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lynn.b.wilsoniii@gmail.com

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Lynn B. Wilson III

- [60] Wilson III, L. B., L.-J. Chen, S. Wang, S. J. Schwartz, D. L. Turner, M. L. Stevens, J. C. Kasper, A. Osmane, D. Caprioli, S. D. Bale, M. P. Pulupa, C. S. Salem, and K. A. Goodrich (2020), Electron energy partition across interplanetary shocks: III. Analysis, *Astrophys. J.*, **893**(22), [10.3847/1538-4357/ab7d39](https://doi.org/10.3847/1538-4357/ab7d39).
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- [108] Wilson III, L. B., M. L. Stevens, J. C. Kasper, K. Klein, B. Maruca, S. D. Bale, T. Bowen, M. P. Pulupa, and C. S. Salem (2018), The statistical properties of solar wind temperature parameters near 1 AU, *ArXiv e-prints*, [1802.08585](#).
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lynn.b.wilsoniii@gmail.com

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lynn.b.wilsoniii@gmail.com

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lynn.b.wilsoniii@gmail.com

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- [243] Madanian, H., D. L. Turner, D. J. Gershman, B. L. Giles, L. B. Wilson III, et al. (2020), Modulation of the quasi-perpendicular shock structure by reflected ions at high Mach numbers, *2020 Virtual GEM Conference*, on Jul. 20-23, 2020, Virtual Meeting.
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- [251] Wang, S., L.-J. Chen, N. Bessho, M. Hesse, L. B. Wilson III, R. E. Denton, J. Ng, B. L. Giles, R. B. Torbert, and J. L. Burch (2020), Reconnection observed at Earth's bow shock, in *APS Meeting Abstracts*, p. GM14.00003, 62nd Annual Meeting of the APS Division of Plasma Physics, Nov. 9–13, 2020, Virtual.
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lynn.b.wilsoniii@gmail.com

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- [274] Lario, D., I. G. Richardson, E. Palmerio, N. Lugaz, S. D. Bale, M. L. Stevens, C. M. S. Cohen, J. Giacalone, D. G. Mitchell, A. Szabo, T. Nieves-Chinchilla, L. B. Wilson III, E. R. Christian, M. E. Hill, D. J. McComas, R. L. McNutt Jr., N. A. Schwadron, and M. E. Wiedenbeck (2021), Comparative analysis of the 2020 November 29 solar energetic particle event observed by Parker Solar Probe, *Parker One Conference*, on Jun. 14–18, 2021, The Johns Hopkins University, Applied Physics Lab, Laurel, MD, USA.
- [275] Wilson III, L. B. (2021), Particle acceleration by nonlinear, magnetosonic-whistler precursors, *MMS Community Workshop*, Oct. 19–21, 2021, Waterville Valley, NH.
- [276] Howes, G. G., J. Juno, C. R. Brown, C. C. Haggerty, J. M. TenBarge, D. Caprioli, and A. Spitkovsky (2021), Fully Exploiting 3D-3V Phase Space to Understand Plasma Heating and Particle Acceleration in Collisionless Shocks, in *APS Meeting Abstracts*, p. CM10.00002, 63rd Annual Meeting of the APS Division of Plasma Physics, Nov. 8–12, 2021.

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- [277] Ofman, L., L. B. Wilson III, A. Szabo, and A. Koval (2021), Modeling the effects of α particles on collisionless oblique heliospheric shocks, in *APS Meeting Abstracts*, p. BM10.00006, 63rd Annual Meeting of the APS Division of Plasma Physics, Nov. 8–12, 2021.
- [278] Bessho, N., L.-J. Chen, S. Wang, M. Hesse, L. B. Wilson III, and J. Ng (2021), Electron energization by electron-only reconnection in the Earth’s quasi-parallel bow shock, *AGU Fall Meeting Abstracts*, pp. SH34B–07, Dec. 13–17, 2021, New Orleans, LA, Hybrid.
- [279] Collinson, G. A., R. Ramstad, A. Gloer, L. B. Wilson III, and A. L. Brosius (2021), Encounters with the ionosphere and tail ray of Venus by Parker Solar Probe, *AGU Fall Meeting Abstracts*, pp. SM52C–03, Dec. 13–17, 2021, New Orleans, LA, Hybrid.
- [280] Farrugia, C. J., N. Lugaz, I. G. Richardson, N. A. Al-Haddad, R. M. Winslow, E. Davies, L. B. Wilson III, and R. B. Torbert (2021), How Magnetic Reconnection Inside Coronal Mass Ejections May Affect Their Coherence, *AGU Fall Meeting Abstracts*, pp. SH35B–2053, Dec. 13–17, 2021, New Orleans, LA, Hybrid.
- [281] Fordin, S., M. A. Shay, L. B. Wilson III, and B. A. Maruca (2021), Identifying and Characterizing Waves in the Solar Wind Using Convolutional Neural Networks, *AGU Fall Meeting Abstracts*, pp. NG45B–0553, Dec. 13–17, 2021, New Orleans, LA, Hybrid.
- [282] Gopalswamy, N., T. A. Kucera, J. E. Leak, R. J. MacDowall, L. B. Wilson III, S. G. Kanekal, A. Y. Shih, S. Christe, Q. Gong, N. M. Viall, S. S. K. Tadikonda, S. F. Fung, S. Yashiro, P. Makela, L. Golub, E. DeLuca, K. Reeves, D. B. Seaton, S. Savage, A. R. Winebarger, C. DeForest, M. I. Desai, T. Bastian, J. Lazio, E. A. Jensen, W. C. Manchester, B. E. Wood, J. E. Kooi, D. B. Wexler, S. D. Bale, S. Krucker, N. E. Hurlburt, M. L. DeRosa, A. A. Pevtsov, S. C. Tripathi, K. Jain, S. Gosain, G. J. D. Petrie, S. Kholikov, J. Zhao, P. H. Scherrer, T. N. Woods, P. Chamberlin, and M. Kenny (2021), The Multiview Observatory for Solar Terrestrial Science (MOST), *AGU Fall Meeting Abstracts*, pp. SH12A–07, Dec. 13–17, 2021, New Orleans, LA, Hybrid.
- [283] Goodrich, K., S. J. Schwartz, L. B. Wilson III, R. E. Ergun, R. B. Torbert, J. L. Burch, Y. V. Khotyaintsev, P.-A. Lindqvist, F. D. Wilder, D. J. Gershman, R. J. Strangeway, and B. L. Giles (2021), Electrostatic Waves and Their Relation to Intermittent Shock Heating: An MMS Case Study, *AGU Fall Meeting Abstracts*, pp. SH25G–13, Dec. 13–17, 2021, New Orleans, LA, Hybrid.
- [284] Howes, G. G., J. Juno, C. R. Brown, C. C. Haggerty, J. M. TenBarge, D. Caprioli, A. Spitkovsky, and L. B. Wilson III (2021), Fully Exploiting 3D-3V Phase Space to Understand Plasma Heating and Particle Acceleration in Collisionless Shocks, *AGU Fall Meeting Abstracts*, pp. SH25G–20, Dec. 13–17, 2021, New Orleans, LA, Hybrid.
- [285] Jensen, E. A., W. Manchester, S. F. Fung, N. Gopalswamy, L. K. Jian, M. Kenny, J. E. Kooi, J. Lazio, L. Li, T. Nieves-Chinchilla, A. A. Pevtsov, D. B. Wexler, L. B. Wilson III, B. E. Wood, S. D. Bale, and T. Bastian (2021), Novel Magnetic Field and Electron Density Measurements of CMEs (within 1/2 AU) with the Proposed Multiview

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Observatory for Solar Terrestrial Science (MOST) Mission, *AGU Fall Meeting Abstracts*, pp. SH33A–08, Dec. 13–17, 2021, New Orleans, LA, Hybrid.

- [286] Kromyda, L., D. M. Malaspina, R. E. Ergun, J. L. Verniero, L. B. Wilson III, M. L. Stevens, J. S. Halekas, A. Chasapis, D. Vech, T. D. de Wit, S. D. Bale, J. W. Bonnell, K. Goetz, K. Goodrich, P. Harvey, R. J. MacDowall, M. P. Pulupa, D. E. Larson, R. Livi, P. L. Whittlesey, and J. C. Kasper (2021), Short Duration Electrostatic Waves with Frequency Shifts in the Solar Wind Sunward of 1/3 AU, *AGU Fall Meeting Abstracts*, pp. SH41A–08, Dec. 13–17, 2021, New Orleans, LA, Hybrid.
- [287] Kuzichev, I., I. Vasko, J. Torsiello, L. B. Wilson III, and A. Artemyev (2021), Whistler Wave Generation Around Interplanetary Shocks, *AGU Fall Meeting Abstracts*, pp. SH25G–11, Dec. 13–17, 2021, New Orleans, LA, Hybrid.
- [288] Liu, M., Z. Yang, Y. D. Liu, B. Lembege, K. Issautier, L. B. Wilson III, S. Zhao, K. Jagarlamudi, and X. Zhao (2021), Properties of A Supercritical Quasi-Perpendicular Interplanetary Shock Propagating in the Terrestrial Electron Foreshock Region, *AGU Fall Meeting Abstracts*, pp. SH25G–08, Dec. 13–17, 2021, New Orleans, LA, Hybrid.
- [289] Wilson III, L. B., A. L. Brosius, D. J. Gershman, S. J. Schwartz, H. Madanian, I. J. Cohen, D. L. Turner, and K. Goodrich (2021), Particle acceleration by nonlinear, magnetosonic-whistler precursors, *AGU Fall Meeting Abstracts*, pp. SH25G–10, Dec. 13–17, 2021, New Orleans, LA, Hybrid.
- [290] Jensen, E., N. Gopalswamy, J. Lazio, J. Kooi, S. Fung, L. K. Jian, M. Kenny, L. Li, W. Manchester, T. Nieves-Chinchilla, A. Pevtsov, D. Wexler, L. B. Wilson III, B. Wood, S. D. Bale, and T. Bastian (2022), Investigating Quiescent and Transient Magnetic Structures in the Inner Heliosphere using Faraday Rotation, the FETCH instrument on the MOST *awesome* mission Concept, *Union Radio-Scientifique Internationale General Assembly*, p. 1185, 2022 USNC-URSI National Radio Science Meeting (NRSM), Jan. 4-8, 2022, Boulder, Colorado.

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- [291] Wilson III, L. B., Cattell, C. A., Kellogg, P. J., Goetz, K., Kersten, K., Kasper, J. C., Szabo, A. & Wilber, M. Atypical Waves and Particle Heating at an Interplanetary Shock (2010). Heliophysics Science Seminar, NASA Goddard Space Flight Center, Apr. 1st, 2010.
- [292] Wilson III, L. B., Cattell, C. A., Kellogg, P. J., Goetz, K., Kersten, K., Kasper, J. C., Szabo, A. & Wilber, M. Atypical Waves and Particle Heating at an Interplanetary Shock (2010). Space Physics Seminar, University of California at Berkeley, Oct. 5th, 2010.
- [293] Cattell, C. A., Breneman, A. W., Kersten, K., Kellogg, P. J., Goetz, K., Wygant, J. R., Wilson III, L. B., Looper, M., Blake, J. B. & Roth, I. Large Amplitude Whistler Waves and Electron Energization in Earth's Radiation Belts (2011). Chapman Conference: Dynamics of the Earth's Radiation Belts and Inner Magnetosphere, July 17-22, 2011.
- [294] Wilson III, L. B., Koval, A., Szabo, A., Cattell, C. A., Breneman, A., Goetz, K., Kellogg, P. J., Kersten, K., Kasper, J. C., Maruca, B. A. & Pulupa, M. Electromagnetic lower hybrid waves, whistler waves, and particle heating/acceleration at supercritical interplanetary shocks (2011). Space Physics Seminar, University of California at Berkeley, Jul. 18th, 2011.
- [295] Wilson III, L. B., Cattell, C. A., Kellogg, P. J., Wygant, J. R., Goetz, K., Breneman, A. & Kersten, K. The properties of large amplitude whistler mode waves in the magnetosphere: propagation and relationship with geomagnetic activity (2011). RBSP SGW, Applied Physics Laboratory, Oct. 21st, 2011.
- [296] Wilson III, L. B., Koval, A., Szabo, A., Breneman, A., Cattell, C. A., Goetz, K., Kellogg, P. J., Kersten, K., Kasper, J. C., Maruca, B. A. & Pulupa, M. Observations of Electromagnetic Whistler Precursors at Supercritical Interplanetary Shocks (2012). Space Physics Seminar, University of Minnesota, Mar. 7th, 2012.
- [297] Wilson III, L. B., Koval, A., Szabo, A., Breneman, A., Cattell, C. A., Goetz, K., Kellogg, P. J., Kersten, K., Kasper, J. C., Maruca, B. A. & Pulupa, M. Observations of Electromagnetic Whistler Precursors at Supercritical Interplanetary Shocks (2012). Space Physics Seminar, Dartmouth College, May 1st, 2012.
- [298] Russell, C. T., Jian, L. K., Wei, H., Wilson III, L. B., Omid, N., Szabo, A. & Luhmann, J. G. Long-Period Investigation of Ion Cyclotron Waves in the Solar Wind at 1 AU (Invited). *AOGS-AGU (WPGM) Joint Assembly* ST29-A015 (2012). URL <http://www.asiaoceania.org/society/index.asp>. August 13-17, 2012, Singapore.
- [299] Wilson III, L. B., Koval, A., Szabo, A., Breneman, A., Cattell, C. A., Goetz, K., Kellogg, P. J., Kersten, K., Kasper, J. C., Maruca, B. A. & Pulupa, M. Observations of Electromagnetic Whistler Precursors at Supercritical Interplanetary Shocks (2012). Space Physics Seminar, University of California at Los Angeles, Sept. 28th, 2012.
- [300] Wilson III, L. B., Sibeck, D. G., Breneman, A. W., Le Contel, O., Cully, C., Turner, D. L. & Angelopoulos, V. Quantified Energy Dissipation Rates in the Terrestrial Bow

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- Shock (invited) (2013). 8th European Workshop on Collisionless Shocks, Paris, France, June 5th, 2013.
- [301] Wilson III, L. B., Koval, A., Sibeck, D. G., Szabo, A., Cattell, C. A., Kasper, J. C., Maruca, B. A., Pulupa, M., Salem, C. S. & Wilber, M. Shocklets, SLAMS, and field-aligned ion beams in the terrestrial foreshock (invited) (2013). 8th European Workshop on Collisionless Shocks, Paris, France, June 5th, 2013.
- [302] Wilson III, L. B., Koval, A., Szabo, A., Breneman, A., Cattell, C. A., Goetz, K., Kellogg, P. J., Kersten, K., Kasper, J. C., Maruca, B. A. & Pulupa, M. Observations of Electromagnetic Whistler Precursors at Supercritical Interplanetary Shocks (invited) (2013). 8th European Workshop on Collisionless Shocks, Paris, France, June 7th, 2013.
- [303] Turner, D. L., Angelopoulos, V., Omidi, N., Wilson III, L. B., Hietala, H., Kellerman, A. C. & Weygand, J. M. Foreshock bubbles and their global impacts on Earth's magnetosphere-ionosphere system (Invited). *AGU Fall Meeting Abstracts* SM13C-01 (2013). Dec. 9-13, 2013, San Francisco, CA.
- [304] Turner, D. L., Angelopoulos, V., Wilson III, L. B., Hietala, H., Omidi, N. & Masters, A. Particle acceleration during interactions between transient ion foreshock phenomena and Earth's bow shock (solicited). In *EGU General Assembly Conference Abstracts*, vol. 16 of *EGU General Assembly Conference Abstracts*, 2276 (2014). URL <http://meetingorganizer.copernicus.org/EGU2014/EGU2014-2276.pdf>. April 27 – May 2, 2014, Vienna, Austria.
- [305] Wilson III, L. B., Breneman, A. W., Cattell, C. A., Goetz, K., Kellogg, P. J., Le Contel, O., Cully, C., Turner, D. L. & Malaspina, D. M. Wave activity within the ramp of collisionless shock waves: recent results (invited). *AOGS-AGU (WPGM) Joint Assembly* ST07-A001 (2014). URL <http://www.asiaoceania.org/aogs2014/>. July 28 - August 1, 2014, Sapporo, Japan.
- [306] Wilson III, L. B. Collisionless Shock Waves and Wave-Particle Interactions (plenary). *2014 LWS Science Meeting: Evolving Solar Activity and Its Influence on Space and Earth* (2014). URL <http://lws-sdo-workshops.org>. Nov. 2–6, 2014, Portland, Oregon.
- [307] Wilson III, L. B. Collisionless shocks in the interplanetary medium (lecture). *8th Korean Astrophysics Workshop on Astrophysics* (2014). URL <http://sirius.unist.ac.kr/kaw8/>. Nov. 10–13, 2014, Jeju Island, Korea.
- [308] Wilson III, L. B. Wave-particle interactions at collisionless shock waves (invited). *8th Korean Astrophysics Workshop on Astrophysics* (2014). URL <http://sirius.unist.ac.kr/kaw8/>. Nov. 10–13, 2014, Jeju Island, Korea.
- [309] Wilson III, L. B. Quantified Energy Dissipation Rates in the Terrestrial Bow Shock. *APL Space Physics Seminar* (2014). URL <http://www.jhuapl.edu>. Nov. 17, 2014, Applied Physics Laboratory.

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- [310] Turner, D. L., Liu, Z., Angelopoulos, V., Omid, N., Wilson III, L. B., Archer, M. O., Hietala, H. & Osmane, A. Pressure variations and particle acceleration associated with foreshock bubbles and hot flow anomalies (Invited). *AGU Fall Meeting Abstracts* SM52A-04 (2014). Dec. 15-19, 2014, San Francisco, CA.
- [311] Wilson III, L. B. Particle acceleration through wave-particle interactions (invited). *Accelerating Cosmic Ray Comprehension* (2015). URL <http://www.astro.princeton.edu/acrc15/>. Apr. 13-16, 2015, Princeton Center for Theoretical Physics, Princeton, NJ.
- [312] Turner, D. L., Archer, M. O., Hietala, H., Plaschke, F., Wilson III, L. B. & Omid, N. Do magnetospheric scientists take the magnetosheath for granted? (Invited). *Unsolved Problems of Magnetospheric Physics* (2015). URL <http://spacescience.org/upmpw/>. Sep. 6-12, 2015, Scarborough, UK.
- [313] Wilson III, L. B. Particle Acceleration through Wave-Particle Interactions (invited). *Unsolved Problems of Magnetospheric Physics* (2015). URL <http://spacescience.org/upmpw/>. Sep. 6-12, 2015, Scarborough, UK.
- [314] Wilson III, L. B. Energy dissipation at the terrestrial bow shock (invited). *Cluster 25th Workshop* (2015). URL http://caa.estec.esa.int/wksp/cluster_workshop25_main.xml. Oct. 12-15, 2015, Venice, Italy.
- [315] Wilson III, L. B. Energy dissipation at the terrestrial bow shock (invited) (2016). URL <http://lasp.colorado.edu/home/about/events/magnetosphere-seminars/>. Friends of the Magnetosphere (FOM) Seminar, Mar. 29, 2016, Laboratory for Atmospheric and Space Physics (LASP) at the University of Colorado Boulder.
- [316] Wilson III, L. B., Sibeck, D. G., Turner, D. L., Osmane, A., Caprioli, D. & Angelopoulos, V. Relativistic electrons produced by foreshock disturbances (invited) (2016). URL <http://lasp.colorado.edu/home/about/events/science-seminars/>. LASP Science Seminar, Mar. 31, 2016, Laboratory for Atmospheric and Space Physics (LASP) at the University of Colorado Boulder.
- [317] Wilson III, L. B., Sibeck, D. G., Turner, D. L., Osmane, A., Caprioli, D. & Angelopoulos, V. Relativistic electrons produced by foreshock disturbances (invited) (2016). URL <https://www.princeton.edu/astro/>. Astroplasmas Seminar, Apr. 15, 2016, Department of Astrophysical Sciences, Princeton University.
- [318] Turner, D. L., T. Z. Liu, L. B. Wilson III, H. Hietala, N. Omid, and V. Angelopoulos (2016), Transient ion foreshock phenomena on Earth's dayside (invited), *ISROSES-III Meeting*, Sep. 11-16, 2016, Golden Sands, Bulgaria.
- [319] Wilson III, L. B. Gradients as Antennas: A General Wave Source. *Van Allen Probes SWG Meeting* (2016). URL http://rbspgway.jhuapl.edu/general_meetings. Oct. 26-28, 2016, Applied Physics Laboratory, Johns Hopkins University, Laurel, MD.

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- [320] Wilson III, L. B. Unexpected Discovery in Shock Acceleration: Answers to a 60 Year Old Question. *“Science in 7” Presentations* (2016). Oct. 17, 2016, Goddard Space Flight Center, Invited Presentation for the Sciences and Exploration Directorate Executive Council.
- [321] Wilson III, L. B., Sibeck, D. G., Turner, D. L., Osmane, A., Caprioli, D. & Angelopoulos, V. Relativistic electrons produced by foreshock disturbances (invited). *4th Cluster THEMIS Workshop* (2016). URL http://themis.igpp.ucla.edu/events_Cluster_THEMIS2016.shtml. Nov. 7-12, 2016, Palm Springs, CA.
- [322] Wilson III, L. B. Heliophysics Data Production and Use. *Heliophysics Director’s Seminar* (2016). Nov. 18, 2016, Goddard Space Flight Center, Presentation for the Sciences and Exploration Directorate Director.
- [323] Wilson III, L. B. Unexpected Discovery in Shock Acceleration: Answers to a 60 Year Old Question. *SMD Monthly Status Review* (2016). Dec. 8, 2016, NASA Headquarters, Invited Presentation for the Science Mission Directorate.
- [324] Wilson III, L. B., Sibeck, D. G., Turner, D. L., Osmane, A., Caprioli, D. & Angelopoulos, V. Relativistic electrons produced by foreshock disturbances (invited). *10th International Nonlinear Wave and Chaos Workshop 10* (2017). URL <http://workshops.agu.org/nonlinear-waves-chaos/welcome/>. Mar. 20–24, 2017, San Diego, CA.
- [325] Wilson III, L. B., D. G. Sibeck, D. L. Turner, A. Osmane, D. Caprioli, and V. Angelopoulos (2017), Relativistic electrons produced by foreshock disturbances observed upstream of the Earth’s bow shock (invited and highlighted by EGU), in *EGU General Assembly Conference Abstracts, EGU General Assembly Conference Abstracts*, vol. 19, p. 143, Apr. 23–28, 2017, Vienna, Austria.
- [326] Wilson III, L. B. (2017), Shock Acceleration: An Unexpected Discovery Addresses a ~60 Year Old Question, *Heliophysics Director’s Seminar*, Apr. 21, 2017, Goddard Space Flight Center, Presentation for the Sciences and Exploration Directorate Director.
- [327] Turner, D. L., S. J. Schwartz, L. B. Wilson III, A. Osmane, J. F. Fennell, J. B. Blake, A. N. Jaynes, I. Cohen, B. Mauk, D. J. Gershman, L. A. Avanov, B. L. Giles, K. Goodrich, R. J. Strangeway, R. B. Torbert, and J. L. Burch (2017), Anatomy of Hot Flow Anomaly Shocks and Their Effectiveness for Energetic Particle Acceleration (invited), *Chapman Conference: Dayside Magnetosphere Interactions*, July 10-14, 2017, Chengdu, Sichuan Province, China.
- [328] Wilson III, L. B. (2017), Relativistic electrons generated locally within transient ion foreshock phenomena, *University of Maryland Plasma Physics Seminar*, Sep. 27, 2017, University of Maryland Plasma Physics Seminar.
- [329] Chen, L.-J., S. Wang, L. B. Wilson III, S. J. Schwartz, N. Bessho, A. Le, et al. (2017), Plasma heating across quasi-perpendicular shocks observed by the MMS mission, in *APS Meeting Abstracts*, p. UM9.00004, Oct. 23–27, 2017, Milwaukee, WI.

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- [330] Wilson III, L. B. (2017), Electron acceleration by whistler waves at collisionless shocks, *2017 JSI Workshop*, Nov. 6–9, 2017, Cosmic Accelerators: Understanding Nature’s High-energy Particles and Radiation.
- [331] Wilson III, L. B., D. G. Sibeck, D. L. Turner, A. Osmane, D. Caprioli, and V. Angelopoulos (2017), Relativistic electrons produced by foreshock disturbances observed upstream of the Earth’s bow shock (invited), *The Magnetosphere New Tools, New Thinking, New Results*, Nov. 12–17, 2017, Puerto Varas, Chile.
- [332] Liu, T. Z., V. Angelopoulos, H. Hietala, S. Lu, and L. B. Wilson III (2017), Understanding of Particle Acceleration by Foreshock Transients (invited), *AGU Fall Meeting Abstracts*, pp. U22B–06, Dec. 11–15, 2017, New Orleans, LA.
- [333] Wilson III, L. B., D. G. Sibeck, D. L. Turner, A. Osmane, D. Caprioli, V. Angelopoulos, and T. Z. Liu (2017), Relativistic electrons generated locally within transient ion foreshock phenomena (invited), *AGU Fall Meeting Abstracts*, pp. SM24A–01, Dec. 11–15, 2017, New Orleans, LA.
- [334] Liu, T. Z., S. Lu, V. Angelopoulos, H. Hietala, and L. B. Wilson III (2018), Fermi Acceleration of Electrons inside Foreshock Transient Cores (invited), *Fundamental Physical Processes in Solar-Terrestrial Research and Their Relevance to Planetary Physics*, Jan. 7–13, 2018, Kona, Hawaii.
- [335] Wilson III, L. B., A. Koval, A. Szabo, M. L. Stevens, J. C. Kasper, C. A. Cattell, and V. V. Krasnoselskikh (2018), The structure of low Mach number, low beta, quasi-perpendicular shocks (invited), *Fundamental Physical Processes in Solar-Terrestrial Research and Their Relevance to Planetary Physics*, Jan. 7–13, 2018, Kona, Hawaii.
- [336] Wilson III, L. B. (2018), The Structure of Low Mach Number, Low Beta, Quasi-perpendicular Collisionless Shocks (invited), *LANL Plasma Physics Seminar*, Seminar for the Center of Space and Earth Science in Los Alamos National Laboratory, Feb. 20, 2018.
- [337] Wilson III, L. B. (2018), The Physics of Collisionless Shock Waves (invited), *Swarthmore College Physics Colloquium*, Colloquium for the Department of Physics at Swarthmore College, Apr. 13, 2018.
- [338] Turner, D. L., L. B. Wilson III, S. J. Schwartz, T. Z. Liu, A. Osmane, J. F. Fennell, J. B. Blake, T. Leonard, A. N. Jaynes, I. J. Cohen, B. Mauk, R. J. Strangeway, J. Broll, S. A. Fuselier, and J. L. Burch (2018), Evidence of autogenous first-order Fermi acceleration of energetic ions upstream of Earth’s bow shock (solicited), in *EGU General Assembly Conference Abstracts*, *EGU General Assembly Conference Abstracts*, vol. 20, p. 2857, April 8–13, 2018, Vienna, Austria.
- [339] Wilson III, L. B., A. Koval, A. Szabo, M. L. Stevens, J. C. Kasper, C. A. Cattell, and V. V. Krasnoselskikh (2018), The Structure of Low Mach Number, Low Beta, Quasi-perpendicular Collisionless Shocks (invited), *AOGS-AGU (WPGM) Joint Assembly*, pp. ST06–A002, June 3–8, 2018, Honolulu, Hawaii.

lynn.b.wilsoniii@gmail.com

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- [340] Wilson III, L. B., A. Koval, A. Szabo, M. L. Stevens, J. C. Kasper, C. A. Cattell, and V. V. Krasnoselskikh (2018), The Structure of Low Mach Number, Low Beta, Quasi-perpendicular Collisionless Shocks (invited), *COSPAR*, **42**, July 14–22, 2018, Pasadena, California.
- [341] Wilson III, L. B. (2019), Electron energy partition across interplanetary shocks near 1 AU (invited), Research Seminar, Apr. 15, 2019, Princeton Plasma Physics Laboratory, Princeton University.
- [342] Wilson III, L. B. (2019), Electron energy partition across interplanetary shocks near 1 AU (invited), *The Plasma Physics of the Magnetosphere*, on Jun. 2–7, 2019, Pollenzo, Italy.
- [343] Wilson III, L. B. (2019), Electron energy partition across interplanetary shocks near 1 AU (invited), *Ion Composition in the Sun-Earth System (ICSES): Measurements/Implications/Theory*, on Jul. 28 to Aug. 3, 2019, Durango, CO.
- [344] Wilson III, L. B. (2019), Nonthermal electron velocity distributions at interplanetary shocks near 1 AU (invited), *10th Korean Astrophysics Workshop (KAW10): Astrophysics of High-Beta Plasma in the ICM*, on Jul. 1–4, 2019, Busan, South Korea.
- [345] Bessho, N., L.-J. Chen, S. Wang, L. B. Wilson III, and M. Hesse (2019), Kinetic Physics of Magnetic Reconnection in Turbulence in the Earth’s Bow Shock (invited), *AOGS-AGU (WPGM) Joint Assembly*, pp. ST09–A007, July 28–Aug. 2, 2019, Singapore.
- [346] Bessho, N., L.-J. Chen, S. Wang, M. Hesse, and L. B. Wilson III (2019), Two-dimensional particle-in-cell simulations of magnetic reconnection and kinetic physics in the Earth’s quasi-parallel bow shock (invited), *AGU Fall Meeting Abstracts*, pp. SH21A–03, Dec. 9–13, 2019, San Francisco, CA.
- [347] Turner, D. L., T. Z. Liu, and L. B. Wilson III (2019), Foreshock Transient Phenomena Observed by the Magnetospheric Multiscale (MMS) Mission (Invited), *AGU Fall Meeting Abstracts*, pp. SM53B–02, Dec. 9–13, 2019, San Francisco, CA.
- [348] Wang, S., L.-J. Chen, N. Bessho, M. Hesse, L. B. Wilson III, et al. (2019), Magnetic reconnection observations in the bow shock transition region (invited), *AGU Fall Meeting Abstracts*, pp. SH21A–01, Dec. 9–13, 2019, San Francisco, CA.
- [349] Collinson, G., L. B. Wilson III, N. Omid, D. G. Sibeck, J. Espley, C. Fowler, D. Mitchell, J. Grebowsky, C. Mazelle, S. Ruhunusiri, J. Halekas, R. Frahm, T. Zhang, Y. Futaana, and B. Jakosky (2020), Solar Wind induced waves in the skies of Mars: Ionospheric compression, energization, and escape resulting from the impact of ultra-low frequency magnetosonic waves generated upstream of the Martian bow shock (invited), in *EGU General Assembly Conference Abstracts*, vol. 22, p. 1966, May 3–8, 2020, Vienna, Austria.
- [350] Wilson III, L. B. (2020), The Solar Wind, *Magnetosphere Online Seminar Series*, on May 4, 2020.

lynn.b.wilsoniii@gmail.com

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List of Refereed Publications

Lynn B. Wilson III

- [351] Wilson III, L. B. (2020), Particle Energization at Collisionless Shock Waves (invited), *Astrophysical and Planetary Sciences Colloquium*, colloquium for the Department of Astrophysical and Planetary Sciences at University of Colorado Boulder, Oct. 5, 2020.
- [352] Wilson III, L. B. (2020), The discrepancy between simulation and observation of electric fields in collisionless shocks, *MMS FALL 2020 Science Working Team Meeting*, on Oct. 6–8, 2020, Virtual Meeting.
- [353] Wilson III, L. B. (2020), Energy partition at interplanetary shocks, *Solar Orbiter Working Group: Shocks and Particle Energisation*, on Oct. 26, 2020, Virtual Meeting.
- [354] Wilson III, L. B. (2020), The nonequilibrium solar wind electrons: Why care?, *Helio-physics Director's Seminar*, Nov. 20, 2020, Goddard Space Flight Center, Presentation for the Sciences and Exploration Directorate Director.
- [355] Madanian, H., M. I. Desai, J. L. Burch, S. A. Fuselier, L. B. Wilson III, O. Le Contel, S. J. Schwartz, D. L. Turner, N. Omid, K. Ogasawara, R. E. Ergun, N. Ahmadi, C. Russell, D. J. Gershman, and P.-A. Lindqvist (2020), The Dynamics of High Mach Number Quasi-Perpendicular Shocks, *AGU Fall Meeting Abstracts*, pp. SH047–02, Dec. 7–11, 2020, San Francisco, CA, Virtual.
- [356] Wang, S., L.-J. Chen, N. Bessho, M. Hesse, L. B. Wilson III, R. E. Denton, J. Ng, B. L. Giles, R. B. Torbert, and J. L. Burch (2020), Magnetic reconnection observed at Earth's bow shock (Invited), *AGU Fall Meeting Abstracts*, pp. SM038–01, Dec. 7–11, 2020, San Francisco, CA, Virtual.
- [357] Wilson III, L. B. (2021), Particle Energization at Collisionless Shock Waves (invited), *Space Plasma Physics Seminar*, Space Plasma Physics Seminar for the Department of Physics and Astronomy at Rice University, Feb. 16, 2021.
- [358] Chen, L.-J., N. Bessho, S. Wang, M. Hesse, L. B. Wilson III, and J. Ng (2021), Magnetic reconnection and kinetic waves in the Earth's quasi-parallel bow shock, *Features in Plasma Physics Webinar*, on February 26, 2021.
- [359] Wilson III, L. B. (2021), Particle Energization at Collisionless Shock Waves (invited), *Monthly Meeting of the National Capital Astronomers*, Presentation for the Monthly Meeting of the National Capital Astronomers (virtual) on Oct. 9, 2021.
- [360] Wilson III, L. B., A. L. Brosius, D. J. Gershman, S. J. Schwartz, H. Madanian, I. J. Cohen, D. L. Turner, and K. Goodrich (2021), MMS Observations of nonlinear whistler precursor particle acceleration, in *APS Meeting Abstracts*, p. CM10.00001, 63rd Annual Meeting of the APS Division of Plasma Physics, Nov. 8–12, 2021.