

Curriculum Vitae

DR. JAN-UWE NESS

European Space Agency
European Space Astronomy Centre
Camino Bajo del Castillo s/n
Urb. Villafranca del Castillo
28691 Villanueva de la Cañada, Madrid, Spain
born 28 September, 1970, Germany
ORCID 0000-0003-0440-7193
jan.uwe.ness@esa.int



Positions	since 2009	European Space Agency
	Since 1. September 2023	INTEGRAL Project Scientist
	Jan-Aug 2023	Coordinator of INTEGRAL Science Operations Centre
	2020-2023	Chair of the ESAC Science Faculty
	since 2021	Operations Scientist in Athena and XRISM
	since 2021	Chair of ESAC Science Faculty
	2018-2021	Operations Scientist in XMM-Newton and INTEGRAL
	2019-2020	ESAC Research Fellowship Coordinator
	since 2018	Coordinator for Virtual Observatory (VO) Protocols
	since 2020	Member of ESA Staff Association Committee (SAC); also 2013-2017
	2006-2008	Arizona State University, Phoenix, AZ, USA
		<i>Chandra</i> Fellow: Scientific research in X-ray astronomy with Prof. Sumner Starrfield
	2004-2006	University of Oxford, UK
		Research Associate at Dep. of Theor. Physics with Prof. Dame Carole Jordan
	1999-2004	University of Hamburg, Germany
	2002-2004	Post-doc at Hamburger Sternwarte
	1999-2002	PhD at Hamburger Sternwarte with Prof. J.H.M.M. Schmitt
	1997-1998	University of Kiel, Germany
		Teaching Assistant
Education	May 2002	Ph.D. in Astrophysics at University of Hamburg, Germany
	<i>PhD Thesis on</i>	HIGH-RESOLUTION X-RAY PLASMA DIAGNOSTICS OF STELLAR CORONAE
	Dec 1998	Graduation in Astrophysics at University of Kiel, Germany
	<i>Diploma Thesis on</i>	N-BODY SIMULATIONS OF INTERACTING GALAXIES
	May 1991	Graduation from High School with Abitur in Germany
	1988-1989	High School in Renton, Washington, USA
Languages	German	Mother tongue
	English	Fluent
	Spanish	Fluent
	French	Poor

Stipends and Awards 2008 **Ramon y Cajal:** 5 years offered but declined to take ESA position
 and 2005 **Chandra Fellowship:** 3 years with Prof. S. Starrfield, Arizona State Univ.
 2002 **Harvard Stipend:** 2 months with Dr. N. Brickhouse (SAO/Harvard)
 2001 **DAAD Stipend:** 2 months with Dr. R. Mewe (SRON)
 1997 **Practical RADIATION PHYSICS AND CHEMISTRY OF POLYMERS**
 3 months at Flerov Laboratory of Nuclear Reactions (Dubna, Russia)

Other Certificates Jul 1996 Certificate in Church Music (Organ, Choir director)
 Dec 1991 First Cambridge Certificate in English
 Sep 1991 Driving license CE (trucks)
 1991-1993 Military Service in Cologne (Köln) and Rendsburg, Germany
 April 1988 Ham radio license

Other Activities Organist with own YouTube Channel [youtube.com/@januweness](https://www.youtube.com/@januweness)
Organist in Church services
 2009-2010 Madrid (ES): German Catholic Church
 2005-2008 Scottsdale (AZ, USA): St. Nicholas Anglican Church
 2004-2005 Oxford (UK): Baptist Church in Bonn Square
 1999-2004 Hamburg (DE): Christophorus Kirche, Nettelburg
 1994-1999 Kiel (DE): Over 20 churches including main church Nikolai Kirche
Organ concerts
 March 2019 NDR Radio Station (Rundfunkorgel), Hamburg (DE)
 Oct. 2009 Oña/Burgos (ES)
 2000-2004 several in Hamburg, Bergedorf (DE)
 1996-1999 several in Kiel (DE) - Orgelnacht in Ansgarkirche

1 Summary

	1 st Author	All	Fraction 1 st Auth.	First - Last
Refereed	35	137	25.5%	2000 - 2023
Hirsch (ref)	34	35		
Ref.+unref.	118	371	31.8%	2000 - 2023

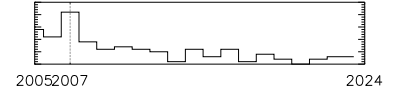
2 Refereed 1st author publications with highest impact

1. On the sizes of stellar X-ray coronae

Authors: **J. -U. Ness**, M. Güdel, J. H. M. M. Schmitt, M. Audard, A. Telleschi

A&A **427**, 667 (2005) **110 cits.** (5.86 per year)

Self-citations: 4 (1st auth., 4%), 12 (all ref. papers, 11%)

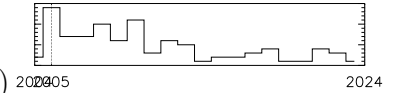


2. A Chandra Low Energy Transmission Grating Spectrometer Observation of V4743 Sagittarii: A Supersoft X-Ray Source and a Violently Variable Light Curve

Authors: **J. -U. Ness**, S. Starrfield, V. Burwitz, R. Wichmann, P. Hauschildt, J. J. Drake, R. M. Wagner, H. E. Bond, J. Krautter, M. Orio, M. Hernanz, R. D. Gehrz, C. E. Woodward, Y. Butt, K. Mukai, S. Balman, J. W. Truran

ApJ **594L**, 127 (2004) **93 cits.** (4.66 per year)

Self-citations: 11 (1st auth., 12%), 27 (all ref. papers, 29%)

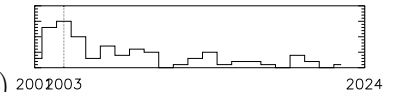


3. Helium-like triplet density diagnostics. Applications to CHANDRA-LETGS X-ray observations of Capella and Procyon

Authors: **J. -U. Ness**, R. Mewe, J. H. M. M. Schmitt, A. J. J. Raassen, D. Porquet, J. S. Kaastra, R. L. J. van der Meer, V. Burwitz, P. Predehl

A&A **367**, 282 (2001) **88 cits.** (3.91 per year)

Self-citations: 10 (1st auth., 11%), 15 (all ref. papers, 17%)

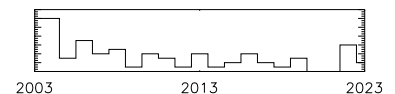


4. Coronal density diagnostics with Helium-like triplets: CHANDRA-LETGS observations of Algol, Capella, Procyon, epsilon Eri, alpha Cen A&B, UX Ari, AD Leo, YY Gem, and HR 1099

Authors: **J. -U. Ness**, J. H. M. M. Schmitt, V. Burwitz, R. Mewe, A. J. J. Raassen, R. L. J. van der Meer, P. Predehl, A. C. Brinkman

A&A **394**, 911 (2003) **77 cits.** (3.70 per year)

Self-citations: 5 (1st auth., 6%), 8 (all ref. papers, 10%)

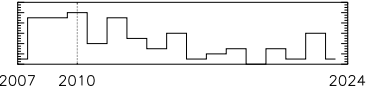


5. **The SSS Phase of RS Ophiuchi Observed with Chandra and XMM-Newton. I. Data and Preliminary Modeling**

Authors: **J. -U. Ness**, S. Starrfield, A. P. Beardmore, M. F. Bode, J. J. Drake, A. Evans, R. D. Gehrz, M. R. Goad, R. Gonzalez-Riestra, P. Hauschildt, J. Krautter, T. J. O'Brien, J. P. Osborne, K. L. Page, R. A. Schönrich, C. E. Woodward

ApJ **665**, 1334 (2008) **73 cits.** (4.55 per year)

Self-citations: 11 (1st auth., 15%), 26 (all ref. papers, 36%)

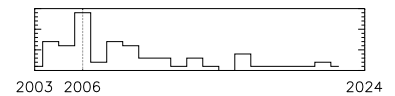


6. **Modeling the Ne IX Triplet Spectral Region of Capella with the Chandra and XMM-Newton Gratings**

Authors: **Jan-Uwe Ness**, Nancy S. Brickhouse, Jeremy J. Drake, David P. Huenemoerder

ApJ **598**, 1277 (2004) **65 cits.** (3.30 per year)

Self-citations: 6 (1st auth., 9%), 10 (all ref. papers, 15%)

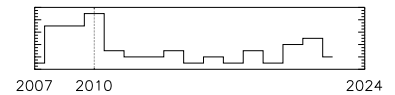


7. **Swift X-Ray Observations of Classical Novae**

Authors: **J. -U. Ness**, G. J. Schwarz, A. Retter, S. Starrfield, J. H. M. M. Schmitt, N. Gehrels, D. Burrows, J. P. Osborne

ApJ **663**, 505 (2008) **53 cits.** (3.29 per year)

Self-citations: 4 (1st auth., 8%), 16 (all ref. papers, 30%)

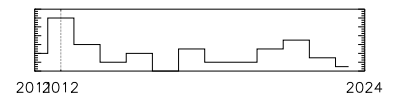


8. **XMM-Newton X-ray and Ultraviolet Observations of the Fast Nova V2491 Cyg during the Supersoft Source Phase**

Authors: **J. -U. Ness**, J. P. Osborne, A. Dobrotka, K. L. Page, J. J. Drake, C. Pinto, R. G. Detmers, G. Schwarz, M. F. Bode, A. P. Beardmore, S. Starrfield, M. Hernanz, G. Sala, J. Krautter, C. E. Woodward

ApJ **733**, 70 (2011) **53 cits.** (4.31 per year)

Self-citations: 6 (1st auth., 11%), 18 (all ref. papers, 34%)

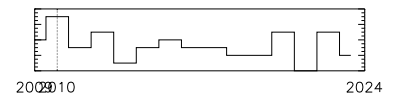


9. **High-Resolution X-Ray Spectroscopy of the Evolving Shock in the 2006 Outburst of RS Ophiuchi**

Authors: **J. -U. Ness**, J. J. Drake, S. Starrfield, M. F. Bode, T. J. O'Brien, A. Evans, S. P. S. Eyres, L. A. Helton, J. P. Osborne, K. L. Page, C. Schneider, C. E. Woodward

AJ **137**, 3414 (2009) **49 cits.** (3.37 per year)

Self-citations: 7 (1st auth., 14%), 19 (all ref. papers, 39%)



10. **Obscuration effects in super-soft-source X-ray spectra**

Authors: **J. -U. Ness**, J. P. Osborne, M. Henze, A. Dobrotka, J. J. Drake, V. A. R. M. Ribeiro, S. Starrfield, E. Kuulkers, E. Behar, M. Hernanz, G. Schwarz, K. L. Page, A. P. Beardmore, M. F. Bode

A&A **559A**, 50 (2014) **45 cits.** (4.60 per year)

Self-citations: 2 (1st auth., 4%), 16 (all ref. papers, 36%)



Total #citations: 706; Maximum of 5.86 citations per year