



Dr. Nick Sergis Curriculum Vitæ



ATHENS
DECEMBER, 2019

CURRICULUM VITÆ

Dr. Nick Sergis
(December 2019)

Personal and contact information

Date of birth: July 16, 1973.
Marital status: Married, father of two.
Current positions: Research Associate, Academy of Athens, Office of Space Research & Technology.
Adjunct Researcher, National Observatory of Athens, Institute for Astronomy, Astrophysics, Space Applications & Remote Sensing.
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Education

Ph.D. in Space Physics

June 2006, Dept. of Physics, National and Kapodistrian University of Athens.
Thesis title: *"The interaction of Mars with the Solar Wind"*.

M.Sc. in Astronomy and Astrophysics

June 2000, Dept. of Physics, National and Kapodistrian University of Athens
(Excellent, First Class Honours, grade 9.25/10)

B.Sc. in Physics

Sept. 1997, Dept. of Physics, National and Kapodistrian University of Athens.
(grade 7.10/10)

(June 2004 to June 2005: Military service in the Hellenic Air Force as trained meteorologist)

Professional experience and positions

2009-present: Research Associate, Office of Space Research and Technology, Academy of Athens.
2017-present: Adjunct Researcher, National Observatory of Athens, Institute for Astronomy, Astrophysics, Space Apps & Remote Sensing.
2006-present: Member of the Cassini/MIMI Research Team
2018 (Mar.-Apr.): Acting Executive Secretary, Hellenic Space Agency (HSA).
2006-2009: Postdoctoral Research Fellow, Office of Space Research and Technology, Academy of Athens.

Awards and Distinctions

- ✓ *Member of the Editorial Board of The Annales Geophysicae (2017).*
- ✓ *Co-Leader in the proposal “Modes of radial plasma motion in planetary systems” selected for funding by the International Space Science Institute (ISSI, 2014).*
- ✓ *NASA Group Achievement Award for participation to the Cassini Magnetospheric Imaging Instrument (2009).*
- ✓ *Best Reviewer in the field of Magnetosphere and Space Plasma Physics, Annales Geophysicae, elected by the editorial board (2009).*
- ✓ *NASA Group Achievement Award for Excellence in Data Analysis (2019).*
- ⇒ *Nominated (by colleagues) for:*
The 2017 “Distinguished Young Scientist Award” of the Bodosakis Foundation.
The 2018 “Paolo Farinella Prize”.

Visiting Scientist

- *Nov. 2018: 1-week collaboration visit to the University of Liege, Laboratory of Space sciences, Technologies and Astrophysics Research. (invited by Prof. D. Grodent).*
- *Jul. 2017: 1-week collaboration visit to University College London (UCL) (invited by Prof. N. Achilleos) and to Imperial College London, London, UK (invited by Dr. A. Masters and Prof. M. Dougherty).*
- *Nov. 2014: 1-week collaboration visit to University College London (UCL), London, UK, (invited by Prof. N. Achilleos).*
- *Jul. 2010: 1-week collaboration visit to University College London (UCL), London, UK, (invited by Prof. C.M. Jackman).*
- *Feb. 2010: 1-week collaboration visit to Imperial College, London, UK, (invited by Prof. M.K. Dougherty and the Cassini/MAG team).*
- *Jul. 2007: 4-week collaboration visit to JHU/APL, Washington DC, USA, (invited by Prof. S.M. Krimigis).*
- *Jul. 2006: 6-week collaboration visit to JHU/APL, Washington DC, USA, (invited by Prof. S.M. Krimigis).*

Research interests and ongoing collaborations

My research interests and area of expertise include:

- Space, Planetary and Plasma Physics.
- Plasma Astrophysics with emphasis to Magnetospheric Physics, Particle Acceleration and Dynamics, Data Analysis and Modeling.
- Solar Wind Dynamics.
- Planetary Mission Instrumentation.

I currently lead or participate in a number of ongoing international scientific collaborations with colleagues from several institutes around the world (USA, UK, Germany, Argentina, Belgium and others).

The Office of Space Research and Technology, where I work for the past 14 years, is actively involved in several space missions (apart from Cassini), either ongoing or in preparation, such as the **Juno**, the **Voyager**, the **Parker Solar Probe**, the **JUICE** mission and the **Europa Clipper** mission.

Since February 2017, I am an Adjunct Researcher of the National Observatory of Athens (Institute of Astronomy, Astrophysics, Space Applications and Remote Sensing), and member of the Space Research and Technology Group, participating to the ESA/ESTEC project "LPUB-SAPS-Linking data and publications in ESA's Science Archives Publications System".

International Working Groups and memberships (current only)

- Member of the Magnetospheric Imaging (MIMI) team of Cassini and the Cassini Scientists team (2006-present).
P.I.: S.M. Krimigis, (1992-2015); D.G. Mitchell (2015-present).
- External collaborator of the Jupiter Energetic Particle Detector Instruments (**JEDI**) team of the **JUNO mission**.
P.I.: B.H. Mauk, JHU/APL.
- **Co-Leader** of the International Space Science Institute (ISSI) working group on "*Modes of radial plasma motion in planetary systems*" (funded by the International Space Science Institute).
- **Co-Leader** of the Cassini Team for the Analysis of the Saturnian Environment (CATALYSE), an ongoing collaboration with the University of Leicester and the Max Planck Institute for Solar System Research.
- Member of the international team "*Particle acceleration in astrophysical bow shocks*", an ongoing collaboration led by the University of Turku, Finland.
- Member of the "*Neptune and Triton Working Group*" mission to Neptune and Triton proposed to the ESA, under the 2nd and 3rd Large Missions Call of the ESA Cosmic Vision Program 2015-2025.
Leader/Coordinator: A. Masters, Imperial College.
- Member of the *American Geophysical Union (AGU)*, since 2007.
- Member of the *European Geosciences Union (EGU)*, since 2007.
- Member of the *International Astronomical Union (IAU)*, since 2009.

Publications and Bibliometrics

As of December 2019, I have led or co-authored a total of **75 refereed research papers** (ISI Web of Science) that can be grouped as:

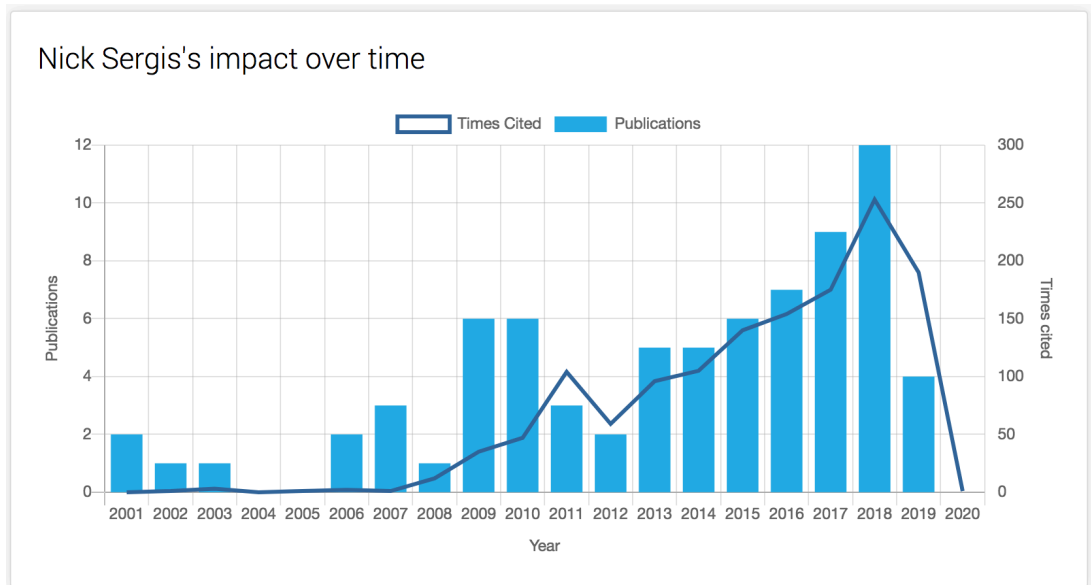
- ⇒ **67 papers in peer-review journals** (such as *Nature*, *Science*, *Nature Physics*, *Nature Astronomy*, the *Journal of Geophysical Research*, the *Geophysical Research Letters*, the *Astrophysical Journal*).
- ⇒ **5 papers in peer-review conference proceedings**.
- ⇒ **3 invited book chapters** (one as lead author) published by leading publishing companies such as *AGU-Wiley* and *Springer*.

According to the ISI Web of Science, my citations are ~**1400** and my **h-index 23**. According to Google Scholar, my citations are ~1650 and my h-index=25 (see table below), steadily increasing with a current rate of ~1.8/year.

	Citations	h-index
ISI Web of Science	1400	23
Scopus	1350	23
Google Scholar	1650	25

Table 1. Dr. N. Sergis, number of citations and h-index, according to various bibliographic bases, as of December 2019.

In addition, I have co-authored >85 papers in international conferences (e.g. AGU Fall Meetings, EGU General Assemblies, Europlanet-EPSC Conferences) and have chaired several meeting session, while 3 of my journal papers were **invited contributions to Special Issues** of *Space Science Reviews* (I.F. 7.50) and the *Geophysical Research Letters* (I.F. 4.25). The evolution of my productivity and the impact of my research (as of December 2019) are presented in the following graphs, automatically produced by the ISI Web of Science.



Dr. N. Sergis: number of (peer-review) journal papers per year and number of citations per year (December 2019). Source: WoS.

The rate of published papers is ~9/year for the last 3 years, with an increasing trend. The impact of my work among the international scientific community is strong and continuously increasing. Since 2007 (soon after I joined the Office of Space Research & Technology) the number of citations to my papers has been increasing every year, with a current rate reaching ~230 citations/year.

Program administration experience

Since 2006, I am acting administrator and contact point for the following subcontracts between the Applied Physics Laboratory of the Johns Hopkins University (JHU/APL) and the Academy of Athens:

- Contract No. 144247RR, under U.S. Gov. Prime Contract NNN06AA01D.
Duration: Oct. 2018-Feb. 2020.
Total budget: \$223,900.
- Contract No. 144247, under U.S. Gov. Prime Contract NNN06AA01C.
Duration: Oct. 2017-Sep. 2018.
Total budget: \$112,000.
- Contract No. 110511, under U.S. Gov. Prime Contract NNN06AA01C.
Duration: Oct. 2012-Sep. 2017.
Total budget: \$410,000.
- Contract No. 976932, under U.S. Gov. Prime Contract NNN06AA01C.
Duration: Oct. 2010-Sep. 2012.
Total budget: \$140,000.
- Contract No. 950782, under U.S. Gov. Prime Contract NAS5-97271.
Duration: Mar. 2009-Sep. 2010.
Total budget: \$160,000.
- Contract No. 907871, under U.S. Gov. Prime Contract NAS5-97271.
Duration: Apr. 2006-Feb. 2009.
Total budget: \$143,592.

Proposals submitted for funding

During the last 5 years, I have been an invited participant (or local leader) to 5 proposals submitted for funding to the European Commission. In summary:

Year: 2018
Funding Scheme: European Commission-European Research Council (ERC).
Title: "Exploring the Atmosphere-Magnetosphere Connection of the Gas Giant Planets: MagnetoWorlds".
Participants: University College London (UCL), **National Observatory of Athens**, Univ. of Lancaster, Imperial College London, European Space Astronomy Centre (ESA/ESAC), Univ. of Buenos Aires.
Total score: Under review.

Year: 2018
Funding Scheme: RIA-Horizon 2020-INFRADEV-03-2018-2019.
Title: "Europlanet RI Gateway (ERIG)".
Participants: **National and Kapodistrian University of Athens** and 16 Institutes from Europe (15) and China (1).
Total score: Under review

Year: 2017
Funding Scheme: RIA-Horizon 2020-COMPET.
Title: "Cassini Team for the Analysis of the Saturn Environment: Data Exploitation Beyond the End-of-Mission".
Participants: Univ. of Leicester, **National Observatory of Athens**, MPI.
Total score: **14.50/15** (threshold: 10)

Year: 2015
Funding Scheme: Horizon 2020-Research and Innovation Framework Program.
Title: "Charged Particle Acceleration in Planetary Environments".
Participants: Univ. of Sheffield, UCLA/USA, CNRS/FR, NERC, **Academy of Athens**, Max Planck Institute.
Total score: 11.50/15 (threshold: 10)

Year: 2013
Funding Scheme: CP-FP, Small or medium-scale focused research project.
Title: PlanetRISE: A Planetary Research Initiative for the Advancement of Space Exploration.
Participants: UCL, Univ. of Leicester, Imperial College London, Univ. of Buenos Ayres, Univ. of Liege, CNRS/FR, UCLA/USA, **Academy of Athens**.
Total score: 13.50/15 (threshold: 10)

Academic service

Editorial service

- Member of the Editorial Board (Topical Editor) of *Annales Geophysicae* (Magnetospheric and Space Plasma Physics).

Reviewer service

- Active reviewer for several Journals in my field, such as the *Journal of Geophysical Research* (JGR), the *Geophysical Research Letters* (GRL) and the *Annales Geophysicae*. Average of ~10 paper reviews per year.
- Active reviewer for proposals submitted for funding to NASA, through the *NASA Solicitation and Proposal Integrated Review and Evaluation System* (NSPIRES) such as the Juno Participating Scientist Program (JPS) and the Cassini Data Analysis and Participating Scientist Program (CDAP), for the *Czech Science Foundation* and for the *Serbian Science Fund*. Average of ~3 proposal evaluations per year.

Conference and Workshop organization

- *COSPAR Scientific Assembly 2022*, Athens, July 2022. Member of the Committee for the Greek candidacy and **core-member of the LOC**.
- *Europlanet Workshop (NA1), "Uniting Planetary Models and Data Analysis Tools/ Resources-2"*, Kalamata, July 21-25, 2019, *main organizer* **Head of the LOC**, co-leader of the SOC.
- *Europlanet Workshop (NA1), "Uniting Planetary Models and Data Analysis Tools/ Resources"*, Kalamata, September 11-14, 2018, *main organizer* **Head of the LOC**, co-leader of the SOC.
- *Magnetospheres of the Outer Planets (MOP) conference*, Athens, July 7-12, 2013, *main organizer*, **Head of the LOC** (~180 participants).
- *Europlanet Workshop "Aurora of the Giant Planet Systems"*, Santorini, May 23-25, 2012, member of the LOC.
- *Cassini Project Science Group (PSG) meeting*, Athens, June 3-8, 2007 (~50 participants), member of the LOC.
- *Cassini Joint MIMI and CAPS meeting*, Chios, Greece, May 29-31, 2007 (~50 participants), member of the LOC.

Teaching experience-student mentoring

- Supervision and co-supervision of Graduate and Post-Graduate (M.Sc.) student theses through the Office of Space Research of the Academy of Athens, in collaboration with the Faculty of Physics of the University of Athens and the Swedish Institute of Space Physics in Uppsala (3 post-graduate students, over 15 graduate students, names available).
- Informal participation in the supervision of 2 Ph.D. students:
Dr. K. Ramer (UCLA, supervisor Prof. M. Kivelson) and
Dr. S. Kellett (University of Leicester, supervisor Prof. E. Bunce).
- 2005-present: Lectures on topics related to my expertise, as part of the course of "*Space Physics*" (undergraduate and postgraduate level, 6-14 hours per semester), including contribution in the educational material distributed to students, Faculty of Physics, National and Kapodistrian University of Athens.
- 1998-2004 and 2005-2006: Teaching Assistant (TA) at the Basic Physics Laboratory and at the Astrophysics Laboratory, Faculty of Physics, National and Kapodistrian University of Athens.
- Local Coordinator and member of the Program Committee for the Alpbach Summer School 2018, that involved the participation of 2 greek students.

In addition to the above, I have contributed in the guidance of several young colleagues (PhD students/early postdocs), in a variety of studies that led to numerous peer-review publications. This is an ongoing activity, as I am currently supervising 4 undergraduate students in Greece (Faculty of Physics) and co-mentoring 2 early-career scientist as part of international research groups.

Public Outreach Activity

Since 1998, I have co-organized and participated in numerous public outreach actions with >30 public talks on Space related topics in various events. Indicatively:

- World Space Week Greece 2018, organized by the Department of Physics, National and Kapodistrian University of Athens (invited speaker).
- Athens Planetarium, Eugenides Foundation, “Future in Space” opening event (invited speaker).
- EU Space Awareness web seminar on the Cassini mission to Saturn and Titan (invited speaker).
- 3rd Summer School on Astrophysics, Kefalonia (invited speaker).
- “Farewell to Cassini” public event organized by the National Observatory of Athens in Penteli Visitor’s Center (invited speaker).
- “Cassini Scientist for a Day” Contest, Award Ceremony 2017, organized by the Faculty of Physics of the University of Athens (invited speaker).
- Athens Planetarium, Eugenides Foundation, “Space Exploration” movie opening (invited speaker).
- Greek Space Generation Workshop 2017, organized by ESA and the GSRT (invited mentor).
- Hell. Phys. Soc., Annual Conference 2017: “Magic of Physics” (invited speaker).
- Open Nights at the Gerostathopouleio Observatory, Physics Dept. of the University of Athens, (3 invited public talks between 2007 and 2017).
- Our Wonderful Universe, Space Awareness Program-Our Solar System, Ellinogermaniki Agogi School, 2017, invited Web Seminar.
- The CanSat Contest 2017 and 2018 (invited advisor and evaluator).
- International Year of Astronomy, 2009, seminar organized by the Academy of Athens (invited speaker).

In addition to the above, over 25 interviews in Greek newspapers, TV and radio stations, since 2007.

Invited talks and seminars in reverse chronological order (total of 22 as of December 2019).

- [22] *University of Liege, Laboratory of Space sciences, Technologies and Astrophysics Research* (invited seminar), Liege, November 2018, “Plasma heating in rotationall-driven magnetic reconnection”.
- [21] *Johns Hopkins University/Applied Physics Laboratory (JHU/APL)*, (invited contribution), September 2018, “Space Physics And Space Policy Across The Solar System And Beyond”.
- [20] *National Observatory of Athens (NOA-IAASARS)* (invited seminar), Athens, November 2017, “Space plasma processes manifested in multiple environments throughout the Solar System”.
- [19] *Imperial College London* (invited seminar), London, July 2017, “The importance of the hot ion plasma in Saturn”.

- [18] *National and Kapodistrian University of Athens, Faculty of Physics* (invited seminar), Athens, December 2016, "Magnetospheric ion escape in Saturn".
- [17] *AGU Chapman Conference on "Currents in Geospace and Beyond"*, Dubrovnik, Croatia, May 2016, "Ring Currents in Planetary Magnetospheres".
- [16] *University College London* (invited seminar), London, November 2014, "Chasing the Center of the Saturnian Plasma Sheet".
- [15] *Modes of Radial Plasma Motion in Planetary Systems*, (Europlanet ISSI workshop), Bern, July 2014, "Statistical study of hot plasma injections in the magnetosphere of Saturn".
- [14] *Modes of Radial Plasma Motion in Planetary Systems*, (Europlanet ISSI workshop), Bern, July 2014, "Interchange instability in magnetospheric plasmas".
- [13] *Giant Planet Magnetodiscs and Aurorae*, (Europlanet ISSI workshop), Bern, Nov. 2012, "Local time asymmetries in energetic particles in Jupiter and Saturn".
- [12] *University College London* (invited seminar), London, July 2012, "Magnetospheric leakage and ion events in the Outer Planets".
- [11] *Aurorae of the Giant Planet Systems* (Europlanet workshop), Santorini, May 2012, "Dynamics and Local Time variability of the thermal and hot plasma in Saturn"
- [10] *AGU Fall Meeting*, San Francisco, USA, December 2011, "Energetic particles in Saturn's magnetosphere: Advances and open questions".
- [9] *Magnetospheres of the Outer Planets Conference*, Boston, USA, July 2011, "The Ring Current of Saturn".
- [8] *Imperial College London* (invited seminar), London, February 2010, "Cassini discoveries in the magnetosphere of Saturn".
- [7] *Comparison of the plasma-spheres of Mars, Venus, and Titan* (Europlanet ISSI workshop), Bern, December 2009, "Hot and thermal plasma conditions at the orbit of Titan".
- [6] *Modern Challenges in non-linear Plasma Physics*, Chalkidiki, June 2009, "Particle pressure radial profile and magnetic reconnection in the magnetosphere of Saturn".
- [5] *International Year of Astronomy*, Academy of Athens, Athens, May 2009, "The magnetospheres of the Outer Planets"
- [4] *Academy of Athens, Research Center for Astronomy and Applied Mathematics* (invited seminar), Athens, May 2009, "Cassini reveals the Saturn's environment".
- [3] *National Observatory of Athens (NOA-IAASARS)* (invited seminar), Athens, June 2008, "Initial Results from the Cassini-Huygens mission".
- [2] *Johns Hopkins University/Applied Physics Laboratory (JHU/APL)* (invited seminar), Laurel MD, USA, July 2007, "A dynamic, rotating ring current around Saturn".
- [1] *Johns Hopkins University/Applied Physics Laboratory (JHU/APL)* (invited seminar), Laurel MD, USA, August 2006, "Hot plasma pressure and plasma beta in the magnetosphere of Saturn".

Selected Publications (from a total of 75)

- ✓ **Sergis, N.**, C. M. Jackman, M. F. Thomsen, S. M. Krimigis, D. G. Mitchell, D. C. Hamilton, M. K. Dougherty, N. Krupp, and R. J. Wilson (2017), Radial and local time structure of the Saturnian ring current, revealed by Cassini, **J. Geophys. Res.-Space Physics**, 122.
- ✓ Krimigis S.M., **N. Sergis**, D.G. Mitchell, D.C. Hamilton and N. Krupp, (2007), *A dynamic, rotating ring current around Saturn*, **Nature**, Vol. 450, Issue 7172, pp. 1050-1053.
- ✓ R. L. Guo, Z. Yao, Y. Wei, L. Ray, I. Rae, C. Arridge, A. Coates, P. Delamere, **N. Sergis**, P. Kollmann, D. Grodent, W. Dunn, J. Waite, J. Burch, Z. Pu, B. Palmaerts, M. Dougherty (2018), Rotationally driven magnetic reconnection in Saturn's day magnetodisc, **Nature Astronomy**, VOL 2, August 2018, 640–645, doi: 10.1038/s41550-018-0461-9.
- ✓ E. Roussos, P. Kollmann, N. Krupp, A. Kotova, L. Regoli, C. Paranicas, D. G. Mitchell, S. M. Krimigis, D. Hamilton, P. Brandt, J. Carbary, S. Christon, K. Dialynas, I. Dandouras, M. E. Hill, W. H. Ip, G. H. Jones, S. Livi, B. H. Mauk, B. Palmaerts, E. C. Roelof, A. Rymer, **N. Sergis**, H. T. Smith, (2018), Energetic protons trapped between Saturn and its rings, **Science**, 362, eaat1962, doi: 10.1126/science.aat1962.
- ✓ **Sergis, N.** et al., (2007), *Ring current at Saturn: Energetic particle pressure in Saturn's equatorial magnetosphere measured with Cassini/MIMI*, **Geophys. Res. Lett.**, 34, Issue 9, L09102.
- ✓ Masters A., Stawarz L., Fujimoto M., Schwartz S.J., **Sergis N.**, Thomsen M.F., Retinò A., Hasegawa H., Zieger B., Lewis G.R., Coates A.J., Canu P., Dougherty M.K., (2013), *Electron acceleration to relativistic energies at a strong quasi-parallel shock wave*, **Nature Physics**, Vol. 9, Issue 3.
- ✓ **Sergis, N.**, et al. (2010), *Particle pressure, inertial force, and ring current density profiles in the magnetosphere of Saturn, based on Cassini measurements*, **Geophys. Res. Lett.**, 37, L02102.
- ✓ Arridge C., Eastwood J., Jackman C., Poh G., Slavin, J., Thomsen M., André N., Jia, X., Kidder A., Lamy L., Radioti A., Reisenfeld D., **Sergis N.**, Volwerk M., Walsh A., Zarka P., Coates A., Dougherty M., (2016), *Cassini in situ observations of long-duration magnetic reconnection in Saturn's magnetotail*, **Nature Physics**, Vol. 12, Issue 3, pp. 268-271.
- ✓ Ramer, K.M., M.G. Kivelson, **N. Sergis**, K.K. Khurana, and X. Jia (2016), Spinning, breathing, and flapping: Periodicities in Saturn's middle magnetosphere, **J. Geophys. Res.-Space Physics**, 122.

Full list of refereed publications

As book chapters (**B**), in peer-review journals (**J**) and in (refereed) conference proceedings (**C**), in reverse chronological order. **Total of 75** (December 2019).

Book chapters (3)

- [B3] **Sergis, N.** , Bunce, E. J., Carbary, J. F., Cowley, S. W., Jia, X. , Hamilton, D. C., Krimigis, S. M., Mitchell, D. G. and Dougherty, M. K. (2018). The Ring Current of Saturn. In *Electric Currents in Geospace and Beyond* (eds. A. Keiling, O. Marghitu and M. Wheatland), published by AGU-Wiley.
- [B2] Arridge C. S., M. Kane, **N. Sergis**, K. K. Khurana, C. M. Jackman, Sources of Local Time Asymmetries in Magnetodiscs, in: “The Magnetodiscs and Aurorae of Giant Planets” (eds. K. Szego, N. Achilleos, C. Arridge, S. Badman, P. Delamere, D. Grodent, M. Kivelson, P. Louarn), published by Springer, 2015.
- [B1] Arridge, C. S., N. Andre, C. Bertucci, P. Garnier, C. M. Jackman, Z. Nemeth, A. M. Rymer, N. Sergis, K. Szego, A. J. Coates, F. J. Crary, Upstream of Saturn and Titan, in: “The Plasma Environment of Venus, Mars, and Titan” (ed. K. Szego), published by Springer, 2011.

In peer-review journals (67)

- [J67] Jamie M. Jasinski, C. S. Arridge, A. Bader, A. Smith, M. Felici, J. Kinrade, Andrew J. Coates, G. H. Jones, T. Nordheim, L. Gilbert, A. R. Azari, S. V. Badman, G. Provan, **Nick Sergis** and Neil Murphy, (2019), Saturn’s open-closed field line boundary: a Cassini electron survey at Saturn’s magnetosphere, *Journal of Geophysical Research-Space Physics*, *Journal of Geophysical Research-Space Physics*, 124, 10.1029/2019JA027090.
- [J66] A. M. Sorba, N. A. Achilleos, **N. Sergis**, P. Guio, C. S. Arridge, and M. K. Dougherty, (2018), Local time variation in large-scale structure of Saturn's magnetosphere, *Journal of Geophysical Research-Space Physics*, 124, 10.1029/2018JA026363
- [J65] A. R. Azari, X. Jia, M.W. Liemohn, G.B. Hospodarsky, G. Provan, S.Y. Ye, S.W.H. Cowley, C. Paranicas, **N. Sergis**, A. Rymer, M. F. Thomsen, and D. G. Mitchell, (2018), Are Saturn’s Interchange Injections Organized by Rotational Longitude? *Journal of Geophysical Research-Space Physics*, 124, 3, 1806-1822, 10.1029/2018JA026196.
- [J64] R. L. Guo, Z. H. Yao, **N. Sergis**, Y. Wei, D. Mitchell, E. Roussos, B. Palmaerts, W. R. Dunn, A. Radioti, L. C. Ray, A. J. Coates, D. Grodent, C. S. Arridge, P. Kollmann, N. Krupp, J. H. Waite, M. K. Dougherty, J. L. Burch, W. X. Wan, (2018), Reconnection acceleration in Saturn’s dayside magnetodisc: a multicase study with Cassini, *The Astrophysical Journal Letters*, 868:L23 (8pp), December 1, 2018.

- [J63] Z. H. Yao, A. Radioti, D. Grodent, L. C. Ray, B. Palmaerts, **N. Sergis**, K. Dialynas, A. C. Coates, C. S. Arridge, E. Roussos, S. V. Badman, Sheng-Yi Ye, J.-C. Gérard, P. A. Delamere, R. L. Guo, Z. Y. Pu, J. H. Waite, N. Krupp, D. G. Mitchell, (2018), Recurrent magnetic dipolarization at Saturn, revealed by Cassini, *Journal of Geophysical Research-Space Physics*, 123, 10.1029/2018JA025837.
- [J62] A. M. Sorba, N. A. Achilleos, P. Guio, C. S. Arridge, **N. Sergis**, and M. K. Dougherty, (2018), The periodic flapping and breathing of Saturn's magnetodisk during equinox, *Journal of Geophysical Research-Space Physics*, 123, doi: 10.1029/2018JA025764.
- [J61] E. Roussos, P. Kollmann, N. Krupp, A. Kotova, L. Regoli, C. Paranicas, D. G. Mitchell, S. M. Krimigis, D. Hamilton, P. Brandt, J. Carbary, S. Christon, K. Dialynas, I. Dandouras, M. E. Hill, W. H. Ip, G. H. Jones, S. Livi, B. H. Mauk, B. Palmaerts, E. C. Roelof, A. Rymer, **N. Sergis**, H. T. Smith, (2018), A radiation belt of energetic protons located between Saturn and its rings, *Science*, 362, eaat1962, doi: 10.1126/science.aat1962.
- [J60] **N. Sergis**, N. A. Achilleos, P. Guio, C. S. Arridge, A. M. Sorba, E. Roussos, S. M. Krimigis, C. Paranicas, D. C. Hamilton, N. Krupp, D. G. Mitchell, M. K. Dougherty, G. Balasis, O. Giannakis (2018), Mapping Saturn's Night Side Plasma Sheet Using Cassini's Proximal Orbits, *Geophysical Research Letters*, 45, doi: 10.1029/2018GL078141.
- [J59] L. Regoli, E. Roussos, K. Dialynas, J. Luhman, **N. Sergis**, X. Jia, D. Roman, A. Azari, N. Krupp, G. Jones, A. Coates, I. Rae (2018), Statistical study of the energetic proton environment at Titan's orbit from the Cassini spacecraft, *Journal of Geophysical Research-Space Physics*, 123, doi: 10.1029/2018JA025442.
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