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Education

Ph.D., Atmospheric Physics, National Central University, Taiwan, 2007

M.S., Atmospheric Physics, National Central University, Taiwan, 2001

B.S., Atmospheric Sciences, National Central University, Taiwan, 1999

B.S., Environmental Program, National Central University, Taiwan, 1999

Employment

08/2016-Present Associate Professor, Atmospheric Sciences, National Central University, Taiwan

02/2012-07/2016 Assistant Professor, Atmospheric Sciences, National Central University, Taiwan

03/2011-01/2012 NASA Postdoctoral Program Fellow, Goddard Space Flight Center, NASA, Greenbelt, Maryland, USA

03/2008-02/2011 Visiting Scientist, Goddard Space Flight Center/NASA, Greenbelt, MD, USA.
As an exchange scholar, Dr. Sheng-Hsiang Wang works at NASA/GSFC for international collaborative project. Such tasks include doing research on data obtained from both Taiwan and NASA field campaigns; improving aerosol retrieval methods for ground-based remote sensing; and participating field deployments in Asian region.
University of Maryland, College Park, MD, USA.

04/2007-02/2011 Postdoctoral Fellow, Department of Atmospheric Sciences, National Central University, Taiwan.

Awards and Honors

Personal

2012 Award on NCU outstanding research for new employee

2010 NASA Climate and Radiation Branch, Award for an act of exceptional merit

2010-2011 NASA Postdoctoral Program Fellowship

- 2007 The Phi Tao Phi Scholastic honor, Society of the Republic of China
2006-2007 Presidential Fellowship, National Central University
2001 Award, Atmospheric Graduate Students Conference
1996 Scholarship of Professor Hsueh-Yi Liao

Invited Talk

1. Wang S.-H. (2018), Aerosol Vertical Distribution and Air Quality over Southern Taiwan, 成功大學, 台南。(23 Nov 2018)
2. Wang S.-H. (2018), Influence of ENSO on the long-range transported PM2.5 to Taiwan, 中研院, 台北。(29 Aug 2018)
3. Wang S.-H. (2018), 無人機應用於大氣科學觀測之發展, 中央氣象局, 台北。(26 Feb 2018)
4. Wang S.-H. (2017), Influence of ENSO on the long-range transported PM2.5 to Taiwan, NCU-IHS, Taiwan. (05 Dec 2017)
5. Wang S.-H. (2017), 中央大學宿舍演講: 搞懂天氣再出門。中央大學, 桃園。(18 May 2017)
6. Wang S.-H. (2017), 氣象局106年度氣象測報機構在職人員訓練:自動氣象站觀測。新竹氣象站, 新竹。(04 May 2017)
7. Wang S.-H. (2016), 應用光達解析細懸浮微粒垂直分布特徵與種類。國防大學中正理工學院, 龍潭。(22 Jan 2016)
8. Wang S.-H. (2015), Transport of Chinese haze and clouds over Northern Taiwan, CCU, Taiwan. (28 May 2015)
9. Wang S.-H. (2014), Multiyear measurements of atmospheric radiation and aerosol optical properties at Mt. Lulin (鹿林山 2862m), Taiwan, NTNU, Taiwan. (25 March 2014)
10. Wang S.-H. (2013), Uncertainties in estimating direct aerosol radiative forcing, NTU, Taiwan. (18 Dec 2013)
11. Wang S.-H. (2013), Characterization of aerosol particles over the South China Sea and its biogeochemical impact. NTU-AS, Taiwan. (14 May 2013)
12. Wang S.-H. (2012), First detailed observations of long-range transported dust over the South China Sea and its biogeochemical impact. NCU-IHS, Taiwan. (11 December 2012)
13. Wang S.-H. (2012), Observations of Asian Dust Storm over Taiwan and the South China Sea. The Regional Conference on Dust and Dust Storms (November 20-24, 2012), Kuwait.
14. Wang, S.-H. (2011), Remote Sensing, In-situ Measurement, and Model Simulation of Atmospheric Aerosols over Asian Region: Toward a Better Understanding of Aerosol-Radiation-Climate Interactions, NCU, Taiwan. (4 January 2011)

Invited Visit

1. 日本東京農工大學短期研究訪問。(2016年8月23-30日)
2. 日本早稻田大學受邀講學。(2019年7月24-30日)

Research Interests

Atmospheric Observation, Remote Sensing, Radiative Transfer, Aerosol and Radiation, Regional Climate Change

Professional Societies

2007–Present American Geophysical Union

Research Experiences

Projects

Participated local/national/international projects:

許桂榮等 (Feb-Dec, 2013), 南海空氣品質國際監測合作計畫, EPA-???-???-??-???, 環保署。(協同主持人)

林能暉等 (Jan-Dec, 2013), 鹿林山背景測站科技研究及操作維護, EPA-???-???-??-???, 環保署。(協同研究)

王聖翔 (May 2012 – July 2013), 大氣污染物之光學特性與輻射效應評估-地面遙測技術與輻射傳遞模式之整合應用, NSC 101-2111-M-008 -003, 國科會。(計畫主持人)

林能暉等 (Jan-Dec, 2012), 鹿林山背景測站科技研究及操作維護, EPA-101-U1L1-02-101, 環保署。(協同研究)

Long-term observation on acid deposition in Tao-Yuan County, 1999-2005.

Taiwan Acid Rain Program, Taiwan EPA, 2003-Present.

Lulin Atmospheric Background Station (LABS), Taiwan EPA/NSC/NCU, 2006–Present.

Long-term monitoring of regional atmospheric pollutants, NSC, 2007-Present.

Field campaign

Participated international field campaigns:

7-SEAS/BASELInE (7-South East Asian Studies/Doi Ang Khang), Doi Ang Khang, Thailand, February-April 2015.

7-SEAS/ BASELInE (7-South East Asian Studies/Doi Ang Khang), Doi Ang Khang, Thailand, February-April 2014.

7-SEAS/BASELInE (7-South East Asian Studies/Doi Ang Khang), Doi Ang Khang, Thailand, February-April 2013.

7-SEAS/Son La (7-South East Asian Studies/Son La), Son La, Vietnam, Mar-April 2012.

7-SEAS/Dongsha (7-South East Asian Studies/Dongsha), Dongsha Island, Taiwan, Mar-Jun 2010.

RAJO-MEGHA (Radiation, Aerosol Joint Observations – Monsoon Experiment in Gangetic-Himalayas Area), Nepal and India, April-June 2009.

TIGERZ, India, May-June 2008.

CHINA²-AMY08 (Cloud, Humidity Interacting Natural/Anthropogenic Aerosols in Asian Monsoon Year-2008), China, Apr-Oct 2008.

BASE-ASIA (Biomass-burning Aerosols in South East-Asia: Smoke Impact Assessment), Thailand, Feb-May 2006.

ABC-EAREX (Atmospheric Brown Cloud – Gosan Campaign East Asian Regional Experiment), Mar-Apr 2005.

ACE-Asia (Aerosol Characterization Experiments – Asia), East Asia, Jan-May 2001.

Instrumentation

Knew wide-range atmospheric instrumentations:

ground-based remote sensing: Micro-Pulse Lida, CIMEL sunphotometry, MFRSR, Lidar and aerosol in situ:

radiation:

cloud chemistry/microphysics:

acid rain:

Meteorology:

Modeling

Applied various atmospheric models in my research work:

ISCST3 (The Industrial Source Complex Short Term), simulates emission, transport, and deposition of air pollutions (e.g., sulfate, sulfur, and dioxin) in an urban scale.

HYSPLIT (Hybrid Single Particle Lagrangian Integrated Trajectory Model), simulates trajectory and 3-D dispersion of Asian pollutants (e.g., Anthropogenic, dust, and biomass burning) in a regional scale.

MM5 and **WRF**, simulates the meteorological conditions and implement radiative feedback.

CLIRAD (NASA/Goddard radiative transfer model), simulates the radiative effects due to atmospheric compositions.

RCM (Regional Climate Model), in developing for aerosol radiative feedbacks study.

Teaching Experience

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| 2012 | Special topic on advanced instrumentation and application of atmospheric radiation |
| 2007 | Introduction to Global Change from IPCC report (Chapter 2: Changes in Atmospheric Constituents and in Radiative Forcing), NTU |
| 2002–2004 | Practicum for Atmospheric Instrumentation and Observation, NCU |

Publications

Journals

(IF: impact factor; IF Rank 排名; ▲ : 被引用次數; * : Corresponding author)

1. Wang, Y.C., S.-H. Wang*, J.R. Lewis, S.C. Chang, and S.M. Griffith (2021), Determining Planetary Boundary Layer Height by Micro-pulse Lidar with Validation by UAV Measurements. *Aerosol Air Qual. Res.* <https://doi.org/10.4209/aaqr.200336>
2. Punsompong, P., S. K. Pani, S.-H. Wang*, T. T. B. Pham (2021), Assessment of biomass-burning types and transport over Thailand and the associated health risks, *Atmospheric Environment*, 247, 2021, 118176, <https://doi.org/10.1016/j.atmosenv.2020.118176>.
3. Chen, Y.-C., S.-H. Wang*, Q. Min, S. Lu, P.-L. Lin, N.-H. Lin, K.-S. Chung, and E. Joseph (2021), Aerosol impacts on warm-cloud microphysics and drizzle in a moderately polluted environment, *Atmos. Chem. Phys.*, 21, 4487–4502, <https://doi.org/10.5194/acp-21-4487-2021>.
4. Chuang, M.-T.*, M. C. G. Ooi, N.-H. Lin, J. S. Fu, C.-T. Lee, S.-H. Wang, M.-C. Yen, S. S.-K. Kong, and W.-S. Huang (2020), Study on the impact of three Asian industrial regions on PM_{2.5} in Taiwan and the process analysis during transport, *Atmos. Chem. Phys.*, 20, 14947–14967, <https://doi.org/10.5194/acp-20-14947-2020>.
5. Nguyen L. S. P., H.-Y. Huang, T. L. Lei, T. T. Bui, S.-H. Wang*, K. H. Chi, G.-R. Sheu*, C.-T. Lee, C.-F. Ou-Yang, and N.-H. Lin (2020), Characterizing a landmark biomass-burning event and its implication for aging processes during long-range transport. *Atmospheric Environment*, 241, 117766, <https://doi.org/10.1016/j.atmosenv.2020.117766>. (IF= 4.633)
6. Griffith S. M. et al. (2020), Long-Range Air Pollution Transport in East Asia During the First Week of the COVID-19 Lockdown in China. *Science of The Total Environment*, 741, 140214. (IF=6.551)
7. Lolli, S., Y.-C. Chen, S.-H. Wang*, and G. Vivone (2020), Impact of meteorological conditions and air pollution on COVID-19 pandemic transmission in Italy. *Scientific Reports* 10, 16213 (2020). <https://doi.org/10.1038/s41598-020-73197-8>. (IF= 4.576)
8. Wang S.-H.*, H.-W. Lei, S. K. Pani, H.-Y. Huang, N.-H. Lin, E.J. Welton, S.-C. Chang, Y.-C. Wang (2020), Determination of Lidar Ratio for Major Aerosol Types over Western North Pacific Based on Long-Term MPLNET Data. *Remote Sensing*, 12(17), 2769. (IF= 4.509)
9. Laj P. et al. (2020), A global analysis of climate-relevant aerosol properties retrieved from the network of GAW near-surface observatories, *Atmospheric Measurement Techniques*, 13, 4353–4392, <https://doi.org/10.5194/amt-13-4353-2020>. (IF=3.668)
10. Lolli, S.*, K. Qin, J.R. Campbell, S.-H. Wang (2020), Editorial for Special Issue “High Resolution Active Optical Remote Sensing Observations of Aerosols, Clouds and Aerosol–Cloud Interactions and Their Implication to Climate”. *Remote Sensing*, 12, 2166. (IF=4.509)
11. Pani S. K., S.-H. Wang, N.-H. Lin*, S. Chantara, C.-T. Lee, and D. Thepnuan (2020), Black carbon over an urban atmosphere in northern peninsular Southeast Asia: Characteristics, source apportionment, and associated health risks. *Environmental Pollution*, 259, 113871. (IF=6.792)
12. Huang H.-Y., S.-H. Wang*, W.-X. Huang, N.-H. Lin, M.-T. Chuang, A. M. da Silva, and C.-M. Peng (2020), Influence of synoptic-dynamic meteorology on the long-range transport of Indochina biomass burning aerosols. *Journal of Geophysical Research: Atmospheres*, 125, e2019JD031260. (IF= 3.821)

13. Wang S.-H.*, R.-Y. Hung, N.-H. Lin, Á. Gómez-Losada, J. C.M. Pires, K. Shimada, S. Hatakeyama, and A. Takami (2020), Estimation of background PM_{2.5} concentrations for an air-polluted environment, *Atmospheric Research*, 231, 104636. Doi: <https://doi.org/10.1016/j.atmosres.2019.104636>. (IF= 4.676)
14. Hung W.-T.*, C.-H. Lu*, S.-H. Wang, S.-P. Chen, F. Tsai, and C.-K. Chou (2019), Investigation of long-range transported PM_{2.5} events over Northern Taiwan during 2005–2015 winter seasons, *Atmospheric Environment*, 217, 116920. Doi: <https://doi.org/10.1016/j.atmosenv.2019.116920>. (IF=4.039)
15. Huang K., J. S. Fu*, N.-H. Lin*, S.-H. Wang, X. Dong, and G. Wang (2019), Superposition of Gobi dust and Southeast Asian biomass burning: the effect of multi-source long-range transport on aerosol and regional meteorology modification, *Journal of Geophysical Research*, 124. Doi: <https://doi.org/10.1029/2018JD030241>. (IF=4.039)
16. Pani S. K., C.-F. Ou-Yang, S.-H. Wang, J. A. Ogren, P. J. Sheridan, G.-R. Sheu, and N.-H. Lin*, (2019), Relationship between atmospheric black carbon and carbon monoxide at a high altitude background station in East Asia. *Atmospheric Environment*, 210, 86-99. Doi: <https://doi.org/10.1016/j.atmosenv.2019.04.05>. (IF=4.039)
17. Pani S. K., N.-H. Lin*, S. Chantara, S.-H. Wang, C. Khamkaew, T. Prapamontol, and S. Janjai (2018), Radiative response of biomass-burning aerosols over an urban atmosphere in northern peninsular Southeast Asia, *Science of the Total Environment*, 633, 892-911. doi: 10.1016/j.scitotenv.2018.03.204. (IF=5.589)
18. Kishcha P.*, S.-H. Wang, N.-H. Lin, A. da Silva, T.-H. Lin, P.-H. Lin, G.-R. Liu, B. Starobinets, and P. Alpert (2018), Differentiating between Local and Remote Pollution over Taiwan, *Aerosol and Air Quality Research*, 18(7), 1788-1798, DOI: 10.4209/aaqr.2017.10.0378. (IF=2.735)
19. Dong X., J. S. Fu*, K. Huang, N.-H. Lin, S.-H. Wang, and C.-E. Yang (2018), Analysis of the co-existence of long-range transport biomass burning and dust in the subtropical West Pacific region, *Scientific Reports*, 8, 8962. (IF=4.011)
20. Pani S. K., C.-T. Lee*, C. C.-K. Chou, K. Shimada, S. Hatakeyama, A. Takami, S.-H. Wang, and N.-H. Lin* (2017), Chemical Characterization of Wintertime Aerosols over Islands and Mountains in East Asia: Impacts of the Continental Asian Outflow, *Aerosol and Air Quality Research*, 17 (12), 3006-3036, doi: 10.4209/aaqr.2017.03.0097. (IF= 2.606)
21. Hung N. T., C.-T. Li, S.-H. Wang, C.-F. Ou-Yang, C.-Y. Lin, C.-T. Lee, N.-H. Lin, and K. H. Chi* (2017), Long-term monitoring of atmospheric PCDD/Fs at Mount Lulin during spring season: PCDD/F source apportionment through a simultaneous measurement in Southeast Asia, *Chemosphere*, 185, 368-375, doi: 10.1016/j.chemosphere.2017.06.124. (IF= 4.208)
22. Lu, M. R., P. Y. Chen, C. L. Kuo, C. C. Chou, B. X. Wu, A. Shinsuke, H. T. Su, R. R. Hsu, S.-H. Wang, N.-H. Lin, and L. C. Lee (2017), Recent work on sprite spectrum in Taiwan, *Terrestrial Atmospheric and Oceanic Sciences*, 28(4), 625-636, doi: 10.3319/TAO.2016.08.26.02. (IF=0.599)
23. Fosu, B. O., S.-Y. Wang, S.-H. Wang, R. R. Gillies, and L. Zhao (2017), Greenhouse gasesstabilizing winter atmosphere in the Indo-Gangetic plains may increase aerosol loading. *Atmospheric Science Letters*, 18: 168-174. doi:10.1002/asl.739. (IF=1.879)
24. Hsiao, T.-C.* W.-N. Chen, W.-C. Ye, N.-H. Lin, S.-C. Tsay, T.-H. Lin, C.-T. Lee, M.-T. Chuang, P. Pantina, and S.-H. Wang (2017), Aerosol optical properties at the Lulin Atmospheric Background Station in Taiwan and the influences of long-range transport of air

- pollutants, *Atmospheric Environment*, 105, 366-378, doi: 10.1016/j.atmosenv.2016.11.031. (IF= 3.629)
25. Provençal S.*, V. Buchard, A. M. da Silva, R. Leduc, N. Barrette, E. Elhacham, and S.-H. Wang (2017), Evaluation of PM_{2.5} Surface Concentrations Simulated by Version 1 of NASA's MERRA Aerosol Reanalysis over Israel and Taiwan, *Aerosol and Air Quality Research*, 17, 253–261, doi: 10.4209/aaqr.2016.04.0145. (IF= 2.606)
 26. Chi, K.-H.*, T.H. Ngo, T.-Y. Lin, C.-H. Ou Yang, S.-H. Wang, C.-T. Lee, and N.-H. Lin (2016), Evaluation of atmospheric PCDD/Fs at two high-altitude stations in Vietnam and Taiwan during Southeast Asia biomass burning, *Aerosol and Air Quality Research*, 16, 2706-2715, doi: 10.4209/aaqr.2015.11.0653 (IF= 2.393)
 27. Chuang M.-T., J. S. Fu, C.-T. Lee, N.-H. Lin, Y. Gao, S.-H. Wang, G.-R. Sheu, T.-C. Hsiao, J.-L. Wang, M.-C. Yen, T.-H. Lin, and N. Thongboonchoo (2016), The Simulation of Long-Range Transport of Biomass Burning Plume and Short-Range Transport of Anthropogenic Pollutants to a Mountain Observatory in East Asia during the 7-SEAS/2010 Dongsha Experiment, *Aerosol and Air Quality Research*, 16, 2933-2949, doi: 10.4209/aaqr.2015.07.0440. (IF= 2.393)
 28. Hsiao, T.-C.*, W.-C. Ye, S.-H. Wang, S.-C. Tsay, W.-N. Chen, N.-H. Lin, C.-T. Lee, H.-M. Hung, M.-T. Chuang, and S. Chantara (2016), Investigation of the CCN Activity, BC and UVBC Mass Concentrations of Biomass Burning Aerosols during the 2013 BASELInE Campaign. *Aerosol and Air Quality Research*, 16, 2742-2756. doi: 10.4209/aaqr.2015.07.0447. (IF= 2.393)
 29. Chuang H.-C., T.-C. Hsiao*, S.-H. Wang, S.-C. Tsay, and N.-H. Lin (2016), Characterization of particulate matter profiling and alveolar deposition from biomass burning in northern Thailand: The 7-SEAS Study. *Aerosol and Air Quality Research*, 16, 2897-2906, doi: 10.4209/aaqr.2015.08.0502. (IF= 2.393)
 30. Lee C.-T.*, S. S. Ram, D. L. Nguyen, C. C.-K. Chou, S.-Y. Chang, N.-H. Lin, S.-C. Chang, T.-C. Hsiao, G.-R. Sheu, C.-F. Ou Yang, K. H. Chi, S.-H. Wang, and X.-C. Wu (2016), Aerosol chemical profile of near-source biomass burning smoke in Sonla, Vietnam during 7-SEAS Campaigns in 2012 and 2013. *Aerosol and Air Quality Research*, 16, 2603-2617 doi: 10.4209/aaqr.2015.07.0465 (IF= 2.393)
 31. Lee, J.*, N. C. Hsu, C. Bettenhausen, A. M. Sayer, C. J. Seftor, M.-J. Jeong, S.-C. Tsay, E. J. Welton, S.-H. Wang, and W.-N. Chen (2016), Evaluating the height of biomass burning smoke aerosols retrieved from synergistic use of multiple satellite sensors over Southeast Asia. *Aerosol and Air Quality Research*, 16, 2897-2906, doi: 10.4209/aaqr.2015.08.0506. (IF= 2.393)
 32. Pani, S. K., S.-H. Wang*, N.-H. Lin*, S.-C. Tsay, B. N. Holben, S. Janjai, T.-C. Hsiao, M.-T. Chuang, and S. Chantara (2016), Radiative effect of springtime biomass-burning aerosols over northern Indochina during 7-SEAS/BASELInE 2013 campaign, *Aerosol and Air Quality Research*, 16, 2802–2817, doi:10.4209/aaqr.2016.03.0130. (IF= 2.393)
 33. Pantina P.*, S.-C. Tsay, T.-C. Hsiao, A. M. Loftus, F. Kuo, C.-F. Ou-Yang, A. M. Sayer, S.-H. Wang, N.-H. Lin, N. C. Hsu, S. Janjai, S. Chantara, and A. X. Nguyen, COMMIT in 7-SEAS/BASELInE: Operation of and Observations from a Novel, Mobile Laboratory for Measuring In-Situ Properties of Aerosols and Gases, *Aerosol and Air Quality Research*, 16, 2728-2741, doi: 10.4209/aaqr.2015.11.0630. (IF= 2.393)
 34. Sayer, A. M.*, N. C. Hsu, T.-C. Hsiao, P. Pantina, F. Kuo, C.-F. Ou-Yang, B. N. Holben, S. Janjai, S. Chantara, S.-H. Wang, A.M. Loftus, N.-H. Lin, and S.-C. Tsay (2016), In-situ and

- remotely-sensed observations of biomass burning aerosols at Doi Ang Khang, Thailand during 7-SEAS/BASELInE 2015. *Aerosol and Air Quality Research*, 16, 2786-2801. doi: 10.4209/aaqr.2015.08.0500. (IF= 2.393)
35. Tsay S.-C.*, N.C. Hsu, N.-H. Lin*, H.B. Maring, S. Buntoung, S. Chantara, P.M. Gabriel, C.S. Goodloe, B.N. Holben, T.-C. Hsiao, S. Janjai, W.K.-M. Lau, J. Lee, A.M. Loftus, A.X. Nguyen, C.M. Nguyen, P. Pantina, A.M. Sayer, W.-K. Tao, S.-H. Wang, E.J. Welton, W. Wiriya, and M.-C. Yen (2016), Satellite-surface perspective of air quality and aerosol-cloud effects on the environment: An overview of 7-SEAS/BASELInE. *Aerosol and Air Quality Research*, 16, 2581-2602, doi: 10.4209/aaqr.2016.08.0350. (IF= 2.393)
 36. Huang, W.-R.*, S.-H. Wang, M.-C. Yen, N.-H. Lin, and P. Promchote (2016), Interannual variation of springtime biomass burning in Indochina: Regional differences, associated atmospheric dynamical changes, and downwind impacts, *Journal of Geophysical Research*, 121, 10,016-10,028, doi:10.1002/2016JD025286. (IF=3.318)
 37. Chang, K.-E., T.-C. Hsiao, N.C. Hsu, S.-H. Wang, N.-H. Lin, G.-R. Liu, and T.-H. Lin* (2016), Mixing weight determination for retrieving optical property of polluted dust with MODIS and AERONET data. *Environmental Research Letters*, 11, 085002. doi:10.1088/1748-9326/11/8/085002. (IF= 4.134)
 38. Pani S.K., S.-H. Wang, N.-H. Lin*, S.-C. Tsay, S. Lolli, M.-T. Chuang, C.-T. Lee, S. Chantara, and J-Y Yu (2016), Assessment of aerosol optical property and radiative effect for the layer decoupling cases over the northern South China Sea during the 7-SEAS/Dongsha Experiment, *Journal of Geophysical Research*, 121, 4894–4906. doi:10.1002/2015JD024601. (IF= 3.4)
 39. Wang, S.-H.*, W.-T. Hung, S.-C. Chang, and M.-C. Yen (2016), Transport characteristics of Chinese haze over Northern Taiwan in winter, 2005-2014. *Atmospheric Environment*, 126, 76-86. doi:10.1016/j.atmosenv.2015.11.043. (IF= 3.28; 12%; ▲0)
 40. Li, J., Q. Fu, J. Huo, D. Wang, W. Yang, Q. Bian, Y. Duan, Y. Zhang, J. Pan, Y. Lin, K. Huang, S.-H. Wang, J. Fu, and P.K.K. Louie, (2015), Tethered balloon-based black carbon profiles within the lower troposphere of shanghai in the 2013 east China smog. *Atmospheric Environment*, 123, 327–338, doi:10.1016/j.atmosenv.2015.08.096. (IF= 3.28; 12%; ▲0)
 41. Wang, S.-H.*, E.J. Welton, B.N. Holben, S.-C. Tsay, N.-H. Lin, D. Giles, S.A. Stewart, S. Janjai, X.A. Nguyen, T.-C. Hsiao, W.-N. Chen, T.-H. Lin, S. Buntoung, S. Chantara, and W. Wiriya (2015), Vertical distribution and columnar optical properties of springtime biomass-burning aerosols over northern Indochina during 2014 7-SEAS campaign. *Aerosol and Air Quality Research*, 15, 2037-2050. doi: 10.4209/aaqr.2015.05.0310. (IF= 2.094; 35%; ▲0)
 42. Chuang, M.-T., J.S. Fu, N.-H. Lin, C.-T. Lee, Y. Gao, S.-H. Wang, G.-R. Sheu, T.-C. Hsiao, J.-L. Wang, M.-C. Yen, T.-H. Lin, N. Thongboonchoo, and W.-C. Chen (2015). Simulating the transport and chemical evolution of biomass burning pollutants originating from Southeast Asia during 7-SEAS/2010 Dongsha experiment. *Atmospheric Environment*, 112, 294-305. doi: 10.1016/j.atmosenv.2015.04.055 (IF= 3.28; 12%; ▲0)
 43. Lolli, S., E.J. Welton, A. Benedetti, L. Jones, M. Suttie, and S.-H. Wang (2014), MPLNET lidar data assimilation in the ECMWF MACC-II Aerosol system: Evaluation of model performances at NCU lidar station, *Proc. of SPIE*, 9246, 92460I-5. doi: 10.1117/12.2068201. (IF= 0.2; 90%; ▲1)
 44. Lin, N.-H.*, A. M. Sayer, S.-H. Wang, A. M. Loftus, T.-C. Hsiao, G.-R. Sheu, N. C. Hsu, S.-C. Tsay, and S. Chantara (2014), Interactions between biomass-burning aerosols and clouds

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