Barbara Sylwester

List of Publications by Year
in descending order

71	853	471509 17	552781 26
papers	citations	h-index	g-index

72	72	72	587
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the Application of Differential Evolution to the Analysis of X-Ray Spectra*. Astrophysical Journal, 2022, 927, 19.	4.5	3
2	New Solar Flare Calcium Abundances with No Surprises: Results from the Solar Maximum Mission Bent Crystal Spectrometer. Astrophysical Journal, 2022, 930, 77.	4.5	2
3	A Multiwavelength Analysis of the Long-duration Flare Observed on 15 April 2002. Solar Physics, 2020, 295, 1.	2.5	2
4	A Unique Resource for Solar Flare Diagnostic Studies: The SMM Bent Crystal Spectrometer. Astrophysical Journal, 2020, 894, 137.	4.5	4
5	The soft X-ray spectrometer polarimeter SolpeX. Experimental Astronomy, 2019, 47, 199-223.	3.7	3
6	Analysis of Quiescent Corona X-ray Spectra from SphinX During the 2009 Solar Minimum. Solar Physics, 2019, 294, 1.	2.5	7
7	Analysis of the differential emission measure distributions for solar flares observed by RESIK. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 179, 545-552.	1.6	2
8	Solar Microflares Observed by SphinX and RHESSI. Solar Physics, 2018, 293, 1.	2.5	2
9	Highly Ionized Calcium and Argon X-Ray Spectra from a Large Solar Flare. Astrophysical Journal, 2018, 863, 10.	4.5	7
10	Nonequilibrium Processes in the Solar Corona, Transition Region, Flares, and Solar Wind (Invited) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	2.5	60
11	Flare Characteristics from X-ray Light Curves. Solar Physics, 2017, 292, 1.	2.5	33
12	ChemiX: a Bragg crystal spectrometer for the Interhelioprobe interplanetary mission. Experimental Astronomy, 2016, 41, 327-350.	3.7	8
13	THERMAL CHARACTERISTICS AND THE DIFFERENTIAL EMISSION MEASURE DISTRIBUTION DURING A B8.3 FLARE ON 2009 JULY 4. Astrophysical Journal, 2016, 823, 126.	4.5	7
14	THE X-RAY LINE FEATURE AT 3.5 KeV IN GALAXY CLUSTER SPECTRA. Astrophysical Journal, 2015, 809, 50.	4.5	21
15	Solar X-rays from 0.3 <scp>a.u.</scp>: the ChemiX Bragg Spectrometer on Interhelioprobe. Proceedings of the International Astronomical Union, 2015, 11, 442-446.	0.0	1
16	Solar flare soft X-ray spectra from Diogeness observations. Proceedings of the International Astronomical Union, 2015, 11, 109-111.	0.0	0
17	Thermal characteristics of a B8.3 flare observed on July 04, 2009. Proceedings of the International Astronomical Union, 2015, 11, 112-115.	0.0	0
18	High-temperature solar flare plasma behaviour from crystal spectrometer observations. Proceedings of the International Astronomical Union, 2015, 11, 80-85.	0.0	0

#	Article	IF	Citations
19	Multitemperature analysis of solar flare observed on 2003 March 29. Proceedings of the International Astronomical Union, 2015, 11, 86-88.	0.0	1
20	X-ray Flare Spectra from the DIOGENESS Spectrometer and Its Concept Applied to ChemiX on the Interhelioprobe Spacecraft. Solar Physics, 2015, 290, 3683-3697.	2.5	16
21	RESIK SOLAR X-RAY FLARE ELEMENT ABUNDANCES ON A NON-ISOTHERMAL ASSUMPTION. Astrophysical Journal, 2015, 805, 49.	4.5	20
22	SOLAR FLARE COMPOSITION AND THERMODYNAMICS FROM RESIK X-RAY SPECTRA. Astrophysical Journal, 2014, 787, 122.	4.5	24
23	Investigations of Physical Processes in Solar Flare Plasma on the Basis of RESIK Spectrometer Observations. Astrophysics and Space Science Library, 2014, , 157-174.	2.7	0
24	SphinX: The Solar Photometer in X-Rays. Solar Physics, 2013, 283, 631-649.	2.5	23
25	Silicon Abundance from RESIK Solar Flare Observations. Solar Physics, 2013, 283, 453-461.	2.5	10
26	STELLAR CORONAE, SOLAR FLARES: A DETAILED COMPARISON OF Ïƒ GEM, HR 1099, AND THE SUN IN HIGH-RESOLUTION X-RAYS. Astrophysical Journal, 2013, 768, 135.	4.5	18
27	THE SOLAR FLARE SULFUR ABUNDANCE FROM RESIK OBSERVATIONS. Astrophysical Journal, 2012, 751, 103.	4.5	14
28	SphinX MEASUREMENTS OF THE 2009 SOLAR MINIMUM X-RAY EMISSION. Astrophysical Journal, 2012, 751, 111.	4.5	23
29	Solar flares observed simultaneously with SphinX, GOES and RHESSI. Proceedings of the International Astronomical Union, 2012, 8, 571-572.	0.0	1
30	THE SOLAR FLARE CHLORINE ABUNDANCE FROM RESIK X-RAY SPECTRA. Astrophysical Journal, 2011, 738, 49.	4.5	17
31	Soft X-ray variability over the present minimum of solar activity as observed by SphinX. Solar System Research, 2011, 45, 182-187.	0.7	12
32	SphinX soft X-ray spectrophotometer: Science objectives, design and performance. Solar System Research, 2011, 45, 189-199.	0.7	30
33	Diagnostics of non-thermal distributions in solar flare spectra observed by RESIK and RHESSI. Astronomy and Astrophysics, 2011, 533, A81.	5.1	22
34	A SOLAR SPECTROSCOPIC ABSOLUTE ABUNDANCE OF ARGON FROM RESIK. Astrophysical Journal, 2010, 720, 1721-1726.	4.5	16
35	HIGHLY IONIZED POTASSIUM LINES IN SOLAR X-RAY SPECTRA AND THE ABUNDANCE OF POTASSIUM. Astrophysical Journal, 2010, 710, 804-809.	4.5	22
36	THE SOLAR X-RAY CONTINUUM MEASURED BY RESIK. Astrophysical Journal, 2010, 711, 179-184.	4.5	13

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37	Soft X-ray coronal spectra at low activity levels observed by RESIK. Astronomy and Astrophysics, 2010, 514, A82.	5.1	36
38	He-like Ar xvii triplet observed by RESIK. Advances in Space Research, 2008, 42, 833-837.	2.6	0
39	X-ray studies of flaring plasma. Journal of Astrophysics and Astronomy, 2008, 29, 147-150.	1.0	3
40	Differential emission measure distributions in X-ray solar flares. Advances in Space Research, 2008, 42, 828-832.	2.6	6
41	Determination of K, Ar, Cl, S, Si and Al flare abundances from RESIK soft X-ray spectra. Advances in Space Research, 2008, 42, 838-843.	2.6	10
42	Nonthermal and thermal diagnostics of a solar flare observed with RESIK and RHESSI. Astronomy and Astrophysics, 2008, 488, 311-321.	5.1	19
43	RESIK Observations of Helium-like Argon X-Ray Line Emission in Solar Flares. Astrophysical Journal, 2008, 681, L117-L120.	4.5	14
44	A benchmark study for CHIANTI based on RESIK solar flare spectra. Astronomy and Astrophysics, 2007, 462, 323-330.	5.1	21
45	Determination of flaring plasma characteristics from RESIK X-ray spectra. Proceedings of the International Astronomical Union, 2006, 2, 165.	0.0	1
46	SixiiXâ€Ray Satellite Lines in Solar Flare Spectra. Astrophysical Journal, 2006, 638, 1154-1161.	4.5	20
47	Lines in the range 3.2â€“6.1Ã... observed in RESIK spectra. Advances in Space Research, 2006, 38, 1534-1537.	2.6	5
48	Analysis of potassium abundance in a large number of flares. Advances in Space Research, 2006, 38, 1490-1493.	2.6	4
49	Thermodynamics of selected solar flares as determined from the analysis of the spectra obtained with the RESIK instrument. Solar System Research, 2006, 40, 125-132.	0.7	4
50	Determination of differential emission measure from X-ray solar spectra registered by RESIK aboard CORONAS-F. Solar System Research, 2006, 40, 294-301.	0.7	12
51	Observations of 1s2â€“1snp and 1sâ€“np lines in RESIK soft X-ray spectra. Advances in Space Research, 2006, 38, 1538-1542.	2.6	13
52	Temperature-sensitive line ratio diagnostics based on Si satellite-to-resonance line ratios for 1s2â€“1snp transitions. Advances in Space Research, 2006, 38, 1543-1546.	2.6	5
53	Multi-wavelength study of a strong impulsive solar limb flare on 2002 August 3. Advances in Space Research, 2005, 35, 1728-1731.	2.6	2
54	The thermal X-ray spectrum of the 2003 April 26 solar flare. Advances in Space Research, 2005, 35, 1723-1727.	2.6	7

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55	Resik: A Bent Crystal X-ray Spectrometer for Studies of Solar Coronal Plasma Composition. Solar Physics, 2005, 226, 45-72.	2.5	84
56	Observations of Solar X-ray Spectra by the DIOGENESS and RESIK Spectrometers Onboard the CORONAS-F Satellite. Solar System Research, 2005, 39, 479-488.	0.7	5
57	Detection of H- and He-like resonance lines of chlorine in solar flare spectra. Proceedings of the International Astronomical Union, 2004, 2004, 671-674.	0.0	8
58	Solar Flare Abundances of Potassium, Argon, and Sulphur. Astrophysical Journal, 2003, 589, L113-L116.	4.5	42
59	High resolution observations of solar flares. COSPAR Colloquia Series, 2002, 13, 209-220.	0.2	0
60	Physical conditions within flare kernels. Advances in Space Research, 2002, 30, 617-622.	2.6	1
61	Evolution of White-Light Flares Observed by YOHKOH. Solar Physics, 2000, 194, 305-325.	2.5	16
62	The analysis of energy release in solar flares based on X-ray observations. Space Science Reviews, 1996, 76, 319.	8.1	5
63	Estimation of equivalent flaring loop geometry based on broadband soft x-ray observations. Advances in Space Research, 1993, 13, 307-310.	2.6	6
64	Investigation of non-uniform heating during the decay phase of solar flares. Solar Physics, 1990, 126, 177-184.	2.5	9
65	Influence of the energy calibration of broad-band X-ray detectors on determination of the plasma parameters. Advances in Space Research, 1988, 8, 267-270.	2.6	1
66	Investigation of the Mg XII 8.42 ï¿½ doublet in solar flare spectra. Solar Physics, 1986, 103, 67-87.	2.5	12
67	Investigation of flare heating based on X-ray observations. Advances in Space Research, 1986, 6, 237-240.	2.6	16
68	Analysis of Intensity Ratio for MgXII LyÎ± Components from Intercosmos 7 Observations. International Astronomical Union Colloquium, 1984, 86, 154-154.	0.1	0
69	Analysis of the physical conditions in a strong X-ray flare. Advances in Space Research, 1981, 1, 239-242.	2.6	5
70	Solar flare X-ray spectra. Solar Physics, 1979, 63, 319-327.	2.5	9
71	Analysis of the intensities and profiles of the spectral line Mg xii 8.42 â„« in the solar X-ray spectrum. Solar Physics, 1975, 44, 391-401.	2.5	6