

JIH-HONG SHUE (許志滄)

Highest Education: Ph.D., Univ. of Alaska Fairbanks, USA (1993)

Present Position: Professor (2007--)

Joined NCU Faculty: 2003.8

Research Speciality: Magnetospheric Physics, Data Analysis

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A. Refereed Papers

Wang, H. *, H. Luhr, [J.-H. Shue](#), H. U. Frey, G. Kervalishvili, T. Huang, X. Cao, G. Pi, and A. J. Ridley

Strong ionospheric field-aligned currents for radial interplanetary magnetic fields

J. Geophys. Res. Space Physics, 119, 3979-3995, doi:10.1002/2014JA019951, May 2014. (SCI)

Pi, G., [J.-H. Shue*](#), J.-K. Chao, Z. Nemecek, J. Safrankova, and C.-H. Lin

A reexamination of long-duration radial IMF events

J. Geophys. Res. Space Physics, 119, 7005-7011, doi:10.1002/2014JA019993, 2014. (SCI)

Hsieh, W.-C., [J.-H. Shue*](#), J.-K. Chao, T.-C. Tsai, Z. Nemecek, and J. Safrankova

Possible observational evidence of contact discontinuities

Geophys. Res. Lett., 41, 8228-8234, doi:10.1002/2014GL062342, 2014 (SCI)

T. Huang, H. Wang*, [J.-H. Shue](#), L. Cai, and G. Pi

The dayside magnetopause location during radial interplanetary magnetic field periods: Cluster observation and model comparison

Ann. Geophys., 33, 437-448, doi:10.5194/angeo-33-437-2015, April 2015. (SCI)

Z. Nemecek*, J. Safrankova, O. Kruparova, L. Prech, K. Jelinek, S. Dusik, J. Simunek, K. Grygorov, and [J.-H. Shue](#)

Analysis of temperature versus density plots and their relation to the LLBL formation under southward and northward IMF orientations

J. Geophys. Res. Space Physics, 120, 3475-3488, doi:10.1002/2014JA020308, May 2015. (SCI)

[Shue, J.-H.*](#), Y.-K. Hsieh, S. W. Y. Tam, K. Wang, H. S. Fu, J. Bortnik, X. Tao, W.-C. Hsieh, and G. Pi

Local time distribution of repetition periods for rising tone lower band chorus waves in the magnetosphere,

Geophys. Res. Lett., 42, 8294-8301, doi:10.1002/2015GL066107, October, 2015. (SCI)

Liu, J.-Y.*, C.-W. Chang, C.-K. Chao, M.-Q. Chen, Y.-H. Chu, L.-N. Hau, C.-M. Huang, C.-L. Kuo, L.-C. Lee, L.-H. Lyu, C.-H. Lin, C.-J. Pan, [J.-H. Shue](#), C.-L. Su, L.-C. Tsai, Y.-Y. Yang, C.-H. Lin, R.-R. Hsu, and H.-T. Su

The fast development of solar terrestrial sciences in Taiwan

Geosci. Lett., 3, 18, doi:10.1186/s40562-016-0049-0, June, 2016.

Nemecek, Z.*, J. Safrankova, R. E. Lopez, S. Dusik, L. Nouzak, L. Prech, J. Simunek, [J.-H. Shue](#)

Solar cycle variations of magnetopause locations

Adv. Space Res., 56, 240-248, doi:10.1016/j.asr.2015.10.012, July, 2016. (SCI)

Pi, G., J.-H. Shue*, J.-S. Park, J.-K. Chao, Y.-H. Yang, C.-H. Lin

A comparison of the IMF structure and the magnetic field in the magnetosheath under the radial IMF conditions

Adv. Space Res., 56, 181-187, doi:10.1016/j.asr.2015.11.012, July, 2016. (SCI)

Park, J.-S. J.-H. Shue*, K.-H. Kim, G. Pi, Z. Nemecek, and J. Safrankova

Global expansion of the dayside magnetopause for long-duration radial IMF events: Statistical study on GOES observations

J. Geophys. Res., 121, 6480-6492, doi:10.1002/2016JA022772, June, 2016. (SCI)

Grygorov, K., Z. Nemecek*, J. Safrankova, L. Prech, G. Pi, and J.-H. Shue

Kelvin-Helmholtz wave at the subsolar magnetopause boundary layer under radial IMF

J. Geophys. Res., 121, 9863-9879, doi:10.1002/2016JA023068, October, 2016. (SCI)

Samsonov, A. A.*, D. G. Sibeck, J. Safrankova, Z. Nemecek, and J.-H. Shue

A method to predict magnetopause expansion in radial IMF events by MHD simulations

J. Geophys. Res., 122, 3110-3126, doi:10.1002/2016JA023301, March, 2017. (SCI)

Pi, G., J.-H. Shue*, K. Grygorov, H.-M. Li, Z. Nemecek, J. Safrankova, Y.-H. Yang, and K. Wang

Evolution of the magnetic field structure outside the magnetopause under radial IMF conditions

J. Geophys. Res., 122, 4051-4063, doi:10.1002/2015JA021809, April, 2017. (SCI)

Park, J.-S.* , J.-H. Shue, and K.-H. Kim

Dependence of electromagnetic ion cyclotron wave occurrence on north-south orientation of interplanetary magnetic field: THEMIS observations

J. Geophys. Res. Space Physics, 122, 11,354-11,372, doi:10.1002/2017JA024507, November, 2017. (SCI)

Pi, G.* , Němeček, Z., Šafránková, J., Grygorov, K., & Shue, J.-H.

Formation of the dayside magnetopause and its boundary layers under the radial IMF

Journal of Geophysical Research: Space Physics, 123, 3533–3547, doi:10.1029/2018JA025199, May, 2018. (SCI)

B.三年內執行之研究計畫

學年度	研究計畫名稱	計畫經費	補助單位
104	台捷國合計畫-太陽風對磁層頂結構和動力學的影響	948,000	科技部
	徑向行星際磁場事件中的波動與熱力學過程	1,711,000	科技部
105	徑向行星際磁場時電漿球層中電漿之重新補充	1,797,000	科技部
106	船艙震波上下游之多方指數研究	1,833,000	科技部

C.三年內開授課程

學年度	(必/選)課程名稱		選修人數	
104	上學期	(必)大氣科學通論	95 人	
		(選)高等程式設計 I	9 人	
		(選)高等太空科學 I	11 人	
105	上學期	(必)大氣科學通論	93 人	
		(選)太空天氣監測與預報	8 人	
		(選)高等程式設計 I	9 人	
		(選)高等太空科學 I	23 人	
	下學期	(選)IDL 程式語言：太空資料處理	3 人	
106	上學期	休假研究		
		下學期	(選)高等程式設計 II	1 人
			(選)IDL 程式語言：太空資料處理	13 人

D.三年內指導研究生狀況

學年度	博士班(人)	碩士班(人)	畢業人數	
			博士	碩士
104	1	0	0	0
105	1	1	1	0
106	1	1	0	1

E.三年內之學術性服務工作項目(請註明校內或校外)

學年度	校內/校外
104	擔任 Journal of Geophysical Research, Geophysical Research Letters, Earth, Planets and Space, Advances in Space Research 期刊評審人(校外) 擔任 Science Discipline Representative, Scientific Committee on Solar-Terrestrial Physics (SCOSTEP) (校外) 擔任 Representative, Committee on Space Research (校外) 太空科學研究所所長(校內)
105	擔任 Journal of Geophysical Research, Geophysical Research Letters, Earth, Planets and Space, Advances in Space Research 期刊評審人(校外) 擔任 Science Discipline Representative, Scientific Committee on Solar-Terrestrial Physics (SCOSTEP) (校外) 擔任 Representative, Committee on Space Research (校外) 太空科學研究所所長(校內)
106	擔任 Journal of Geophysical Research, Annales Geophysicae 期刊評審人(校外) 擔任台灣 NSC 計畫書評審人(校外) 擔任 Science Discipline Representative, Scientific Committee on Solar-Terrestrial Physics (SCOSTEP) (校外) 擔任 Representative, Committee on Space Research (校外)

F.三年內之教研獎勵事蹟

學年度	國科會	其他(請證明)
104		中大學術研究傑出獎勵「研究傑出獎」
105		中大學術研究傑出獎勵「研究傑出獎」
106		中大學術研究傑出獎勵「研究傑出獎」