

環境變遷研究中心

期刊論文

Wan-Ru Huang, Ya-Hui Chang, Huang-Hsiung Hsu, Chao-Tzuen Cheng and Chia-Ying Tu, accepted, “Dynamical Downscaling Simulation and Future Projection of Summer Rainfall in Taiwan: Contributions from Different Types of Rain Events.”, *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*.

Matthew J. McGrath, James Ryder, Bernard Pinty, Juliane Otto, Kim Naudts., submitted, “A multi-level canopy radiative transfer scheme for ORCHIDEE(SVN r2566), based on a domain-averaged structure factor”, *Geoscientific Model Development Discussion*.

Hwang R.L., C.-Y. Lin, and K.T. Huang, accepted, “Spatial and temporal analysis of urban heat island and global warming on residential thermal comfort and cooling energy in Taiwan”, *Energy & Buildings*. (SCI) (IF: 2.973; SCI ranking: 9.8%,35.2%,4.8%)

Aamzad Hussain Laskar, S. K. Bhattacharya, D. Mohabey, M. C. Liang*, submitted, “13C-18O bond abundances in fossilized eggshell carbonate indicate variable thermoregulation in dinosaurs”, *SCIENTIFIC REPORTS*. (SCI) (IF: 5.228; SCI ranking: 11.1%)

Kobayashi Y, Kojima H, Itoh M, Okuda N, Fukui M and FK Shiah , accepted , 〈 Abundance of planktonic methane-oxidizing bacteria in a subtropical reservoir. 〉 , 《Plankton and Benthos Research》 , 11(4), 144-146 .

Amzad Hussain Laskar, T. F. Yui*, Mao-Chang Liang, accepted, “Clumped Isotope Composition of Marbles from the Backbone Range of Taiwan”, *TERRA NOVA*. (SCI) (IF: 2.758; SCI ranking: 20.1%)

Amzad Hussain Laskar, M. C. Liang*, accepted, “Clumped isotopes in near surface atmospheric CO₂ over land, coast and ocean in Taiwan and its vicinity”, *BIOGEOSCIENCES*. (SCI) (IF: 3.7; SCI ranking: 9.2%,20.7%)

Ko, C.-Y., C.-C. Lai, H.-H. Hsu, F.-K. Shiah, submitted, “Decadal phytoplankton dynamics in response to episodic climatic disturbances in a subtropical deep freshwater ecosystem”, *Water Resources*. (SCI) (IF: 0.31; SCI ranking: 92.9%)

Wu, C.-H., F. Nicolas , C.-A. Chen , and H.-H. Hsu, submitted, “East Asian presummer precipitation in the CMIP5 at high versus low horizontal resolution”, *Journal of Advances in Modeling Earth Systems*. (SCI) (IF: 6.417; SCI ranking: 4.8%)

Schroeder, M., Wang, S.-Y., and R. R. Gillies, and H.-H. Hsu, accepted, “Extracting the tropospheric short-wave influences on subseasonal prediction of precipitation in the United States using CFSv2”, *CLIMATE DYNAMICS*. (SCI) (IF: 4.708; SCI ranking: 9.5%)

Freychet, N., H.-H. Hsu and C.-H. Wu, accepted, “Extreme Precipitation Events over East Asia: Evaluating the CMIP5 Model”, *Atmospheric Hazards*.

Amzad Hussain Laskar, S. Mahata, M. C. Liang*, submitted, “Identification of anthropogenic CO₂ using triple oxygen and clumped isotopes”, *ENVIRONMENTAL SCIENCE & TECHNOLOGY*. (SCI) (IF: 5.393; SCI ranking: 6%,6.2%)

- Chen TY, JH Tai, CY Ko, CC Chen, CH Hsieh, NZ Jiao, HB Liu and FK Shiah, accepted, “Nutrient pulses driven by internal solitary waves enhance heterotrophic bacteria growth in the South China Sea”, *Environmental Microbiology Reports*. (SCI) (IF: 3.5; SCI ranking: 30.9%,17.8%)
- Chen, Tzong-Yueh#, Jen-Hua Tai#, Chia-Ying Ko, Chih-Hao Hsieh, Chung-Chi Chen, Nianzhi Jiao, Hong-Bin Liu, Fuh-Kwo Shiah, accepted, “Nutrient pulses driven by internal solitary waves enhance heterotrophic bacterial growth in the South China Sea”, *ENVIRONMENTAL MICROBIOLOGY*. (SCI) (IF: 5.932; SCI ranking: 13%)
- Freychet, N., H.-H. Hsu, A. Duchez, and C.-Y. Tu, submitted, “Projection in snowfall characteristics over the European Alps and its sensitivity to the SST changes: Results from a 50km resolution AGCM”, *GEOPHYSICAL RESEARCH LETTERS*. (SCI) (IF: 4.212; SCI ranking: 7.1%)
- Wang, C.-C., H.-H. Hsu#, Y.-L. Chen, J.-K. Yang, and M.-P. Hung, accepted, “Single model ensemble damps the simulated extratropical interannual variability”, *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*.
- M. C. Liang*, S. Mahata, Amzad Hussain Laskar, S. K. Bhattacharya, submitted, “Spatio-temporal variation of oxygen isotope anomaly in near surface CO₂ over urban and semi-urban areas and an ocean”, *Aerosol and Air Quality Research*. (SCI) (IF: 2.393; SCI ranking: 34.7%)
- Tai, Jen-Hua*, Kei-Chieh Yang, and Glen Gawarkiewicz, accepted, “Subtidal current structure and variability of the continental shelf and slope of the northern South China Sea”, *TERRESTRIAL ATMOSPHERIC AND OCEANIC SCIENCES*. (SCI) (IF: 0.556; SCI ranking: 94%,85.2%,91.7%)
- Chow, C. H., Y.-H. Tseng, H.-H. Hsu; C.-C. Young, accepted, “The interannual variability of the Subtropical Countercurrent's eddies in the North Pacific associated with the Western-Pacific teleconnection pattern”, *CONTINENTAL SHELF RESEARCH*. (SCI) (IF: 2.011; SCI ranking: 34.4%)
- Cornelius Csar Jude Hisole Salinas, Loren C. Chang, Mao-Chang Liang, Jia Yue, James Russel III, Benjamin F. Chao, 2016, “Impacts of SABER CO₂-based Eddy Diffusion Coefficients in the Lower Thermosphere on the Ionosphere/Thermosphere”, *JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS*, DOI: 10.1002/2016JA023161.
3. Chi K. H., N. T. Hung, C.-Y. Lin, S. H. Wang, C.-F. Ou-Yang, 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. (SCI) (IF: 2.393; SCI ranking: 34.7%)
- Ta-Chih Hsiao*, Wei-Cheng Ye, Sheng-Hsiang Wang, Si-Chee Tsay, Wei-Nai Chen, Neng-Huei Lin, Chung-Te Lee, Hui-Ming Hung, Ming-Tung Chuang, Somporn 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. (SCI) (IF: 2.393; SCI ranking: 34.7%)
- Tsai, I-C., W.-C. Wang, H.-H. Hsu, and W.-L. Lee, 2016, “Aerosol effects on summer monsoon over Asia during 1980s and 1990s”, *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*, 121, 11761–11776,.
- Li*, J.-L. F., W.-L. Lee, Y.-H. Wang, M. Richardson, J.-Y. Yu, E. Suhas, E. Fetzer, M.-H. Lo, and Q.

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- Chih-Hua Tsou, Pei-Yu Huang, Chia-Ying Tu, Cheng-Ta Chen, Teng-Ping Tzeng, and Chao-Tzuen Cheng, 2016, "Present Simulation and Future Typhoon Activity Projection over Western North Pacific and Taiwan/East Coast of China in 20-km HiRAM Climate Model.", *TERRESTRIAL ATMOSPHERIC AND OCEANIC SCIENCES*, 27(5), 687-703. (SCI) (IF: 0.556; SCI ranking: 94%,85.2%,91.7%)
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- Li, N., J.-P. Chen, I.-C. Tsai, Q. He, S.-Y. Chi, Y.-C. Lin, and T.-M. Fu, 2016, “Potential impacts of electric vehicles on air quality in Taiwan”, *SCIENCE OF THE TOTAL ENVIRONMENT*, 566-567 (2016), 919-928. (SCI) (IF: 3.976; SCI ranking: 14.2%)
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- Koralegedara, S.B., C.-Y. Lin*, Y.F. Sheng, C. H. Kuo, 2016, “ Estimation of anthropogenic heat emissions in urban Taiwan and their spatial patterns ”, *Environmental Pollution*, 215,84-95. (SCI) (IF: 4.839; SCI ranking: 7.6%)
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- Freychet N*, A. Duchez, C. H. Wu, C. A. Chen, H. H. Hsu, J. Hirschi, A. Forryan, B. Sinha, A. L. New, T. Graham, M. B. Andrews, C. Y. Tu, and S. J. Lin, 2016, “Variability of hydrological extreme events in East Asia and their dynamical control: A comparison between observations and two high-resolution global climate models”, *CLIMATE DYNAMICS*, 1-22. (SCI) (IF: 4.708; SCI ranking: 9.5%)
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- Salvador, C. M., Ho, T.-T., Chou, C. C.-K.*, Chen, M.-J., Huang, W.-R., Huang, S.-H., 2016, “Characterization of the organic matter in submicron urban aerosols using a Thermo-Desorption Proton-Transfer-Reaction Time-of-Flight Mass Spectrometer (TD-PTR-TOF-MS).”, *ATMOSPHERIC ENVIRONMENT*, 140, 565-575.. (SCI) (IF: 3.459; SCI ranking: 18.7%,20.2%)
2. Chang-Feng Ou-Yang, Wei-Cheng Liao, Pei-Chieh Wang, Gang-Jei Fan, Chien-Cheng Hsiao, Ming-Tung Chuang, Chih-Chung Chang, Neng-Huei Lin, Jia-Lin Wang, 2016, “Construction of a cryogen-free thermal desorption gas chromatographic system with off-the-shelf components for monitoring ambient volatile organic compounds.”, *J. Sep. Sci.*, 39, 1489–1499. (SCI) (IF: 2.741; SCI ranking: 28%)
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- Wong, Michael L.; Fan, Siteng; Gao, Peter; Liang, Mao-Chang; Shia, Run-Lie; Yung, Yuk; Kammer, Joshua A.; Summers, Michael; Gladstone, Randy; Young, Leslie; New Horizons Science Team, 2016, “The photochemistry of Pluto’s atmosphere as illuminated by New Horizons”, paper presented at *2016 DPS (the 48th annual meeting of the Division for Planetary Sciences)*, Pasadena, CA, USA: American Astronomical Society, 2016-10-16 ~ 2016-10-21.
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- Amzad H. Laskar; Mao-Chang Liang, 2016, “Effect of photosynthesis and respiration on clumped isotopes in atmospheric CO₂”, paper presented at *2016 ISI (the 8th biannual meeting of the International Symposium on Isotopomers)*, Nantes, France: International Symposium on Isotopomers, 2016-10-03 ~ 2016-10-06.
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