

DR. ENRICO LANDI

Personal and Contact Information

Born: June 21, 1971; Firenze, Italy
Citizenship: USA, Italy
Address: Department of Climate and Space Sciences and Engineering
University of Michigan
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Research Interests

- 1 - Solar physics
- 2 - X-ray, EUV, UV spectroscopy
- 3 - Spectral codes
- 4 - Spectroscopic diagnostic techniques
- 5 - Atomic physics

Academic Employment

2016-pres.: Professor, University of Michigan, Ann Arbor MI (USA)
2014-2016: Research Scientist, University of Michigan, Ann Arbor MI (USA)
2010-2013: Associate Research Scientist, University of Michigan, Ann Arbor MI (USA)
2009-2010: Astrophysicist, Naval Research Laboratory, Washington, DC (USA)
2000-2009: Research Physicist at ARTEP, Inc., at Naval Research Laboratory, Washington, DC (USA)
1999-2000: Post-Doc at the Max-Planck-Institut für Aeronomie, Katlenburg-Lindau, Germany
1999: Contractor, University of Florence, Italy
1998: Visitor at the Department of Applied Mathematics and Theoretical Physics, University of Cambridge, Cambridge, UK
1995-1998: Ph.D. Contractor, University of Florence, Italy
1995: Research Scientist, Universities Space Research Association, at Naval Research Laboratory, Washington, DC (USA)

Publications at-a-glance (as of March 13, 2018)

Books: 1
Peer-reviewed journals: 194 (published) 2 (submitted)
Non-reviewed literature: 122
Seminars and invited talks: 53
H-index (Google scholar): 37

Awards

- 2014 University of Michigan Research Faculty Achievement Award
- 2012 UM/CoE Kenneth M. Reese Outstanding Research Scientist Award
- 2010 UK Royal Astronomical Society - Group Achievement Award for Geophysics
- 2007 NASA - Group Achievement Award

Grants awarded

Total amount awarded	NASA, NSF, US Air Force	\$8.5M
Awarded as PI	NASA, NSF	\$2.6M

NASA contracts awarded: (since 2001, first year of eligibility)

1. W10,232
2. NNH04AA12I
3. NNG04ED07P
4. NNH06CD24C
5. NNG06EA14I
6. NNH07AG63I
7. NNX08AG46G
8. NNX10AM17G
9. NNX10AQ58G
10. NNX11AC20G
11. NNX11AC20G-S01
12. NNX13AG22G
13. NNX13AG25G
14. NNX13AG54G
15. NNX15AB73G
16. NNX15AF33G
17. NNX15AF25G
18. NNX16AH01G
19. NNX17AD37G
20. Sunrise

NSF contracts awarded: (since 2010, first year of eligibility)

1. AGS-1154443
2. AGS-1255704
3. AGS-1322543
4. AGS-1358268
5. AGS-1408789
6. AGS-1460170
7. AGS-1621686

Other contracts awarded:

1. FA9453-13-M-0063 Small Business Technology Transfer

Student mentoring

Ph.D. students:

Past:	Dr. Rona Oran	(now MIT)	Co-Chair	5 articles
	Mr. Mark Stakhiv	(now private company)	Co-Chair	2 articles
	Dr. Jacob Gruesbeck	(now NASA/GSFC)	Collaborator	6 articles
	Dr. Meng Jin	(now Lockheed)	Collaborator	2 articles
	Dr. Robert Alexander	(now U.Mich.)	Collaborator	1 article
	Dr. Zhenguang Huang	(now U.Mich.)	Collaborator	1 article
Current:	Ms. Judit Szente		Co-Chair	1 article
	Mr. Manan Kocher		Co-Chair	4 articles
	Ms. Yeimy Rivera		Co-Chair	
	Ms. Carolyn Wendeln		Chair	1 article
	Mr. Tong Shi		Chair	
	Mr. Federico Nuevo		Collaborator	3 articles
	Ms. Luisa Capannolo		Collaborator	1 article
Ms. Cecilia MacCormack		Collaborator	1 article	

Undergraduate students:

Past:	Mr. Hussein Al-Sabbahi	(U.Mich. student)	UROP advisor	
	Dr. Rex Allen	(unknown)	MS advisor	1 article
	Dr. Daniele Gianetti	(Nokia, Finland)	Advisor	1 article

Total peer-reviewed articles involving students: 22

(some articles involve more than a student)

Teaching

Courses	Semester	Q1	Q2	Q3	Q4
CLASP 747	F16	4.72	4.92	4.92	3.33
CLASP 532	W17	3.92	4.25	4.42	4.00
CLASP 590	W17				
CLASP 747	F17	5.00	5.00	5.00	4.50
CLASP 380	F17	5.00	5.00	5.00	4.50
CLASP 747	W18				
CLASP 405	W18				

Guest lectures

AOSS 598	<i>Remote sensing diagnostics of the solar wind</i>	18 Jan 2013
NERS 577	<i>Spectroscopy of the solar corona</i>	5 Dec 2013
AOSS 597	<i>Plasma diagnostics of coronal plasmas</i>	3 Nov 2014
NERS 577	<i>Spectroscopy of the solar corona</i>	15 Oct 2015

University of Michigan Service

CLaSP Dept. committees:

Honor and awards committee (2015-present)	Chair
Qualifying exam committee (2017-present)	member
Executive committee (2012-2014)	member
Qualifying exam committee (2012-2014)	member
Promotion committee (2017, Jim Raines)	Chair
Promotion committee (2015, Shasha Zou)	member

CoE committees:

Honors and Awards committee (2017-present)	member
Honors and Awards committee (2012-2014)	member

UM committees:

Academic Affairs Advisory Committee (2017-present)	member
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Professional Service

Referee for:

- 1 - Living Reviews of Solar Physics
- 2 - The Astrophysical Journal
- 3 - Astronomy & Astrophysics
- 4 - Solar Physics
- 5 - Atomic Data and Nuclear Data Tables
- 6 - Nuclear Instruments and Methods in Physics Research
- 7 - Journal of atmospheric and solar-terrestrial physics
- 8 - Publications of Astronomical Society of Japan
- 9 - Annales Geophysicae
- 10 - Fusion Science and Technology
- 11 - Annals of the New York Academy of Sciences
- 12 - NASA review panels
- 13 - NASA mail-in reviewer
- 14 - NSF mail-in reviewer

National committees:

- COSMO Observatory Steering Committee - Chair (2013-)
- DKIST Science Working Group - Member (2017-)

Entrepreneurial activities

Founder of **Cito Solution LLC**, registered in the State of Michigan.

Consultant for Chora Capital, a Hedge Fund based in Boulder, CO.

Education

1995-1998: Ph.D. in Astronomy, University of Florence, Italy.

1990-1994: Physics Degree, University of Florence, Italy.
Final Mark: 110/110 *cum laude*.

1985-1990: Liceo Scientifico "Leonardo da Vinci", Firenze, Italy.

Dr. Enrico Landi - List of Publications

(Student co-authors are underlined>

Books

1. Phillips, K.J.H., Feldman, U., **Landi, E.**
Ultraviolet and X-ray Spectroscopy of the Solar Atmosphere
Cambridge Astrophysics Series 44
2008, Cambridge University Press, Cambridge, UK
ISBN-13: 9780521841603
<http://www.cambridge.org/catalogue/catalogue.asp?isbn=9780521841603>

Papers Published on Refereed Journals

1. Dere, K.P., **Landi, E.**, Mason, H.E., Monsignori Fossi, B.C., Young, P.R., *CHIANTI - A database for EUV emission lines - Paper I. Wavelengths greater than 50 Å*, 1997, A&ASS, 125, 149
2. **Landi, E.**, Landini, M., Del Zanna, G., *The EUV spectrum of Kappa Cet: an Active Sun*, 1997, A&A, 324, 1027
3. **Landi, E.**, Landini, M., *Simultaneous density and temperature diagnostics of optically thin plasmas*, 1997, A&A, 327, 1230
4. **Landi, E.**, Landini, M., Pike, C.D., Mason, H.E., *SOHO-CDS in-flight intensity calibration using a plasma diagnostic method*, 1997, Solar Physics, 175, 553
5. Young, P.R., **Landi, E.**, Thomas, R.J., *CHIANTI - A database for EUV emission lines - Paper II: Comparison with the SERTS-89 Active Region Spectrum*, 1998, A&A, 329, 291
6. **Landi, E.**, Landini, M., *Temperature and density diagnostics of quiet Sun and active regions observed with CDS NIS*, 1998, A&A, 340, 265
7. **Landi, E.**, Landini, M., *The Arcetri Spectral Code for thin plasmas*, 1998, A&ASS, 133, 411
8. **Landi, E.**, Del Zanna, G., Landini, M., Bromage, B.I.J., Breeveld, E., Pike, C.D., *Relative intensity calibration of CDS-GIS detectors on SOHO using a plasma diagnostic technique*, 1999, A&ASS, 135, 171
9. **Landi, E.**, Landini, M., Dere, K.P., Young, P.R., Mason, H.E., *CHIANTI - A database for EUV emission lines - Paper III: Continuum radiation and extension of the ion database*, 1999, A&ASS, 135, 339
10. Brooks, D.H., Fischbacher, G., Fludra, A., Harrison, R., Innes, D., Lang, J., **Landi, E.**, Landini, M., Lanzafame, A., Loch, S., McWhirter, R.W.P., Summers, H.P., Thompson, W., *The quiet Sun extreme ultraviolet spectrum observed in normal incidence by the SOHO Coronal Diagnostic Spectrometer*, 1999, A&A, 347, 277
11. **Landi, E.**, Landini, M., *Radiative losses of optically thin coronal plasmas*, 1999, A&A, 347, 401
12. Chiuderi Drago, F., **Landi, E.**, Fludra, A., Kerdraon, A., *EUV and radio observations of an equatorial coronal hole*, 1999, A&A, 348, 261
13. Drago-Chiuderi, F., Kerdraon, A., **Landi, E.**, Fludra, A., *EUV and radio observations of an equatorial Coronal Hole*, 1999, Sp.Sci.Rev., 87, 141

14. **Landi, E.**, Mason, H.E., Landini, M., *Observation of Transition Region fine structures with SOHO-SUMER*, 1999, Sp.Sci.Rev., 87, 241
15. Landini, M., Brković, A., **Landi, E.**, Ruedi, I., Solanki, S., *Loop models from SOHO observations*, 1999, Sp.Sci.Rev., 87, 245
16. Mason, H.E., **Landi, E.**, Pike, C.D., Young, P.R., *Electron density and temperature structure of a limb active region observed by SOHO-CDS*, 1999, Solar Physics, 189, 129
17. Brooks, D.H., Fischbacher, G., Fludra, A., Harrison, R., Innes, D., Lang, J., **Landi, E.**, Landini, M., Lanzafame, A., Loch, S., McWhirter, R.W.P., Summers, H.P., Thompson, W., *A study of opacity in SOHO-SUMER and SOHO-CDS spectral observations*, 2000, A&A, 357, 697
18. **Landi, E.**, Mason, H.E., Lemaire, P., Landini, M., *SUMER Observations of Transition Region Fine Structures*, 2000, A&A, 357, 743
19. Allen, R., **Landi, E.**, Landini, M., Bromage, G.E., *An empirical test of different ionization balance calculations in an isothermal solar plasma*, 2000, A&A, 358, 332
20. Curdt, W., **Landi, E.**, Wilhelm, K., Feldman, U., *Wavelength measurements of Helium-like $1s2s\ ^3S_1 - 1s2p\ ^3P_{0,2}$ transitions in Ne^{8+} , Na^{9+} , Mg^{10+} and Si^{12+} emitted by solar flares*, 2000, Phys.Rev.A, 62, 022502
21. Gianetti, D., **Landi, E.**, Landini, M., *The effect of different ion fraction datasets on plasma diagnostics*, 2000, A&A, 360, 1148
22. Pauluhn, A., Solanki, S.K., Rüedi, I., **Landi, E.**, Schühle, U., *Statistics of quiet Sun extreme ultraviolet intensities*, 2000, A&A, 362, 737
23. Brosius, J.W., Thomas, R.J., Davila, J.M., **Landi, E.**, *Analysis of a solar active region EUV spectrum from SERTS-97*, 2000, ApJ, 543, 1016
24. Feldman, U., Curdt, W., **Landi, E.**, Wilhelm, K., *Identification in the 500 Å-1600 Å spectral range of highly ionized Ne, Na, Mg, Ar, K, Ca, Ti, Cr, Mn, Fe, Co and Ni lines emitted by flares ($T_e \geq 3 \times 10^6$ K) and their potential use in plasma diagnostics*, 2000, ApJ, 544, 508
25. Mohan, A., Dwivedi, B.N., **Landi, E.**, *Density and temperature measurements and abundance anomalies in the Solar Atmosphere*, 2000, J.Astrophys.Astr., 21, 407
26. Mohan, A., **Landi, E.**, Dwivedi, B.N., *FIP effect measurements in the off-limb corona observed by SUMER on SOHO*, 2000, A&A, 364, 835
27. Binello, A.M., **Landi, E.**, Mason, H.E., Storey, P.J., Brosius, J.W., *A comparison between theoretical and solar FeXII UV line intensity ratios*, 2001, A&A, 370, 1071
28. Dere, K.P., **Landi, E.**, Young, P.R., Del Zanna, G., *CHIANTI - An atomic database for emission lines. Paper IV: Extension to X-Ray Wavelengths*, 2001, ApJS, 134, 331
29. **Landi, E.**, Doron, R., Feldman, U., Doschek, G.A., *Intensity Ratios Between the $2s^2\ ^1S_0-2s2p\ ^3P_1$ and $2s2p\ ^1P_1-2p^2\ ^1D_2$ transitions in Be-Like Ions as Electron Temperature Indicators for Solar Upper Atmosphere Plasmas*, 2001, ApJ, 556, 912
30. Del Zanna, G., Bromage, B.J.I., **Landi, E.**, Landini, M., *Solar EUV spectroscopic observations with the SOHO/CDS instrument. I - An in-flight calibration study*, 2001, A&A, 379, 708
31. Raymond, J.C., Mazur, J.E., Allegrini, F., Antonucci, E., Del Zanna, G., Giordano, S., Ho, G., Ko, Y.-K., **Landi, E.**, Lazarus, A., Parenti, S., Poletto, G., Reinard, A., Rodriguez-Pacheco, J., Teriaca, L., Wurz, P., Zangrilli, L., *Coronal and Solar Wind Elemental Abundances*, 2001, American Institute of Physics, CP 598, 49
32. **Landi, E.**, *Fe XIII line intensities in solar plasmas observed by SERTS*, 2002, A&A, 382, 1106
33. Landini, M., **Landi, E.**, *Models for solar magnetic loops - Paper I: A simple theoretical model and the diagnostic procedure*, 2002, A&A, 383, 653

34. Brković, A., **Landi, E.**, Landini, M., Rüedi, I., Solanki, S.K., *Models for solar magnetic loops – Paper II: Comparison with SOHO observations on the solar disk*, 2002, A&A, 383, 661
35. **Landi, E.**, Feldman, U., Dere, K.P., *CHIANTI – An Atomic Database For Emission Lines. Paper V: Comparison with an isothermal spectrum observed with SUMER*, 2002, ApJS, 139, 281
36. **Landi, E.**, Landini, M., *the Arcetri Spectral Code for optically thin plasmas*, 2002, A&A, 384, 1124
37. Chiuderi Drago, F., **Landi, E.**, *The prominence- and the filament-corona transition region: is there any difference?*, 2002, Solar Physics, 206, 315
38. Brosius, J.W., **Landi, E.**, Cook, J.W., Newmark, J.S., Gopalswamy, N., Lara, A., *Measurements of Three-Dimensional Coronal Magnetic Fields from Coordinated Extreme-Ultraviolet and Radio Observations of a Solar Active Region*, 2002, ApJ, 574, 453
39. **Landi, E.**, Feldman, U., Dere, K.P., *A Comparison between Coronal Emission Lines from an Isothermal Spectrum observed with CDS and CHIANTI Emissivities*, 2002, ApJ, 574, 495
40. Mason, H.E., Del Zanna, G., Dere, K.P., **Landi, E.**, Landini, M., Young, P.R., *The CHIANTI atomic database and instrument calibration: a symbiosis*, 2002, ISSI scientific reports, 271
41. Young, P.R., Del Zanna, G., **Landi, E.**, Dere, K.P., Mason, H.E., Landini, M., *CHIANTI - An atomic database for emission lines. Paper VI: proton rates and other improvements*, 2003, ApJS, 144, 135
42. **Landi, E.**, Feldman, U., Innes, D.E., Curdt, W., *Mass motions and plasma properties in the 10^7 K post-flare solar corona*, 2003, ApJ, 582, 506
43. Mohan, A., **Landi, E.**, Dwivedi, B.N., *On the EUV Plasma Diagnostics For Nitrogen-like Ions From Spectra Obtained By SUMER/SOHO*, 2003, ApJ, 582, 1162
44. Bhatia, A.K., **Landi, E.**, *Atomic Data and Spectral Line Intensities for SiVII*, 2003, ApJ, 585, 587
45. Feldman, U., **Landi, E.**, Curdt, W., *Non-thermal Mass Motions Within the High Temperature Plasmas Above a Complex Active Region*, 2003, ApJ, 585, 1087
46. Bhatia, A.K., **Landi, E.**, Mason, H.E., *Atomic Data and Spectral Line Intensities for NiXXI*, 2003, ADNDT, 83, 71
47. Bhatia, A.K., Thomas, R.J., **Landi, E.**, *Atomic Data and Spectral Line Intensities for NeIII*, 2003, ADNDT, 83, 113
48. Phillips, K.J.H., Sylwester, J., Sylwester, B., **Landi, E.**, *Solar flare abundances of Potassium, Argon and Sulphur*, 2003, ApJL, 589, L113
49. **Landi, E.**, Chiuderi Drago, F., *Solving the discrepancy between the EUV and radio observations of the quiet Sun*, 2003, ApJ, 589, 1054
50. **Landi, E.**, Bhatia, A.K., *Atomic Data and Spectral Line Intensities for CaVII*, 2003, ApJ, 589, 1075
51. Parenti, S., **Landi, E.**, Bromage, B.J.I., *SOHO - ULYSSES Spring 2000 Quadrature: CDS and SUMER Results*, 2003, ApJ, 590, 519
52. **Landi, E.**, Feldman, U., *Properties of solar plasmas near solar maximum above two quiet region at distances of $1.02-1.34 R_{\odot}$* , 2003, ApJ, 592, 607
53. Bhatia, A.K., **Landi, E.**, *Atomic data and spectral line intensities for Sx*, 2003, ApJS, 147, 409
54. Feldman, U., **Landi, E.**, Doschek, G.A., Dammasch, I., Curdt, W., *Free-free emission in the FUV spectral range, a resource for diagnosing high density astrophysical plasmas*, 2003, ApJ, 593, 1226
55. Bhatia, A.K., **Landi, E.**, *Atomic Data and Spectral Line Intensities for SiX*, 2003, ADNDT, 85, 169
56. **Landi, E.**, Bhatia, A.K., *Atomic Data and Spectral Line Intensities for SXI*, 2003, ApJ, 149, 251
57. Bhatia, A.K., **Landi, E.**, *Atomic Data and Spectral Line Intensities for SiVIII*, 2003, ADNDT, 85, 317

58. **Landi, E.**, Storey, P.J., Zeippen, C.J., *Atomic data and spectral line intensities for Ca VIII*, 2004, ApJ, 607, 640
59. Feldman, U., **Landi, E.**, Curdt, W., *Newly identified forbidden transition within the ground configuration of P, Cl, K and Co ions*, 2004, ApJ, 607, 1039
60. **Landi, E.**, Landini, M., *Models for solar magnetic loops. III. Dynamic models and CDS observations*, 2004, ApJ, 608, 1133
61. Feldman, U., Dammasch, I., **Landi, E.**, Doschek, G.A., *Observations indicating that 10^7 K solar flare plasmas may be produced in situ from 10^6 K coronal plasma*, 2004, ApJ, 609, 439
62. **Landi, E.**, Feldman, U., *Models for solar magnetic loops. IV: On the relation between coronal and footpoint plasma in active region loops*, 2004, ApJ, 611, 537
63. Curdt, W., **Landi, E.**, Feldman, U., *The SUMER spectral atlas of solar coronal features*, 2004, A&A, 427, 1045
64. **Landi, E.**, Landini, M., *Models for solar magnetic loops. V. A new diagnostic technique to compare loop models and observations*, 2005, ApJ, 618, 1039
65. Feldman, U., **Landi, E.**, Laming, J.M., *Helium abundance in high temperature solar flare plasmas*, 2005, ApJ, 619, 1142
66. Widing, K.G., **Landi, E.**, Feldman, U., *Coronal Element Comparison Observed by SOHO/SUMER in the Quiet Southeast and Northwest Limb Regions at $1.05 R_{sun}$ Above the Solar Disk*, 2005, ApJ, 622, 1211
67. **Landi, E.**, *Radiative transition probabilities in the O-like sequence*, 2005, A&A, 434, 365
68. **Landi, E.**, Bhatia, A.K., *Atomic Data and Spectral Line Intensities for Ne III*, 2005, ADNDT, 89, 139
69. Eissner, W., **Landi, E.**, Bhatia, A.K., *Atomic Data and Spectral Line Intensities for Ar XII*, 2005, ADNDT, 89, 195
70. Phillips, K.J.H., Chifor, C., **Landi, E.**, *The temperature response of the TRACE 171 Å and 195 Å filters*, 2005, ApJ, 626, 1110
71. Feldman, U., **Landi, E.**, Schwadron, N.A., *On the sources of fast and slow solar wind*, 2005, JGR, 110, A07109
72. **Landi, E.**, Phillips, K.J.H., *Spectral atlas of X-ray lines emitted during solar flares based on CHIANTI*, 2005, ApJS, 160, 286
73. Feldman, U., **Landi, E.**, Doschek, G.A., Mariska, J.T., *A new method for in-flight intensity calibration of high-resolution EUV and FUV spectrometers*, 2005, A&A, 441, 1211
74. Brosius, J.W., **Landi, E.**, *Properties of a Sunspot Plume Observed With CDS*, 2005, ApJ, 632, 1196
75. **Landi, E.**, Bhatia, A.K., *Atomic Data and Spectral Line Intensities for Ca XIV*, 2005, ADNDT, 90, 177
76. **Landi, E.**, Bhatia, A.K., *Atomic Data and Spectral Line Intensities for Ca XIII*, 2005, A&A, 444, 305
77. **Landi, E.**, Bhatia, A.K., *Atomic Data and Spectral Line Intensities for Mg V*, 2006, ADNDT, 92, 105
78. **Landi, E.**, Del Zanna, G., Young, P.R., Dere, K.P., Mason, H.E., Landini, M., *CHIANTI - An atomic database for Emission Lines. VII. New data for X-rays and other improvements*, 2006, ApJS, 162, 261
79. **Landi, E.**, Gu, M.F., *Atomic data for high energy configurations in Fe XVII-XXIII*, 2006, ApJ, 640, 1171
80. **Landi, E.**, Bhatia, A.K., *Atomic Data and Spectral Line Intensities for Ar XI*, 2006, ADNDT, 92, 305
81. **Landi, E.**, Feldman, U., Doschek, G.A., *Plasma diagnostics of the large-scale corona with SUMER. I - measurements at the west limb*, 2006, ApJ, 643, 1258
82. Kucera, T.A., **Landi, E.**, *UV observations of prominence activation and cool loop dynamics*, 2006, ApJ, 645, 1525

83. **Landi, E.**, Phillips, K.J.H., *CHIANTI - an atomic database for emission lines - Paper VIII: Comparison with solar flare spectra from SMM/FCS*, 2006, ApJS, 166, 421
84. Feldman, U., **Landi, E.**, Doschek, G.A., *Critical datasets for benchmarking atomic codes: calibrated line intensities emitted by well-diagnosed solar plasmas*, 2006, High Energy Density Physics, 2, 104
85. **Landi, E.**, Bhatia, A.K., *Atomic Data and Spectral Line Intensities for Mg VI*, 2007, ADNDT, 93, 1
86. Bhatia, A.K., **Landi, E.**, *Atomic Data and Spectral Line Intensities for Si XI*, 2007, ADNDT, 93, 275
87. **Landi, E.**, Feldman, U., Doschek, G.A., *Neon and Oxygen absolute abundances in the solar corona*, 2007, ApJ, 659, 743
88. Feldman, U., **Landi, E.**, Doschek, G.A., *Diagnostics of suprathermal electrons in active region plasmas using He-like UV lines*, 2007, ApJ, 660, 1674
89. **Landi, E.**, *Ion temperatures in the quiet solar corona*, 2007, ApJ, 663, 1363
90. Bhatia, A.K., **Landi, E.**, *Atomic Data and Spectral Line Intensities for Mg IX*, 2007, ADNDT, 93, 742
91. **Landi, E.**, *Continuum emission in the 1-2000 Å range*, 2007, A&A, 476, 675
92. Spadaro, D., Susino, R., Ventura, R., Vourlidas, A., **Landi, E.**, *SOHO investigation of physical parameters in a mid-latitude streamer observed during the decay phase of the solar activity cycle*, 2007, A&A, 475, 707
93. Young, P.R., Del Zanna, G., Mason, H.E., Dere, K.P., **Landi, E.**, Landini, M., Doschek, G.A., Brown, C.M., Culhane, J.L., Harra, L.K., Watanabe, T., & Hara, H., *EUV emission lines and diagnostics observed with Hinode/EIS*, 2007, PASJ, 59, S857
94. **Landi, E.**, Bhatia, A.K., *Atomic Data and Spectral Line Intensities for S XIII*, 2008, ADNDT, 94, 1
95. **Landi, E.**, Feldman, U., *The thermal structure of an active region observed outside the solar disk*, 2008, ApJ, 672, 674
96. Kucera, T.A., **Landi, E.**, *Observation of low level heating in an erupting prominence* 2008, ApJ, 673, 611
97. Bhatia, A.K., **Landi, E.**, *Atomic Data and Spectral Line Intensities for Ar XV*, 2008, ADNDT, 94, 223
98. Feldman, U., **Landi, E.**, *The temperature structure of solar coronal plasmas* 2008, Physics of Plasmas, 15, 056501
99. Feldman, U., Seely, J.F., **Landi, E.**, Ralchenko, Yu. *Bright EUV lines emitted by highly ionized tungsten ions as diagnostic indicators of the tungsten transport in ITER core plasmas ($T_e > 7$ keV)*, 2008, Nuclear Fusion, 48, 045004
100. **Landi, E.**, Chiuderi Drago, F., *The quiet Sun DEM from radio and UV measurements* 2008, ApJ, 675, 1629
101. Brosius, J.W., Rabin, D.M., Thomas, R.J., **Landi, E.**, *Analysis of a solar bright point extreme-ultraviolet spectrum from the EUNIS sounding rocket instrument*, 2008, ApJ, 677, 781
102. Feldman, U., **Landi, E.**, Doschek, G.A., *Line intensity ratios in the EIS range sensitive to electron densities in 10^7 K plasmas*, 2008, ApJ, 679, 843
103. Sylwester, J., Sylwester, B., **Landi, E.**, Phillips, K.J.H., Kutnetsov, V.D., *Determination of K, Ar, Cl, S, Si and Al flare abundances from RESIK soft X-ray spectra*, 2008, Adv. Sp. Res., 42, 838
104. Sylwester, B., Sylwester, J., Phillips, K.J.H., **Landi, E.**, *He-like triplets observed by RESIK*, 2008, Adv. Sp. Res., 42, 833
105. Susino, R., Ventura, R., Spadaro, D., Vourlidas, A., **Landi, E.**, *Physical parameters along the boundaries of a mid-latitude streamer and in its adjacent region* 2008, A&A, 488, 303

106. Feldman, U., Ralchenko, Yu., **Landi, E.**, *Non-thermal electron measurements in solar flares with Hinode/EIS* 2008, ApJ, 684, 707
107. **Landi, E.**, *The thermal structure of an off-disk polar coronal hole* 2008, ApJ, 685, 1270
108. **Landi, E.**, Cranmer, S.R., *Ion Temperatures in the Low Solar Corona: Polar Coronal Holes at Solar Minimum* 2009, ApJ, 691, 794
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57. **Landi, E.**, Feldman, U., Doschek, G.A., 2006, *Plasma diagnostics of the large-scale corona with SUMER*, proceedings of *SOHO 17- 10 years of SOHO and beyond*, ESA SP-617
58. Kucera, T.A., **Landi, E.**, 2006, *Prominence and Cool Loop Energetic Measured In The UV*, proceedings *SOHO 17- 10 years of SOHO and beyond*, Giardini Naxos, Italy, May 7-12, 2006
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66. Feldman, U., Seely, J.F., **Landi, E.**, Ralchenko, Y., *An EUV narrow band imaging technique for diagnosing 10-30 KeV ITER plasmas* poster at the *International Conference on burning plasma diagnostics*, Villa Monastero, Varenna, Italy, September 24-28, 2007
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70. Testa, P., **Landi, E.**, *Diagnostics of the thermal structure of off-disk quiet Sun plasma*, Poster at the 2008 AGU Joint Assembly, Fort Lauderdale, Florida, May 27-30, 2008
71. Kucera, T.A., **Landi, E.**, *Analysis of EUV, UV and H- α emission from two very different prominences*, Poster at the 2008 AGU Joint Assembly, Fort Lauderdale, Florida, May 27-30, 2008
72. Muglach, K., **Landi, E.**, Doschek, G.A., *The electron temperature of the solar transition region*, Abstract/Talk at the 2008 AGU Joint Assembly, Fort Lauderdale, Florida, May 27-30, 2008

73. Feldman, U., **Landi, E.**, Doschek, G.A., Seely, J.F., & Dammasch, I., *A proposed new method for the determination of the solar irradiance at $\lambda < 1200 \text{ \AA}$* , 37th COSPAR Scientific Assembly. Held 13-20 July 2008, in Montreal, Canada, p.866
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77. **Landi, E.**, Raymond, J.C., Miralles, M.P., Hara, H., *Physical conditions in a CME from Hinode, STEREO and SOHO observations* 2010, AIP Conference Proceedings Series, 428, 201
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79. Hahn, M., Savin, D.W., **Landi, E.**, Bryans, P., Miralles, M.P., *Properties of the Solar Corona above a Polar Coronal Hole during the Recent Solar Minimum* 2010, SPD meeting, Miami, Fl, May 23-27, 2010
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81. Hahn, M., Savin, D.W., **Landi, E.**, *Differential Emission Measure Analysis of a Polar Coronal Hole during the Recent Solar Minimum*, poster at 2011, SPD meeting, Las Cruces, NM, June 12-16 2011
82. Alexander, R.L., Gilbert, J.A., **Landi, E.**, Simoni, M., & Zurbuchen, T.H. *Audification as a diagnostic tool for exploratory heliospheric data analysis*, proceedings of the 17th International Conference on Auditory Display (ICAD-2011), Budapest, Hungary, June 20-24, 2011
83. Meng J., Manchester, W.B., van der Holst, B., Gruesbeck, J.R., Frazin, R.A., **Landi, E.**, Vazquez, A.M., Lamy, P.L., Llebaria, A., Fedorov, A., Toth, G., & Gombosi, T.I. *A global two-temperature corona and inner heliosphere model: a validation study*, poster at the 2011 SHINE Conference, Snowmass, CO, July 11-15, 2011
84. **Landi, E.**, Alexander, R.L., Gruesbeck, J.R., Gilbert, J.A., Lepri, S.T., Manchester, W.B., & Zurbuchen, T.H. *Carbon Ionization Stages as a diagnostic of the solar wind* poster at the 2011 SHINE Conference, Snowmass, CO, July 11-15, 2011
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88. Hahn, M., Savin, D.W., **Landi, E.**, *Differential Emission Measure analysis of a polar coronal hole during the recent solar minimum*, 2011 SPD meeting, Las Cruces, NM, June 12-16, 2011
89. McLaughlin, B.M., Teck-Ghee L., Ludlow, J.A., **Landi, E.**, Loch, S.D., Pindzola, M.S., & Ballance, C.P., *Electron-impact excitation of the Ne^{2+} O-like ion* poster at the XXVII international conference on photonic, electronic and atomic collisions, Belfast, Northern Ireland, Jul 27-Aug 2, 2011
90. Miralles, M.P. **Landi, E.**, Cranmer, S.R., Raymond, J.C., *Characterization of solar wind sources*, AGU Fall Meeting, San Francisco, Ca, USA December 5-9, 2011
91. T.A. Kucera, S.E. Gibson, D.J. Schmit, **E. Landi**, D. Tripathi *Temperature Structure of a Coronal Cavity* 2012 SPD meeting, Anchorage, Alaska, June 10-14, 2012

92. Habbal, S.R., **E. Landi**, Morgan, H., Druckmuller, M., Ding, A. *Coordinated visible, EUV and white light observations of the extended corona during the 2010 July 11 total solar eclipse*, 2012 SPD meeting, Anchorage, Alaska, June 10-14, 2012
93. Hahn, M., **E. Landi**, Savin, D.W., *Evidence for wave damping at low heights in a polar coronal hole* 2012 SPD meeting, Anchorage, Alaska, June 10-14, 2012
94. Testa, P., **Landi, E.**, Saar, S. *The thermal and spatial structure of the solar corona over the cycle and its implication for the coronae of inactive stars*, poster at the 17th Cambridge Workshop on Cools Stars, Stellar Systems and the Sun, Barcelona, Spain, June 24-29, 2012
95. Reale, F., **Landi, E.**, Orlando, S., *Catastrophic cooling in the evolution of coronal flaring plasma* poster at the 17th Cambridge Workshop on Cools Stars, Stellar Systems and the Sun, Barcelona, Spain, June 24-29, 2012
96. Huang, Z., Frazin, R.A., **Landi, E.**, Manchester IV, W.B., Vásquez, A.M., Gombosi, T.I., *The Newly Discovered Global Temperature Structures in Different Solar Rotation*, poster at the SHINE conference, Maui, HI, June 24-29 2012
97. Gilbert, J.A., Lepri, S.T., **Landi, E.**, & Zurbuchen, T.H. *Complete heavy ion charge state distributions of solar wind heavy ions associated with ICMEs* poster at the SHINE conference, Maui, HI, June 24-29 2012
98. Young, P.R., Del Zanna, G., Dere, K.P., **Landi, E.**, Mason, H.E. *The CHIANTI atomic database: new improvements for solar physics applications*, poster at the *Eight International Conference on Atomic and Molecular Data and Their Applications*, Washington, DC, September 30-October 4 2012
99. A.K. Bhatia, **Landi, E.**, *Atomic data for the CHIANTI database* poster at the *Eight International Conference on Atomic and Molecular Data and Their Applications*, Washington, DC, September 30-October 4 2012
100. Oran, R., van der Holst, B., **Landi, E.**, Gruesbeck, J.R., Sokolov, I., Gombosi, T.I., *Using heavy ion emission and charge state distributions to validate a global 3D two-temperature alfvénic turbulence driven solar model* AGU Fall Meeting, San Francisco, Ca, USA December 3-7, 2012
101. Miralles, M.P., **Landi, E.**, Cranmer, S.R., Cohen, O., & Raymond, J.C., *Coronal streamers and their associated solar wind streams*, AGU Fall Meeting, San Francisco, Ca, USA December 3-7, 2012
102. Weberg, M.J., Zurbuchen, T.H., Lepri, S.T., **Landi, E.**, *Reoccurring heavy ion dropouts in the solar wind* AGU Fall Meeting, San Francisco, Ca, USA December 3-7, 2012
103. McLaughlin, B.M, Teck-Ghee L., Ludlow, J.A., **Landi, E.**, Loch, S.D., Pindzola, M.S., & Ballance, C.P., *Electron-impact excitation of the Ne²⁺ O-like ion* 2012, Journal of Physics: Conference Series, 388, 062004
104. Miralles, M.P., **Landi, E.**, Cranmer, S.R., Cohen, O., Raymond, J.C., Rona, O. *Comparison of Coronal Streamer Properties to Solar Wind Models For The Last Two Solar Cycle Minima*, 2013, poster at the 2013 SPD meeting, Bozeman, MT July 8-11 2013
105. Mason, H.E., Del Zanna, G., Young, P.R., Dere, K.P., & **Landi, E.**, *The CHIANTI atomic database*, 2013, poster at the 2013 UK National Astronomy Meeting, Univ. St. Andrews, UK, July 1-5 2013
106. Oran, R., van der Holst, B., **Landi, E.**, Gombosi, T.I., *Heating of coronal streamers: a combined study using a 3D Alfvén wave solar model and SUMER observations*, poster at the SHINE conference, Buford, GA, June 24-28 2013
107. Zhao, L., **Landi, E.**, Fisk, L.A., *Polar- and equatorial-coronal-hole wind at solar minima: ACE and Ulysses observations*, poster at the SHINE conference, Buford, GA, June 24-28 2013
108. Vasquez, A.M., Nuevo, F., Frazin, R.A., & **Landi, E.**, *The multi-modal DEM of coronal streamers as seen by SDO/AIA tomography*, poster at the AGU Fall Meeting, San Francisco, Ca, USA December 9-13, 2013

109. Korendyke, C., Chua, D., Tun, S., Vourlidas, A., Morrill, J.S., Brown, C., McMullin, D.R., Warren, H.P., Ugarte-Urra, I., Young, P.R., **Landi, E.**, Davila, J.M., & Klimchuk, J.A. *High Resolution EUV spectroscopy: Design and Performance of VERIS*, poster at the AGU Fall Meeting, San Francisco, Ca, USA December 9-13, 2013
110. Miralles, M.P., **Landi, E.**, Cranmer, S.R., Raymond, J.C., Cohen, O., & Oran, R., *Determining the Coronal Origin of the Slow Solar Wind Using Remote Sensing and In Situ Observations*, poster at the AGU Fall Meeting, San Francisco, Ca, USA December 9-13, 2013
111. Rabin, D.M., **Landi, E.**, Daw, A.N., & Brosius, J.W., *Spatially Resolved Differential Emission Measures from EUNIS*, poster at the AGU Fall Meeting, San Francisco, Ca, USA December 9-13, 2013
112. Daw, A.N., Rabin, D.M., Brosius, J.W., **Landi, E.**, & Klimchuk, J.A. *Coronal Heating Diagnostics from EUNIS 2013*, poster at the AGU Fall Meeting, San Francisco, Ca, USA December 9-13, 2013
113. Oran, R., van der Holst, B., **Landi, E.**, & Gombosi, T.I., *Sun-to-Earth Analysis of Heavy Ion Charge States and Solar Wind Properties in Pseudo Streamers*, poster at the AGU Fall Meeting, San Francisco, Ca, USA December 9-13, 2013
114. Zhao, L., **Landi, E.**, *Latitudinal dependence of coronal hole-associated fast solar wind*, 2014, ASP Conference Series, Q. Hu and G.P. Zank editors, Astronomical Soc. Pacific
115. Nuevo, F., Vasquez, A.M., Frazin, R.A., & **Landi, E.**, *Multi-modal DEM in the solar corona*, Asociacion Argentina de Astronomia, BAAA, Vo. 56, 2013 A.C.Rovero, P.B. Tissera, L.J. Pellizza & M. Lares eds.
116. Del Zanna, G., Mason, H.E., Young, P.R., Dere, K.P., & **Landi, E.** *The CHIANTI atomic database version 8*, 2014, poster at the 2014 European Solar Physics meetin, Dublin, Ireland, Sept 8-12, 2014
117. Avrett, E., Tian, H., **Landi, E.**, Curdt, W., & Wuelser, J.-P., *Semiempirical modeling of sunspots*, IRIS-4 Workshop, Boulder, Co, May 18-22 2015
118. Mac Cormack, C., Lopez fuentes, M., Vasquez, A.M. Nuevo, F.A., Frazin, R.A., **Landi, E.**, *Comparison between two models of energy balance in coronal loops*, 2015, BAAA, 58, 2015
119. Zhao, L., **Landi, E.**, Kocher, M., Lepri, S.T., Fisk, L.A., & Zurbuchen, T.H. *Anomalously low O^{7+}/O^{6+} ratio in solar wind: ACE/SWICS observation*, 2016, AIP Conf. Proc, 1720, 020006
120. Zhao, L., **Landi, E.**, Fisk, L.A., & Lepri, S.T. *The coherent relation between the solar wind proton speed and O^{7+}/O^{6+} ratio and its coronal sources*, 2016, AIP Conf. Proc, 1720, 020007
121. Fludra, A., **Landi, E.**, *Testing models of the fast solar wind using spectroscopic and in situ observations*, 2017, Proceedings IAU symposium 335, Foullon & Malandraki eds.
122. Thompson, M.J., Tomczyk, S., Gibson, S.E., McIntosh, S.W., **Landi, E.**, *The Coronal Solar Magnetism Observatory*, 2017, Proceedings IAU symposium 335, Foullon & Malandraki eds.

Seminars and Invited Talks

1. *The CHIANTI database*, in *Getting started with CDS* workshop, Abingdon, UK, May 1996
2. *Extracting spectral intensities from CDS*, II ADAS workshop, Abingdon, UK, November 1996
3. *The CDS spectrum*, III ADAS workshop, Abingdon, UK, November 1997
4. *Temperature and density diagnostics of quiet Sun and active regions observed with CDS-NIS on SOHO*, invited talk at the *UK National Astronomy Meeting*, St. Andrews, UK, April 1998
5. *SERTS observations of Fe XII*, invited talk at the *Iron Project Meeting*, Abingdon, UK, July 1998
6. *Diagnostics of solar and stellar coronal plasma*, Seminar Talk at the University of Florence, Italy, November 1998
7. *The CHIANTI project*, invited talk at the conference *Astrophysical Plasmas, Codes, Models and Observations*, Mexico City, Mexico, October 25-29, 1999
8. *CDS observations of active region loops*, invited talk at the 2nd Solar-B Science Meeting, Sagamihara, Japan, December 4-6, 2000
9. *The CHIANTI database*, invited talk at the conference *New Visions of the X-ray Universe*, ESTEC, Noordwijk, The Netherlands, November 26-30, 2001
10. *Measuring the temperature of CDS loops*, invited talk at the *Coronal Loops Workshop*, Istitute d'Astrophysique Spatiale, Orsay, Paris, November 13-15, 2002
11. *Plasma diagnostics with bremsstrahlung in the solar atmosphere*, Solar Science Seminar, Goddard Space Flight Center, January 22, 2003
12. *The CHIANTI database*, invited talk at the *Joint Discussion 17: Atomic Data for X-Ray Astronomy*, XXV IAU General Assembly, Sydney, Australia, July 13-26, 2003
13. *SOHO/CDS observations and models of solar magnetic loops*, invited talk at the *Symposium 219: Stars as Suns: Activity, Evolution and Planets*, XXV IAU General Assembly, Sydney, Australia, July 13-26, 2003
14. *Plasma diagnostics with high-resolution soft X-ray observations of the Sun*, invited talk at the *American Physical Society April meeting 2004*, Denver, Colorado, May 1-4, 2004.
15. *Comparison of loop models and SOHO observations*, invited talk at the *Solar Coronal Loops Workshop*, Palermo, Italy, 1-3 September 2004
16. *Recent advances in the CHIANTI database in the X-ray range*, invited talk at the *X-ray diagnostics for astrophysical plasmas*, Cambridge, MA, 15-17 November 2004
17. *CHIANTI - An atomic database for X-ray spectroscopy*, invited talk at the *X-ray spectroscopy and plasma diagnostics from the RESIK, RHESSI and SPIRIT instruments* Workshop, Wroclaw, Poland 6-8 December 2005
18. *The CHIANTI database*, invited talk at the *Iron Project Meeting*, Rutherford Appleton Laboratory, UK, December 15-16 2005
19. *Plasma diagnostics of the large-scale corona with SUMER*, invited talk at the *SOHO 17- 10 years of SOHO and beyond*, Giardini Naxos, Italy, May 7-12, 2006
20. *Recent advances in the CHIANTI project*, invited talk at the *High Accuracy Atomic Physics in Astronomy*, Cambridge, Ma, August 7-9, 2006
21. *Benchmarking atomic data for X-ray lines*, invited talk at the *High Accuracy Atomic Physics in Astronomy*, Cambridge, Ma, August 7-9, 2006

22. *Abundance measurements with EUV and UV spectra: how good are they?*, invited talk at the *14th Cambridge Workshop on Cools Stars, Stellar Systems and the Sun*, Pasadena, Ca, November 6-10, 2006
23. *The thermal structure of the solar corona*, seminar at the Institute of Space and Astronautical Sciences (ISAS), Tokyo, Japan, November 15, 2007
24. *The thermal structure of the solar corona*, seminar at the Harvard-Smithsonian Center for Astrophysics, Cambridge, Ma, USA, November 26, 2007
25. *The thermal structure of the solar corona*, seminar at the Naval Research Laboratory, Washington, DC, USA November 29, 2007
26. *The CHIANTI atomic data for astrophysics project: Recent advances* invited talk at the *SELAC workshop on atomic ion stage abundances in astrophysical plasmas*, Auburn, Al, USA, February 25-26 2008
27. *CME and current sheet observations from Hinode/EIS and SUMER* invited talk at the *2008 CME Workshp*, Cambridge, Ma, August 13-15 2008
28. *Spectral observations of the heating of CME ejecta* invited talk at the *SECCHI Team Meeting*, Washington, DC October 22-24 2008
29. *Solar abundances - an overview* seminar at Rice University, Houston, TX, February 25, 2009
30. *The thermal structure of the solar upper atmosphere* invited review at the *Atomic Processes in Plasmas 2009* conference, Monterey, Ca, March 22-26 2009
31. *Physical conditions in a CME from Hinode, STEREO, and SOHO observations* seminar at the Harvard-Smithsonian Center for Astrophysics, Cambridge, Ma, November 9, 2009
32. *Physical conditions in a CME from Hinode, STEREO, and SOHO observations*, seminar at the NASA/Goddard Space Flight Center, Greenbelt, Md, March 10, 2010
33. *Physical conditions in a CME from Hinode, STEREO, and SOHO observations*, seminar at the University of Michigan, Ann Arbor, Mi, March 18, 2010
34. *Plasma diagnostics of a CME-associated current sheet*, invited talk at the *Solar Plasma Spectroscopy: Achievements and Future Challenges* conference, Cambridge, UK, Sep 13-15 2010
35. *Physical conditions in a CME from Hinode, STEREO, and SOHO observations*, talk at the 2010 AGU Fall Meeting, San Francisco, CA Dec 12-17, 2010
36. *Coronal Mass Ejections*, seminar at the Western Michigan University, Kalamazoo, MI Mar 14, 2011
37. *The X-ray Sun*, invited talk at the APS/DAMOP meeting, Atlanta GA Jun 14, 2011
38. *Anatomy of a CME from multispacraft observations*, seminar at the Institute for Astronomy, University of Hawaii, Jan 13, 2012
39. *Solar wind diagnostic using both in-situ and spectroscopic measurements*, talk at the Workshop on Coronal Magnetism, Boulder, Co, May 21-23, 2012
40. *Solar wind diagnostic using both in-situ and spectroscopic measurements*, Seminar at the High Altitude Observatory, Boulder Co, May 24, 2012
41. *Solar wind diagnostic using both in-situ and spectroscopic measurements*, Invited talk at 2012 SHINE workshop, Maui, HI Jun 25-29 2012
42. *CHIANTI – an atomic database for astrophysical plasmas*, invited talk at the *Joint IAEA-NFRI technical meeting on data evaluation for atomic, molecular and plasmas-material interaction processes in fusion*, Daejeon, South Korea, Sep 4, 2012
43. *Coronal Plasma Diagnostics from COSMO*, seminar at the High Altitude Observatory, Boulder, Co, Nov 15, 2012
44. *The CHIANTI spectral code*, seminar at the High Altitude Observatory, Boulder, Co, Sep 24, 2013

45. *Coronal Plasma Diagnostics from Visible Lines*, invited talk at the *ATST Coronal Workshop*, Boulder, Co, Nov 21-22 2013
46. *Coronal Plasma Diagnostics from COSMO*, invited talk at the *Measurement Techniques in Solar and Space Physics*, Boulder, Co, Apr 20-24 2015
47. *Element Abundances in the Sun and Solar Wind Along the Solar Cycle*, Invited talk at the *2015 Triennial Earth Sun Summit*, Indianapolis, In, Apr 27-30 2015
48. *Diagnostic tools and recent results on solar wind origin and acceleration*, Invited talk at the *SPP Science Working Group workshop*, Ann Arbor, MI, May 12-13 2015
49. *Solar coronal abundances*, Invited talk at the *Solar Stellar Connection Workshop*, Ann Arbor, MI, May 18-19 2015
50. *The COSMO observatory*, Seminar at the University of Michigan, Ann Arbor, MI, Jan 14 2016
51. *In-situ and remote sensing studies of solar wind origin and acceleration*, Invited talk at the *15th Annual International Astrophysics Conference*, Cape Coral, FL, Apr 4 2016
52. *Thermal environment of the solar atmosphere*, Invited talk at the *Exploring the geospace frontier: quo vadis?*, Boulder, CO, May 25-27 2016
53. *Diagnostics and empirical modeling of heating and cooling of CME plasmas from remote sensing and in-situ observations*, Invited talk at the *17th Annual International Astrophysics Conference*, Santa Fe, NM, Mar 9 2018