



Spiros Patsourakos
CURRICULUM VITAE
23-11-2024

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2 Contact

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3 Studies

- **B.Sc. in Physics**, 1995, Aristotle University of Thessaloniki, Greece. Diploma Thesis: "Evaluation of a White-Light Coronagraph on-board the Solar Probe Mission". Supervisors: Dr. Jean-Claude Vial, Prof. Loukas Vlachos.
- **M.Sc. in Plasma Physics**, 1997, University PARIS XI, Orsay, France. M.Sc. thesis on "Diagnostics of the lower transition region in coronal holes and the quiet Sun". Supervisors: Dr Jean-Claude Vial, Prof. Karine Bocchialini.
- **Ph.D. in Plasma Physics**, 2000, University PARIS XI, Orsay, France. Thesis topic: "Investigation of Coronal Heating and Solar Wind Acceleration in Coronal Holes". Supervisor Dr Jean-Claude Vial. Ph.D. Committee Drs A-H Gabriel, S. Koutchmy and Profs. R.M. Bonnet, S. R. Habbal, J. Heyvaerts.

4 Professional Activity

- 1995-1996: Undergraduate student in the Institut d Astrophysique Spatiale of the PARIS XI University under the frame of the ERASMUS programme.
- 1997-2000: Ph.D. dissertation at Institut d'Astrophysique Spatiale in University PARIS XI at Orsay.
- 1997-2000: Scientific planner of the CDS and SUMER instruments on-board the SOHO satellite during several intervals from the Multi-Experiment Data and Operations Center for SOHO (MEDOC) at Orsay.
- February 1998: Participation in an observing campaign of the 1998 total solar eclipse in Guadeloupe, France.
- September 1998-December 1998: Scientific visitor at Institut d'Astrophysiqua de l'Espace (IAFE) of the Buenos Aires University.
- 2000-2001: Research assistant at the Mullard Space Science Laboratory of University College of London in UK. Support member of the UK Solar Physics Research Facility (SURF).
- June 2001: Visitor at the Goddard Space Flight Center of NASA for the scientific operations of the CDS instrument of the SOHO satellite.
- December 2001 - July 2005: Assistant Research Professor, George Mason University, Vienna, VA.
- 2005-2006 Military service in the Hellenic Air Force.

- June 2006 - July 2009: Assistant Research Professor, George Mason University, Vienna, VA, USA.
- July 2009-2015: Assistant Professor, University of Ioannina, Department of Physics
- July 2010- August 2010: Scientific visitor at Goddard Space Science Center, Greenbelt, USA and Naval Research Lab, Washington DC, USA.
- August 2011: Scientific visitor at Royal Observatory of Belgium, Brussels, Belgium.
- August 2012: Scientific visitor at Naval Research Lab, Washington DC, USA.
- 2015-: Associate Professor, University of Ioannina, Department of Physics
- July-August 2019: Scientific visitor at APL, Washington DC, USA

5 Teaching of Undergraduate Courses

- 2009-2022 Solar Physics, Department of Physics, University of Ioannina
- 2009- Space Weather, Department of Physics, University of Ioannina
- 2010-2012 Experimental Physics II, Department of Chemistry, University of Ioannina
- 2012- Observational Astrophysics, Department of Physics, University of Ioannina
- 2012-2013 Introductory Physics, Department of Chemistry, University of Ioannina
- 2014- Linear Algebra and Analytical Geometry, Department of Physics, University of Ioannina
- 2016-2021 Topics of Atmospheric and Space Sciences, Department of Primary Education, University of Ioannina
- 2024- Plasma Physics, Department of Physics, University of Ioannina

6 Teaching of postgraduate courses

- 2014-2019 General Physics, Department of Physics Postgraduate Programme in Meteorology, University of Ioannina
- 2018- Experimental Physics, Department of Physics Postgraduate Programme in Physics, University of Ioannina
- 2022 Plasma Physics, Department of Physics Postgraduate Programme in Physics, University of Ioannina
- 2018- Experimental Physics, Department of Physics Postgraduate Programme in Physics, University of Ioannina
- 2023- Computational Tools of Data Processing, Department of Physics Postgraduate Programme in Atmospheric and Environmental Sciences, University of Ioannina

7 Teaching in Schools

- "Initial Stages of Coronal Mass Ejections", First School of the Hellenic National Space Weather Network, Portaria, 25-27 February 2013

- "Coronal Mass Ejections", First summer school of the Hellenic Astronomical Society, Athens, 1-5 September 2014
- "The Solar atmosphere and its magnetic Instabilities", INTRODUCTION TO SPACE WEATHER, 1st SWANET School, November 8-12, 2021
- Triggering of instabilities: physical mechanisms, 29-30 September, 2022, Athens WORKSHOP 3: SWANET, SOLAR ACTIVITY AND SPACE WEATHER: PHYSICS BEHIND THE PROCESS

8 Organization of Schools

- First summer school of the Hellenic Astronomical Society. Athens, 1-5 September 2014
- SWANET SCHOOL 2: SUN-EARTH INTERACTIONS September 26-28, 2022, Athens
- SWANET Workshop 3: Solar Activity and Space Weather: Physics Behind the Process, 29-30 September 2022, Athens
- Fifth Summer School of the Hellenic Astronomical Society, "MHD in Astrophysics", 16-20 September 2024, Ioannina, Greece

9 Supervision of Undergraduate Diploma Thesis

- 2009-2010 Coronal Heating, Minas Mplazoudakis, Department of Physics, University of Ioannina
- 2012-2013 Parametric study of wave disturbances in the low corona, Evi Xristonasi, Department of Physics, University of Ioannina
- 2013-2015 Study of Flux Ropes before and during Coronal Mass Ejections onsets with SDO Observations, Christos Tagikas, Department of Physics, University of Ioannina
- 2014-2015 Study of the solar sources of major geomagnetic storms during cycle 24, Georgia Petroulea, Department of Physics, University of Ioannina
- 2015-2016 Statistical study of geomagnetic storms during cycle 24, Chara Karipidou, Department of Physics, University of Ioannina
- 2017-2018 Propagation of Coronal Mass Ejection into Disturbed Interplanetary Medium, Sotirios Stamkos, Department of Physics, University of Ioannina
- 2018-2019 Analyzing the 5 June 2012 VENUS TRANSIT ACROSS THE SOLAR DISK AS AN EXOPLANET TRANSIT, Sotirios Karkandelos, Department of Physics, University of Ioannina
- 2018-2019 Statistical Analysis of the correlation of the angular width of Corona Mass Ejections and properties of their source regions, Varvara Agalianou, Department of Physics, University of Ioannina
- 2019-2020 Analysis of Forbush Decreases with unsupervised machine learning, Nikos Sagias, Department of Physics, University of Ioannina
- 2020-2021 Correlation between magnetic flux and EUV intensities of solar active regions, Miltiadis Raptis, Department of Physics, University of Ioannina

- 2020-2021 Observation and study of exoplanet TrES-3b with amateur astronomical equipment, Georgios Lekkas, Department of Physics, University of Ioannina
- 2021-2022 Analysis of transient slow solar wind outflows with observations by the WISPR telescope on-board PSP, Anna Manou, Department of Physics, University of Ioannina
- 2021-2022 Background magnetic field and Coronal Mass Ejections for solar cycles 24 and 25, Christina Charakotia, Department of Physics, University of Ioannina
- 2022-2023 Study of coronal dimmings observing the Sun as a point source, Angelos Michailidis, Department of Physics, University of Ioannina
- 2023- Search of transient flows associated with EUI/Solo campfires, Emeleia Zamba, Department of Physics, University of Ioannina

10 Participation in M.Sc. Advisory and/or Examination Committees

- Eleni Nikou, Department of Physics, University of Ioannina, 2015
- Kristina Magou, Department of Physics, University of Athens, 2015, examiner
- Euaggelia Liokati, Department of Physics, University of Ioannina, 2015-2017
- Georgia Petroulea, Department of Physics, University of Ioannina, 2017-2019
- Sotirios Stamkos, Department of Physics, University of Athens, 2019-2020
- Constandinos Koutsogiannis, Department of Physics, University of Ioannina, 2013-2024

11 Participation in PhD Advisory and/or Exam Committees

- Chloe Guennou, University Paris XI, 2013, rapporteur
- Eleutheria Mitsakou, University of Athens, 2014, examiner
- Vincent Joulin, University Paris XI, 2015, rapporteur
- Petros Syntelis, University of Athens, 2016, examiner
- Clara Froment, University Paris XI, 2016, rapporteur
- Athanasios Kouloumvakos, University of Ioannina, 2014-2017, member of the advisory committee
- Dimitrios Kaltsas, Department of Physics, University of Ioannina, 2019, member of the examination committee
- Achilleas Evangelias, Department of Physics, University of Ioannina, 2019, member of the examination committee
- Evangelia Liokati, University of Ioannina, 2017-2023, member of the advisory committee
- Ioannis Danakalalis, University of Athens, 2019-, member of advisory committee
- Myrtw Koleti, University of Athens, 2019-, member of advisory committee
- Spyridon Armatas, University of Athens, 2021, member of the examination committee
- Alexandros Koukras, Department of Mathematics, KU Leuven, 2022, member of the examination committee
- Konstantin Herbst, reviewer of habilitation, 2021, University of kiel, Germany

- Sotirios Stamkos, University of Ioannina, 2021-, member of the advisory committee
- Shifana Koya, University of Ioannina, 2023-, member of the advisory committee
- Vera Agalianou, University of Ioannina, 2023-, member of the advisory committee
- Angelos Giannis, University of Ioannina, 2024-, member of the advisory committee
- Antoine Dolliou, University Paris Saclay, 2024, examiner
- Nina Bizien, University of Orleans, 2024, rapporteur,examiner
- Simone Chierichini, University of Sheffield, 2024, external examiner

12 Supervision of Master Thesis

- Georgia Petroulea, Department of Physics, University of Ioannina, 2017-2019

13 Supervision of PhD students

- Sotirios Stamkos, University of Ioannina, 2021-
- Shifana Koya, University of Ioannina, 2023-

14 Supervision of Post-doctoral Research Associates

- Veronica Ontiveros, 2010-2012, Study of Coronal Mass Ejection Related IP Shocks
- Olena Podladchikova, 2012-2014, Study of Forces Acting on Coronal Mass Ejections during their IP propagation
- Konstandinos Moraitis, 2020-2023, Study of Field-line magnetic helicity in the solar atmosphere

15 Textbooks

- Solar and Space Physics, C. Alissandrakis, A. Nindos, **S. Patsourakos**, 2015, Hellenic Academic Libraries
- Observational Astrophysics, C. Alissandrakis, A. Nindos, **S. Patsourakos**, 2015, Hellenic Academic Libraries

16 Administrative work in University of Ioannina

- **Seminar Committees**, 2009-2016, 2022-
- **Building and Safety Committee**, Period: 2011-2012
- **Translation of Study Guide**, Period: 2012-2017
- **Study Program Committee**, Period: 2012-2018
- **Popularization Articles in Physics**, Period: 2013-2016

- **Study Guide, Website, and Department Promotion** Period: 2017-2019
- **Alumni Committee**
Period: 2023-
- **Member of the Committee of Postgraduate Studies in Atmospheric Sciences and Environment**
Department of Physics, University of Ioannina
Period: 2023-
- **Member of the Faculty Team Organizing**
Period: 2015-2018
- **Representative, Equipment Acquisition Committee**
University of Ioannina
Period: 2013-2014
- **Director, Astrogheophysics Sector**
Department of Physics, University of Ioannina
Period: 2017-2019
- **Governing Board Member, Department of Physics**
University of Ioannina
Period: 2017-2019
- **Participation in the preparation of Memorandums of Understanding to perform joint PhDs between the University of Ioannina and the Universities of Sheffield, UK and of Maria Curie-Skodowska University, Poland**
Period: 2020-2022

17 Research Interests

- Solar and Heliospheric Physics
- Space Weather
- EUV, SXR and optical spectroscopic and imaging observations of the lower solar atmosphere and of the inner and outer corona
- Coronal and transition region heating and structuring
- Solar wind sources in the low corona
- Coronal jets and mini-CMEs
- EUV waves
- Prominences
- Coronal Mass Ejections: Initiation and Propagation into the IP medium
- Assessment studies for new instruments
- Solar cycle
- Space weather in exoplanets

18 Research Visits

- September 1998-December 1998: Visitor at the Institut d’Astrophysique de l’Espace (IAFE) of the University of Buenos Aires as part of a France-Argentina collaboration program in solar physics.
- June 2001: Visitor at the Goddard Space Flight Center of NASA for the guidance and execution of observations with the scientific instrument CDS of the SOHO satellite.
- July 2010-August 2010: Scientific visitor at the Goddard Space Science Center, Greenbelt, and the Naval Research Lab, Washington DC.
- August 2011: Scientific visitor at the Royal Observatory of Belgium, Brussels.
- August 2012: Scientific visitor at the Naval Research Lab, Washington DC, USA.
- July-August 2019: Scientific visitor at JHU/APL, Laurel, MD, USA.

19 Collaborations

- Department of Physics of Universities of Ioannina, Thessaloniki, Athens, Patras
- Research Center for Astronomy and Applied Mathematics of the Academy of Athens, National Observatory of Athens

- Inter-University Centre for Astronomy and Astrophysics, India
Institut d’Astrophysique Spatiale, University Paris-Saclay, France
Johns Hopkins Applied Physics Laboratory, USA
Max Planck Institute for Solar System Research, Germany
George Mason University, USA
NASA, Goddard Space Flight Center, USA
Naval Research Lab, USA
Institute for Space-Earth Environmental Research (ISEE) Nagoya University, Japan
University of St Andrews, UK
University of Helsinki, Finland
University of Sheffield, UK
Maria Curie-Skłodowska University, Poland
Predictive Science Inc., USA
Institute of Physics and Astronomy, University of Potsdam, Germany
School of Astronomy and Space Science, Nanjing University, People’s Republic of China
Lockheed Martin Solar and Astrophysics Lab, USA
NASA/Marshall Space Flight Center, USA
University College London, Mullard Space Science Laboratory, UK
Big Bear Solar Observatory, New Jersey Institute of Technology, USA
National Radio Astronomy Observatory, USA

20 Main Scientific Results

Within parentheses are listed the numbers of the corresponding publications in the next section.

- First observations of the radial velocity of the solar wind in the interplume regions within coronal holes (5)
- Indication of the weakness of steady mass fluxes for the interpretation of coronal loops of the far ultraviolet (10)
- Development of new spectroscopic diagnostics of nanoflares in coronal loops (13)
- First stereoscopic observations of rotation in coronal loops (16)
- Development of a new semi-analytical model for rapid resolution of hydrodynamic equations in coronal loops (17)
- First stereoscopic observations of the wave nature of waves in the far ultraviolet (20)
- Discovery of a category of coronal material ejections without major observational manifestations in the lower corona (21)
- Discovery of a short-lived phase of rapid lateral expansion of coronal mass ejections in the lower corona (29,30)
- First observations of the formation of a superheated pre-eruptive magnetic flux rope (36)
- Development of a theoretical model for the coupling of plasma heating and particle acceleration in coronal loops (38)
- First statistical study of superheated magnetic flux ropes during major solar flares (43)
- Collaborative study from the Sun to the geospace of a major solar event - development of a new empirical method for determining the magnitude of the magnetic field of coronal mass ejections in the corona (47)
- Development of a framework for habitability determination of exoplanets revolving around active stars based on the activity of coronal mass ejections (53,66)
- First observations of the center-limb variation of brightness temperature and chromospheric oscillations with ALMA (55,58)
- First statistical study of pre-eruptive superheated magnetic flux ropes (64)
- Proposal of a hybrid and time-variable nature of the pre-eruptive magnetic structure (65)
- Development of a new type of mapping of transient solar wind flows in observations of the WISPR telescope of the PSP mission adopted by the telescope team (68)
- First semi-analytical model of aerodynamic drag force in coronal mass ejections in magnetic erosion environments (74)
- Application of a parameter based on magnetic helicity per dynamic line as a criterion for the explosive behavior of solar active regions (76)

21 Publications in Refereed Journals and Special Volumes

- R1** *Solar Chromospheric Structures Observed in UV Resonance Lines: A Multivariate Analysis Approach*, S. Patsourakos, K. Bocchialini & J. C. Vial, 1999, C. R. Acad. Sci., 326, 337
- R2** Outflow Velocities at the Base of a Polar Coronal Hole during the Total Eclipse, S. Patsourakos, J-C Vial, J-R Gabryl, S. Koutchmy & U. Schuhle, 1999 Space Science Reviews, 87, 291

- R3** *Transition-Region Network Boundaries in the Quiet Sun: Width Variation with Temperature as Observed with CDS on SOHO*, **S. Patsourakos**, J-C Vial, A-H Gabriel, N. Bellamine, 1999, *Astrophysical Journal*, 522, 540
- R4** *Outflow velocity of interplume regions at the base of Polar Coronal Holes*, **S. Patsourakos**, J-C Vial, 2000, *Astronomy & Astrophysics*, 359, 1
- R5** *Analysis of a UV event in a Polar Coronal Hole*, 2001, **S. Patsourakos**, J-C Vial, 2000, *Solar Physics*, 203,39
- R6** *Solar cycle variation of the temperature structure with the core of coronal streamers*, C. R. Foley, **S. Patsourakos**, J. L. Culhane, D. MacKay, 2002, *Astronomy & Astrophysics*, 381, 1049
- R7** *Intermittent behavior in the transition region and the low corona of the quiet Sun*, **S. Patsourakos**, J-C Vial, 2002, *Astronomy Astrophysics*, 385, 1073
- R8** *SOHO Contribution to Prominence Science*, **S. Patsourakos**, J-C Vial, 2002, *Solar Physics*, 208, 253
- R9** *Ion Effective Temperatures in Polar Coronal Holes: Observations versus Ion-Cyclotron Resonance*, **S. Patsourakos**, S. R. Habbal, Y.Q. Hu, 2002, *Astrophysical Journal*, 581, 125
- R10** *The Inability of Steady-Flow Models to Explain the Extreme-Ultraviolet Coronal Loops*, **S. Patsourakos**, J. A. Klimchuk, P. J. MacNeice, 2004, *Astrophysical Journal*, 603, 322
- R11** *A Model for Bright Extreme-Ultraviolet Knots in Solar Flare Loops*, **S. Patsourakos**, S. K. Antiochos, J. A. Klimchuk , 2004, *Astrophysical Journal*, 614, 1022
- R12** *Coronal Loop Heating by Nanoflares: The Impact of the Field-aligned Distribution of the Heating on Loop Observables*, **S. Patsourakos** J. A. Klimchuk , 2005, *Astrophysical Journal*, 628, 1023
- R13** *Non-thermal Spectral Line Broadening and the Nanoflare Model*, **S.Patsourakos**, J. A. Klimchuk, 2006, *Astrophysical Journal*, 647, 1452
- R14** *The Quiet Sun Network at Subarcsecond Resolution: VAULT Observations and Radiative Transfer Modeling of Cool Loops*, **S. Patsourakos**,P. Gouttebroze, P., A. Vourlidas, 2007, *Astrophysical Journal*, 664, 1214
- R15** *The Cross-Field Thermal Structure of Coronal Loops from Triple-Filter TRACE Observations*, **S. Patsourakos**, J. A. Klimchuk, 2007, *Astrophysical Journal*, 667, 591
- R16** *STEREO SECCHI Stereoscopic Observations Constraining the Initiation of Polar Coronal Jets*, **S. Patsourakos**, E. Pariat, A. Vourlidas, S. K. Antiochos, J. P. Wuelser, 2008, *Astrophysical Journal*, 680,73
- R17** *Highly Efficient Modeling of Dynamic Coronal Loops*, J. A., Klimchuk, **S. Patsourakos**, P. J. Cargill, 2008, *Astrophysical Journal*,682, 1351
- R18** *Static and Impulsive Models of Solar Active Regions*, **S. Patsourakos**, J. A. Klimchuk, 2008, *Astrophysical Journal*, 689, 1406
- R19** *Spectroscopic Observations of Hot Lines Constraining Coronal Heating in Solar Active Regions*, **S. Patsourakos**, J. A. Klimchuk, 2009, *Astrophysical Journal*, 696, 760
- R20** *"Extreme Ultraviolet Waves" are Waves: First Quadrature Observations of an Extreme Ultraviolet Wave from STEREO*, **S. Patsourakos**, A. Vourlidas, 2009, *Astrophysical Journal*, 700, 182

- R21** *No Trace Left Behind: STEREO Observation of a Coronal Mass Ejection Without Low Coronal Signatures*, E. Robbrecht, **S. Patsourakos**, A. Vourlidas, 2009, *Astrophysical Journal*, 701, 283
- R22** *Estimating the Chromospheric Absorption of Transition Region Moss Emission*, D. De Pontieu, V. Hansteen, S. W. McIntosh, **S. Patsourakos**, 2009, *Astrophysical Journal*, 702, 1016
- R23** *What Is the Nature of EUV Waves? First STEREO 3D Observations and Comparison with Theoretical Models*, **S. Patsourakos**, A. Vourlidas, Y. M. Wang, G. Stenborg, A. Thernisien, 2009, *Solar Physics*, 259, 49
- R24** *Characteristics of EUV Coronal Jets Observed with STEREO/SECCHI*, G. Nistic, V. Bothmer, **S. Patsourakos**, G. Zimbardo, 2009, *Solar Physics*, 259,87
- R25** *Extreme Ultraviolet Observations and Analysis of Micro-Eruptions and Their Associated Coronal Waves*, O. Podladchikova, A. Vourlidas, R. A. Van der Linden, J. P., Wuslser, **S. Patsourakos**, 2010, *Astrophysical Journal*, 709, 369
- R26** *The Structure and Dynamics of the Upper Chromosphere and Lower Transition Region as Revealed by the Subarcsecond VAULT Observations*, A. Vourlidas, B. Sanchez Andrade-Nuno, E. Landi, **S. Patsourakos**, L. Teriaca, U. Schuhle, C. M. Korendyke, I. Nestoras, 2010, *Solar Physics*, 261, 53
- R27** *Observational features of equatorial coronal hole jets*, G. Nistico, V. Bothmer, **S. Patsourakos**, G. Zimbardo, 2010, *Annales Geophysicae*, 28, 687
- R28** *Comprehensive Analysis of Coronal Mass Ejection Mass and Energy Properties Over a Full Solar Cycle*, A. Vourlidas, R. A. Howard, E. Esfandiari, **S. Patsourakos**, S. Yashiro, G. Michalek, 2010, *Astrophysical Journal*, 722, 1522
- R29** *Toward understanding the early stages of an impulsively accelerated coronal mass ejection. SECCHI observations*, **S. Patsourakos**, A. Vourlidas, B. Kliem, 2010, *Astronomy and Astrophysics*, 522, 100
- R30** *The Genesis of an Impulsive Coronal Mass Ejection Observed at Ultra-high Cadence by AIA on SDO*, **S. Patsourakos**, A. Vourlidas, G. Stenborg, 2010, *Astrophysical Journal*, 724, 188
- R31** *Evidence for a current sheet forming in the wake of a coronal mass ejection from multi-viewpoint coronagraph observations*, **S. Patsourakos**, A. Vourlidas, 2011, *Astronomy and Astrophysics*, 525, 27
- R32** *Determination of temperature maps of EUV coronal hole jets*, G. Nistic, **S. Patsourakos**, V. Bothmer, G. Zimbardo, 2011, *Advances in Space Research*, 48, 1490
- R33** *LEMUR: Large European module for solar Ultraviolet Research*, Teriaca, L. Andretta, V. Auchère, F., Brown, C. M., Buchlin, E., Cauzzi, G., Culhane, J. L., Curdt, W., Davila, J. M., Del Zanna, G., Doschek, G. A., Fineschi, S. Fludra, A., Gallagher, P. T., Green, L., Harra, L. K., Imada, S., Innes, D., Kliem, B., Korendyke, C., Mariska, J. T., Martínez-Pillet, V., Parenti, S., **Patsourakos S.**, Peter, H., Poletto, L., Rutten, R. J., Schühle, U., Siemer, M., Shimizu, T., Socas-Navarro, H., Solanki, S. K., Spadaro, D., Trujillo-Bueno, J., Tsuneta, S., Dominguez, S. V., Vial, J.-C., Walsh, R., Warren, H. P., Wiegelmann, T., Winter, B., Young, P., 2012 *Experimental Astronomy*, 34, 273
- R34** *On the Role of the Background Overlying Magnetic Field in Solar Eruptions*, A. Nindos, **S. Patsourakos**, T. Wiegelmann, 2012, *Astrophysical Journal*, 748, 6

- R35** *On the Nature and Genesis of EUV Waves: A Synthesis of Observations from SOHO, STEREO, SDO, and Hinode*, **S. Patsourakos**, A. Vourlidas, 2012, *Solar Physics*, 281, 187
- R36** *Direct Evidence for a Fast CME Driven by the Prior Formation and Subsequent Destabilization of a Magnetic Flux Rope*, **S. Patsourakos**, A. Vourlidas, G. Stenborg, 2013, *ApJ*, 764, 125
- R37** *Spectral diagnostic of a micro-flare. Evidences of resonant scattering in C iv 1548 Å, 1550 Å lines*, C. Gontikakis, A. R. Winebarger, **S. Patsourakos**, 2013, *Astronomy and Astrophysics*, 550, 16
- R38** *Combining Particle Acceleration and Coronal Heating via Data-Constrained Calculations of Nanoflares in Coronal Loops*, C. Gontikakis, **S. Patsourakos**, C. Efthymiopoulos, A. Anastasiadis, M. K. Georgoulis, 2013, *Astrophysical Journal*, 771,126
- R39** *Hot coronal loops associated with umbral brightenings*, C. E. Alissandrakis, **S. Patsourakos**, 2013, *Astronomy and Astrophysics*, 556,79
- R40** *Microwave and EUV Observations of an Erupting Filament and Associated Flare and CME*, C. E. Alissandrakis, A. A. Kochanov, **S. Patsourakos**, A. T. Altyntsev, S. V. Lesovoi, N. N. Lesovoya 2013, *Publications of the Astronomical Society of Japan*, 65, 8
- R41** *Core and Wing Densities of Asymmetric Coronal Spectral Profiles: Implications for the Mass Supply of the Solar Corona*, **S. Patsourakos**, J. A. Klimchuk, P. R. Young, 2014, *Astrophysical Journal*, 781,58
- R42** *CME Expansion as the Driver of Metric Type II Shock Emission as Revealed by Self-consistent Analysis of High-Cadence EUV Images and Radio Spectrograms*, Kouloumvakos, A, **S. Patsourakos**, A. Hillaris, A. Vourlidas, P. Preka-Papadema, X. Moussas, C. Caroubalos, P. Tsitsipis, A. Kontogeorgos, 2014, *Solar Physics*, 289, 2123
- R43** *How Common Are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations*, A. Nindos, **S. Patsourakos**, A. Vourlidas, C. Tagikas, 2015, *ApJ*, 808, 117
- R44** *Formation of Flux Ropes during Confined Flaring Well Before the Onset of a Major CME Event*, G. Chintzoglou **S. Patsourakos**, A. Vourlidas, 2015, *ApJ*, 809, 34
- R45** *A tiny event producing an interplanetary type III burst*, C. Alissandrakis, A. Nindos, **S. Patsourakos**, A. Kontogeorgos, P. Tsitsipis, 2015, *&*, 582, 52
- R46** *North-South asymmetry in the magnetic deflection of polar coronal hole jets*, G. Nistico, G. Zimbardo, S. Patsourakos, **S. Patsourakos**, V. Bothmer, V. M. Nakariakov, 2015, *A&A*, 583, 127
- R47** *The Major Solar Eruptions of 7 March 2012: Comprehensive Sun-to-Earth Analysis* **S. Patsourakos**, M. Georgoulis, A. Vourlidas, A. Nindos, A. Kouloumvakos, O. Podlachikova, I. A. Daglis, C. Katsavrias, K. Tziotziou, K. Moraitis, C. Gontikakis, A. Anastasiadis, C. Tsironis, O.E. Malandraki, G. Balasis, M. Georgiou, I. Sandberg, C. Papadimitriou, D. L. Turner, E. Sarris, I. Voyatzis, G. Anagnostopoulos, T. Sarris, D. Sarafopoulos, G. Pavlos, A.C. Iliopoulos, E. G. Pavlos, L.P. Karakatsanis, M. Xenakis, P. Syntelis, N. Hatzi-georgiou, T. Nieves-Chinchilla, G. Chintzoglou, K. Tsinganos, L. Vlahos, 2016, *ApJ*, 817, 14
- R48** *Solar Coronal Jets: Observations, Theory, and Modeling*, N.-E. Raouafi, **S. Patsourakos**, E. Pariat, H. Mason, A. Sterling, W. Curdt, P. Young, K. Mayer, F. Moreno-Insertis, K. Dalmasse, A. Savcheva, M. Shimojo, Y. Matsui, R. DeVore, V. Archontis, T. Török , P.

- Syntelis, S. K. Antiochos, E. DeLuca, 2016, SSRV, 201,1
- R49** *Multi-viewpoint Observations of a Widely Distributed Solar Energetic Particle Event: the Role of EUV Waves and White-Light Signatures*, A. Kouloumvakos, **S. Patsourakos**, A. Nindos, A. Vourlidas, A. Anastasiadis, A. Hillaris, I. Sandberg, 2016, ApJ, 821, 31
- R50** *Intensity Conserving Spline Interpolation (ICSI): A New Tool For Spectroscopic Analysis*, J. A. Klimchuk, **S. Patsourakos**, D. Tripathi, 2016, Solar Physics, 291, 55
- R51** *The spectroscopic imprint of the pre-eruptive configuration resulting into two major Coronal Mass Ejections*, P. Syntelis, C. Gontikakis **S. Patsourakos**, K. Tsinganos, 2016, A&A, 588,16
- R52** *Near-Sun and 1 AU magnetic field of coronal mass ejections: a parametric study*, **S. Patsourakos**, M. K. Georgoulis, 2016, A&A, 595, 121
- R53** *A Helicity-Based Method to Infer the CME Magnetic Field Magnitude in Sun and Geospace: Generalization and Extension to Sun-Like and M-Dwarf Stars and Implications for Exoplanet Habitability*, **S. Patsourakos**, M. K. Georgoulis, 2017, Solar Physics, 292, 89
- R54** *Evidence for two-loop interaction from IRIS and SDO observations of penumbral brightenings*, C. E. Alissandrakis, A. Koukras, **S. Patsourakos**, A. Nindos, 2017, A&A, 603, 95
- R55** *Center-to-limb observations of the Sun with ALMA*, Alissandrakis, C. E., **Patsourakos S.**, Nindos, A. Bastian, T. S., De Pontieu, B., Warren, H., Ayres, T., Hudson, H. S., Shimizu, T., Vial, J. -C., Wedemeyer, S., Yurchyshyn, V., 2018, 619, 6, A&A
- R56** *Modeling of the Sunspot-Associated Microwave Emission Using a New Method of DEM Inversion*, C. E. Alissandrakis, V. M. Bogod, T. I. Kaltman, **S. Patsourakos** & N. G. Peterova, 2019, Sol. Phys, 294, 23
- R57** *Predicting the geoeffective properties of coronal mass ejections: current status, open issues and path forward*, A. Vourlidas, **S. Patsourakos**, N. P. Savani, 2019, Philosophical Transactions of the Royal Society of London Series A, 377, 20180096
- R58** *Observations of solar chromospheric oscillations at 3 mm with ALMA*, **S. Patsourakos**, C. E. Alissandrakis, A. Nindos, T. S. Bastian, 2019, A&A, 634, 86
- R59** *Interplanetary Coronal Mass Ejections as the Driver of Non-recurrent Forbush Decreases*, A. Papaioannou , A. Belov , M. Abunina , E. Eroshenko , A. Abunin, A. Anastasiadis, **S. Patsourakos**, and H. Mavromichalaki, ApJ, 2020, 890, 101
- R60** *Transient brightenings in the quiet Sun detected by ALMA at 3 mm*, A. Nindos, C. E., Alissandrakis, **S. Patsourakos**, T. S. Bastian, 2020, A&A, 638, 62
- R61** *Modeling the quiet Sun cell and network emission with ALMA* , C. E. Alissandrakis, A. Nindos, T. S. Bastian, **S. Patsourakos** 2020, 640, 57, A&A
- R62** *The Solar Orbiter Science Activity Plan. Translating solar and heliospheric physics questions into action*, Zouganelis, I.; De Groof, A.; Walsh, A. P.; Williams, D. R.; M?ller, D.; St Cyr, O. C.; Auch?re, F.; Berghmans, D.; Fludra, A.; Horbury, T. S.; Howard, R. A.; Krucker, S.; Maksimovic, M.; Owen, C. J.; Rodr?guez-Pacheco, J.; Romoli, M.; Solanki, S. K.; Watson, C.; Sanchez, L.; Lefort, J.; Osuna, P.; Gilbert, H. R.; Nieves-Chinchilla, T.; Abbo, L.; Alexandrova, O.; Anastasiadis, A.; Andretta, V.; Antonucci, E.; Appourchaux, T.; Aran, A.; Arge, C. N.; Aulanier, G.; Baker, D.; Bale, S. D.; Battaglia, M.; Bellot Rubio, L.; Bemporad, A.; Berthomier, M.; Bocchialini, K.; Bonnin, X.; Brun, A. S.; Bruno, R.; Buchlin, E.; B?chner, J.; Bucik, R.; Carcaboso, F.; Carr, R.; Carrasco-

- Blázquez, I.; Cecconi, B.; Cernuda Cangas, I.; Chen, C. H. K.; Chitta, L. P.; Chust, T.; Dalmasse, K.; D'Amicis, R.; Da Deppo, V.; De Marco, R.; Dolei, S.; Dolla, L.; Dudok de Wit, T.; van Driel-Gesztelyi, L.; Eastwood, J. P.; Espinosa Lara, F.; Etesi, L.; Fedorov, A.; Félix-Redondo, F.; Fineschi, S.; Fleck, B.; Fontaine, D.; Fox, N. J.; Gandorfer, A.; Gnot, V.; Georgoulis, M. K.; Gissot, S.; Giunta, A.; Gizon, L.; Gómez-Herrero, R.; Gontikakis, C.; Graham, G.; Green, L.; Grundy, T.; Haberreiter, M.; Harra, L. K.; Hassler, D. M.; Hirzberger, J.; Ho, G. C.; Hurford, G.; Innes, D.; Issautier, K.; James, A. W.; Janitzek, N.; Janvier, M.; Jeffrey, N.; Jenkins, J.; Khotyaintsev, Y.; Klein, K. -L.; Kontar, E. P.; Kontogiannis, I.; Krafft, C.; Krasnoselskikh, V.; Kretzschmar, M.; Labrosse, N.; Lagg, A.; Landini, F.; Lavraud, B.; Leon, I.; Lepri, S. T.; Lewis, G. R.; Liewer, P.; Linker, J.; Livi, S.; Long, D. M.; Louarn, P.; Malandraki, O.; Maloney, S.; Martinez-Pillet, V.; Martinovic, M.; Masson, A.; Matthews, S.; Matteini, L.; Meyer-Vernet, N.; Moraitis, K.; Morton, R. J.; Musset, S.; Nicolaou, G.; Nindos, A.; O'Brien, H.; Orozco Suarez, D.; Owens, M.; Pancrazzi, M.; Papaioannou, A.; Parenti, S.; Pariat, E.; **Patsourakos S.**; Perrone, D.; Peter, H.; Pinto, R. F.; Plainaki, C.; Plettemeier, D.; Plunkett, S. P.; Raines, J. M.; Raouafi, N.; Reid, H.; Retino, A.; Rezeau, L.; Rochus, P.; Rodriguez, L.; Rodriguez-Garcia, L.; Roth, M.; Rouillard, A. P.; Sahraoui, F.; Sasso, C.; Schou, J.; Schühle, U.; Sorriso-Valvo, L.; Soucek, J.; Spadaro, D.; Stangalini, M.; Stansby, D.; Steller, M.; Strugarek, A.; Tverek, ?.; Susino, R.; Telloni, D.; Terasa, C.; Teriaca, L.; Toledo-Redondo, S.; del Toro Iniesta, J. C.; Tsiropoula, G.; Tsounis, A.; Tziotziou, K.; Valentini, F.; Vaivads, A.; Vecchio, A.; Velli, M.; Verbeeck, C.; Verdini, A.; Verscharen, D.; Vilmer, N.; Vourlidas, A.; Wicks, R.; Wimmer-Schweingruber, R. F.; Wiegmann, T.; Young, P. R.; Zhukov, A. N., 642, 3, 2020, A&A
- R63** *The Solar Orbiter Heliospheric Imager (SoloHI)*, R. A. Howard, A. Vourlidas, R. C. Colaninno, C. M. Korendyke, S. P. Plunkett, M. T. Carter, D. Wang, N. Rich, S. Lynch, A. Thurn, D. G. Socker, A. F. Thernisien, D. Chua, M. G. Linton, S. Koss, S. Tun-Beltran, H. Dennison, G. Stenborg, D. R. McMullin, T. Hunt³, R. Baugh³, G. Clifford⁴, D. Keller⁵, J. R. Janesick⁵, J. Tower⁵, M. Grygon⁵, R. Farkas⁵, R. Hagood⁶, K. Eisenhauer⁶, A. Uhl⁶, S. Yerushalmi⁶, L. Smith⁶, P. C. Liewer, M. C. Velli, J. Linker, V. Bothmer, P. Rochus, J.-P. Halain, P. L. Lamy, F. Auchère, R. A. Harrison, A. Rouillard, **S. Patsourakos**, O. C. St. Cyr, H. Gilbert, H. Maldonado, C. Mariano and J. Cerullo, 2020 A&A, 642, 13
- R64** *When do solar erupting hot magnetic flux ropes form?*, A. Nindos, S. Patsourakos, A. Vourlidas, X. Cheng, J. Zhang, 2020, A&A, 642, 109
- R65** *Decoding the Pre-Eruptive Magnetic Field Configurations of Coronal Mass Ejections*, **S. Patsourakos**, A. Vourlidas, T. Torok, B. Kliem, S. K. Antiochos, V. Archontis, G. Aulanier, X. Cheng, G. Chintzoglou, M.K. Georgoulis, L.M. Green, J. E. Leake, R. Moore, A. Nindos, P. Syntelis, S. L. Yardley, V. Yurchyshyn, J. Zhang, 2020, Space Science Reviews, Volume 216, 231
- R66** *A Readily Implemented Atmosphere Sustainability Constraint for Terrestrial Exoplanets Orbiting Magnetically Active Stars*, E. Samara, **S. Patsourakos**, M. K. Georgoulis, 2021, ApJL, 909, 12 (**Not within the scope of the evaluated research subject.**)
- R67** *Relative field line helicity of a large eruptive solar active region*, K. Moraitis, **S. Patsourakos**, A. Nindos, 2021, A&A, 649, 107
- R68** *Tracking solar wind flows from rapidly varying viewpoints by the Wide-field Imager for Parker Solar Probe*, A. Nindos, **S. Patsourakos**, A. Vourlidas, Liewer, P. C. ; Pentead, P., Hall, J. R., 2021, A&A, 650, 30

- R69** *ALMA observations of the variability of the quiet Sun at millimeter wavelengths*, A. Nindos, **S. Patsourakos**, C. E. Alissandrakis, T. S. Bastian, 2021, *A&A*, 652, 92
- R70** *Multiwavelength observations of a metric type-II event*, C. E. Alissandrakis, A. Nindos, **S. Patsourakos**, A. Hilaris, 2021, *A&A*, 654, 112
- R71** *Earth-affecting solar transients: a review of progresses in solar cycle 24*, J. Zhang, M. T., Manuela, N. Gopalswamy, O. Malandraki, N. N. Nitta, **S. Patsourakos**, S. Fang, B. Vr?nak, Y. Wang, D. Webb, Mihir, D., K. Dissauer, N. Dresing, M. Dumbovi?, Xueshang, F., S. G. Heinemann, Stephan G., M. Laurenza, N. Lugaz, B. Zhuang, 2021, *Progress in Earth and Planetary Science*, 8, 56
- R72** *First detection of metric emission from a solar surge*, C. E. Alissandrakis, A. Nindos, **S. Patsourakos**, A. Hilaris, 2022, *A&A*, 662, 14
- R73** *The dynamic chromosphere at millimeter wavelengths*, A. Nindos, **S. Patsourakos**, S. Jafarzadeh, M. Shimojo 2022, *Frontiers in Astronomy and Space Sciences*, vol. 9, id. 981205
- R74** *How Magnetic Erosion Affects the Drag-Based Kinematics of Fast Coronal Mass Ejections*, S. Stamkos, **S. Patsourakos**, A. Vourlidas, I.A. Daglis, 2023, *Solar Physics*, 298, 88
- R75** *Constraints on the variable nature of the slow solar wind with the Wide-Field Imager on board the Parker Solar Probe*, **S. Patsourakos**, A. Vourlidas, A. Nindos, 2023, *A&A*, 676, 125
- R76** *On the use of relative field line helicity as an indicator for solar eruptivity*, K. Moraitis, **S. Patsourakos**, A. Nindos, Thalmann, J.K. , Pariat E., 2023, *A&A*, 676, 125
- R77** *Multiwavelength Study of on-disk Coronal Hole Jets with IRIS and SDO observations*, M. Koletti, C. Gontikakis, **S. Patsourakos**, K. Tsinganos, 2024, *A&A*, 690, 11
- R78** *Assessment of the Near-Sun Magnetic Field of the 10 March 2022 Coronal Mass Ejection Observed by Solar Orbiter*, S. Koya, **S. Patsourakos**, M. K. Georgoulis, A. Nindos, 2024, *A&A*, 690, 233
- R79** *Case studies on pre-eruptive X-class flares using R-value in the lower solar atmosphere*, S. Biswal, M. B. Korsos, M. K. Georgoulis, A. Nindos, **S. Patsourakos**, R. Erdelyi, 2024, *ApJ*, 974, 259
- R80** *Magnetic helicity and energy budgets of jet events from an emerging solar active region* , A. Nindos, **S. Patsourakos**, K. Moraitis, V. Archontis, E. Liokati, M. K. Georgoulis, A. A. Norton, 2024, 689, L11, *A&A*

22 Review Articles

- REV1** *High-resolution EUV imaging and spectroscopy of the corona*, **S. Patsourakos** J-C Vial, In: *Solar encounter. Proceedings of the First Solar Orbiter Workshop*, 14 - 18 May 2001, Puerto de la Cruz, Tenerife, Spain. Eds.: B. Battrick & H. Sawaya-Lacoste, Scientific coordinators: E. Marsch, V. Marinéz Pillet, B. Fleck & R. Marsden. ESA SP-493, Noordwijk: ESA Publications Division, ISBN 92-9092-803-4, 2001, p. 13
- REV2** *SOHO Contribution to Prominence Science*, **S. Patsourakos** J-C Vial, 2002, *Solar Physics*, 208, 253
- REV3** *Constraining the Initiation and Early Evolution of CMEs*, 2011, **S. Patsourakos**, The

Sun, the Solar Wind, and the Heliosphere, by M.P. Miralles and J. Sanchez Almeida. Proceedings of the conference held 23-30 August, 2009 in Sopron, Hungary. IAGA Special Sopron Book Series, Vol. 4. Berlin: Springer, 2011. ISBN: 978-90-481-9786-6, p.73

REV4 *On the Nature and Genesis of EUV Waves: A Synthesis of Observations from SOHO, STEREO, SDO, and Hinode*, **S. Patsourakos**, A. Vourlidas, 2012, Solar Physics, 281,187

REV5 *Coronal Mass Ejections: From Sun to Earth*, **S. Patsourakos**, 2016, Hipparchos, 2, 17

REV6 *Solar Coronal Jets: Observations, Theory, and Modeling*, N.-E. Raouafi, **S. Patsourakos**, E. Pariat, H. Mason, A. Sterling, W. Curdt, P. Young, K. Mayer, F. Moreno-Insertis, K. Dalmasse, A. Savcheva, M. Shimojo, Y. Matsui, R. DeVore, V. Archontis, T. Török, P. Syntelis, S. K. Antiochos, E. DeLuca, 2016, SSRV, 201,1

REV7 *Predicting the geoeffective properties of coronal mass ejections: current status, open issues and path forward*, A. Vourlidas, **S. Patsourakos**, N. P. Savani, 2019, Philosophical Transactions of the Royal Society of London Series A, 377, 20180096

REV8 *Decoding the Pre-Eruptive Magnetic Field Configurations of Coronal Mass Ejections*, **S. Patsourakos**, A. Vourlidas, T. Torok, B. Kliem, S. K. Antiochos, V. Archontis, G. Aulanier, X. Cheng, G. Chintzoglou, M.K. Georgoulis, L.M. Green, J. E. Leake, R. Moore, A. Nindos, P. Syntelis, S. L. Yardley, V. Yurchyshyn, J. Zhang, 2020, Space Science Reviews, Volume 216, 231

REV9 *Earth-affecting solar transients: a review of progresses in solar cycle 24*, J. Zhang, M. T., Manuela, N. Gopalswamy, O. Malandraki, N. N. Nitta, **S. Patsourakos**, S. Fang, B. Vr?nak, Y. Wang, D. Webb, Mihir, D., K. Dissauer, N. Dresing, M. Dumbovi?, Xueshang, F., S. G. Heinemann, Stephan G., M. Laurenza, N. Lugaz, B. Zhuang, 2021, Progress in Earth and Planetary Science, 8, 56

REV10 *The dynamic chromosphere at millimeter wavelengths*, A. Nindos, **S. Patsourakos**, S. Jafarzadeh, M. Shimojo 2022, Frontiers in Astronomy and Space Sciences, vol. 9, id. 981205

23 Articles in Press

SUB1 *Prediction of Solar Eruptive Events Impacting Space Weather Conditions*, M. K. Georgoulis, S L Yardley, J A Guerra, S A Murray, A Ahmadzadeh, A Anastasiadis, R Angryk, B Aydin, D Banerjee, G Barnes, A Bemporad, F Benvenuto, D. S Bloomfield, M Bobra, C Campi, E Camporeale, C E DeForest, A. G Emslie, D Falconer, L Feng, W Gan, L M Green, S Guastavino, M Hapgood, D Kempton, I Kitiashvili, I Kontogiannis, M B Korsos, K. D. Leka, P Massa, A M Massone, D Nandy, A Nindos, A Papaioannou, S-H Park, **S. Patsourakos**, M Piana, N. E Raouafi, V M Sadykov, S Toriumi, A Vourlidas, H Wang, J T L Wang, K Whitman, Y Yan, A N Zhukov, 2024, Advances in Space Research

24 Technical Reports

TR1 *Comparison of Algorithms for Near Real-Time Flare Location with Solar Truth*, S. P. Plunkett, J.S. Newmark, D. R. McMullin, **S. Patsourakos**, V. Kunkel, 2009, report prepared for NOAA/SWPC

25 Publications in Conference Proceedings

- PR1** Simulated White-Light Images of Coronal Structures as obtained by the CORI Imager On-Board a Solar Probe, S. Patsourakos J.-C Vial , 1997, *Robotic Exploration Close to the Sun: Scientific Basis*. Marlboro, MA, April 1996. Edited by Shadia Rifai Habbal. AIP Conference Proceedings, vol. 385. American Institute of Physics, Woodbury, NY, 1997., p.129
- PR2** Low Transition-Region Characteristics of Equatorial Coronal Holes, S. Patsourakos et al. , 1997, *Fifth SOHO Workshop: The Corona and Solar Wind Near Minimum Activity*. held at Institute of Theoretical Astrophysics. University of Oslo, Norway, 17-20 June, 1997. Edited by A. Wilson, European Space Agency, 1997., p.577
- PR3** Coordinated Observations Between SOHO/SUMER and Ground During the 1998 Total Eclipse: Non-thermal Line Broadenings and Electron Densities in a Polar Coronal Hole, S. Patsourakos, J-C Vial , J-R Gabryl, S. Koutchmy U. Schuhle, *Solar Wind Nine*, Proceedings of the Ninth International Solar Wind Conference, Nantucket, MA, October 1998. Edited by Shaddia Rifai Habbal, Ruth Esser, Joseph V. Hollweg, and Philip A. Isenberg. AIP Conference Proceedings, Vol. 471, 1999., p.285
- PR4** The Coarse Versus the Fine Structure of the Quiet-Sun Chromospheric and Transition Region Network, S. Patsourakos, J-C Vial, A.-H. Gabriel N. Bellamine, 8th SOHO Workshop: Plasma Dynamics and Diagnostics in the Solar Transition Region and Corona. Proceedings of the Conference held 22-25 June 1999 in CAP 15, 1-13 Quai de Grenelle, 75015 Paris, France. Sponsored by ESA, NASA, C.N.R.S.-I.N.S.U., Euroconferences, Institut d'Astrophysique Spatiale, Matra Marconi Space, SCOSTEP, University Paris XI. ESA Special Publications 446. Edited by J.-C. Vial and B. Kaldeich-Sch?mann., p.537
- PR5** Constraints on Ion Temperatures at the Coronal Base of an Interplume Region from Coordinated Eclipse and SOHO Observations, S. Patsourakos J-C Vial, *International Meeting on Eclipses and the Solar Corona*, Institut d'Astrophysique de Paris, April 14 15, 2000
- PR6** High-resolution EUV imaging and spectroscopy of the corona, S. Patsourakos J-C Vial, In: *Solar encounter*. Proceedings of the First Solar Orbiter Workshop, 14 - 18 May 2001, Puerto de la Cruz, Tenerife, Spain. Eds.: B. Battrick H. Sawaya-Lacoste, Scientific coordinators: E. Marsch, V. Marinez Pillet, B. Fleck R. Marsden. ESA SP-493, Noordwijk: ESA Publications Division, ISBN 92-9092-803-4, 2001, p. 13 ? 21
- PR7** Searching the source regions of the fast solar wind in polar coronal holes and the potential of the Solar Orbiter, S. Patsourakos J-C Vial, In: *Solar encounter*. Proceedings of the First Solar Orbiter Workshop, 14 - 18 May 2001, Puerto de la Cruz, Tenerife, Spain. Eds.: B. Battrick H. Sawaya-Lacoste, Scientific coordinators: E. Marsch, V. Marinez Pillet, B. Fleck R. Marsden. ESA SP-493, Noordwijk: ESA Publications Division, ISBN 92-9092-803-4, 2001, p. 321 ? 325
- PR8** What are the Origins of Quiescent Coronal Soft X-Rays? Foley, C. R.;Culhane, J. L.; Patsourakos, S.; Yurow, R.; Moroney, C.; Mackay, D *Multi-Wavelength Observations of Coronal Structure and Dynamics Yohkoh 10th Anniversary Meeting*. Proceedings of the conference held September 17-20, 2001, at King Kamehameha's Kona Beach Hotel in Kailua-Kona, Hawaii, USA. Edited by P.C.H. Martens and D. Cauffman. Published by Elsevier Science on behalf of COSPAR in the COSPAR Colloquia Series, 2002., 341

- PR9** The polar coronal holes and the fast solar wind: Some recent results, S. Patsourakos, S.-R. Habbal, J.-C. Vial, and Y. Q. Hu, Joint SOHO/ACE workshop "Solar and Galactic Composition". Edited by Robert F. Wimmer-Schweingruber. Publisher: American Institute of Physics Conference proceedings vol. 598 location: Bern, Switzerland, March 6 - 9, 2001., p.299
- PR10** Fuzzy hot post-flare loops versus cool post-flare loops, S. Patsourakos, S. K Antiochos J. A. Klimchuk, SOLMAG 2002. Proceedings of the Magnetic Coupling of the Solar Atmosphere Euroconference and IAU Colloquium 188, 11 - 15 June 2002, Santorini, Greece. Ed. H. Sawaya-Lacoste. ESA SP-505. Noordwijk, Netherlands: ESA Publications Division, ISBN 92-9092-815-8, 2002, p. 207 ? 210
- PR11** The Effect of the Spatial Distribution of Nanoflare Heating on Loop Observables, S. Patsourakos J. A. Klimchuk, 2004, Proceedings of the SOHO 15 Workshop - Coronal Heating. 6-9 September 2004, St. Andrews, Scotland, UK (ESA SP-575). Editors: R.W. Walsh, J. Ireland, D. Danesy, B. Fleck. Paris: European Space Agency, 2004., p.297
- PR12** Coronal Loop Heating by Nanoflares: Some Observational Implications, S. Patsourakos J. A. Klimchuk, Proceedings of the 6th Hellenic Society Conference, 15-17 September 2003, Penteli, Athens, Greece, pp 35-40
- PR13** Impulsive Coronal Heating at Sub-arcsecond Scales: What is the Best Diagnostic? , S. Patsourakos J. A. Klimchuk, 2006, Proceedings of the Second Solar Orbiter Workshop, ESA-SP 641

26 Citations

Records as of 16/11/2024.

NASA's ADS, 4065, h-index 34, <http://tinyurl.com/yck6xubt>
 google-scholar,4794, h-index 36, <http://tinyurl.com/mr2sv433>

27 Announcements in Conferences

¹ [T]: talk [P]: poster

- C1** Simulated White-Light Images of Coronal Structures as obtained by the CORI Imager On-Board a Solar Probe, **S. Patsourakos** J.-C Vial , 1997, Robotic Exploration Close to the Sun: Scientific Basis. Marlboro, MA, April 1996 [T]
- C2** Low Transition-Region Characteristics of Equatorial Coronal Holes, **S. Patsourakos** et al., 1997, Fifth SOHO Workshop: The Corona and Solar Wind Near Minimum Activity. held at Institute of Theoretical Astrophysics. University of Oslo, Norway, 17-20 June 1997 [T]
- C3** Coordinated Observations Between SOHO/SUMER and Ground During the 1998 Total Eclipse: Non-thermal Line Broadenings and Electron Densities in a Polar Coronal Hole, S. Patsourakos, J.-C Vial, J.-R Gabryl, S. Koutchmy U. Schuhle, Solar Wind Nine, Ninth International Solar Wind Conference, Nantucket, MA, October 1998 [P]

¹This section contains presentations given only by myself and not presentations where I participated as co-author.

- C4** The Coarse Versus the Fine Structure of the Quiet-Sun Chromospheric and Transition Region Network, S. Patsourakos, J-C Vial, A.-H. Gabriel N. Bellamine, 8th SOHO Workshop: Plasma Dynamics and Diagnostics in the Solar Transition Region and Corona.22-25 June 1999 in CAP 15, 1-13 Quai de Grenelle, 75015 Paris, France [**T**]
- C5** SXR flashes and jetlets in Polar Coronal Holes, **S. Patsourakos** S. Koutchmy, EGS XXV General Assembly, Nice, France, April 2000 [**T**]
- C6** High-resolution EUV imaging and spectroscopy of the corona, **S. Patsourakos** J-C Vial, In: Solar encounter. Proceedings of the First Solar Orbiter Workshop, 14 - 18 May 2001, Puerto de la Cruz, Tenerife, Spain [**T**]
- C7** Searching the source regions of the fast solar wind in polar coronal holes and the potential of the Solar Orbiter, **S. Patsourakos** J-C Vial, In: Solar encounter. Proceedings of the First Solar Orbiter Workshop, 14 - 18 May 2001, Puerto de la Cruz, Tenerife, Spain [**P**]
- C8** Some Recent Results on the Source Regions of the Fast Solar Wind, **S. Patsourakos** J-C Vial, RAS meeting, 2000, London, UK [**T**]
- C9** Hot versus Cool Coronal Loops, S. Patsourakos, S. K. Antiochos J. A. Klimchuk, 2002, American Astronomical Society, 200th AAS Meeting [**P**]
- C10** Fuzzy hot post-flare loops versus cool post-flare loops, S. Patsourakos, S. K Antiochos J. A. Klimchuk, SOLMAG 2002. Proceedings of the Magnetic Coupling of the Solar Atmosphere Euro conference and IAU Colloquium 188, 11 - 15 June 2002, Santorini, Greece. [**T**]
- C11** Cross-field Properties of Coronal Loops from TRACE triple-filter observations, **S. Patsourakos** J. A. Klimchuk, 2002, 1st Coronal Loop Workshop, Orsay, France [**T**]
- C12** Bright Knots in EUV Post-flare Loops: TRACE Observations and 1D Hydrodynamic Modeling, S. Patsourakos, S. K. Antiochos J. A. Klimchuk, American Geophysical Union, Fall Meeting 2002 [**T**]
- C13** Can Steady-state Mass Flows Explain the Non-hydrostatic Cool EUV Coronal Loops In Active Regions? **S. Patsourakos** J. A. Klimchuk, 2003, American Astronomical Society, SPD meeting [**T**]
- C14** Coronal Loop Heating by Nanoflares: Some Observational Implications, **S. Patsourakos** J. A. Klimchuk, 6th Hellenic Society Conference, 15-17 September 2003, Penteli, Athens, Greece [**T**]
- C15** Coronal Loop Heating by High-frequency ion-cyclotron waves, S. Patsourakos, J. A. Klimchuk, The 13th SOHO Workshop Waves, Oscillations and Small-scale Transient Events in the Solar Atmosphere: A Joint View of SOHO and TRACE, Palma de Mallorca, Spain 2003 [**T**]
- C16** Ion effective Temperatures in Polar Coronal Holes: Observations and ion-cyclotron resonant Heating, S. Patsourakos, S. R. Habbal, Coronal Wave Workshop, GSFC, USA, 2003 [**T**]
- C17** Bright EUV Knots in Solar Flare Loops: Constraints on Coronal Heating, S. Patsourakos, S. K. Antiochos J. A. Klimchuk, 2004, American Astronomical Society, SPD meeting [**T**]
- C18** The Effect of the Spatial Distribution of Nanoflare Heating on Loop Observables, **S. Patsourakos** J. A. Klimchuk, 2004, SOHO 15 Workshop - Coronal Heating. 6-9 September 2004, St. Andrews, Scotland, UK [**T**]

- C19** Non-thermal Velocities and the Nanoflare Model, S. Patsourakos, J. A. Klimchuk, 2nd Solar Coronal Loop Workshop and SOLAR-B discussion, Palermo, Italy, 2004 [**T**]
- C20** Coronal Loop Heating by Nanoflares: Non-thermal Velocities, **S. Patsourakos** J. A. Klimchuk, 2005, American Geophysical Union, Spring Meeting 2005 [**P**]
- C21** Coronal Loop Heating by Nanoflares: The Impact of the Field-aligned Distribution of the Heating on Loop Observations, **S. Patsourakos** J. A. Klimchuk, 2005, American Geophysical Union, Spring Meeting 2005 [**P**]
- C22** Spectroscopic Diagnostics of Nanoflare Heating in Coronal Loops, **S. Patsourakos** J. A. Klimchuk, 2005, 7th Hellenic Society Conference, 2005, Kefallonia [**T**]
- C23** Testing Nanoflare Heating in Coronal Loops With Observations From the Extreme Ultraviolet Imaging Spectrometer On-board the SOLAR-B Mission, **S. Patsourakos** J. A. Klimchuk, 2006, American Astronomical Society, Solar Physics Division 2006 meeting, 2006 [**P**]
- C24** Impulsive Coronal Heating At Sub- Arcsecond Scales: What Is The Best Diagnostic?, S. Patsourakos, J. A. Klimchuk, 2006, Second Solar Orbiter Workshop, Athens, Greece, 2006 [**T**]
- C25** Cool Loops in the Quiet Sun Network: VAULT Observations and the Promise of Solar Orbiter, S. Patsourakos, P. Goutebroze A. Vourlidas, 2006, Second Solar Orbiter Workshop, Athens, Greece, 2006 [**P**]
- C26** Modeling Active Regions with Steady and Impulsive Heating S. Patsourakos, J. A. Klimchuk, 2007 American Astronomical Society Meeting 210 [**P**]
- C27** The Cross-field Thermal Structure of Coronal Loops From Triple-filter TRACE Observations, S. Patsourakos, J. A. Klimchuk, 2007, 3rd Coronal Loops Workshop, Santorini, Greece [**T**]
- C28** Towards a Better Understanding of CME Onsets with SECCHI on STEREO, S. Patsourakos, A. Vourlidas, 2007, American Geophysical Union, Fall Meeting 2007 [**P**]
- C29** Towards a Better Understanding of CME onsets, S. Patsourakos, 2007 6th SECCHI Consortium Meeting, 15-16 Nov 2007, Pasadena CA, USA [**T**]
- C30** The SECCHI View of EIT Waves, S. Patsourakos, A. Vourlidas, G. Stenborg, 2008, EGU General Assembly 2008, Vienna, Austria, 13 - 18 April 2008 [**T**]
- C31** Understanding the Initiation of Polar Coronal Jets with STEREO/SECCHI Stereoscopic Observations, Vourlidas, A., Patsourakos, S., Pariat, E., Antiochos, S., 2008, American Geophysical Union, Spring Meeting 2008 [**T**]
- C32** Hot Spectral Emissions in Quiescent Active Regions and Nanoflare Heating, Patsourakos, S., Klimchuk, J. A., 2008, American Geophysical Union, Spring Meeting 2008 [**T**]
- C33** How multi-viewpoint/temperature high-cadence SECCHI observations can constrain the physics of EUV waves, **S. Patsourakos** et al, 2008, 7th SECCHI Consortium Meeting, 23-24 Apr 2008, Meudon-Paris, France [**T**]
- C34** STEREO Observations of EUV Waves, S. Patsourakos, 2008 Solar, Heliospheric and Interplanetary Environment (SHINE) Workshop, June 2008, Zermatt, Utah, USA. [**T**]
- C35** STEREO Observations of EUV Waves, S. Patsourakos, A. Vourlidas, G. Stenborg, A. Thernisien and Y. M. Wang, 2008 8th SECCHI Consortium Meeting, 22-24 Oct 2008, NRL, Washington-DC, USA, [**T**]

- C36** STEREO Observations of a post-CME Current Sheet, Patsourakos, S., Vourlidas, A., Stenborg, G. American Geophysical Union, Fall Meeting 2008 [T]
- C37** Constraints on impulsively accelerated CMEs from STEREO observations, S. Patsourakos, STEREO 3 / SOHO 22, Apr 27 - May 1, 2009, Dorset, England [T]
- C38** Spectroscopic Observations of Hot Lines Constraining Coronal Heating in Solar Active Regions, 2009, 2009 AAS/Solar Physics Division Meeting [P]
- C39** Quadrature STEREO Observations Determine the Nature of EUV Waves, Kliem, Bernhard, Patsourakos, S., Vourlidas, A., Ontiveros, V., 2009, 2009 AAS/Solar Physics Division Meeting [T]
- C40** CONSTRAINTS ON CME INITIATION AND EARLY EVOLUTION FROM SECCHI ON STEREO, S. Patsourakos, 2009, 2009 General Assembly of IAGA, Sopron, Hungary [T]
- C41** STEREO Observations Determine the Nature of EUV Waves, S. Patsourakos, A. Vourlidas, 2009, The 9th Hellenic Astronomical Conference, Athens [T]
- C42** The Genesis of an Impulsive CME observed by AIA on SDO, Patsourakos, S., Vourlidas, A., Stenborg, G., 2010, American Geophysical Union, Fall Meeting 2010 [T]
- C43** The Role of Chromospheric Evaporation into Coronal Mass Supply, S. Patsourakos, 2011, The Fifth Coronal Loops Workshop, Palma (Mallorca) [T]
- C44** EUV Waves: The Evolving View from SOHO to Hinode, STEREO and SDO, 2011 Stereo-4/SDO-2/SOHO-25 Workshop, Kiel Germany [T]
- C45** Constraining a Model for EUV Wave Formation with SDO and STEREO Quadrature Observations, Patsourakos, S., Vourlidas, A., Olmedo, O., 2011, 10th Hellenic Astronomical Conference, Ioannina [T]
- C46** Signatures of Impulsive Coronal Heating in Warm and Hot Spectral Lines, S. Patsourakos, J. A. Klimchuck, P. R. Young, 13th European Solar Physics Meeting Rhodes, Greece, 12-16 September 2011 [T]
- C47** Implications for the Mass Supply of the Solar Corona from the Density of Asymmetric Coronal Spectral Profiles, S. Patsourakos, J. A. Klimchuck, P. R. Young, 26th IUGG General Assembly, Prague, Czech Republic, June 22-July 2 2015 [P]
- C48** Parametric Study of a Helicity-based Method to Infer the Near-Sun Magnetic Field of Coronal Mass Ejections, S. Patsourakos, M. K. Georgoulis, 16th IUGG General Assembly, Prague, Czech Republic, June 22-July 2 2015 [P]
- C49** A Helicity-based Method to Infer the Near-Sun Magnetic Field of Coronal Mass Ejections: Parametric Study and Comparison with Observations at 1 AU, S. Patsourakos, M. K. Georgoulis, 12th Hellenic Astronomical Conference, Thessaloniki, Greece, 28 June -2 July 2015 [T]
- C50** EUV Coronal Waves: Atmospheric and Heliospheric Connections and Energetics, **S. Patsourakos**, 2015 AGU Fall, San Francisco, USA, 14-18 December 2015.
- C51** Using the Magnetic Helicity Conservation Principle to Infer the Magnetic Field Magnitude of Solar and Stellar Coronal Mass Ejections, S. Patsourakos, M. K. Georgoulis, European Week of Astronomy and Space Science, Athens, Greece, July 4-8 2016 [T]
- C52** Assessing the Role of Small versus Large Confined Flaring Events Into Building the Magnetic Configurations Resulting into Major Coronal Mass Ejections, S. Patsourakos,

European Week of Astronomy and Space Science, Athens, Greece, July 4-8 2016 [P]

- C53** Observations of Coronal Mass Ejections: Recent Results and Upcoming Developments, **S. Patsourakos**, The 13th Hellenic Astronomical Conference, Heraklion, Greece, 2-6 July 2017 [T]
- C54** Sheared Magnetic Arcades and the Pre-eruptive Magnetic Configuration of Coronal Mass Ejections: Diagnostics, Challenges and Future Observables, **S. Patsourakos**, A. Vourlidas, S. K. Athiochos, V. Archontis, V., G. Aulanier, X. Cheng, G. Chintzoglou, M. K. Georgoulis, L. M Green, B. Kliem, J. Leake, R. L. Moore, A. Nindos, P. Syntelis, T. Torok, S. L. Yardley, V. Yurchyshyn, J. Zhang, Solar Atmospheric and Interplanetary Environment (SHINE 2019), August, 2019, Boulder CO (USA). [T]
- C55** Deriving the Near-Sun Magnetic Field of Coronal Mass Ejections from Magnetic Helicity Conservation, **S. Patsourakos**, M. K. Georgoulis, G. Petroulea, A. Vourlidas, T. Nieves-Chinchilla, Solar Atmospheric and Interplanetary Environment (SHINE 2019), August, 2019, Boulder CO (USA). [P]
- C56** Lower atmospheric consequences of Coronal Mass Ejections: waves, shocks and dimmings, **S. Patsourakos**, in 43rd COSPAR Scientific Assembly. January-February, 2021 [T]
- C57** Investigating the circumsolar wind with Parker Solar Probe near-imaging and in-situ high cadence observations, **S. Patsourakos**, L. Paulett, G. Stenborg, R. Howard, P. Hess, P. Stevens, A. Vourlidas, J. Kasper, A. Nindos, P. Penteado, K. Korreck, A. Case, in 43rd COSPAR Scientific Assembly. January-February, 2021 [T]
- C58** Using Inferences of the Near-Sun Magnetic of Coronal Mass Ejections to Assess their Magnetospheric Impact, **S. Patsourakos**, in Solar-Wind Magnetosphere Interaction Workshops, virtual August-September 2021 [T]
- C59** The Pre-Eruptive Magnetic Configuration of CMEs: A status report and possible SoLO Science, **S. Patsourakos**, in Solar Orbiter Eruptive Events Working Group Meeting, October 2021. [T]
- C60** The Low-Corona Evolution of Coronal Mass Ejections: Solar Truth and Implications for Stellar Coronal Mass Ejections, **S. Patsourakos**, A. Vourlidas, L. Balmaceda, 44th COSPAR Scientific Assembly. Held 16-24 July, 2022., Athens [P]
- C61** Assessing the Solar Origin of Switchbacks Using Energetics, **S. Patsourakos**, ISSI workshop "Magnetic Switchbacks in the Young Solar Wind", 18-22 Sep 2023, ISSI, Bern, Switzerland [T]
- C62** **S. Patsourakos**, The Origins of Coronal Mass Ejections and their Initial Stages: An Observational Account, IAU General Assembly, 6-15 August 2024, Cape Town, South Africa [T]

28 Invited Talks

- INV1** High-resolution EUV imaging and spectroscopy of the corona, **S. Patsourakos** and J-C Vial, In: Solar encounter. The First Solar Orbiter Workshop, 14 - 18 May 2001, Puerto de la Cruz, Tenerife, Spain.
- INV2** Constraining the Initiation and Early Evolution of CME, **S. Patsourakos**, in the 2009 IAGA conference held 23-30 August, 2009 in Sopron, Hungary.

- INV3** EUV Waves, **S. Patsourakos**, in the The Sun 360: Stereo-4/SDO-2/SOHO-25 Workshop, July 25 - 29, 2011, Christian-Albrechts-Universitat, Kiel, Germany
- INV4** The Role of Chromospheric Evaporation into the Coronal Mass Supply, **S. Patsourakos**, in the The Fifth Coronal Loops Workshop. June 29 - July 2, 2011. Palma de Mallorca, Spain.
- INV5** Recent Developments in the Study of the Early Stages of Coronal Mass Ejections, **S. Patsourakos**, IAGA 2013 12th Scientific Assembly, 26-31 August 2013, Merida, Mexico
- INV6** Sun-to-Earth Analysis of a Major Geoeffective Solar Eruption with the Framework of the Hellenic National Space Weather Network, **S. Patsourakos**, L. Vlahos, M. Georgoulis, K. Tziotziou, A. Nindos, O. Podladchikova, A. Vourlidas, A. Anastasiadis, I. Sanberg, K. Tsiganos, I. Daglis, A. Hillaris, P. Preka-Papadema, M. Sarris, T. Sarris, The 11th Hellenic Astronomical Conference, 8-12 September 2013, Athens, Greece
- INV7** Sun-to-Earth Analysis of a Major Solar Eruption, **S. Patsourakos** and the HNSWN, 40th COSPAR Scientific Assembly. Held 2-10 August 2014, in Moscow, Russia
- INV8** Observations of CMEs-ICMEs: Results from Current Space Missions and Expectations from Future Instrumentation, **S. Patsourakos**, 40th COSPAR Scientific Assembly. Held 2-10 August 2014, in Moscow, Russia
- INV9** Connecting upstream transient phenomena and their effects on geospace: the major solar eruptions of 7 March 2012, **S. Patsourakos** and the Hellenic National Space Weather Research Network, Geospace revisited: a CLUSTER/MAARBLE/Van Allen Probes Conference, 15-20 September 2014, Rhodes, Greece
- INV10** EUV Coronal Waves: Atmospheric and Heliospheric Connections and Energetics, **S. Patsourakos**, 2015 AGU Fall, San Francisco, USA, 14-18 December 2015.
- INV11** Coronal Mass Ejections: An Account of Recent Observations, **S. Patsourakos**, The First China-Europe Solar Physics Meeting, Kunming, China, 15-19 May 2017
- INV12** Observations of Coronal Mass Ejections: Recent Results and Upcoming Developments, **S. Patsourakos**, The 13th Hellenic Astronomical Conference, Heraklion, Greece, 2-6 July 2017
- INV13** The 3D structure of Coronal Mass Ejections, **S. Patsourakos**, 41st COSPAR Scientific Assembly, Instabul, Turkey, 2016 **The talk was not given due to cancelation of the Assembly.**
- INV14** Invited talk about "Sheared Magnetic Arcades and the Pre-eruptive Magnetic Configuration of Coronal Mass Ejections: Diagnostics, Challenges and Future Observables", Solar Atmospheric and Interplanetary Environment (SHINE 2019), August, 2019, Boulder CO (USA).
- INV15** Invited talk about "Lower atmospheric consequences of Coronal Mass Ejections: waves, shocks and dimmings", in 43rd COSPAR Scientific Assembly. January-February, 2021.
- INV16** Invited talk about "Using Inferences of the Near-Sun Magnetic of Coronal Mass Ejections to Assess their Magnetospheric Impact", in Solar-Wind Magnetosphere Interaction Workshops, virtual August-September 2021.
- INV17** Invited talk about "The Pre-Eruptive Magnetic Configuration of CMEs:A status report and possible Solo Science" in Solar Orbiter Eruptive Events Working Group Meeting, October 2021.

INV18 Assessing the Solar Origin of Switchbacks Using Energetics, **S. Patsourakos**, ISSI workshop "Magnetic Switchbacks in the Young Solar Wind", 18-22 Sep 2023, ISSI, Bern, Switzerland [T]

INV19 S. Patsourakos, The Origins of Coronal Mass Ejections and their Initial Stages: An Observational Account, IAU General Assembly, 6-15 August 2024, Cape Town, South Africa [T]

29 Seminars

Departments of Physics of Universities of Athens, Thessaloniki, Ioannina

Institute for Astronomy, Astrophysics, Space Applications & Remote Sensing, National Observatory of Athens

Research Center for Astronomy and Applied Mathematics of the Academy of Athens

Mullard Space Science Laboratory, University College of London

School of Physics, Astronomy, and Computational Sciences, George Mason University

The Johns Hopkins University Applied Physics Laboratory, 2019

Goddard Space Flight Center, NASA, 2019

Naval Research Lab, 2019

School of Mathematics and Statistics, University of Sheffield, 2021

30 Organization of Seminars

Department of Physics (2009-2016, 2022-)

Hellenic Astronomical Society, 2018-2022

PRESTO, 2020-2024

31 Participation in Scientific Journal Committees

Member of Solar Physics (Advisory Board) , 2020-2022

32 Editor Service

Guest Editor of Journal of Atmospheric and Solar-Terrestrial Physics Special Issue of SCOSTEP's 15th Quadrennial Solar-Terrestrial Physics Symposium (STP-15), 2023

33 Refereeing/Editor Activities

Referee for Solar Physics, Astronomy and Astrophysics, Astrophysical Journal, Nonlinear Processes in Geophysics, Nature Astronomy

Reviewer of NASA, NSF, Agence Nationale de la Recherche and Czech Science Foundation proposals

Guest Editor STP-15,2023, Guest Editor Journal of Atmospheric and Solar-Terrestrial Physics Special Issue of SCOSTEP's 15th Quadrennial Solar-Terrestrial Physics Symposium (STP-15)

34 Participation in Research Programmes and Teams

1997-2000: E.U. fellow "Investigation of Coronal Heating and Wind Acceleration in Solar Coronal Holes" under the TMR Programme

1997-2000: Coordinator Observing Programme 40 "Transition Region Network Thickness" of the ESA/NASA SOHO satellite including various instruments of SOHO (SUMER,CDS,MDI, EIT)

1997-2001: Member of the scientific planning teams of the CDS and SUMER instruments of the SOHO ESA/NASA mission

1998 Co-ordinator of campaign of space SOHO/SUMER and ground observations during the total solar eclipse of the 26th February 1998.

2001-2009: Co-investigator in 3 research grants of NASA

2003- Scientific collaborator of the rocket experiments VAULT and VERIS

2007 Coordinator of the Hinode Satellite Observing Plan 0047, "SUMER campaign-Moss Observation" involving observations from 3 satellites: SOHO (SUMER), Hinode (EIS, XRT, SOT) and STEREO (SECCHI)

2007-2008 Member of an International Study Team on (The Role of Spectroscopy and Imaging Data in Understanding Coronal Heating) of the International SPace Science Institute:ISSI

2008- Co-investigator of the SECCHI instrument of the STEREO mission of NASA

2009- Scientific collaborator of the ASPIICS instrument of the PROBA III mission of ESA

2009- Co-investigator of the LEMUR: Large European Module for solar Ultraviolet Research. European contribution to JAXA's Solar-C mission

2010-2011 Guest Investigator of the PROBA II mission of ESA.

2010-2014 E.U. fellow Solar Eruptive Phenomena: Understanding their Initial Stages and Determine their Arrival Times to Earth

2012-2015 Co-investigator of the Hellenic Space Weather Network under the national and E.U. action THALIS

2012-2015 Coordinator of the study team of a major solar eruption from the Sun to the Earth in the frame of the Hellenic Space Weather Network

2013-2014 Member of an International Study Team on the (Understanding Solar Jets and their Role in Atmospheric Structure and Dynamics) of the International Space Science Institute:ISSI

2014- Co-investigator of the Heliospheric Imager of the Solar Orbiter ESA/NASA mission

2014- Leader of WG5 (Bs Challenge Group) of Variability of the Sun and Its Terrestrial Impact (VarSITI) International Study of Earth-affecting Solar Transients International initiative,

2015- Member of the scientific team of the ARTEMIS radiospectrograph

2015 Co-investigator of the MASC (Magnetic Activity of the Solar Corona) proposal to ESA/CAS

2015-2017 Coordinator of the International Study Team on the (Decoding the Pre-Eruptive Magnetic Configurations of Coronal Mass Ejections) of the International Space Science Institute:ISSI

2019- Scientific team member of WISPR on-board PSP

2019- Member of solar-observing programmes using ALMA

2020-2024 Member of the steering committee of the PRESTO (Predictability of the variable Solar-Terrestrial Coupling) programme

2020-2024 Co-leader of Pillar 1 Sun, interplanetary space, and geospace of PRESTO (Predictability of the variable Solar-Terrestrial Coupling) programme

2020-2024 Member of the supervisory board of Space Weather Awareness Training Network (SWANET) project

2017-2022 Member of the external advisory board of Advanced Solar Particle Events Casting System (ASPECS) project

2022- Member of the scientific team of Whole-Sun project

2023- Member of (white-paper) Firefly: The Case for a Holistic Understanding of the Global Structure and Dynamics of the Sun and the Heliosphere

2024- Member of an International Study Team on the Understanding the Onset of Solar Eruptions of the International Space Science Institute:ISSI

35 Participation in Committees

Member of the Education and Public Outreach Committee of the Solar Physics Division (SPD) of the American Astronomical Society (AAS) (2007-2009).

Elected member of the Coronal Loops Workshops Steering Committee (2012-2014).

Auditor of the Hellenic Astronomical Society (2012-2014, 2014-2016).

Member of the selection committee of the Sunanda and Santimay Basu Early Career Award in Sun-Earth Systems Science of AGU (2014).

Chair of Division IV Solar Wind and Interplanetary Field of IAGA (2015-2019)

Member of the governing council of the Hellenic Astronomical Society (2018-2022)

PRESTO Steering Committee, co-leader of pillar 1 Sun, interplanetary space, and geospace, (2020-2024)

Advisory board of SWANET Space Weather Awareness Training Network, 2020-2024

Member of advisory External team of ASPECS (Advanced Solar Particle Events Casting System) project, (2017-2022)

Scientific Discipline Representative of the SCOSTEP programme (2024-)

36 Conference Organisation

CONF1 Member of the Local Organizing Committee of 2nd Solar Orbiter Workshop, Oct 2006, 16-20 Oct 2006, Athens, Greece.

CONF2 Head of the Scientific and Local Organizing Committee of the Coronal Loops Workshop, 18-21 June 2007, Santorini, Greece.

CONF3 Head of the Local Organizing Committee of 10th Hellenic Astronomical Conference, 5-8 September 2011, Ioannina, Greece.

CONF4 Member of the Local Organizing Committee of ESPM-13: 13th European Solar Physics Meeting, 12-16 Sep 2011, Rhodes, Greece.

CONF5 Member of the organizing committee of the Sun-to-Earth Analysis of an Extreme Space Weather Event, Department of Physics, University of Ioannina, Greece 9 - 10 January 2014 of the Hellenic Space Weather Network

CONF6 Main organizer of the session A28 New advances in Solar and Interplanetary Physics (Div. IV) of IAGA for the 2015 Conference of IUGG

CONF7 Co-lead of the Scientific and Local Organizing Committees of Multi-wavelength Studies of the Solar Atmosphere: Celebrating the Career of Costas Alissandrakis, Ioannina, Greece, 21-24 September 2015

CONF8 Convener of "Insights for Early Predictions of Magnetic and Dynamic Properties of Interplanetary Coronal Mass Ejections using Observations, Theory and Modeling" EGU 2016 General Assembly, Vienna, Austria, 17-22 April 2016.

CONF9 Convener of "Solar-Terrestrial Coupling and Space Weather: State-of-the-Art and Future Prospects" of 2016 EWASS, Athens Greece, 4 July - 8 July 2016.

CONF10 Member of the scientific organizing committee of Workshop on the "Greek Scientific Participation in Solar Orbiter / ESA Mission: Perspectives Outlook", 2017, Athens, Greece.

CONF11 Member of the scientific organizing committee of 14th Hellenic Astronomical Conference Volos, Greece, 2019

CONF12 Convener of the session Solar and stellar eruptions: observations and modelling, European Week of Astronomy and Space Science, 2019, Lyon, France

- CONF13** Member of the scientific organizing committee of 15th Hellenic Astronomical Conference, 2021, Patras
- CONF14** Member of the scientific organizing committee of Quadrennial Solar-Terrestrial Physics Symposium (STP-15), 2022 Alibag, India
- CONF15** Convener of session Scientific Advances Enabled by Multi-perspective Solar Exploration, 2022 AOGS, Asia Oceania Geosciences Society (AOGS)
- CONF16** Main coordinator of the session Connecting Solar and Stellar Coronal Mass Ejections: Lessons Learned, Challenges and Perspectives, 2022, COSPAR 2022, Athens, Greece
- CONF17** Convener of the session Prediction of solar transients, streams SIRs and SEP from Sun to geospace, 2023, ICTP, Trieste, Italy
- CONF18** Convener of the session Advances and Upcoming Developments in Solar and Heliospheric Physics, IUGG 2023 48th General Assembly, 2023, Berlin, Germany
- CONF19** Convener of the session, Stereo's Journey Around the Sun: An Era of Single and Multi-spacecraft Observations From 2007 to 2024, COSPAR 2024, 2024, Busan, Korea
- CONF20** Convener of the session, Heliospheric Variability, Its Solar Sources and Impact on Solar System Objects, COSPAR 2024, 2024, Busan, Korea
- CONF21** Member of the local organizing committee of the conference Quadrennial Solar-Terrestrial Physics Symposium, STP-16, 2026, Greece

37 Distinctions

One of the recipients of the Group Achievement Award to Parker Solar Probe Team of NASA (2023)

One of the recipients of the Certificate of Award, Progress in Earth and Planetary Science, The Most Cited Paper Award as co-author of "Earth-affecting solar transients: a review of progresses in the solar cycle 24" (2024)

38 Media and Internet Coverage of Research Activities

Press Conference 2008 Joint Assembly of American Geophysical Society (AGU), 27-30 May 2008, Ft Lauderdale, Florida, USA. The results were covered by the on-line versions of Sky and Telescope and National Geographic

Kathimerini Newspaper, 2008

NASA, 2009 <https://stereo.gsfc.nasa.gov/news/SolarTsunami.shtml>

UK Solar Physics, 2012

<http://www.uksolphys.org/uksp-nugget/20-rapid-cavity-formation-and-expansion-in-cmes/>

Phys-Org, 2013 <https://phys.org/news/2013-02-solar-dynamics-observatory-sightings-cme.html>,

<https://phys.org/news/2013-04-scientists-flux-rope-formation.html>

Royal Astronomical Society, 2015

<https://nam2015.org/press-releases/56-does-the-solar-magnetic-field-show-a-north-south-div>

Interview in Huffington Post, 2021

https://www.huffingtonpost.gr/entry/ellenes-protoporoi-sten-exereenese-toe-elioe_gr_613b61c5e4b0640100a42735

39 Public Outreach

Member of the scientific organizing committee of the 12th Panhellenic Conference of Amateur Astronomy 14-16 October 2022, Patras

K. Gourgouliatos, S. Patsourakos, V. Charmandaris, presentation: "The contribution of the greek amateur astronomers into scientific research- perspectives and collaborations", presentation in 12th Panhellenic Conference of Amateur Astronomy 14-16 October 2022, Patras

Presentation on the Sun in the on-live broadcast "About Physics", 2023,

<https://www.youtube.com/watch?v=fbw0ROXI9P8>

Presentation on space weather, 2023

<https://www.arsakeio.gr/gr/ioannina/ioannina-high-school/ta-nea-mas/events-activities/50186-syzitontas-me-ton-kathigiti-astrofysikis-k-spyro-patsourako-30>