

Name: NOAM SOKER

Date: October 2023

## RESUME

### PERSONAL DETAILS

**Name:** Noam Soker  
**Place and Date of Birth:** Israel, 2.9.1958  
**Marital Status:** Married + 3  
**Citizenship:** Israel  
**Permanent Home Address:** Shimshit, Israel  
**Home Telephone Number:** 04-6012246 (054-5925995)  
**Office Address and Phone:** Department of Physics  
Technion , Haifa 32000, Israel  
Tel.: 04-8293858  
**Chair:** Charles Wolfson Academic Chair  
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### ACADEMIC DEGREES

<u>Dates</u>	<u>Name of Institution and Department</u>	<u>Degree</u>
1975-1977	Department of Mathematics and Physics, Oranim, University of Haifa	Beginning of Bachelor Degree in Physics
1980-1982	Department of Physics, Technion	Finishing Bachelor in Physics B.Sc. awarded: 4th May 1983 – Summa Cum Laude
1982-1986	Department of Physics, Technion	Doctoral studies Ph.D. awarded: 20th April 1986

**ACADEMIC APPOINTMENTS**

<b><u>Dates</u></b>	<b><u>Name of Institution and Department</u></b>	<b><u>Rank</u></b>
July-August 1984	Astronomical Institute, University of Amsterdam, Amsterdam – Holland	Visiting Researcher
September 1986 - August 1989	Department of Astronomy, University of Virginia, Charlottesville, Virginia, U.S.A.	Post-doctoral
September 1989 - September 1992	Harvard-Smithsonian Center for Astrophysics, Harvard University, Cambridge, MA, U.S.A.	Post-doctoral
October 1992 - May 1994	Oranim - University of Haifa, Science Education Department	Senior Lecturer
May 1994 - December 1998	Oranim - University of Haifa, Science Education Department	Associate Professor
December 1998-September 2003	Oranim - University of Haifa, Science Education Department	Full Professor
October 2003	Department of Physics, Technion	Full Professor

**PROFESSIONAL EXPERIENCE**

October 1994 – October 1998	Chairman of the Mathematics-Physics Department, Oranim - University of Haifa
May 2005 – September 2009	Head of the undergraduate program at the Physics Dept.
October 2009 – December 2015	Dean of the Faculty of Physics, Technion
August 2016 – September 2021	Head of Physics Program in Guangdong Technion Israel Institute of Technology (GTIIT)
October 2017 –	Head of the Center for Pre-University Studies, Technion

**RESEARCH INTERESTS**

- **The death of massive stars:** Core collapse supernovae: Specific contributions: the jittering-jet model for explosion.
- **Type Ia supernovae.** Specific contributions: The core-degenerate model.
- **The death of solar-like stars:** Planetary nebulae, and the destruction of planets. Specific contributions: shaping planetary nebulae by binary and triple stellar systems and the influence of planets on stellar evolution.
- **Intermediate - Luminosity Optical Transients (ILOTs):** Eruptive stars in the gas between Novae and Supernovae. Specific contributions: The crucial role of power by jets in binary systems.
- **Eta Carinae:** The formation of the nebula around one of the most massive binary systems in the galaxy, and the strange behavior of the binary system. Specific contributions: The role of mass transfer and jet-launching in the present behavior of the system and during the Great Eruption of the 19th century.

- **Hot gas in galaxy clusters:** Heating the intra-cluster medium with jets launched from super-massive black holes, and feeding the black hole with cold gas. Specific contributions: the cold feedback mechanism; inflation of fat bubbles.

### **TEACHING EXPERIENCE**

	<b><u>Title</u></b>	<b><u>Year</u></b>	<b><u>Type</u></b>	<b><u>Level</u></b>
1)	Current Topics in Astronomy	Academic Year 1988-1989 Astronomy, Univ. of Virginia	Weekly 1 hour	Master + Doctor
2)	Physics 0 (Oranim)	1992-2000 (1 semester)	Weekly 6 h.	B.Sc.
3)	EM, Waves and Optics(Oranim)	1993 (1 semester)	Weekly 4 h.	B.Sc.
4)	Introduction to Astronomy (U. of Haifa)	1993-2000 (1 semester)	Weekly 2 h.	B.A.
5)	Introduction to Statistical Mechanics (Oranim)	1994 (1 semester)	Weekly 2 h.	B.Sc.
6)	Introduction to Quantum Mechanics (Oranim)	1994 (1 semester)	Weekly 4 h.	B.Sc.
7)	Nuclear Reactor and Nuclear Weapon (U. of Haifa)	1995-2000 (1 semester)	Weekly 2 h.	B.A.
8)	Introduction to Nuclear Physics (Oranim)	1995; 97; 99; 2001 (1 semester)	Weekly 4 h.	B.Sc.
9)	Introduction to Physics of 20th Century (U. of Haifa)	1996-2000 (2 semesters)	Weekly 2 h.	B.A.
10)	Special Relativity (Oranum)	1998; 2000 ( 1 semester)	Weekly 2 h.	B.Sc.
11)	Astrophysics (Oranum)	2000 (1 semester)	Weekly 2 h.	B.Sc.
12)	Physics 1 for biologists (Oranum)	2002 (1 semester)	Weekly 5 h	B. Sc
13)	Physics 1m/IP (Technion)	>10 times during 2003-2023	Weekly 3 h	B. Sc

14)	Physics 2m (Technion)	2004-2007	Weekly 4 h	B. Sc
15)	Stellar Physics 1	Several times 2006-2018	Weekly 3h	PhD+ B.Sc.
16)	Topics in Stellar Evolution	Few times 2007-2023	Weekly 2h	PhD
17)	Astrophysics and Cosmology (Technion)	Several times 2007-2020	Weekly 3 h.	B.Sc.
18)	Black Holes (Technion)	>10 times 2011-2024	Weekly 2 h.	B.Sc.
19)	Nuclear Astrophysics (Technion)	2018, 2021	Weekly 2h	PhD + B.Sc.

### **PUBLIC PROFESSIONAL ACTIVITIES**

#### **Refereeing for Journals:**

Refereeing of Papers for the Following Journals:

- Astronomical Journal
- Astrophysical Journal
- Astrophysical Journal Letters
- Nature
- Science
- Publications of the Astronomical Society of the Pacific
- Monthly Notices of the Royal Astronomical Society
- Astronomy & Astrophysics

#### **High School Teaching:**

1982-1986      Half Time Teaching: Mathematics, Physics and Chemistry:  
Grades 7-12: Naaman High School

### **LONG PROFESSIONAL VISITS ABROAD**

Aug 01-Feb 02      Department of Astronomy, University of Virginia,  
Charlottesville, Virginia, U.S.A. - 6 months Sabbatical.

### **CONFERENCES**

#### **Plenary or invited talks:**

	Meeting	Place and date	Title
1)	ESO/CTIO Workshop: Mass Loss on the AGB and Beyond	La Sarena, Chile, January 21-24, 1992	Common Envelopes and Axisymmetrical Mass Loss

2)	Magnetic Effects in Accretion and Cooling Flows (International Workshop)	Technion, Haifa, Israel, June 3-6, 1996	Magnetic Fields and Inflow in Cooling Flows
3)	Galactic and Cluster Cooling Flows (International Workshop)	Oranim - University of Haifa, Israel, August 5-8, 1996	Magnetic Fields and Inflow in Cooling Flows
4)	Astrophysical Fluids - From Atomic Nuclei to Stars and Galaxies (International Meeting)	Technion, Haifa, Israel, January 12-15, 1998	Interaction of Planets with AGB and RGB Stars
5)	Asymmetrical PNs II	MIT, MA., U.S.A., August 3-6, 1999	The Transition to Axisymmetrical Mass Loss
6)	Post AGB Objects	Torun, Poland, July 5-7, 2000	Planets and Axisymmetrical Mass Loss
7)	Planetary Nebulae	Canberra, Australia November 19-23, 2001	Planetary Nebulae in the Scheme of Binary Evolution
8)	Symbiotic Stars: Probing Stellar Evolution	La Palma, Spain, May 27-31, 2002	Evolution with Mass Transfer
9)	IAU Symposium 219: Stars as Suns: Activity, Evolution and Planets	Australia, July 21-25, 2003	Influence of Planets on Parent Stars: Angular Momentum
10)	IAU Colloquium 194: Compact Binaries in the Galaxy and Beyond	La Paz, Baja California Sur, Mexico, November 17-22, 2003	Energy and Angular Momentum Deposition During Common Envelope Evolution
11)	Planetary Nebulae as Astronomical Tools	Gdansk, Poland, June 28, July 2, 2005	Can we ignore magnetic fields in studies of PN formation, shaping and interaction with the ISM?
12)	The Nature of V838 Mon and its Light Echo	La Palma, Spain, May 16-19, 2006	On the main sequence merger model
13)	Star-disk interaction in young stars	Grenoble, France, May 21-25 2007	The role of thermal pressure in jet launching
14)	Asymmetrical Planetary Nebulae IV	La Palma, Spain June 18-22, 2007	Member in a Panel Discussion
15)	The Monster's Fiery Breath: Feedback in Galaxies, Groups, and Clusters	Madison, USA June 1-5, 2009	The moderate cooling flow model
16)	The Fourth Meeting on Hot Subdwarf Stars and Related Objects	Shanghai, China July 20-24, 2009	The Role of Planets in the Formation of EHB Stars
17)	Astrophysical Outflows and Associated Accretion Phenomena	Rio de Janeiro August 6-7, 2009	Are jets rotating at the launching?"
18)	Evolution of galaxies, their central black holes and their large-scale environment	Potsdam September 20-24, 2010	A Moderate Cooling Flow Phase at Galaxy Formation
19)	Planets Around Stellar Remnants	Arecibo, January , 23-27 2012	Transient events from the destruction of planets

20)	Galaxy Clusters as Giant Cosmic Laboratories	Madrid, May, 21-23, 2012	The cold feedback mechanism
21)	The death of stars and the lives of galaxies	Santiago, April 8-12, 2013	The summary talk
22)	Interacting Binaries and Isolated Neutron Stars	Cefalu, Sicily, June 9-14, 2014	The Core-Degenerate Scenario
23)	Mondello Workshop 2016: Frontier research in astrophysics II	Palermo, Italy, May 23-28, 2016	Jet-Feedback Mechanism, from supernovae to clusters of galaxies
24)	Supernova Remnants: An Odyssey in Space after Stellar death	Crete, Greece, Juner 6-10, 2016	The role of jets in exploding supernovae and shaping their remnants
25)	The asymmetrical planetary nebulae (APN) VII.	Hong Kong, December 4-8, 2017	Planets, Planetary Nebulae, and Intermediate Luminosity Optical Transients (ILOTs)
26)	Progenitors of Type Ia Supernovae	Lijiang, China, August 5-9, 2019	SN Ia scenarios in 2019: a rising demand for clean and symmetrical explosions
27)	WorkPlaNS II: Workshop for Planetary Nebula observations	Lorentz Center, Leiden December 16-20, 2019	Shaping of planetary nebulae: Jets and relation to other objects

### A large impact by presenting unique views/models/ideas and leading discussions

1)	The asymmetrical planetary nebulae (APN) series which I initiated in 1994 (8 meetings till 2021).	Oranim 1994; MIT 1999; Seattle 2003; La Palma; 2007; Manchester 2010; Mexico 2013; Hong Kong 2017; <b>Zoom 2021</b>	Very active member on the organizing committees; chairing sessions; leading discussions
2)	Supernovae Illuminating the Universe	Garching, Germany, September 12-14, 2012	The Core-Degenerate (CD) scenario for SN Ia; The Jittering-Jets model for core-collapse SNe.
2)	F.O.E. fifty-one ergs	Raleigh, NC, May 13-17, 2013	CD scenario; Jittering-jets model
3)	Stellar Tango at the Rockies 14	Lake Louise, Canada, March 23-28, 2014	Merger during the CE phase; Jets in CEs
4)	Characterizing Planetary Systems across the HR Diagram	Cambridge, UK, July 28-31, 2014	Planets – star interaction; planet-star merger
5)	Supernovae in the local Universe	Coffs Harbour, Australia, August 11-15, 2014	CD scenario; jittering-jets model
6)	The physics of evolved stars; A conference dedicated to the memory of Olivier Chesneau".	Nice, France, June 8-12, 2015	The grazing-envelope evolution (GEE)
7)	The impact of binaries on stellar evolution	Garching, Germany, July 3-7, 2017	Presented a daily summary of the meeting
8)	Shocking Supernovae: surrounding interactions and unusual events	Stockholm, Sweden, May 28-June1, 2018	Presented a daily summary of the meeting, and a final summary (uninvited)
10)	Common Envelope Physics and Outcomes (CEPO 2021)	Zoom, August 30 – September 3, 2021	Co-chair of the meeting and chair of a session with discussion.
11)	Supernova remnants and their progenitors	Zoom, August 16-18, 2022 (+ on site in the CfA, Harvard-Smithsonian)	During the entire meeting I lead intensive discussions on the role of jets.
12)	WORKSHOP 3D Supernova (Remnants)	Zoom, September 5-8, 2022 (+ on site University of Valencia, Spain).	I gave a review-talk on the role of jets and lead discussions on the role of jets.

**HONORS**

1981	Awards from the Israel Association of Physics
1983	President's List Honor Student Scholarship, Technion
1985	Moshe Ben-Sira Fellowship received as an honor student, Technion
1992-1995	Alon Fellowship
2011	Yanay Prize for Academic Excellence at the Technion
-2022	Excellence in teaching (2015,2020,2021) at the Technion
2022	Morton and Beverley Rechler Prize for Excellence in Research at the Technion

**GRADUATE STUDENTS**

<b><u>Student's Name</u></b>	<b><u>Title of Thesis/ Dissertation</u></b>	<b><u>Degree</u></b>	<b><u>Date</u></b>
David L. Blank (U. of Virginia)	Seyfert Galaxy Evolution	Master	May 1989
Philip C. Plait (U. of Virginia)	The Electron Density Profile of the Planetary Nebula NGC 6826	Master	May 1990
Essam Zoabi	The Intracluster Medium (supervision with Prof. Oded Regev)	PhD	1998
Muhammad Akashi	X-Ray Emission From Colliding Winds In Planetary Nebulae (supervision with Prof. Ehud Behar)	PhD	October 2008
Assaf Sternberg	Shaping of Planetary Nebulae and Radio Bubbles in Galaxy Clusters	PhD	March 2009
Amit Kashi	The Periastron Passage of the Binary Star Eta Carinae	PhD	September 2011
Carmit Gordon Lahav	Correlations of Black Hole Mass with Host Galaxy Properties	Master	February 2012
Marjan Ilkov	Common envelope WD-core merger as Type Ia supernova progenitors	Master	September 2012
Danny Tsebrenko	Interaction of Stellar Winds with Circumstellar Matter	Master	October 2012
	Interaction of supernova ejecta with asymmetrical circumstellar matter	PhD	October 2015
Michael Refaelovich	Chains of X-ray deficient bubbles as consequence of vortices fragmentation	Master	October 2012
Oded Papish	Expel of gravitationally bound mass by fast jets from compact objects	PhD	September 2015
Liron Mcley	Stellar Instability and Intermediate Luminosity Optical Transients (ILOTs)	Master	November 2014
Shlomi Hillel	Dynamics of Clumps in the Intracluster Medium	PhD	January 2016
Avishai Gilkis	Heating of a Medium by Jets from a Compact Object	Master	October 2012
	Intermittent Accretion Disk Production in Core Collapse Supernovae	PhD	September 2016
Efrat Sabach	Transient Event from a Core-WD Merger	Master	October 2013
	Mass Transfer in Stellar Binary	PhD	May

	Systems Resulting in Peculiar Objects		2018
Sagiv Shiber	The Role of Energetic Jets in Late Stages of Stellar Evolution	PhD	April 2019
Naveh Levanon	Evolution, merging and explosion of degenerate stars as Type Ia supernovae	PhD	September 2019
Roni Gofman	Energizing Supernovae by a Central Engine	Master	January 2020
Noa Kaplan	Energizing Supernovae and their Light Curves with Jets	Master	April 2020
Aldana Grichener	High Energy Processes in Common Envelope Jets Supernovae	Master	March 2021
	Common envelope jets supernovae: physics and outcomes	PhD	
Dmitry Shishkin	The influence of core convection on core collapse supernova properties	Master	March 2022
		PhD	
Tamar Cohen	The final phase of common envelope jet supernova impostors	Master	October 2023
Jessica Braudo		Maser	

### **POSTDOCTORAL FELLOW:**

Fabio Pizzolato 2004-2007  
Adam Frankowski 2008-2010  
Ealeal Bear 2009-2011

### **RESEARCH GRANTS**

1990	"Wind Interaction in Planetary Nebulae"	Soker, N. and Raymond, J.C.	Grant from NASA \$31,937
1990	"UV Spectra of Magnetically Disturbed Accretion Disks"	Raymond, J.C., van Ballegooijen, A., Soker, N., Nauche, C.W. and Miller, G.	Grant from NASA \$33,000
1990	"The Eclipsing Intermediate Polar LB 1800	Raymond, J.C., Buckley, D.A., Mauche, C.W., Miller, G. and Soker, N.	Grant from NASA \$12,600
1991	"Resonant Excitation of P- and G-Waves in Common envelopes"	Soker, N.	Grant from NASA \$29,145
1993	X-ray Filaments in Cluster Cooling Flows	Soker, N. and Regev, O.	Grant: the Technion- Univ. of Haifa Foundation \$5,000
1994-1997	X-ray Filaments in Cluster Cooling Flows	Soker, N. and Regev, O.	Grant: Israel Science Foundation, 3 years, \$30,000/year

1997-2000	Jets and Axisymmetrical Structures in Planetary Nebulae and Young Stellar Objects	Regev, O. and Soker, N.	Grant: Israel Science Foundation, 3 years, \$ 35,000/year
1999-2002	The Role of Binary Companions in Shaping Circumstellar Media	Soker, N. and Rappaport, S.	Grant from the US-Israel BSF \$ 22,000/year

2002-2005	Mass ejection in Late Stages of Stellar Evolution	Soker, N.	Grant: Israel Science Foundation; 3 years, \$ 30,000/ year
2008-2012	Connecting Shaping of Planetary Nebulae, Eta Carinae, and Cooling Flows	Soker, N.	Grant: Israel Science Foundation; 4 years, \$ 30,000/ year
2011-2015	Winds interaction in planetary nebulae and related objects	Soker, N. and Kastner, J. H.	Grant: US-Israel BSF; 4 years, \$ 19,000/ year
2016-2020	Shaping planetary nebulae by triple stellar systems	Soker, N.	Grant: Israel Science Foundation; 4 years, \$ 40,000/ year
2017-2020	Shaping Planetary nebulae by swallowing a binary system	Soker, N. and Schreier, R. (RAFAEL)	Pazy Fund (Israel Atomic Energy Commission); 4 years, \$ 60,000/ year
2020-2024	Post-AGB binary systems with jets and their implications to the shaping of planetary nebulae by jets from binary systems	Soker, N.	Grant: Israel Science Foundation; 4 years, \$ 45,000/ year
2021-2024	Shaping planetary nebulae by post-common envelope jets	Soker, N. and Schreier, R. (RAFAEL)	Pazy Fund (Israel Atomic Energy Commission); 4 years, \$ 50,000/ year

## **PUBLICATIONS**

### **Thesis:**

"Accretion from an Inhomogeneous Medium", 153 pages, in Hebrew.

Supervisor: Prof. Mario Livio.

Submitted to the Senate of the Technion in January 1986.

The work was published in the papers: 1, 2, 3, 4, 5, 6, 8, 9 in the list of refereed publications below.

### **Public Review Papers:**

Soker, N., "Planetary Nebulae", Scientific American, May, pp. 78-85 (1992).

### **Edited Books:**

1. Harpaz, A. and Soker, N. (Eds.) Asymmetrical Planetary Nebulae. Annals of the Israel Physical Society, Vol. 11, University of Haifa at Oranim Conference, Israel, 306 pages (1995).
2. Soker, N. (Ed.) Galactic and Cluster Cooling Flows. Astronomical Society of the Pacific Conference Series, Vol. 115, Proceedings of a Conference held at the University of Haifa at Oranim, Israel, 5-8 August 1996, 227 pages (1997).
3. Kastner, J.H., Soker, N. and Rappaport, S. (Eds.) Asymmetrical Planetary Nebulae II: From Origins to Microstructures. Astronomical Society of the Pacific Conference Series, Vol. 199, Proceedings of a Conference held at M.I.T., MA., U.S.A., August 3-6, 1999, 463 pages (2000).
4. Reiprich, T., Kempner, J., and Soker, N. (Eds) Riddle of Cooling Flows in Galaxies and Clusters off Galaxies, held in Charlottesville, VA, May 31 – June 4, 2003. Published electronically: <http://www.astro.virginia.edu/coolflow/> and on ADS (2004).
5. Meixner, M., Kastner, J.H., Soker, N. and Balick, B. (Eds.) Asymmetrical Planetary Nebulae III. Astronomical Society of the Pacific Conference Series, Vol. 313, in press. Proceedings of a Conference held at Washington State, U.S.A., July 28 – August 1, 2003 (2004).

### **Papers in refereed journals:**

1. Livio, M., and Soker, N. "Star-Planet Systems as Progenitors of Cataclysmic Binaries: Tidal Effects", Astronomy and Astrophysics, **125**, L12-L15 (1983).
2. Livio, M., and Soker, N. "Star-Planet Systems as possible Progenitors of Cataclysmic Binaries", Monthly Notices of the Royal Astronomical Society, **208**, 763-781 (1984).

3. Livio, M., and Soker, N. "On the Masses of the White Dwarfs in Cataclysmic Variables", Monthly Notices of the Royal Astronomical Society, **208**, 783-797 (1984).
4. Soker, N., Harpaz, A., and Livio, M. "The Evolution of a Star-Planet System in the Double Core Phase", Monthly Notices of the Royal Astronomical Society, **210**, 189-195 (1984).
5. Soker, N., and Livio, M. "On Accretion from a Medium Containing a Density Gradient", Monthly Notices of the Royal Astronomical Society, **211**, 927-932 (1984).
6. Livio, M., Soker, N., de Kool, M., and Savonije, G.J. "On Accretion of Angular Momentum from an Inhomogeneous Medium", Monthly Notices of the Royal Astronomical Society, **218**, 593-604 (1986).
7. Livio, M., Soker, N., and Dgani, R. "On the Stream-Disk Interaction in Accreting Compact Objects", Astrophysical Journal, **305**, 267-280 (1986).
8. Soker, N., Livio, M., de Kool, M., and Savonije, G.J. "Accretion of Angular Momentum from an Inhomogeneous Medium II: Isothermal Flow", Monthly Notices of the Royal Astronomical Society, **221**, 445-452 (1986).
9. Livio, M., Soker, N., de Kool, M., and Savonije, G.J. "Accretion of Angular Momentum from an Inhomogeneous Medium III: General Case and Observational Consequences", Monthly Notices of the Royal Astronomical Society, **222**, 235-250 (1986).
10. Soker, N., Regev, O., Livio, M., and Shara, M.M. "Massive Disk Formation Resulting from the Collision of a Main Sequence Star with a White Dwarf in a Globular Cluster Core", Astrophysical Journal, **318**, 760-766 (1987).
11. Soker, N., and Sarazin, C.L. "Cooling Flows and the Stability of Radio Jets", Astrophysical Journal, **327**, 66-81 (1988).
12. Soker, N., O'Dea, C.P., and Sarazin, C.L. "Numerical Simulations of the Bending of Narrow Angle Tail Radio Jets by Ram Pressure or Pressure Gradients", Astrophysical Journal, **327**, 627-638 (1988).
13. Livio, M., and Soker, N. "The Common Envelope Phase in the Evolution of Binary Stars", Astrophysical Journal, **329**, 764-779 (1988).
14. Dgani, R., Livio, M., and Soker, N. "On the Stream-Accretion Disk Interaction: Response to the Increased Mass Transfer Rate", Astrophysical Journal, **336**, 350-359 (1989).
15. Soker, N., and Livio, M. "Interacting Winds and the Shaping of Planetary Nebulae", Astrophysical Journal, **339**, 268-278 (1989).
16. Soker, N. "Early Shaping of Asymmetrical Planetary Nebulae", Astrophysical Journal, **340**, 927-931 (1989).

17. Balbus, S.A., and Soker, N. "Theory of Local Thermal Instability in Spherical Systems", *Astrophysical Journal*, **341**, 611-639 (1989).
18. Chevalier, R.A., and Soker, N. "Asymmetric Envelope Expansion of Supernova 1987A", *Astrophysical Journal*, **341**, 867-882 (1989).
19. Soker, N., and Sarazin, C.L. "The Role of Magnetic Fields in Cluster Cooling Flows", *Astrophysical Journal*, **348**, 73-84 (1990).
20. Soker, N. "On the Formation of Ansaе in Planetary Nebulae", *Astronomical Journal*, **99**, 1869-1882 (1990).
21. Plait, P., and Soker, N. "The Evolution of the Planetary Nebula NGC 6826", *Astrophysical Journal*, **99**, 1883-1890 (1990).
22. Soker, N. "H-Function Evolution in Collisionless Self-Gravitating Systems", *Publications of the Astronomical Society of the Pacific*, **102**, 639-645 (1990).
23. Balbus, S.A., and Soker, N. "Resonant Excitation of Internal Gravity Waves in Cluster Cooling Flows", *Astrophysical Journal*, **357**, 353-366 (1990).
24. Soker, N. "Stability Analysis of the Accretion Line", *Astrophysical Journal*, **358**, 545-550 (1990).
25. Borkowski, K.J., Sarazin, C.L., and Soker, N. "Interaction of Planetary Nebulae with the Interstellar Medium", *Astrophysical Journal*, **360**, 173-183 (1990).
26. Abramowics, M.A., Livio, M., Soker, N., and Szuskiwicz, E. "Local Stability of Thick Accretion Disks. II. Viscous and Radiative Effects", *Astronomy and Astrophysics*, **239**, 399-403 (1990).
27. Soker, N. "Resonant Interaction in Common Envelopes", *Astrophysical Journal*, **367**, 593-600 (1991).
28. Soker, N., Bregman, J.N., and Sarazin, C.L. "Stripped Interstellar Gas in Cluster Cooling Flows", *Astrophysical Journal*, **368**, 341-347 (1991).
29. Whitney, B.A., Soker, N., and Clayton, G.C. "Model for R Coronae Borealis Stars", *Astrophysical Journal*, **102**, 284-288 (1991).
30. Soker, N. "Nonlinear Instability of the Accretion Line", *Astrophysical Journal*, **376**, 750-756 (1991).
31. Soker, N., Borkowski, K.J. and Sarazin, C.L. "Interaction of Planetary Nebulae with the Interstellar Medium: Theory", *Astronomical Journal*, **102**, 1381-1392 (1991).
32. Livio, M., Soker, N., Matsuda, T., and Anzer, U. "On the Flip-Flop Instability of Bondi-Hoyle Accretion Flows", *Monthly Notices of the Royal Astronomical Society*, **253**, 633-636 (1992).

33. Soker, N. "Excitation of Pressure Modes in Common Envelopes", *Astrophysical Journal*, **386**, 190-196 (1992).
34. Soker, N. "Jet Formation in the Transition from the AGB to Planetary Nebulae", *Astrophysical Journal*, **389**, 628-634 (1992).
35. Soker, N. "Excitation of Gravity Waves in Common Envelopes", *Astrophysical Journal*, **399**, 185-191 (1992).
36. Soker, N., and Harpaz, A. "Can a Single AGB Star Form an Axially Symmetric Planetary Nebula?", *Publications of the Astronomical Society of the Pacific*, **104**, 923-930 (1992).
37. Soker, N., Zucker, D.B., and Balick, B. "The Density Profile of the Elliptical Planetary Nebula NGC 3242", *Astronomical Journal*, **104**, 2151-2160 (1992).
38. Vrtilik, S.D., Soker, N., and Raymond, J.C. "Effects of Inclination Angle on the Spectra of X-Ray Binaries", *Astrophysical Journal*, **404**, 696-705 (1993).
39. Zucker, D.B., and Soker, N. "The Morphology and Interaction with the ISM of the Planetary Nebula IC 4593", *Astrophysical Journal*, **408**, 579-585 (1993).
40. Soker, N. "Effects of Convection on Pressure Wave Excitation in Common Envelopes", *Astrophysical Journal*, **417**, 347-350 (1993).
41. Dgani, R. and Soker, N. "Nonlinear Instability of Colliding Winds in a Double Star System", *Astronomy and Astrophysics*, **282**, 54-60 (1994).
42. Soker, N. "The Expected Morphology of the Solar System Planetary Nebula", *Publications of the Astronomical Society of the Pacific*, **106**, 59-62 (1994).
43. Soker, N. and Livio, M. "Disks and Jets in Planetary Nebulae", *Astrophysical Journal*, **421**, 219 (1994).
44. Soker, N. "Heat Conduction Fronts in Planetary Nebulae", *Astronomical Journal*, **107**, 276-279 (1994).
45. Dgani, R. and Soker, N. "Radiative Shock Overstability of Finite Sized Objects", *Astrophysical Journal*, **434**, 262-267 (1994).
46. Harpaz, A., and Soker, N. "Evaporation of Brown Dwarfs in AGB Envelopes", *Monthly Notices of the Royal Astronomical Society*, **270**, 734-742 (1994).
47. Soker, N. "Influences of Wide Binaries on the Structures of Planetary Nebulae", *Monthly Notices of the Royal Astronomical Society*, **270**, 774-780 (1994).
48. Godon, P., Soker, N., White, R.E. III, and Regev, O. "Optical Filaments and Global flow in Cluster Cooling Flows", *Astronomical Journal*, **108**, 2009-2015 (1994).

49. Soker, N. "Tidal Spin-Up and the Asymmetry Degree of Planetary Nebulae", Monthly Notices of the Royal Astronomical Society, **274**, 147-152 (1995).
50. Dgani, R., Soker, N. and Cadavid, M.L. "The Colliding Winds Overstability", Astronomical Journal, **110**, 1894-1900 (1995).
51. Soker, N. "H-Function Evolution During Violent Relaxation", Astrophysical Journal, **457**, 287-290 (1996).
52. Zoabi, E., Soker, N. and Regev, O. "Magnetically Uplifted Clumps in Cooling Flow Clusters", Astrophysical Journal, **460**, 244-251 (1996).
53. Soker, N. "What Planetary Nebulae Can Tell Us About Planetary Systems", Astrophysical Journal Letters, **460**, L53-L56 (1996).
54. Soker, N. "Destruction of Brown Dwarfs and Jet Formation in Planetary Nebulae", Astrophysical Journal, **468**, 774-778 (1996).
55. Soker, N. "Comments on the Formation of Elliptical Planetary Nebulae", Astrophysical Journal, **469**, 734-736 (1996).
56. Soker, N. "Stellar Bubbles Inside Planetary Nebulae", Monthly Notices of the Royal Astronomical Society, **283**, 1405-1408 (1996).
57. Soker, N. and Dgani R. "Interaction of Planetary Nebulae with a Magnetized ISM", Astrophysical Journal, **484**, 277-285 (1997).
58. Soker, N. and Zucker, D.B. "The Interaction of the Planetary Nebula NGC 6894 with the ISM Magnetic Field", Monthly Notices of the Royal Astronomical Society, **289**, 665-670 (1997).
59. Harpaz, A., Rappaport, S. and Soker, N. "The Rings Around the Egg Nebula", Astrophysical Journal, **487**, 809-817 (1997).
60. Soker, N. "Properties that Cannot be Explained by the Progenitors of Planetary Nebulae", Astrophysical Journal Supplement, **112**, 487-505 (1997).
61. Soker, N. "Interaction of Radio Jets with Magnetic Fields in Clusters of Galaxies", Astrophysical Journal, **488**, 572-578 (1997).
62. Dgani, R. and Soker, N. "Instabilities in Moving Planetary Nebulae", Astrophysical Journal, **495**, 337-345 (1998).
63. Soker, N. "Binary Progenitors Models for Bipolar Planetary Nebulae", Astrophysical Journal, **496**, 833-841 (1998).
64. Soker, N., Rappaport, S. and Harpaz, A. "Eccentric Binary Model for Off-Center Planetary Nebula Nuclei", Astrophysical Journal, **496**, 842-848 (1998).

65. Zoabi, E., Soker, N. and Regev, O. "Dynamics of Magnetic Flux Loops in Cooling Flow Clusters of Galaxies", Monthly Notices of the Royal Astronomical Society, **296**, 579-584 (1998).
66. Dgani, R. and Soker, N. "Nonthermal Radio Emission from Planetary Nebulae", Astrophysical Journal Letters, **499**, L83-L86 (1998).
67. Godon, P., Soker, N. and White III, R.E. "Amplification of Magnetic Fields in the Centers of Cluster Cooling Flows", Astronomical Journal, **116**, 37-43 (1998).
68. Harpaz, A. and Soker, N. "Radiation from a Uniformly Accelerated Charge", General Relativity and Gravitation, **30**, 1217-1227 (1998).
69. Soker, N. "Radially Aligned Clumps and Tails in Planetary Nebulae", Monthly Notices of the Royal Astronomical Society, **299**, 562-566 (1998).
70. Soker, N. "Can Planets Influence the Horizontal Branch Morphology?", Astronomical Journal, **116**, 1308-1313 (1998).
71. Soker, N. and Regev, O. "Disturbed Fliers in Planetary Nebulae", Astronomical Journal, **116**, 2462-2465 (1998).
72. Soker, N. "Magnetic Field, Dust, and Axisymmetrical Mass Loss on the AGB", Monthly Notices of the Royal Astronomical Society, **299**, 1242-1248 (1998).
73. Soker, N. "A Model for the Outer Rings of SN1987A", Monthly Notices of the Royal Astronomical Society, **303**, 611-615 (1999).
74. Soker, N. "Detecting Planets in Planetary Nebulae", Monthly Notices of the Royal Astronomical Society, **306**, 806-808 (1999).
75. Soker, N. and Clayton, G.C. "Dust Formation Above Cool Magnetic Spots in Evolved Stars", Monthly Notices of the Royal Astronomical Society, **307**, 993-1000 (1999).
76. Soker, N. "Visual Wide Binaries and the Structure of Planetary Nebulae", Astronomical Journal, **118**, 2424-2429 (1999).
77. Soker, N. and Harpaz, A. "Stellar Structure and Mass Loss on the Upper Asymptotic Giant Branch", Monthly Notices of the Royal Astronomical Society, **310**, 1158-1164 (1999).
78. Soker, N. "Dust Formation and Inhomogeneous Mass Loss from Asymptotic Giant Branch Stars", Monthly Notices of the Royal Astronomical Society, **312**, 217-224 (2000).
79. Soker, N. "Eccentric Orbits of Close Companions to Asymptotic Giant Branch Stars", Astronomy and Astrophysics, **357**, 557-560 (2000).

80. Soker, N. and Rappaport, S. "The Formation of Very Narrow Waist Bipolar Planetary Nabulae", *Astrophysical Journal*, **538**, 241-259 (2000).
81. Soker, N. "A Solar-Like Cycle in Asymptotic Giant Branch Stars", *Astrophysical Journal*, **540**, 436-441 (2000).
82. Soker, N. and Harpaz, A. "Rotation, Planets and the 'Second Parameter' of the Horizontal Branch", *Monthly Notices of the Royal Astronomical Society*, **317**, 861-866 (2000).
83. Soker, N. "Asymmetry and Inhomogeneity in Proto- and Young Planetary Nabulae", *Monthly Notices of the Royal Astronomical Society*, **318**, 1017-1022 (2000).
84. Kastner, J.H., Soker, N., Vrtilik, S.D. and Dgani, R. "Chandra X-Ray Observatory Detection of Extended X-Ray Emission from the Planetary Nebula BD +30°3639". *Astrophysical Journal Letters*, **545**, L57-L59 (2000).
85. Harpaz, A. and Soker, N. "Origin of the Radiation Reaction Force", *International Journal of Theoretical Physics*, **39**, 2867-2874 (2000).
86. Soker, N., White, R.E., III, David, L.P. and McNamara, B.R. "A Moderate Cluster Cooling Flow Model". *Astrophysical Journal*, **549**, 832-839 (2001).
87. Kastner, J.H., Vrtilik, S.D. and Soker, N. "Discovery of Extended X-Ray Emission from the Planetary Nebula NGC 7027 by the Chandra X-Ray Observatory". *Astrophysical Journal Letters*, **550**, L189-L192 (2001).
88. Livio, M. and Soker, N. "The 'Twin Jet' Planetary Nebula M2-9". *Astrophysical Journal*, **552**, 685-691 (2001).
89. Soker, N. and Hadar, R. "The 'Second Parameter': A Memory from the Globular Cluster Formation Epoch", *Monthly Notices of the Royal Astronomical Society*, **324**, 213-217 (2001).
90. Soker, N. "Extrasolar Planets and the Rotation and Axisymmetric Mass-loss of Evolved Stars". *Monthly Notices of the Royal Astronomical Society*, **324**, 699-704 (2001).
91. Soker, N. "The Departure of Eta Carinae from Axisymmetry and the Binary Hypothesis". *Monthly Notices of the Royal Astronomical Society*, **325**, 584-588 (2001).
92. Soker, N. and Rappaport, S. "Departure from Axisymmetry in Planetary Nabulae". *Astrophysical Journal*, **557**, 256-265 (2001).
93. Soker, N. "Collimated Fast Winds in the Wide Binary Progenitors of Planetary Nabulae". *Astrophysical Journal*, **558**, 157-164 (2001).
94. Soker, N., "A model for the strings of  $\eta$  Carinae", *Astronomy & Astrophysics*, **377**, 672-676 (2001).

95. Soker, N., Catelan, M., Rood, R. T., and Harpaz, A. "A Superwind from Early Post-Red Giant Stars?", *Astrophysical Journal Letters*, **536**, L69-L72 (2001).
96. Soker, N., Rappaport, S., and Fregeau, J. "Collisions of Free-floating Planets with Evolved Stars in Globular Clusters", *Astrophysical Journal Letters*, **563**, L87-L90 (2001).
97. Soker, N. "Backflow in post-asymptotic giant branch stars", *Monthly Notices of the Royal Astronomical Society*, **328**, 1081-1084 (2001)
98. Soker, N., and Zoabi, E. "Turbulent dynamo in asymptotic giant branch stars", *Monthly Notices of the Royal Astronomical Society*, **329**, 204-208 (2002)
99. Soker, N. "Why every bipolar planetary nebula is 'unique' ", *Monthly Notices of the Royal Astronomical Society*, **330**, 481-486 (2002)
100. Soker, N. and Hadar, R. "Classification of Planetary Nebulae by their Departure from Axisymmetry", *Monthly Notices of the Royal Astronomical Society*, **331**, 731-735 (2002)
101. Soker, N. "Formation of Bipolar Lobes by Jets", *Astrophysical Journal*, **568**, 726-732 (2002)
102. Soker, N. "On the Formation of Multiple Arcs Around Asymptotic Giant Branch Stars", *Astrophysical Journal*, **570**, 369-372 (2002)
103. Soker, N. and Kastner, J.H. "X-Ray Emission from Central Binary Systems of Planetary Nebulae." *Astronomical Journal*, **570**, 245-251 (2002).
104. Soker, N. "Spherical Planetary Nebulae." *Astronomy and Astrophysics*, **386**, 885-890 (2002)
105. De Marco, O. and Soker, N. "A New Look at the Evolution of Wolf-Rayet Central Stars of Planetary Nebulae." *Publications of the Astronomical Society of the Pacific*, **114**, 602-611 (2002)
106. Livio, M. and Soker, N. "The Effects of Planets and Brown Dwarfs on Stellar Rotation and Mass Loss." *Astrophysical Journal Letters*, **571**, 161-164(2002)
107. Soker, N., Blanton, E.L. and Sarazin, C.L. "Hot Bubbles in Cooling Flow Clusters" *Astrophysical Journal*, **573**, 533-537 (2002)
108. Martin, J, Xilouris, K, Soker, N. "The Early Interaction of the Planetary Nebula NGC 40 with the Interstellar Medium", *Astronomy and Astrophysics*, **391**, 689-692(2002)
109. Soker, N., "Formation of Double Rings Around Evolved Stars", *Astrophysical Journal* , **577**, 839-844 (2002).

110. Soker, N. "Local Circumstellar Magnetic Fields Around Evolved Stars", Monthly Notices of Royal Astronomical Society, **336**, 826-830 (2002).
111. Soker, N. "Comments on the Final Orbital Separation in Common Envelope Evolution", Monthly Notices of the Royal Astronomical Society, **336**, 1229-1233 (2002)
112. Soker, N. "Magnetic activity of the cool component in symbiotic systems", Monthly Notices of the Royal Astronomical Society, **337**, 1038-1042 (2002).
113. Kastner, J.H., Li, J., Vrtilik, S.D., Gatley, I., Merrill, K.M. and Soker, N. "On the asymmetries of Extended X-ray emission from Planetary Nebulae", Astrophysical Journal, **581**, 1225-1235 (2002).
114. Soker, N. and Tytenda, R. "Main-Sequence Stellar Eruption Model for V838 Monocerotis", Astrophysical Journal Letters, **582**, L105-108 (2003).
115. Soker, N., and Kastner, J. H., "On the Luminosities and Temperatures of Extended X-ray Emission from Planetary Nebulae" Astrophysical Journal, **583**, 368-373 (2003).
116. Maness, H. L., Vrtilik, S. D., Kastner, J., and Soker, N. "Abundance Anomalies in the X-Ray Spectra of Planetary Nebulae NGC 7027 and BD +30°3639", Astrophysical Journal, **589**, 439-443 (2003).
117. Soker, N., and David, L. P., "Observed Non-Steady State Cooling and the Moderate Cluster Cooling Flow Model", Astrophysical Journal, **589**, 770-773 (2003).
118. Soker, N. "Problems in suppressing cooling flows in clusters of galaxies by global heat conduction ", Monthly Notices of the Royal Astronomical Society, **342**, 463-466 (2003).
119. Kastner, J. H., Balick, B., Blackman, E. G., Frank, A., Soker, N., Vrtilik, S. D., and Li, J., "A Compact X-Ray Source and Possible X-Ray Jets within the Planetary Nebula Menzel 3", Astrophysical Journal Letters, **591**, L37-L40 (2003).
120. Soker, N., and Kastner, J. H., "Magnetic Flares on Asymptotic Giant Branch Stars" Astrophysical Journal, **592**, 498-503 (2003)
121. Soker, N., and Regev, O. "Launching jets from the boundary layer of accretion disks in young stellar objects", Astronomy and Astrophysics, **406**, 603-611 (2003).
122. Soker, N. and Harpaz, A., "Criticism of recent calculations of common envelope ejection", Monthly Notices of the Royal Astronomical Society, **343**, 456-458 (2003).
123. Soker, N., "Accretion-Induced Collimated Fast Wind Model for  $\eta$  Carinae",

Astrophysical Journal, **597**, 513-517 (2003).

124. Soker, N., "Pairs of Bubbles in Planetary Nebulae and Clusters of Galaxies", The Publications of the Astronomical Society of the Pacific, **115**, 1296-1300 (2003).
125. Soker, N., "Bubbles in Planetary Nebulae and Clusters of Galaxies: Jet Properties", Astronomy and Astrophysics, **414**, 943-947 (2004).
126. Soker, N. and Harpaz, A., " Radiation from a Charge Supported in a Gravitational Field", General Relativity and Gravitation, **36**, 315-330 (2004).
127. Soker, N., "Cooling by Heat Conduction Inside Magnetic Flux Loops and the Moderate Cluster Cooling-Flow Model", Monthly Notices of the Royal Astronomical Society, **350**, 1015-1021 (2004).
128. Soker, N., "Bubbles in Planetary Nebulae and Clusters of Galaxies: Instabilities at Bubble Fronts", New Astronomy, **9**, 285-290 (2004).
129. Kastner, J. H., and Soker, N., "Constraining the X-ray Luminosities of Asymptotic Giant Branch Stars: TX Cam and T Cas", Astrophysical Journal, **608**, 978-982 (2004).
130. Soker, N., " Wind Accretion by a Binary Stellar System and Disk Formation", Monthly Notices of the Royal Astronomical Society, **350**, 1366-1372 (2004).
131. Soker, N., "Energy and Angular Momentum Deposition During Common Envelope Evolution", New Astronomy, **9**, 399-408 (2004).
132. Soker, N., Blanton, E.L., and Sarazin, C.L., " Cooling of X-ray Emitting Gas by Heat Conduction in the Center of Cooling Flow Clusters", Astronomy and Astrophysics, **422**, 445-452 (2004).
133. Soker, N., and Lasota, J.-P., "The Absence of Jets in Cataclysmic Variable Stars", Astronomy and Astrophysics, **422**, 1039-1043 (2004).
134. Soker, N., " Why a Single-Star Model Cannot Explain the Bipolar Nebula of Eta Carinae", Monthly Notices of the Royal Astronomical Society, **612**, 1060-1064 (2004).
135. Kastner, J. H., and Soker, N., "X-Rays from the Mira AB Binary System", Astrophysical Journal, **616**, 1188-1192 (2004)
136. Soker, N., " The Shaping of the Red Rectangle Proto-Planetary Nebula", Astronomical Journal, **129**, 947-953 (2005).
137. Soker, N., "The Binarity of Eta Carinae and its Similarity to Related Astrophysical Objects", Astrophysical Journal, **619**, 1064-1071 (2005).
138. Soker, N., and Pizzolato, F., "Feedback Heating with Slow Jets in Cooling Flow Clusters", Astrophysical Journal, **622**, 847-852 (2005).

139. Soker, N., "Interaction of young stellar object jets with their accretion disk"  
*Astronomy and Astrophysics*, **435**, 125-129 (2005).
140. Tylenda, R. Soker, N., and Szczerba, R. "On the progenitor of V838 Monocerotis",  
*Astronomy and Astrophysics*, **441**, 1099-1109 (2005)
141. Pizzolato, F., and Soker, N., "On the Nature of Feedback Heating in  
Cooling Flow Clusters", *Astrophysical Journal*, **632**, 821-830 (2005)
142. Soker, N., and Subag, E., "A Possible Hidden Population of Spherical  
Planetary Nebulae", *Astronomical Journal*, **130**, 2717-2724 (2005)
143. Montez Jr., R., Kastner, J. H., De Marco, O., and Soker, N., "X-ray Imaging of  
Planetary Nebulae with Wolf-Rayet-type Central Stars: Detection of the  
Hot Bubble in NGC 40", *Astrophysical Journal*, **635**, 381-385 (2005)
144. Soker, N., "Accretion by the Secondary in Eta Carinae During the  
Spectroscopic Event: I. Flow Parameters", *Astrophysical Journal*, **635**, 540-546  
(2005)
145. Pizzolato, F., & Soker, N., "Binary Black Holes at the Core of Galaxy Clusters"  
*Advances in Space Research*, **36**, 762-766 (2005)
146. Soker, N., "Why Magnetic Fields Cannot be the Main Agent Shaping  
Planetary Nebulae", *Publications of the Astronomical Society of the Pacific*,  
**118**, 260-269 (2006)
147. Soker, N., "Photospheric Opacity and Over-Expanded Envelopes of  
Asymptotic Giant Branch Stars", *New Astronomy*, **11**, 396-403 (2006)
148. Soker, N., "Accreting White Dwarfs among the Planetary Nebulae  
Most Luminous in [O III]  $\lambda$  5007 Emission", *Astrophysical Journal*,  
**640**, 966-970 (2006)
149. Tylenda, R., and Soker, N., "Eruptions of the V838~Mon Type: Stellar Merger  
Versus Nuclear Outburst Models", *Astronomy and Astrophysics*, **451**, 223-236  
(2006)
150. Akashi, M., Soker, N., & Behar, E., "Accretion onto the Companion of  
Eta Carinae during the Spectroscopic Event: II. X-Ray Emission Cycle",  
*Astrophysical Journal*, **644**, 451-463 (2006)
151. Akashi, M., Soker, N., & Behar, E., "X-Ray Emission by a Shocked Fast Wind  
from the Central Stars of Planetary Nebulae", *Monthly Notices of the Royal  
Astronomical Society*, **368**, 1706-1716 (2006)
152. Soker, N., "Observed Planetary Nebulae as Descendants of Interacting Binary  
Systems", *Astrophysical Journal Letter*, **645**, L57-L60 (2006)

153. Soker, N., & Bisker, G., "Bubbles in Planetary Nebulae and Clusters of Galaxies: Jet Bending" Monthly Notices of the Royal Astronomical Society, **369**, 1115-1122 (2006)
154. Pizzolato, F., & Soker, N., "On the Rayleigh-Taylor Instability of Radio Bubbles in Galaxy Clusters", Monthly Notices of the Royal Astronomical Society, **371**, 1835-1848, (2006)
155. Soker, N., "The Source of Mass Accreted by the Central Black Hole in Cooling Flow Clusters", New Astronomy, **12**, 38-46 (2006)
156. Soker, N., & Behar, E., "Accretion onto the Companion of Eta Carinae During the Spectroscopic Event: III. the He II 4686 Line", Astrophysical Journal, **652**, 1563-1571 (2006)
157. Soker, N., & Tylenda, R., "Violent Stellar Merger Model for Transient Events", Monthly Notices of the Royal Astronomical Society, **373**, 733-738. (2006)
158. Sternberg, A., Pizzolato, F., & Soker, N., "Inflating Fat Bubbles in Clusters of Galaxies by Wide Jets", Astrophysical Journal Letter, **656**, L5-L8. (2007)
159. Akashi, M., Soker, N., & Behar, E., & Blondin, J. "X-Ray Emission from Planetary Nebulae Calculated by 1D Spherical Numerical Simulations", Monthly Notices of the Royal Astronomical Society, **375**, 137-144 (2007)
160. Soker, N., & Tylenda, R., "Magnetic Activity in Stellar Merger Products", Monthly Notices of the Royal Astronomical Society, **375**, 909-912 (2007)
161. Soker, N. and Harpaz, A., "Overluminous Blue Horizontal-Branch Stars Formed by Low-Mass Companions", Astrophysical Journal, **660**, 699-703 (2007)
162. Soker, N., "Accretion onto the Companion of Eta Carinae During the Spectroscopic Event. IV. The Disappearance of Highly Ionized Lines", Astrophysical Journal, **661**, 482-489 (2007)
163. Soker, N., "Comparing Eta Carinae with the Red Rectangle", Astrophysical Journal, **661**, 490-495 (2007)
164. Kashi, A., & Soker, N. "Modelling the Radio Light Curve of Eta Carinae", Monthly Notices of the Royal Astronomical Society, **378**, 1609-1618 (2007)
165. Behar, E., Nordon, R., & Soker, N. "A hot transient outflow in Eta Carinae", Astrophysical Journal Letter, **666**, L97-L100 (2007)
166. Soker, N., & Hershenhorn, A., "Expected Planets in Globular Clusters", Monthly Notices of the Royal Astronomical Society, **381**, 334-340 (2007)
167. Kashi, A., & Soker, N. "The Source of the Helium Visible Lines in Eta Carinae", New Astronomy, **12**, 590-596 (2007)
168. Soker, N., "Defining the Termination of the Asymptotic Giant Branch",

Astrophysical Journal Letter, **674**, L49-L52 (2008)

169. Sternberg, A., & Soker, N., "Inflating Fat Bubbles in Clusters of Galaxies by Precessing Massive Slow Jets", Monthly Notices of the Royal Astronomical Society, **384**, 1327-1336 (2008)
170. Akashi, M., & Soker, N., "A Model for the Formation of Large Circumbinary Disks around post AGB Stars", New Astronomy, **13**, 157-162 (2008)
171. Soker, N., "The Formation of Slow-Massive-Wide Jets", New Astronomy, **13**, 296-303 (2008)
172. Soker, N., "Entropy limit and the Cold Feedback Mechanism in Cooling Flow Clusters", Astrophysical Journal Letter, **684**, L5-L8 (2008)
173. Sternberg, A., & Soker, N., "Rising Jet-Inflated Bubbles in Clusters of Galaxies", Monthly Notices of the Royal Astronomical Society Letters, **389**, L13-L17 (2008)
174. Soker, N., "A phenomenological Model for the Extended Zone Above AGB Stars", New Astronomy, **13**, 491-497 (2008)
175. Kashi, A., & Soker, N. "The Orientation of the Eta Carinae Binary System", Monthly Notices of the Royal Astronomical Society, **390**, 1751-1761 (2008)
176. Akashi, M., Meiron, Y. & Soker, N., "X-Ray Emission from Jet-Wind Interaction in Planetary Nebulae", New Astronomy, **13**, 563-568 (2008)
177. Kashi, A., & Soker, N. "Accretion onto the Companion of Eta Carinae During the Spectroscopic Event. V. The Infrared Decline", New Astronomy, **13**, 569-580 (2008)
178. Akashi, M., & Soker, N. "Shaping Planetary Nebulae and Related Objects by Light Jets", Monthly Notices of the Royal Astronomical Society, **391**, 1063-1074 (2008)
179. Yu, Y. S., Nordon, R., Kastner, J. H., Houck, J., Behar, E., & Soker, N., "The X-Ray Spectrum of a Planetary Nebula at High Resolution: Chandra Gratings Spectroscopy of BD+30 3639", Astrophysical Journal, **690**, 440-452 (2009)
180. Kashi, A., & Soker, N. "Possible Implications of Mass Accretion in Eta Carinae", New Astronomy, **14**, 11-24 (2009)
181. Nordon, R., Behar, E., Soker, N., Kastner, J. H., & Yu, Y. S., "Narrow Radiative Recombination Continua: A Signature of Ions Crossing the Contact Discontinuity of Astrophysical Shocks" Astrophysical Journal **695**, 834-843 (2009)
182. Kashi, A., & Soker, N. "Prediction for the He I 10830A Absorption Wing in the Coming Event of Eta Carinae", Monthly Notices of the Royal Astronomical Society, **394**, 923-928 (2009)
183. Sternberg, A., & Soker, N., "Sound Waves Excitation by Jet-Inflated Bubbles in

- Clusters of Galaxies", Monthly Notices of the Royal Astronomical Society **395**, 228-233 (2009)
184. Kashi, A. & Soker, N., "Explaining the Early Exit of Eta Carinae from its 2009 X-ray Minimum with the Accretion Model", Astrophysical Journal Letter **701**, L59-L62 (2009)
185. Kashi, A. & Soker, N., "Using X-Ray Observations to Explore the Binary Interaction in Eta Carinae", Monthly Notices of the Royal Astronomical Society, **397**, 1426-1434 (2009)
186. Harpaz, A. & Soker, N. "Triggering Eruptive Mass Ejection in Luminous Blue Variableness", New Astronomy, **14**, 539-544 (2009)
187. Sternberg, A., & Soker, N., "Explaining the Energetic AGN Outburst of MS0735+7421 with Massive slow Jets", Monthly Notices of the Royal Astronomical Society, **398**, 422-428 (2009)
188. Soker, N., "Correlation of Black Hole-Bulge Masses by AGN Jets", Monthly Notices of the Royal Astronomical Society **398**, L41-L43 (2009),
189. Frankowski, A. & Soker, N., "Comparing Symbiotic Nebulae and Planetary Nebulae Luminosity Functions", Astrophysical Journal Letters, **703**, L95-L98 (2009)
190. Frankowski, A. & Soker, N., "Very late thermal pulses influenced by accretion in planetary nebulae", New Astronomy, **14**, 654-658 (2009)
191. Kashi, A., Frankowski A., & Soker, N., "NGC 300 OT2008-1 as a Scaled-Down Version of the Eta Carinae Great Eruption", Astrophysical Journal Letters, **709**, L11-L15 (2010)
192. Soker, N., "Applying the Jet Feedback Mechanism to Core-Collapse Supernova Explosions", Monthly Notices of the Royal Astronomical Society, **401**, 2793-2798 (2010)
193. Soker, N., Frankowski A., & Kashi, A. "Galactic vs. Extragalactic Origin of the Peculiar Transient SCP06F6", New Astronomy, **15**, 189-197 (2010)
194. Antonini, F., Montez, R., Jr., Kastner, J. H., Bond, H. E., Soker, N., Tylanda, R., Starrfield, S., & Behar, E., "XMM-Newton Detection of a Transient X-ray Source in the Vicinity of V838 Monocerotis", Astrophysical Journal **717**, 795-802 (2010)
195. Bear, E. & Soker, N. "Spinning-Up the Envelope Before Entering a Common Envelope Phase", New Astronomy, **15**, 483-490 (2010)
196. Soker, N., "Was an Outburst of Aquila X-1 a Magnetic Flare", Astrophysical Journal Letters, **721**, L189-L192 (2010)

197. Soker, N., "A Moderate Cooling Flow Phase at Galaxy Formation", Monthly Notices of the Royal Astronomical Society, **407**, 2355-2361 (2010)
198. Pizzolato, F. & Soker, N. "Solving the Angular Momentum Problem in the Cold Feedback Mechanism of Cooling Flows", Monthly Notices of the Royal Astronomical Society, **408**, 961-974 (2010)
199. Kashi, A. & Soker, N., "Periastron Passage Triggering of the 19th Century Eruption of Eta Carinae", Monthly Notices of the Royal Astronomical Society, **723**, 602-611 (2010)
200. Soker, N., Rahin, R., Behar, E., & Kastner, J. H. "Comparing Shocks in Planetary Nebulae with the Solar Wind Termination Shock", Astrophysical Journal **725**, 1910-1917 (2010)
201. Kashi, A. & Soker, N., "The Outcome of the Protoplanetary Disk of Very Massive Stars", New Astronomy, **16**, 27-32 (2011)
202. Bear, E. & Soker, N. "Connecting Planets Around Horizontal Branch Stars with Known Exoplanets", Monthly Notices of the Royal Astronomical Society, **411**, 1792-1802 (2011)
203. Soker, N. & Meiron, Y. "Correlation of Black Hole Bulge Masses: Driven by Energy but Correlated with Momentum", Monthly Notices of the Royal Astronomical Society, **411**, 1803-1808 (2011)
204. De Marco, O. & Soker, N. "The role of planets in shaping planetary nebulae", Publications of the Astronomical Society of the Pacific, **902**, 402-411 (2011)
205. Bear, E., Soker, N. & Harpaz, A. "Possible Implications of the Planet Orbiting the Red Horizontal Branch Star HIP 13044", Astrophysical Journal Letters, **733**, L44 (2011)
206. Kashi, A., Soker, N. & Akashi, M., "Explaining the Transient Fast Blue Absorption Lines in the Massive Binary System Eta Carinae", Monthly Notices of the Royal Astronomical Society, **413**, 2658-2664 (2011)
207. Bear, E. & Soker, N. "Evaporation of Jupiter-Like Planets Orbiting Extreme Horizontal Branch Stars", Monthly Notices of the Royal Astronomical Society, **414**, 1788-1792 (2011)
208. Papish, O. & Soker, N. "Exploding Core-Collapse Supernovae with Jittering Jets", Monthly Notices of the Royal Astronomical Society, **416**, 1697-1702 (2011)
209. Bear, E., Kashi, A. & Soker, N. "Mergerburst Transients of Brown Dwarfs with Exoplanets", Monthly Notices of the Royal Astronomical Society, **416**, 1965-1970 (2011)
210. Kashi, A. & Soker, N. "A Circumbinary Disk in the Final Stages of Common Envelope and the Core-Degenerate Scenario for Type Ia Supernovae", Monthly

- Notices of the Royal Astronomical Society, **417**, 1466-1479 (2011)
211. Ilkov, M. & Soker, N. Type Ia Supernovae from Very Long Delayed Explosion of Core-WD merger", Monthly Notices of the Royal Astronomical Society, **419**, 1695-1700 (2012)
  212. Soker, N. & Kashi, A. "Formation of Bipolar Planetary Nebulae by Intermediate-Luminosity Optical Transients", Astrophysical Journal, **746**, 100 (2012)
  213. Bear, E. & Soker, N., "A Tidally Destroyed Massive Planet as the Progenitor of the Two Light Planets Around the sdB Star KIC 05807616", Astrophysical Journal Letters, **749**, L14 (2012)
  214. Papish, O. & Soker, N. "Nucleosynthesis of R-Process Elements by Jittering Jets in Core-Collapse Supernovae", Monthly Notices of the Royal Astronomical Society, **421**, 2763-2768 (2012)
  215. Refaelovich, M. & Soker, N., "Inflating a Chain of X-Ray Deficient Bubbles by a Single Jet Activity Episode", Astrophysical Journal Letters, **755**, L3 (2012)
  216. Soker, N. & Kashi, A. "The Interaction of the Eta Carinae Primary Wind with the Century Old Slow Equatorial Ejecta", New Astronomy, **17**, 616-623 (2012)
  217. Gilkis, A. & Soker, N., "Heating the Intra-Cluster Medium Perpendicular to the Jets Axis", Monthly Notices of the Royal Astronomical Society, **427**, 1482-1489 (2012)
  218. Ilkov, M. & Soker, N. "The Number of Progenitors in the Core – Degenerate Scenario for Type Ia Supernovae", Monthly Notices of the Royal Astronomical Society, **428**, 579-586 (2013)
  219. Soker, N. "Merger by Migration at the Final Phase of Common Envelope Evolution", New Astronomy, **18**, 18–22 (2013)
  220. Akashi, M., Kashi, A. & Soker, N. "Accretion of Dense Clumps in the Periastron Passage of Eta Carinae", New Astronomy, **18**, 23-30 (2013)
  221. Soker, N. & Kashi, A., "Explaining the Supernova Impostor SN 2009ip as Mergerburst", Astrophysical Journal Letters, **764**, L6 (2013)
  222. Tsebrenko, D., Akashi, M., & Soker, N., "Numerical simulations of wind-equatorial gas interaction in Eta Carinae", Monthly Notices of the Royal Astronomical Society, **429**, 294-301 (2013)
  223. Bear, E. & Soker, N., "Transient Outburst Events From Tidally Disrupted Asteroids Near White Dwarfs", New Astronomy, **19**, 56–61 (2013)
  224. Hillel, S. & Soker, N., "Suppressing Hot Gas Accretion to Supermassive Black Holes by Stellar Winds", Monthly Notices of the Royal Astronomical Society, **430**, 1970-1975, (2013)

225. Soker, N., Kashi, A., Garcia-Berro, E., Torres, S., & Camacho, J., "Explaining the Type Ia supernova PTF 11kx with the Core Degenerate Scenario", Monthly Notices of the Royal Astronomical Society, **431**, 1541-1546, (2013)
226. Soker, N. & Mcley, L., "Steady Twin-Jets Orientation: Implications For Their Formation Mechanism", Astrophysical Journal Letters, **772**, L22 (2013)
227. Tsebrenko, D. & Soker, N., "Type Ia Supernovae inside Planetary Nebulae: Shaping by Jets", Monthly Notices of the Royal Astronomical Society, **435**, 320-328, (2013)
228. Tsebrenko, D. & Soker, N., "Accelerating very fast gas in the supernova impostor SN 2009ip with jets from a stellar companion", Astrophysical Journal Letters, **777**, L35 (2013)
229. Akashi, M. & Soker, N., "Impulsive Ejection of Gas in Bipolar Planetary Nebulae", Monthly Notices of the Royal Astronomical Society, **436**, 1961-1967 (2013)
230. Kashi, A., Soker, N., & Moskovitz, N., "Powering the Second 2012 Outburst of SN 2009ip by Repeating Binary Interaction", Monthly Notices of the Royal Astronomical Society, **436**, 2484-2491 (2013)
231. Bear, E. & Soker, N., "Planetary influences on photometric variations of the extreme helium subdwarf KIC10449976", Monthly Notices of the Royal Astronomical Society, **437**, 1400-1403 (2014)
232. Soker, N., Garcia-Berro, E. & Althaus, L. G., "The explosion of Supernova 2011fe in the Frame of the Core-Degenerate Scenario", Monthly Notices of the Royal Astronomical Society, **437**, L66-L70 (2014)
233. Papish, O. & Soker, N., "Exploding Core-Collapse Supernovae by Jets-Driven Feedback Mechanism", Monthly Notices of the Royal Astronomical Society, **438**, 1027-1037 (2014)
234. Sabach, E. & Soker, N., "A pre-explosion optical transient event from a white dwarf merger with a giant supernova progenitor", Monthly Notices of the Royal Astronomical Society, **439**, 954-967 (2014)
235. Gilkis, A. & Soker, N., "Triggering jet-driven explosions of core-collapse supernovae by accretion from convective regions", Monthly Notices of the Royal Astronomical Society, **439**, 4011-4017 (2014)
236. Mcley, L. & Soker, N., "Limits on core-driven ILOT outbursts of asymptotic giant branch stars", Monthly Notices of the Royal Astronomical Society, **440**, 582-587 (2014)
237. Papish, O. & Soker, N., "A Planar Jitternig-Jets Pattern in Core-Collapse Supernova Explosions", Monthly Notices of the Royal Astronomical Society, **443**, 664-670 (2014)

238. Bear, E. & Soker, N., "First versus second generation planet formation in post common envelope binary (PCEB) planetary systems", Monthly Notices of the Royal Astronomical Society, **444**, 1698-1704 (2014)
239. Soker, N., "What sodium absorption lines tell us about type Ia supernovae", Monthly Notices of the Royal Astronomical Society, **444**, L73-L77 (2014)
240. Mcley, L. & Soker, N., "Wave-driven stellar expansion and binary interaction in pre-supernova outbursts", Monthly Notices of the Royal Astronomical Society, **445**, 2492-2499 (2014)
241. Hillel, S. & Soker, N., "Heating Cold Clumps by Jet-inflated Bubbles in Cooling Flow Clusters", Monthly Notices of the Royal Astronomical Society, **445**, 4161-4174 (2014)
242. Soker, N., "Close Stellar binary systems by grazing envelope evolution", Astrophysical Journal, **800**, 114 (2015)
243. Tsebrenko, D. & Soker, N., "The fraction of type Ia supernovae exploding inside planetary nebulae (SNIPs)", Monthly Notices of the Royal Astronomical Society, **447**, 2568-2574 (2015)
244. Levanon, N., Soker, N., & Gracia-Berro, E., "Constraining the double-degenerate scenario for Type Ia supernovae from merger ejected matter", Monthly Notices of the Royal Astronomical Society, **447**, 2803-2809 (2015)
245. Papish, O., Nordhaus, J., & Soker, N., "A call for a paradigm shift from neutrino-driven to jet-driven core-collapse supernova mechanisms", Monthly Notices of the Royal Astronomical Society, **448**, 2362-2367 (2015)
246. Papish, O., Soker, N., & Bukay, I., "Ejecting the envelope of red supergiant stars with jets launched by an inspiraling neutron star", Monthly Notices of the Royal Astronomical Society, **449**, 288-295 (2015)
247. Papish, O., Soker, N., Garcia-Berro, E., & Aznar-Siguan, G., "The response of a helium white dwarf to an exploding type Ia supernova", Monthly Notices of the Royal Astronomical Society, **449**, 942-954 (2015)
248. Gilkis, A. & Soker, N., "Implications of turbulence for jets in core-collapse supernova explosions", Astrophysical Journal, **806**, 28-34 (2015)
249. Sabach, E. & Soker, N., "Binary systems of core collapse supernovae polluting a giant companion", Astrophysical Journal, **806**, 73-78 (2015)
250. Soker, N., "The circumstellar matter of supernova 2014J and the core-degenerate scenario", Monthly Notices of the Royal Astronomical Society, **450**, 1333-1337 (2015)
251. Tsebrenko, D. & Soker, N., "Modeling SNR G1.9+0.3 as a Supernova Inside a Planetary Nebula", Monthly Notices of the Royal Astronomical Society, **450**,

1399-1408 (2015)

252. Sabach, E. & Soker, N., "A formation scenario for the triple pulsar PSR J0337+1715: breaking a binary system inside a common envelope", Monthly Notices of the Royal Astronomical Society, **450**, 1716-1723 (2015)
253. Aznar-Siguan, G., Garcia-Berro, E., Loren-Aguilar, P., Soker, N. & Kashi, A., "Smoothed Particle Hydrodynamics simulations of the core-degenerate scenario for Type Ia supernovae", Monthly Notices of the Royal Astronomical Society, **450**, 2948-2962 (2015)
254. Bear, E. & Soker, N., "Planetary systems and real planetary nebulae from planets destruction near white dwarfs", Monthly Notices of the Royal Astronomical Society, **450**, 4233-4239 (2015)
255. Tsebrenko, D. & Soker, N., "Type Ia supernova remnants: shaping by iron bullets", Monthly Notices of the Royal Astronomical Society, **453**, 166-171 (2015)
256. Akashi, M., Sabach, E., Yogev, O., & Soker, N., "Forming Equatorial Rings Around Dying Stars", Monthly Notices of the Royal Astronomical Society, **453**, 2115-2125, (2015)
257. Soker, N., "Planetary nebula progenitors that swallow binary systems", Monthly Notices of the Royal Astronomical Society, **455**, 1584-1593(2016)
258. Hillel, S. & Soker, N., "Heating the intra-cluster medium by jet-inflated bubbles", Monthly Notices of the Royal Astronomical Society, **455**, 2139-2148 (2016)
259. Garcia-Berro, E., Soker, N., Althaus, L. G., Ribas, I., & Morales, J. C., "Is the central binary system of the planetary nebula Henize 2-428 a Type Ia supernova progenitor?", New Astronomy, **45**, 7 (2016)
260. Schreier, R., & Soker, N., "Launching jets from accretion belts", Research in Astronomy and Astrophysics, **16**, 001 (2016)
261. Kashi, A., & Soker, N., "Operation of the jet feedback mechanism (JFM) in intermediate luminosity optical transients (ILOTs)", Research in Astronomy and Astrophysics, **16**, 14 (2016)
262. Soker, N., Hillel, S., & Sternberg, A., "Rescuing the intracluster medium of NGC 5813", Research in Astronomy and Astrophysics, **16**, 15 (2016)
263. Kashi, A., & Soker, N., "Orbital Parameters for the 250Mo Eta Carinae Binary System", Astrophysical Journal, **825**, 105 (2016)
264. Bear, E. & Soker, N., "Using Intermediate-Luminosity Optical Transients (ILOTs) to reveal extended extra-solar Kuiper belt objects", Research in Astronomy and Astrophysics, **16**, 114 (2016)
265. Shiber, S., Schreier, R., & Soker, N. "Binary interactions with high accretion rates

- onto main sequence stars", (arXiv:1504.04144) Research in Astronomy and Astrophysics, **16**, 117 (2016)
266. Gilkis, A., Soker, N., & Papish, O., "Explaining the most energetic supernovae with an inefficient jet-feedback mechanism", Astrophysical Journal, **826**, 178 (2016)
267. Gilkis, A., & Soker, N., "Angular momentum fluctuations in the convective helium shell of massive stars", Astrophysical Journal, **827**, 40 (2016)
268. Soker, N., "Intermediate luminosity optical transients during the grazing envelope evolution (GEE)", New Astronomy, **47**, 16-18 (2016)
269. Soker, N., "Jets launched at magnetar birth cannot be ignored", New Astronomy, **47**, 88-90 (2016)
270. Ginat, Y. B., Meiron, Y., & Soker, N., "The influence of mergers and ram-pressure stripping on black hole-bulge correlations", Monthly Notices of the Royal Astronomical Society, 461, 3533-3541 (2016)
271. Akashi, M., & Soker, N., "Bipolar rings from jet-inflated bubbles around evolved binary stars", Monthly Notices of the Royal Astronomical Society, **462**, 206-216 (2016)
272. Soker, N. & Kashi, A., "Explaining Two Recent Intermediate Luminosity Optical Transients (ILOTs) by a Binary Interaction and Jets", Monthly Notices of the Royal Astronomical Society, **462**, 217-222 (2016)
273. Soker, N., "The jets feedback mechanism (JFM) in stars, galaxies, and clusters", New Astronomy Reviews, **75**, 1-23 (2016) [Review]
274. Soker, N. & Gilkis, A., "Pre-explosion dynamo in the cores of massive stars", Monthly Notices of the Royal Astronomical Society, **464**, 3249-3255 (2017)
275. Shiber, S., Kashi, A., & Soker, N., "Simulating the onset of grazing envelope evolution of binary stars", Monthly Notices of the Royal Astronomical Society, **465**, L54-L58 (2017)
276. Bear, E. & Soker, N., "Planetary nebulae that cannot be explained by binary systems", Astrophysical Journal Letters, **837**, L10 (2017)
277. Hillel, S. & Soker, N., "Hitomi observations of Perseus support heating by mixing", Monthly Notices of the Royal Astronomical Society Letters, **466**, L39-L42 (2017)
278. Soker, N., "The magnetar model of the superluminous supernova GAIA16apd and the explosion jet feedback mechanism (JFM)", Astrophysical Journal Letters, **839**, L6 (2017)
279. Soker, N., "A jet-driven dynamo (JEDD) from jets-inflated bubbles in cooling

- flows", Monthly Notices of the Royal Astronomical Society, **466**, 4776-4779 (2017)
280. Kashi, A., & Soker, N., "Type II intermediate-luminosity optical transients (ILOTs) ", Monthly Notices of the Royal Astronomical Society, **467** 3299-3305 (2017)
281. Bear, E. & Soker, N., "What planetary nebulae can tell us about jets in core collapse supernovae", Monthly Notices of the Royal Astronomical Society, **468**, 140-146 (2017)
282. Grichener, A., & Soker, N., "Core collapse supernova remnants with ears", Monthly Notices of the Royal Astronomical Society, **468**, 1226-1235 (2017)
283. Kashi, A., & Soker, N., "An intermediate-luminosity-optical-transient (ILOT) model for the young stellar object ASASSN-15qi", Monthly Notices of the Royal Astronomical Society, **468**, 4938-4943 (2017)
284. Hillel, S., & Soker, N., "Gentle heating by mixing in cooling flow clusters", Astrophysical Journal, **845**, 91 (2017)
285. Akashi, M., & Soker, N., "Shaping planetary nebulae with jets in inclined triple stellar systems", Monthly Notices of the Royal Astronomical Society, **469**, 3296-3306 (2017)
286. Levanon, N., & Soker, N., "Early UV emission from disk-originated matter (DOM) in type Ia supernovae in the double-degenerate scenario", Monthly Notices of the Royal Astronomical Society, **470**, 2510-2516 (2017)
287. Soker, N., "Grazing envelope evolution toward Type IIb supernovae", Monthly Notices of the Royal Astronomical Society Letters, **470**, L102-L106 (2017)
288. Soker, N., "The two promising scenarios to explode core collapse supernovae", Research in Astronomy and Astrophysics, **17**, 113 (2017)
289. Hillel, S., Schreier, R., & Soker, N., "An outburst powered by the merging of two stars inside the envelope of a giant", Monthly Notices of the Royal Astronomical Society, **471**, 3456-3464 (2017)
290. Soker, N., "Energizing the last phase of common-envelope removal", Monthly Notices of the Royal Astronomical Society, **471**, 4839-4843 (2017)
291. Soker, N., & Gilkis, A., "Magnetar-powered superluminous supernovae must first be exploded by jets", Astrophysical Journal, **851**, 95 (2017)
292. Bear, E., Grichener, A., & Soker, N., "The imprints of the last jets in core collapse supernovae", Monthly Notices of the Royal Astronomical Society, **472**, 1770-1777 (2017)
293. Sabach, E., Hillel, S., Schreier, R., & Soker, N., "Energy transport by convection in

- the common envelope evolution", Monthly Notices of the Royal Astronomical Society, **472**, 4361-4367 (2017)
294. Sabach, E., & Soker, N., "Accounting for planet-shaped planetary nebulae", Monthly Notices of the Royal Astronomical Society, **473**, 286-294 (2018)
295. Zilberman, N., Gilkis, A., & Soker, N., "The rotational shear in pre-collapse cores of massive stars", Monthly Notices of the Royal Astronomical Society, **474**, 1194-1205 (2018)
296. Bear, E., & Soker, N., "Neutron star natal kick and jets in core collapse supernovae", Astrophysical Journal, **855**, 82 (2018)
297. Soker, N., & Gilkis, A., "Explaining iPTF14hls as a common-envelope jets supernova", Monthly Notices of the Royal Astronomical Society Letters, (2018), **475**, 1198-1202
298. Akashi, M., Bear, E., & Soker, N., "Forming H-shaped and barrel-shaped nebulae with interacting jets", Monthly Notices of the Royal Astronomical Society, **475**, 4794-4808 (2018)
299. Soker, N., "Supernovae Ia in 2017: a long time delay from merger/accretion to explosion", Science China Physics, Mechanics & Astronomy, 61(4), 049502, (2018) [Review]
300. Kashi, A., & Soker, N., "The orientation of Eta Carinae and the powering mechanism of intermediate luminosity optical transients (ILOTs)", Astrophysical Journal, **858**, 117 (2018)
301. Soker, N., "Planets, Planetary Nebulae, and Intermediate Luminosity Optical Transients (ILOTs) ", Galaxies, **6**, 58 (2018)
302. Shiber, S., & Soker, N., "Simulating a binary system that experiences the Grazing Envelope Evolution", Monthly Notices of the Royal Astronomical Society, **477**, 2584-2598 (2018)
303. Abu-Backer, A., Gilkis, A., & Soker, N., "Orbital radius during the grazing envelope evolution", Astrophysical Journal, **861**, 136 (2018)
304. Bear, E., & Soker, N., "Explaining the morphology of supernova remnant (SNR) 1987A with the jittering jets explosion mechanism", Monthly Notices of the Royal Astronomical Society, **478**, 682-691 (2018)
305. Gofman, R.A., Gilkis, A., & Soker, N., "A mixed helium-oxygen layer in some core-collapse supernova progenitors", Monthly Notices of the Royal Astronomical Society, **478**, 703-710 (2018)
306. Hillel, S., & Soker, N., "Uplifted cool gas and heating by mixing in cooling flows", Research in Astronomy and Astrophysics, **18**, 081 (2018)

307. Soker, N., Grichener, A., & Sabach, E., "Radiating the hydrogen recombination energy during common envelope evolution", *Astrophysical Journal Letters*, **863**, L14 (2018)
308. Grichener, A., Sabach, E., & Soker, N., "The limited role of recombination energy in common envelope removal", *Monthly Notices of the Royal Astronomical Society*, **478**, 1818-1824 (2018)
309. Sabach, E., & Soker, N., "The Class of Isolated Stars and Luminous Planetary Nebulae in old stellar populations", *Monthly Notices of the Royal Astronomical Society*, **479**, 2249-2255 (2018)
310. Kashi, A., & Soker, N., "Counteracting tidal circularization with the grazing envelope evolution", *Monthly Notices of the Royal Astronomical Society*, **480**, 3195-3200 (2018)
311. Bear, E., & Soker, N., "Possible white dwarf progenitors of type Ia supernovae", *Monthly Notices of the Royal Astronomical Society*, **480**, 3702-3705 (2018)
312. Canals, P., Torres, S., & Soker, N., "Oxygen-neon rich merger during common envelope evolution", *Monthly Notices of the Royal Astronomical Society*, **480**, 4519-4525 (2018)
313. Akashi, M., & Soker, N., "The formation of 'columns crowns' by jets interacting with a circumstellar dense shell.", *Monthly Notices of the Royal Astronomical Society*, **481**, 2754-2765 (2018)
314. Soker, N., "The requirement for mixing-heating to utilize bubble cosmic rays to heat the intracluster medium", *Monthly Notices of the Royal Astronomical Society*, **482**, 1883-1888 (2019)
315. Danieli, B., & Soker, N., "Pre-supernova outbursts of massive stars in the presence of a neutron star companion", *Monthly Notices of the Royal Astronomical Society*, **482**, 2277-2283 (2019)
316. Gilkis, A., Soker, N., & Kashi, A., "Common envelope jets supernova (CEJSN) impostors resulting from a neutron star companion", *Monthly Notices of the Royal Astronomical Society*, **482**, 4233-4242 (2019)
317. Levanon, N., & Soker, N., "Explaining the early excess emission of the Type Ia supernova 2018oh by the interaction of the ejecta with disk-originated matter (DOM)", *Astrophysical Journal Letters*, **872**, L7 (2019)
318. Soker, N., "Variable jets at the termination of the common envelope evolution", *Monthly Notices of the Royal Astronomical Society*, **483**, 5020-5025 (2019)
319. Soker, N., Grichener, A., & Gilkis, A., "Diversity of common envelope jets supernovae and the fast transient AT2018cow", *Monthly Notices of the Royal Astronomical Society*, **484**, 4927-4979 (2019)

320. Grichener, A., & Soker, N., "The common envelope jet supernova (CEJSN) r-process scenario", *Astrophysical Journal*, **878**, 24 (2019)
321. Peres, I., Sabach, E., & Soker, N., "Storing magnetic fields in pre-collapse cores of massive stars", *Monthly Notices of the Royal Astronomical Society*, **486**, 1652-1657 (2019)
322. Levanon, N., & Soker, N., "Constraining type Ia supernova asymmetry with the gamma ray escape timescale", *Monthly Notices of the Royal Astronomical Society*, **486**, 5528- (2019)
323. Soker, N., "Reviving the stalled shock by jittering jets in core collapse supernovae: jets from the standing accretion shock instability", *Research in Astronomy and Astrophysics* 19, 095 (2019)
324. Segev, R., Sabch, E., & Soker, N., "Intermediate Luminosity Optical Transients (ILOTs) from merging giants", *Astrophysical Journal*, **884**, 58 (2019)
325. Shiber, S., Iaconi, R., De Marco, O., & Soker, N., "Companion-launched jets and their effect on the dynamics of common envelope interaction simulations", *Monthly Notices of the Royal Astronomical Society*, **488**, 5615–5632 (2019)
326. Gofman, R.~A., & Soker, N., "The strongly interacting binary scenarios of the enigmatic supernova iPTF14hls", *Monthly Notices of the Royal Astronomical Society*, **488**, 5854–5861 (2019)
327. Lohev, N., Sabach, E., Gilkis, A., & Soker, N., "Type IIb supernova progenitors by fatal common envelope evolution", *Monthly Notices of the Royal Astronomical Society*, **488**, 9-14 (2019)
328. Soker, N., "The class of supernova progenitors that result from fatal common envelope evolution", *Science China Physics, Mechanics, and Astronomy*, **62**, 119501 (2019)
329. Soker, N., "Common envelope to explosion delay time of type Ia supernovae", *Monthly Notices of the Royal Astronomical Society*, **490**, 2430-2435 (2019)
330. Schreier, R., Hillel, S., & Soker, N., "Inclined jets inside a common envelope of a triple stellar system", *Monthly Notices of the Royal Astronomical Society*, **490**, 4748-2755 (2019)
331. Soker, N., "Supernovae Ia in 2019 (review): A rising demand for spherical explosions", *New Astronomy Reviews*, **87**, 101535 (2019) [Review]
332. Naiman, B. V., Sabach, E., Gilkis, A. & Soker, N., "Type IIb supernovae by the grazing envelope evolution", *Monthly Notices of the Royal Astronomical Society*, **491**, 2736–2746 (2020)
333. Kaplan, N., & Soker, N., "Emission peaks in the light curve of core collapse supernovae by late jets", *Monthly Notices of the Royal Astronomical Society*,

- 492**, 3013–3020 (2020)
334. Hillel, S., Schreier, R., & Soker, N., "A companion star launching jets in the wind acceleration zone of a giant star", *Astrophysical Journal*, **891**, 33 (2020)
335. Soker, N., "Shaping planetary nebulae with jets and the grazing envelope evolution", *Galaxies*, **8**, 26 (2020)
336. Soker, N., "Amplifying magnetic fields of a newly born neutron star by stochastic angular momentum accretion in core collapse supernovae", *Research in Astronomy and Astrophysics*, **20**, 24 (2020)
337. Soker, N., "Efficiently jet-powered radiation in intermediate-luminosity optical transients (ILOTS)", *Astrophysical Journal*, **893**, 20 (2020)
338. Hillel, S., & Soker, N., "Kinematics of filaments in cooling flow clusters and heating by mixing", *Astrophysical Journal*, **896**, 104 (2020)
339. Gofman, R., Gluck, N., & Soker, N., "Enhanced mass-loss rate evolution of stars with  $>18M_{\odot}$  and missing optically-observed type II core-collapse supernovae", **494**, 5230-5238 (2020)
340. Gofman, R., & Soker, N., "Low energy core collapse supernovae in the frame of the jittering jets explosion mechanism", *Monthly Notices of the Royal Astronomical Society*, **494**, 5902-5908 (2020)
341. Kaplan, N., & Soker, N., "Jet-shaped geometrically modified light curves of core collapse supernovae", *Monthly Notices of the Royal Astronomical Society*, **494**, 5909-5916 (2020)
342. Hegazi, A., Bear, E., & Soker, N., "On the role of reduced wind mass-loss rate in enabling exoplanets to shape planetary nebulae ", *Monthly Notices of the Royal Astronomical Society*, **496**, 612-619 (2020)
343. Akashi, M., & Soker, N., "Simulating jets from a neutron star companion hours after a core collapse supernova", *Astrophysical Journal*, **901**, 53 (2020)
344. Shishkin, D., & Soker, N., "Eccentric grazing envelope evolution towards type IIb supernova progenitors", *Monthly Notices of the Royal Astronomical Society*, **497**, 855-864 (2020)
345. Soker, N., "Minutes-delayed jets from a neutron star companion in core collapse supernovae", *Astrophysical Journal*, **902**, 130 (2020)
346. Bear, E., & Soker, N., "Jet-driven AGN feedback in galaxy formation before black hole formation", *New Astronomy*, **81**, 101438 (2020)
347. Soker, N., "A pre-explosion extended effervescent zone above core collapse supernova progenitors", *Astrophysical Journal*, **906**, 1 (2021)

348. Bear, E., & Soker, N., "On rare core collapse supernovae inside planetary nebulae", Monthly Notices of the Royal Astronomical Society, **500**, 2850-2858 (2021)
349. Soker, N., & Kaplan, N., "Modelling light curves of bipolar core collapse supernovae from the equatorial plane", Astrophysical Journal, **907**, 120 (2021)
350. Akashi, M., & Soker, N., "Simulating the inflation of bubbles by late jets in core collapse supernova ejecta", Monthly Notices of the Royal Astronomical Society, **500**, 4053-4063 (2021)
351. Soker, N., "Possible post-kick jets in SN 1987A", New Astronomy, **84**, 101548 (2021)
352. Soker, N., & Kaplan, N., "Explaining recently studied intermediate luminosity optical transients (ILOTs) with jet powering", Research in Astronomy and Astrophysics, **21**, 090 (2021)
353. Akashi, M., & Soker, N., "Shaping 'Ears' in planetary nebulae by early jets", Astrophysical Journal, **913**, 91 (2021)
354. Kashi, A., Principe, D.~A., Soker, N., & Kastner, J.~H., "The X-ray properties of Eta Carinae during its 2020 X-ray minimum", Astrophysical Journal, **914** 47, (2021)
355. Soker, N., "The circumstellar matter of type II intermediate luminosity optical transients (ILOTs)", Research in Astronomy and Astrophysics, **21**, 112 (2021)
356. Merlov, A., Bear, E., & Soker, N., "A red giant branch common envelope evolution scenario for the exoplanet WD~1856~b", Astrophysical Journal Letters, **915**, L34 (2021)
357. Soker, N., "Double common envelope jets supernovae (CEJSNe) by triple-star Systems", Monthly Notices of the Royal Astronomical Society, **504**, 5967–5974 (2021)
358. Soker, N., & Bear, E., "Parasite common envelope evolution by triple-star systems", Monthly Notices of the Royal Astronomical Society, **505**, 4791-4797 (2021)
359. Rapoport, I., Bear, E., & Soker, N., "The future influence of six exoplanets on the envelope properties of their parent stars on the giant branches", Monthly Notices of the Royal Astronomical Society, **506**, 468-472 (2021)
360. Bear, E., & Soker, N., "Rare events of a peculiar thermonuclear supernova that precedes a core collapse supernovae", Monthly Notices of the Royal Astronomical Society, **506**, 919-927 (2021)
361. Soker, N., "Binary neutron star merger in common envelope jets supernovae", Monthly Notices of the Royal Astronomical Society, **506**, 2445-2452 (2021)

362. Bear, E., Merlov, A., Arad, Y., & Soker, N., "Rapid expansion of red giant stars during core helium flash by waves propagation to the envelope and implications to exoplanets", Monthly Notices of the Royal Astronomical Society, **507**, 414-420 (2021)
363. Grichener, A., & Soker, N., "Common envelope jets supernovae with a black hole companion as possible high energy neutrino sources", Monthly Notices of the Royal Astronomical Society, **507**, 1651-1661 (2021)
364. Grichener, A., Cohen, C. & Soker, N., "Simulating the negative jet feedback mechanism in common envelope jets supernovae", Astrophysical Journal, **922**, 61 (2021)
365. Shishkin, D., & Soker, N., "Supplying angular momentum to the jittering jets explosion mechanism using inner convection layers" Monthly Notices of the Royal Astronomical Society Letters, **508**, L43-L47 (2021)
366. Akashi, M., & Soker, N., "Simulating the outcome of a binary neutron star merger in a common envelope jets supernova", Astrophysical Journal, **923**, 55 (2021)
367. Schreier, R., Hillel, S., Shiber, S., & Soker, N., "Simulating highly-eccentric common envelope jets supernova (CEJSN) impostors", Monthly Notices of the Royal Astronomical Society, **508**, 2386-2398 (2021)
368. Soker, N., "Astrophysical Naturalness", Frontiers in Astronomy and Space Sciences, **8**, 240 (2022)
369. Soker, N., "Spin-orbit misalignment from triple-star common envelope evolution", Monthly Notices of the Royal Astronomical Society, **509**, 2836-2841 (2022)
370. Grichener, A., Kobayashi, C. & Soker, N., "Common envelope jets supernova r-process yields can reproduce [Eu/Fe] abundance evolution in the Galaxy", Astrophysical Journal Letters, **926**, L9 (2022)
371. Braudo, J., Bear, E., & Soker, N., "Accretion induced merger leading to core collapse supernovae in old stellar populations", Monthly Notices of the Royal Astronomical Society Letters, **510**, 4242-4248 (2022)
372. Gurevich, O., Bear, E., & Soker, N., "Faint intermediate luminosity optical transients (ILOTs) from engulfing exoplanets on the Hertzsprung gap", Monthly Notices of the Royal Astronomical Society, **511**, 1330-1335 (2022)
373. Soker, N., "Imprints of the jittering jets explosion mechanism in the morphology of the supernova remnant SNR 0540-69.3", Research in Astronomy and Astrophysics, **22**, 035019 (2022)
374. Soker, N., "Common envelope to explosion delay time distribution (CEEDTD) of type Ia supernovae", Research in Astronomy and Astrophysics, **22**, 035025 (2022)

375. Soker, N., Bublitz, J., & Kastner, J.-H., "A twin-jet structure rather than jet-rotation in the young stellar object OMC 2/FIR 6b", *Astrophysical Journal*, **928**, 159 (2022)
376. Akashi, M. & Soker, N., " Postexplosion positive jet-feedback activity in inner ejecta of core collapse supernovae", *Astrophysical Journal*, **930**, 59 (2022)
377. Soker, N., "A common envelope jets supernova (CEJSN) impostor scenario for fast blue optical transients", *Research in Astronomy and Astrophysics*, **22**, 055010 (2022)
378. Bear, E., Soker, N., & Kashi, A., "A rapidly fading star as a type II obscuring intermediate luminosity optical transient (ILOT) in a triple star system", *Astrophysical Journal*, **934**, 60 (2022)
379. Shishkin, D., & Soker, N., "Remnant masses of core collapse supernovae in the jittering jets explosion mechanism", *Monthly Notices of the Royal Astronomical Society*, **513**, 4224-4231 (2022)
380. Soker, N., "Powering luminous core collapse supernovae with jets", *Astrophysical Journal*, **935**, 108 (2022)
381. Hillel, S., Schreier, R., & Soker, N., "Three-dimensional simulations of the jet feedback mechanism in common envelope jets supernovae", *Monthly Notices of the Royal Astronomical Society*, **514**, 3212-3221 (2022)
382. Soker, N., "Boosting jittering jets by neutrino heating in core collapse supernovae", *Research in Astronomy and Astrophysics*, **22**, 095007 (2022)
383. Soker, N., "Pre-explosion helium shell flash in type Ia supernovae", *Research in Astronomy and Astrophysics*, **22**, 095009 (2022)
384. Soker, N., "Jittering jets by negative angular momentum feedback in cooling flows", *Universe*, **8**, 483 (2022)
385. Fainer, S., Bear, E., & Soker, N., "Onset of common envelope evolution during a core helium flash by rapid envelope expansion", *Monthly Notices of the Royal Astronomical Society*, **515**, 5400-5406 (2022)
386. Ragoler, N., Bear, E., Schreier, R., Hillel, S., & Soker, N., "The response of a red supergiant to a common envelope jets superonva (CEJSN) impostor event", *Monthly Notices of the Royal Astronomical Society*, **515**, 5473-5478 (2022)
387. Hober, O., Bear, E., & Soker, N., "Feeding post core collapse supernova explosion jets with an inflated main sequence companion", *Monthly Notices of the Royal Astronomical Society*, **516**, 1846-1854 (2022)
388. Soker, N., "Pre-explosion, explosion, and post-explosion jets in supernova SN 2019zrk", *Monthly Notices of the Royal Astronomical Society*, **516**, 4942-4948 (2022)

389. Soker, N., "The role of jets in exploding supernovae and in shaping their remnants", Research in Astronomy and Astrophysics, **22**, 122003 (2022)
390. Akashi, M., Michaelis, A., & Soker, N., "Rapid decline in the lightcurves of luminous supernovae by jet-driven bipolar explosions", Monthly Notices of the Royal Astronomical Society, **518**, 6123-6131 (2023)
391. Schreier, R., Hillel, S., & Soker, N., "Simulating the deposition of angular momentum by jets in common envelope evolution", Monthly Notices of the Royal Astronomical Society, **520**, 4182-4193 (2023)
392. Soker, N., "Implications of post-kick jets in core collapse supernovae", Monthly Notices of the Royal Astronomical Society, **520**, 4404-4409 (2023)
393. Soker, N., & Bear, E., "The core degenerate scenario for the type Ia supernova SN 2020eyj", Monthly Notices of the Royal Astronomical Society, **521**, 4561-4567 (2023)
394. Shishkin, D., & Soker, N., "The implications of large binding energies of massive stripped core collapse supernova progenitors on the explosion mechanism" Monthly Notices of the Royal Astronomical Society, **522**, 438-445 (2023)
395. Cohen, T., & Soker, N., "Terminating a common envelope jets supernova impostor event with a super-Eddington blue supergiant", Monthly Notices of the Royal Astronomical Society, **522**, 885-890 (2023)
396. Cohen, T., & Soker, N., "The depletion of the red supergiant envelope radiative zone during common envelope evolution", Research in Astronomy and Astrophysics, **23**, 065023 (2023)
397. Grichener, A., & Soker, N., "Common envelope jets supernova with thermonuclear outburst progenitor for the enigmatic supernova remnant W49B", Monthly Notices of the Royal Astronomical Society, **523**, 6041-6047 (2023)
398. Soker, N., "Bright common envelope formation requires jets", The Open Journal of Astrophysics, **6**, 32 (2023)
399. Soker, N., "A pre-explosion effervescent zone for the circumstellar material in SN 2023ixf", Research in Astronomy and Astrophysics Letters, **23**, 081002 (2023)
400. Dori, N., Bear, E., & Soker, N., "Wobbling jets in common envelope evolution", Astrophysical Journal, **954**, 143 (2023)
401. Hillel, S., Schreier, R., & Soker, N., "Jet-powered turbulence in common envelope evolution", Astrophysical Journal, **955**, 7 (2023)

402. Soker, N., "On the nature of the planet-powered transient event ZTF SLRN-2020", Monthly Notices of the Royal Astronomical Society Letters, **524**, L94-L97 (2023)
403. Soker, N., "On the nature of jets from a main sequence companion at the onset of common envelope evolution", Research in Astronomy and Astrophysics, **23**, 095002 (2023)
404. Soker, N., "The neutron star to black hole mass gap in the frame of the jittering jets explosion mechanism (JJEM)", Research in Astronomy and Astrophysics, **23**, 095020 (2023)

### **IN PRESS**

405. Soker, N., "Classifying core collapse supernova remnants by their morphology as shaped by the last exploding jets", Research in Astronomy and Astrophysics, (2023)

### **SUBMITTED**

406. Soker, N., "Predicting gravitational waves from jittering-jets-driven core collapse supernovae", Research in Astronomy and Astrophysics, (2023)
407. Soker, N., "Hints of point-symmetric structures in SN 1987A: the jittering jets explosion mechanism", Research in Astronomy and Astrophysics Letters, (2023)
408. Soker, N., "Point-symmetry in SNR G1.9+0.3: A supernova that destroyed its planetary nebula progenitor", The Open Journal of Astrophysics (2023)
409. Ablimit, I., & Soker, N., "The evolutionary route to form planetary nebulae with central neutron star – white dwarf binary systems", Monthly Notices of the Royal Astronomical Society

### **Other reviews**

1. Soker, N., Akashi, M., Gilkis, A., Hillel, S., Papish, O., & Refaelovich, M., Tsebrenko, D., "The jet feedback mechanism (JFM): from supernovae to clusters of galaxies", Astronomische Nachrichten (2013)

### **Papers with many authors (My contribution is < 10%)**

1. Kastner, J. H., Montez, R., Jr., Balick, B., et al. (total of 26 authors), "The Chandra X-ray Survey of Planetary Nebulae (ChanPlaNS): Probing Binarity, Magnetic Fields, and Wind Collisions", Astrophysical Journal, **144**, 58 (2012)

2. Ivanova, N., Justham, S., Chen, X., et al. (total of 19 authors), "Common Envelope Evolution: Where we stand and how we can move forward", The Astronomy and Astrophysics Review, **21**, 59 (2013) [Review]
3. Freeman, M., Kastner, J. H., Montez, R., et al. (total of 27 authors), "The Chandra Planetary Nebula Survey (ChanPlaNS). II. X-ray Emission from Compact Planetary Nebulae", Astrophysical Journal, **794**, 99 (2014)
4. Montez, R., Jr., Kastner, J. H., Balick, B., et al. (total of 28 authors), "The Chandra Planetary Nebula Survey (ChanPlaNS). III. X-Ray Emission from the Central Stars of Planetary Nebulae", Astrophysical Journal, **800**, 8 (2015)
5. De Marco, O. et al. "The messy death of a multiple star system and the resulting planetary nebula as observed by JWST", Nature Astronomy, **6**, 1421 (2022)

### **Research notes**

1. Soker, N., "Jittering jets in cooling flow clusters", Research Notes of the American Astronomical Society, **2**, 48, (2018).
2. Soker, N., "Evaporating planets in type Ia supernovae", Research Notes of the American Astronomical Society, **3**, 153 (2019).
3. Grichener, A., & Soker, N., "The Implications of Ultra-Faint Dwarf Galaxy Reticulum II on the Common Envelope Jets Supernova  $r$ -process Scenario", Research Notes of the American Astronomical Society, **6**, 263, (2022).

### **Papers on astro-ph (electronic archive) only**

1. Soker, N. and Harpaz, A., "Stellar structure and mass loss during the early post asymptotic giant branch" (astro-ph/0210586) (2002)
2. Behar, E., Nordon, R., Ben-Basat, E., & Soker, N. "A hot transient jet from Eta Carinae", (astro-ph/0606251) (2006)
3. Soker, N, "Bubbles in Planetary Nebulae and Clusters of Galaxies: Precessing Jets", (astro-ph/0608554) (2006)
4. Soker, N. "Further Indications Against Jet Rotation in Young Stellar Objects", (astro-ph/0703474) (2007)
5. Soker, N. & Vrtilik, S. D. Interpreting a Dwarf Nova Eruption as Magnetic Flare", (arXiv:0904.0681) (2009)

6. Akashi, M., & Soker, N. "3D Numerical Simulations of Mass Accretion in the Eta Carinae Binary system", (arXiv:1006.3333) (2010)
7. Soker, N. "Magnetic Fields in Cooling Flow Clusters: A Critical View", (arXiv:1007.2249) (2010)
8. Pizzolato, F., Kelly, T., & Soker, N. "Correlation of AGN Jet Power with the Entropy Profile in Cooling Flow Clusters", (arXiv:1007.3512) (2010)
9. Lahav, C. G., Meiron, Y. & Soker, N., "The Limited Role of Mergers in Determining the Correlation between Black Hole and Bulge Masses", ( arXiv:1112.0782) (2012)
10. Soker, N., "A Binary Scenario for the Pre-Explosion Outburst of the Supernovae 2010mc", (arXiv:1302.5037) (2013)
11. Soker, N., "Final common envelope ejection by migration and jets", (arXiv:1404.5234) (2014)
12. Papish, O., Gilkis, A., & Soker, N., "Jittering-jets explosion triggered by the standing accretion shock instability", (arXiv:1508.00218) (2016)
13. Soker, N., "Reviving the stalled shock by jittering jets in core collapse supernovae: The key role of magnetic fields", (arXiv:1805.03447) (2018)
14. Soker, N., "Possible indications for jittering jets in core collapse supernova explosion simulations", (arXiv:1907.13312) (2019)
15. Grichener, A., & Soker, N., "Towards a paradigm change in the main heavy r-process nucleosynthesis sites", (arXiv:1909.06328) (2019)
16. Soker, N., & Hillel, S., "Comment on "A snapshot of the oldest AGN feedback phases"", (arXiv:2110.10608) (2021)