

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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Email: elandi@umich.edu

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 |
|--|--------|

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

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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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62. **Landi, E.**, Feldman, U., Doschek, G.A., 2006, *Ne and O absolute abundances in the solar corona*, poster at the 14th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun in Pasadena, California, Nov 6-10, 2006.
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64. Korendyke, C.M., Vourlidas, A., Brown, C.M., Klimchuk, J.A., **Landi, E.**, Seely, J.F., *Progress toward a Very high Resolution Imaging Spectrometers (VERIS)*, poster at the 2007 annual meeting of the Solar Physics Division/AAS, Honolulu, Hawaii, May 27-31 2007
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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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68. **Landi, E.**, Bhatia, A.K., *Atomic Data and Spectral Line Intensities for Be-like ions*, poster at the SELAC Workshop on Atomic Ion Stage Abundances in Astrophysical Plasmas, Auburn, Al February 25-26 2008
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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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76. **Landi, E.**, Cranmer, S.R., *Ion temperatures in the low solar corona: Polar coronal holes at solar minimum* 2010, AIP Conference Proceedings Series, 428, 197
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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87. Brosius, J.W., Wang, T.J., Rabin, D.M., & **Landi, E.**, *Coronal bright points and quiet Sun areas observed with EUNIS-07 and EIS*, 2011 SPD meeting, Las Cruces, NM, June 12-16, 2011
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