the right side, there is a "Sections" sidebar with a list of article parts: Abstract, Introduction, Model description, Brown carbon module, Model evaluation, Results, Conclusions, Data availability, Author contributions, Competing interests, Acknowledgements, Financial support, Review statement, References, and Supplement. Below the sections is a "Download" sidebar with options for "Article (13698 KB)" and "Full-text XML".

(3) Figure 6 quotes from articles of Brown et al. (2018), which have added CC4.0 (by), the link is: <https://creativecommons.org/licenses/by/4.0/>, and no changes were made.

Brown, H., Liu, X. H., Feng, Y., Jiang, Y. Q., Wu, M. X., Lu, Z., Wu,

C. L., Shane, M., Rudra, P. (2018). Radiative effect and climate impacts of brown carbon with the community atmosphere model (CAM5)[J]. Atmospheric Chemistry and Physics. 18(24), 17745-17768. <https://doi.org/10.5194/acp-2018-676>.

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Research article

14 Dec 2018

Radiative effect and climate impacts of brown carbon with the Community Atmosphere Model (CAM5)

Hunter Brown¹, Xiaohong Liu¹, Yan Feng², Yiqun Jiang³, Mingxuan Wu¹, Zheng Lu¹, Chenglai Wu^{1,4}, Shane Murphy¹, and Rudra Pokhrel¹

Global mean

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(4) Figure 8 quotes from articles of Tuccella et al. (2021), which have added CC4.0 (by), the link is: <https://creativecommons.org/licenses/by/4.0/>, and no changes were made.

Tuccella, P. , Pitari, G. , Colaiuda, V. , Raparelli, E. , Curci, G. . (2021). Present-day radiative effect from radiation-absorbing aerosols in snow [J]. Atmospheric Chemistry and Physics. 21, 6875–6893. <https://doi.org/10.5194/ACP-21-6875-2021>.

The screenshot shows the article page for "Present-day radiative effect from radiation-absorbing aerosols in snow" by Tuccella et al. (2021). The page features the EGU logo and the journal title "Atmospheric Chemistry and Physics". A navigation bar includes links for "ARTICLES & PREPRINTS", "SUBMISSION", "POLICIES", "PEER REVIEW", "EDITORIAL BOARD", "AWARDS", "ABOUT", and "EGU PUBLICATIONS". The article title is prominently displayed, along with the authors' names and their affiliations. A Creative Commons Attribution 4.0 International License logo is visible. The page also includes a "Sections" sidebar with links to various parts of the article, such as Abstract, Introduction, Methods, Results and discussion, Conclusions, Appendix A, Code and data availability, Author contributions, Competing interests, Acknowledgements, Financial support, Review statement, References, and Supplement. A "Download" section at the bottom right indicates the article is available in a 1621 KB PDF format. The publication date is listed as 06 May 2021.

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Present-day radiative effect from radiation-absorbing aerosols in snow

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Sections

- Abstract
- Introduction
- Methods
- Results and discussion
- Conclusions
- Appendix A: List of abbreviations and symbols
- Code and data availability
- Author contributions
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