Dr. Bin Chen: Curriculum Vitae

Department of Physics

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Education

University of Virginia	Charlottesville, VA	Astronomy	Ph.D.	08/2013
Dissertation: "Radio and X-r	ay Diagnostics of Ene	rgy Release in Sol	ar Flares", Adviso	r: Tim Bastian
Univ. of Chinese Academy of Sc.	Beijing, China	Astrophysics	M.S.	08/2008
Peking University	Beijing, China	Physics	B.S.	08/2005

Appointments

Full Professor	New Jersey Institute of Technology	08/2024-present
Associate Professor	New Jersey Institute of Technology	08/2019-08/2024 (tenure 2021)
Assistant Professor	New Jersey Institute of Technology	01/2016-08/2019
Astrophysicist	Center for Astrophysics Harvard & Smithsonian	08/2014-12/2015
Jack Eddy Postdoc Fellow	UCAR/NJIT	08/2013-07/2014

Honors & Awards

Karen Harvey Prize, Solar Physics Division, American Astronomical Society Research Advisor of the Year, Albert Dorman Honors College, New Jersey Institute of Technology		
		CSLA Rising Star Research Award, New Jersey Institute of Technology
An award given annually by NJIT's College of Science and Liberal Arts (CSLA) in recognition of a pre-tenure faculty member's outstanding scholarly work		
Faculty Early Career Development (CAREER) Award, National Science Foundation	2017	
Jack Eddy Postdoctoral Fellowship, NASA/UCAR		
Competitive Postdoctoral fellowship by NASA's Living-with-a-Star program and UCAR		
Liu Yong Ling Scholarship, University of Chinese Academy of Sciences	2008	
A scholarship of the University to recognize outstanding graduate students		

Professional Service

National Committees, Panels, and Boards

Member, Solar & Heliosphere Panel, NASEM Solar & Space Physics Decadal Survey 10/2022–present The Panel on the Physics of the Sun and Heliosphere is charged to provide an overview of the current state of solar and heliospheric research and identify the highest priority science goals for 2024–2033.

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Committee member, Solar Physics Division of American Astronomical Society	2019-2021
The Committee is charged to oversee general affairs of the Division; BC led the effort of co	m-
piling a List of Solar Physics Graduate Programs and made it available to community at SPD website. He also organized the inaugural SPD Graduate Opportunity Fair in 2020.	the
Board member, SunPy	2019-2022
The Board is charged to lead the overall structure and direction of SunPy	
Meeting Organization	
SOC member, SPHERE Workshop	2023
SOC member, Solar & Space Physics Decadal Workshop: Ground-Based Projects	2022
SOC member, FASR 2021 Workshop	2021
SOC member, SolFER 2021 Conference	2021
Session Convener, Asia Oceania Geosciences Society	2021
"Coronal Magnetic Field Measurements Through Multi-wavelength Observations"	
Session Convener, American Geophysical Union Fall Meeting	2020
"Plasma Energization, Particle Acceleration, and High-energy Emission in Solar Flares"	
Working group (co-)leader, Solar Physics High Energy Research (SPHERE) Workshop	2022
"Unified 'systems science'" topical session	
Working group (co-)leader, for three (3) RHESSI Workshops 20	15, 2017, 2019
"Radio and X-ray Flares" working group	
Session convener, for two (2) SHINE Conferences	2018, 2019
"Global implications of kinetic-scale particle acceleration throughout the heliosphere"	
Session Convener, Triennial Earth-Sun Summit (TESS)	2018
"Late-Phase Solar Activity in September 2017"	
Peer Review Activities	
Panelist, NRAO Science Review Panel	2020-2022
Panelist, for [3] NASA grant panels and [1] NSF grant panel	Since 2015
Mail-in Reviewer, for [6] grant proposals submitted to NASA or NSF funding programs	Since 2015
Panelist, NASA NPP Postdoc Fellowship proposals	2017
Mail-in reviewer, for [3] NASA NPP Postdoc Fellowship proposals	Since 2016
Poster Judge, SHINE conference, AAS/SPD meeting, and APS meeting	Since 2016
Referee, 28 papers for 11 journals	
Nature Astronomy [1], Astrophysical Journal [9], Astrophysical Journal Letters [4], Astrono	my
& Astrophysics [3], Solar Physics [4], Advances in Space Research [1], Publ. Astron. Soc. A	
tralia [1], New Astronomy [2], J. Space Weather. Space Clim. [1], Research in Astronomy	ල
Astrophysics [1], Progress in Astronomy (天文学进展) [1]	

Journal Editing

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For topical issue on "Solar and Space Weather Radio Physics"

University & Departmental Service

Director, Applied Physics Graduate Program, NJIT	2020-present
Committee Member, Applied Physics Graduate Program, NJIT	2016-present
Member, Research Vision Subcommittee for NJIT 2025 Strategic Plan	2019-2020
Member, Search committee for a faculty position in material sciences	Fall 2018
Member, Advisory Board Committee on Research Cyberinfrastructure	2018-present

Awarded Grants

As Principal Investigator	
PI, NASA Living with a Star Science	2024-2028
"Evolution of Magnetic Field and Nonthermal Electrons of CMEs and CME-Driven Shocks from Low to Middle Corona"	
PI, NSF Division of Atmospheric and Geospace Sciences	2023-2026
"MRI: Track 2 Development of EOVSA-15: Major Upgrade of a Community Facility for Solar and Space Weather Physics"	
PI, NSF Division of Atmospheric and Geospace Sciences (SHINE)	2023-2026
"Collaborative Research: Where are particles accelerated in coronal jets?" (lead of collaborative proposals: P. Kumar/NASA-GSFC)	
PI, NSF Division of Astronomical Sciences	2021-2024
"Collaborative Research: Achieving a New Understanding of Solar Flare Termination Shocks" (lead of collaborative proposals: G. Fan/LANL)	
PI, NASA Heliophysics Supporting Research	2020-2023
"Exploring Energy Release and Conversion in Solar Eruptive Events Using Multi-wavelength Observations and Numerical Simulations"	
PI, NSF Division of Atmospheric and Geospace Sciences (CAREER)	2017-2023
"Probing Energy Release in Solar Explosive Events with New Generation Radio Telescopes"	
PI, NSF Division of Atmospheric and Geospace Sciences (SHINE)	2017-2020
"Collaborative Research: Magnetic Energy Release During Solar Eruptions: From Large and Small Scales" (lead of collaborative proposals: K. Reeves/SAO)	
PI, NSF Division of Astronomical Sciences	2017-2020
"Collaborative Research: Electron Acceleration and Emissions from the Solar Flare Termination Shock" (lead of collaborative proposals: G. Fan/LANL)	
PI, NASA Heliophysics Guest Investigator	2016-2019

Page 3 of 18 August 19, 2024 "Particle Energization in Solar Flares: Combing Observations from a Suite of NASA Missions with the Jansky Very Large Array"

As Co-Investigator

Co-I, NASA Solar Orbiter Guest Investigator	07/2024-06/2027
"Electron Acceleration and Transport in Solar Transient Events: A Joint Remote-Sensing and In Situ Study"	(PI: S. Yu/NJIT)
Co-PI, NSF Geosciences	2023-2025
"GEO OSE Track 1: SUNCAST: Software Unified Collaboration for Advancing Solar Tomography" (PI: G. Nita/NJIT)	
Co-I, NASA Living with a Star Science	2023-2027
"Behind F10.7: Understanding the Physical Origin Of Solar F10.7 Index With Microwave Imaging Spectroscopy" (PI: S. Yu/NJIT)	
Co-PI, NSF Division of Astronomical Sciences	2021-2024
"The Expanded Owens Valley Solar Array as a Community Facility" (PI: D. Gary/NJIT)	
Co-PI, NSF Division of Astronomical Sciences	2021-2024
"REU Site: Solar, Terrestrial, and Space Weather Sciences at New Jersey Institute of Technology" (PI: H. Kim/NJIT)	
Co-I (Institutional PI), NASA HSO Connect	2020-2023
"Energetics of solar eruptions from the chromosphere to the inner heliosphere" (PI: K. Reeves/SAO)	
Co-I, NASA HSO Connect	2020-2023
"Study of Small Scale Magnetic Reconnection and Energy Release in the Source Regions of Solar Wind" (PI: H. Wang/NJIT)	
Co-I, NASA Heliophysics DRIVE Science Center Phase I	2020-2022
"Solar Flare Energy Release" (PI: J. Drake/UMD)	
Co-I, NASA HSO Data Support	2019-2024
"Microwave Imaging Spectroscopy Support for Parker Solar Probe" (PI: D. Gary/NJIT)	
Co-PI, NSF Division of Astronomical Sciences	2019-2021
"Microwave Imaging Spectropolarimetry of the Sun and Solar Activity" (PI: D. Gary/NJIT)	

Instrumentation Projects and Science Center Activities

Ground-based Facilities

Expanded Owens Valley Solar Array (EOVSA)

2016-present

Co-PI; co-lead (with PI D. Gary) instrument commissioning, calibration, software development, and science investigation.

Karl G. Jansky Very Large Array (JVLA)

2011-present

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Commissioned the solar observing mode of JVLA as part of his Ph.D. thesis project (advised by T. Bastian). PI or Co-I on >10 JVLA solar observing programs through a competitive selection process.

Atacama Large (sub)Millimeter Array (ALMA)

2014-present

Member of the ALMA solar development team. PI or Co-I on four (4) solar observing programs through a competitive selection process.

Frequency Agile Solar Radiotelescope (FASR)

2015-present

FASR is a next-generation solar radio telescope concept that has been highly recommended by multiple decadal survey reports. Co-PI on a pre-proposal submitted to NSF for design and implementation in 2019 (not selected). Author or co-author on 19 FASR-related white papers submitted to the 2020 Astronomy & Astrophysics Decadal Survey and 2024 Solar & Space Physics Decadal Survey.

Spacecraft Missions

Physics of Energetic and Non-thermal plasmas in the X region (PhoENiX)

2019-present

Collaborator, science team member. PhoENiX (PI: N. Narukage) is a mid-class (\$150M) spacecraft mission concept to study X-rays from solar flares. Concept study and proposal development are underway.

The Focusing Optics X-ray Solar Imager (FOXSI)

2017-2019

Collaborator, science team member. FOXSI (PI: S. Christe) is a solar hard X-ray mission concept proposed to NASA as a Heliophysics Small Explorer (SMEX) mission. It was selected for Phase A concept study, but not selected as a full mission.

COronal Spectrographic Imager in the Extreme ultraviolet (COSIE)

2018-2019

Co-I, science team member. COSIE (PI: L. Golub) is a wide-field solar EUV spectrographic imager concept proposed to NASA as a Mission of Opportunity Small Complete Mission. Selected for technical development in 2017, but not selected as a full mission.

Heliophysics Radio Observer (HeRO)

2016-2017

Co-I, science team member. HeRO (PI: D. Gary) is a space-based radio interferometer proposed to NASA for concept study as a Mission of Opportunity Small Complete Mission (not selected).

NASA Heliophysics DRIVE Science Center

Solar Flare Energy Release (SolFER)

03/2020-04/2022

Co-I, leading a working group with Fan Guo on "electron energization in solar flares." SOC member for the SolFER 2021 Conference. SolFER (PI: J. Drake) is a NASA Heliophysics DRIVE Science Center funded for Phase I study.

Mentorship

Research Scientists

Dr. Sijie Yu	NJIT	Mentor	08/2020-present	
Current Postdoctoral Researchers				
Dr. Peijin Zhang	UCAR	Host Scientist (Jack Eddy Fellow)	11/2023-present	
Dr. Xingyao Chen	NJIT	Advisor (co-advisor D. Gary)	07/2023-present	

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Dr. Yuqian Wei	NJIT	Advisor	11/2023–present	
Dr. Surajit Mondal	NJIT	Advisor	10/2021-present	
Current Ph.D. Students			_	
Anastasia Kuske	NJIT	Primary Advisor (co-advisor G. Nita)	08/2021-present	
Ivan Oparin	NJIT	Primary Advisor (co-advisor G. Fleishman)	08/2021-present	
Meiqi Wang	NJIT	Primary Advisor	08/2019-present	
Brian O'Donnell	NJIT	Thesis Committee Member	12/2022-present	
Past Postdoctoral Researc	hers			
Dr. Sijie Yu	NJIT	Advisor	06/2016-08/2020	
Dr. Yu joined NJIT	/CSTR as a resea	arch scientist in 2020.		
Past Ph.D. Students				
Dr. Yuqian Wei	NJIT	Primary Advisor (co-advisor H. Wang)	08/2017-05/2023	
Dr. Wei obtained hi	s PhD in 2023. F	Ie is now a Postdoc at NJIT.		
Dr. Yingjie Luo	NJIT	Primary Advisor	08/2016-08/2022	
Dr. Luo obtained hi	is PhD in 2022. I	He is now a Postdoc at University of Glasgow.		
Dr. Zhitao Wang	NJIT	Co-advisor (Primary Advisor D. Gary)	11/2014-08/2017	
Dr. Wang obtained	his PhD in 2017.	He is now a Big Data Engineer at HSBC.		
Matthew Cooper	NJIT	Thesis Committee Member	09/2019-05/2023	
Dr. Cooper obtaine	d his PhD in 202	23. He is now a research scientist at NJIT/CSTF	L.	
Dr. Yi Chai	NJIT	Thesis Committee Member	07/2018-05/2022	
Dr. Chai obtained his PhD in 2023. He is now a postdoc fellow at Czech Academy of Sciences.				
Dr. Shaheda Shaik	NJIT	Thesis Committee Member	04/2016-08/2021	
Dr. Shaik obtained l	her PhD in 2021.	She is now a postdoc fellow at Naval Research	Lab.	
Dr. Sherry Chhabra	NJIT	Thesis Committee Member	09/2017-05/2021	
Dr. Chhabra obtain	ed her PhD in 20	021. She is now a postdoc fellow at Naval Resear	ch Lab.	
Dr. Viacheslav Sadykov	NJIT	Thesis Committee Member	01/2017-08/2019	
Dr. Sadykov Obtain	ed his PhD in 20	19. He is now a tenure-track Assistant Professor	at Geor-	
gia State University.				
Current Undergraduate S	Students			
Sabastian Fernandes	NJIT	Research Mentor	05/2021-present	
Mallory Wickline	PSU	NJIT/ISWS REU Mentor	Summer 2023	
Past Undergraduate Stude	ents			
Tyler Ford	Illinois IT	NJIT/ISWS REU Mentor	Summer 2022	
Samantha Lomuscio	NJIT	Research Mentor	10/2017-05/2020	
Samantha was awarded the prestigious Barry M. Goldwater Scholarship in 2019.				
Jordan Smith	NJIT	Research Mentor	08/2020-12/2020	

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Sylwia Janiak	NJIT	Research Mentor	10/2016-08/2019
Marchello Caruso	NJIT	Research Mentor	04/2018-11/2018
Alexander Rodriguez	NJIT	Research Mentor	Summer 2018, 2019
Lindsey Gray	Ramapo Col.	NJSGC REU Mentor	Summer 2016
Michael Prijatelj	CMU	SAO Solar REU Mentor	Summer 2015
High School Students			
Rahul Harikrishnan	Montgomery	Research Mentor	Summer 2018
Chris Stone	High Tech	Research Mentor	Summer 2017
Daniel Vesecky	Milburn	Research Mentor	Summer 2017
Tim Kouzmenkov	Fair Lawn	Research Mentor	Summer 2016, 2017

Teaching

Phys 728 – Radio Astronomy	NJIT	S2022
Phys III – Mechanics	NJIT	F2016, F2017, F2018, F2019
Phys 320 – Astronomy and Astrophysics I	NJIT	F2020, F2021
Phys 321 – Astronomy and Astrophysics II	NJIT	S2018-S2023, F2024
Phys 780 – Solar Flares and CMEs	NJIT/COLLAGE	S2017
ASTR 3480 – Introduction to Cosmology	Univ. of Virginia	Summer 2012

Invited Talks

Invited Conference Presentations

[25] Session "Addressing your SHINE Science Questions with Radio Data," SHINE 2024 Confer- 08/2024	1
ence, Juneau, AK	

"Addressing your SHINE Science Questions with Radio Data Scene-Setting Talk"

- [24] Session "Beyond the Standard Flare Model," SHINE 2024 Conference, Juneau, AK
 "Beyond the Standard Flare Model Scene-Setting Talk"
- [23] Special Session "Space Weather on Other Worlds," AAS 243rd Meeting, New Orleans, LA

 "Space Weather Environment Around Stars: Insights from Spatially Resolved Radio Observations of the Sun"
- [22] Invited plenary prize talk, AAS Solar Physics Division Meeting, Minneapolis, MN 08/2023 "Solar Flare Energy Release: Where Are We and What Is Next?"
- [21] Invited plenary prize talk, American Astronomical Society Meeting, Albuquerque, NM 06/2023 "Solar Flares: A Laboratory for Studying Magnetic Energy Release and Particle Acceleration"
- [20] Mini-Conference on Magnetic Reconnection, APS/DPP Annual Meeting, Spokane, WA

 "Radio Diagnostics of Reconnection-Driven Particle Energization in Solar Flares: Recent Progress and Future Outlook"
- [19] IAU Symposium 372 "The Era of Multi-messenger Solar Physics", Busan, South Korea 08/2022

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"Recent Results of Solar Microwave Imaging Spectroscopy"	
[18] Magnetic Reconnection Workshop 2022, Monterey, California	05/2022
"Probing Energetic Electrons Accelerated by Solar Flares"	
[17] National Radio Science Meeting/URSI Conference, Boulder, CO	01/2022
"Science Highlights from the Expanded Owens Valley Solar Array"	
[16] American Geophysical Union Fall Meeting, New Orleans, LA	12/2021
"Evidence for Energetic Electrons Trapped and Accelerated in a Magnetic Bottle above a Solar Flare Arcade"	
[15] American Geophysical Union Fall Meeting, New Orleans, LA	12/2021
"Radio Studies of the Middle Corona: Current State and Future Outlook"	
[14] FASR 2021 Workshop: Solar Physics with a Next Generation Solar Radio Facility, Online	12/2021
"Microwave Studies of Solar Flare Energy Release: Outlook for FASR"	
[13] Kavli IPMU Workshop on particle acceleration, Online	11/2021
"Magnetic Reconnection and Electron Acceleration: Recent Insights from Microwave Observations of Solar Flares"	
[12] Plenary Talk, 20 th RHESSI Workshop, Online	07/2021
"EOVSA Updates: Science Highlights and Future Outlook"	
[11] Plenary Talk, Max-Planck-Princeton Center for Fusion and Astro-Plasma Physics Workshop	01/2021
"Probing Magnetic Reconnection in Solar Flares with Radio Spectral Imaging"	
[10] Mini-Conference on Magnetic Reconnection, APS Division of Plasma Physics Meeting	11/2020
"Probing Magnetic Reconnection in Solar Flares with Radio Spectral Imaging"	
[9] SolFER Conference	04/2020
"Onset of Flare Energy Release: Observations"	
[8] American Geophysical Union Fall Meeting, San Francisco, CA	12/2019
"Recent Advances in Radio Imaging Spectroscopy for Studying High-Energy Processes on the Sun"	
[7] American Geophysical Union Fall Meeting	12/2018
"Radio Dynamic Spectroscopic Imaging: A Powerful New Tool for Studying Electron Acceleration and Transport in Solar Flares"	
[6] Radio Stars Workshop, MIT Haystack Observatory	11/2017
"Solar Radio Emission at High Frequencies"	
[5] Joint Hinode-11/IRIS-8 Science Meeting, Seattle, WA	05/2017
"Recent Results from Coordinated VLA and Hinode/IRIS Observations"	
[4] SHINE Conference, Santa Fe, NM	07/2016
Scene-setting talk for session "Particle Acceleration and Wave Generation Across Scales: From Reconnection to Shocks"	
[3] SunDC Workshop, NASA Goddard Space Flight Center	05/2016

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"Solar Flare Studies in the New Era of Radio Imaging Spectroscopy"	
[2] 15 th Annual International Astrophysics Conference	04/2016
"Particle Acceleration by a Solar Flare Termination Shock"	
[1] American Geophysics Union Fall Meeting	12/2014
"Constraining Solar Coronal Magnetic Fields with New Radio Observing Techniques"	
Invited Colloquium/Seminar	
[18] Space Plasma Seminar, Naval Research Laboratory, virtual	03/2023
"Magnetic Energy Release and Particle Acceleration in Solar Flares"	
[17] IfA Colloquium, Institute of Astronomy, University of Hawaii, online	03/2022
"Probing the 'Central Engine' of Solar Flares: Recent Insights from Broadband Radio Imaging Spectroscopy"	
[16] Space Science Seminar, NASA Marshall Space Flight Center	04/2021
"Solar Flare Energy Release: New Insights from Broadband Radio Imaging Spectroscopy"	
[15] Astronomy & Astrophysics Seminar, Dublin Institute for Advanced Studies	01/2021
"Solar Flare Energy Release: New Insights from Recent Radio Observations"	
[14] Heliophysics Seminar, Heliophysics Division of NASA Goddard Space Flight Center	10/2020
"Magnetic Reconnection and Particle Acceleration in Solar Flares: New Insights from Recent Radio Studies"	
[13] Institute for Space Weather Sciences Colloquium, New Jersey Institute of Technology	10/2020
"Measurement of Magnetic Field and Relativistic Electrons along a Solar Flare Current Sheet"	
[12] Space & Plasma Seminar, Dartmouth College	10/2020
"Radio Diagnostics of Magnetic Reconnection and Particle Acceleration in Solar Flares"	
[11] Astronomy & Space Science Colloquium, Nanjing University	09/2020
"The Sun as a Laboratory for High-Energy Astrophysics: A Radio Perspective"	
[10] Key Laboratory of Solar Activities Seminar Series, Chinese Academy of Sciences	07/2020
"High-Energy Astrophysics on the Sun: New Insights from Broadband Radio Imaging Spectroscopy"	
[9] Solar Physics Webinar of Global Reach—SolFER Colloquium	04/2020
"Solar Flare Observations with the Jansky Very Large Array"	
[8] Astrophysics Seminar, American Museum of Natural History	10/2019
"High-Energy Astrophysics on Our Nearest Star: New Insights from Radio Observations"	
[7] Space Physics Seminar, Los Alamos National Laboratory	03/2019
"Probing Magnetic Reconnection in Solar Flares"	
[6] Heliophysics Seminar, Princeton Plasma Physics Laboratory	03/2019
"Probing Magnetic Reconnection in Solar Flares"	
[5] Space Physics and Astrophysics Colloquium, University of Minnesota	11/2018

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"Solar Flare Observations with the Karl G. Jansky Very Large Array"	
[4] Princeton Astroplasmas Seminar, Princeton University	05/2016
"Particle Acceleration in Solar Flares: New Insights from Radio Observations"	
[3] Physics Department Seminar, New Jersey Institute of Technology	05/2016
"Explosions on the Sun: New Insights from Recent Radio Observations"	
[2] Space Sciences Laboratory Colloquium, Univ. of California, Berkeley	04/2015
"Solar Radio Astronomy in the Era of Broadband Dynamic Imaging Spectroscopy"	
[1] NAOC Seminar, National Astronomical Observatories, CAS	03/2013
"Passages of Electron Beams in the Sun's Corona"	
Selected Contributed Conference Presentations	
[22] American Geophysical Union Fall Meeting, Chicago, IL	12/2022
"HDR Broadband Radio Imaging Spectropolarimetry of the Sun: Expected Results from FASR"	
[21] Triennial Earth-Sun Summit (TESS), Bellevue, WA	08/2022
"The Next Frontier in Solar Flare Science with the Frequency Agile Solar Radiotelescope"	
[20] AOGS Conference, Online	08/2021
"Energetic Electron Distribution of the Coronal Acceleration Region: First Results from Joint Microwave and Hard X-ray Imaging Spectroscopy"	
[19] AOGS Conference, Online	08/2021
$\hbox{``Measurement of Magnetic Field and Relativistic Electrons along a Solar Flare Current Sheet''}$	
[18] Heliophysics 2050 Workshop, Online	05/2021
"A Next Generation Radio Heliograph: New Insights into the Physics of the Active Sun" (iPoster)	
[17] American Geophysical Union Fall Meeting, Online	12/2020
"The Above-the-looptop Source of the 2017 September 10 Solar Flare: Energetic Electron Distribution over a Broad Energy Range" (iPoster)	
[16] 236 th American Astronomical Society Meeting, Online	06/2020
"Measurement of magnetic field and relativistic electrons along a solar flare current sheet"	
[15] 234 th American Astronomical Society Meeting, St. Louis, MO	06/2019
"Fast plasma outflows associated with impulsive microwave and hard X-ray bursts during the gradual phase of the 2017 September 10 X8.2 flare"	
[14] 234 th American Astronomical Society Meeting, St. Louis, MO	06/2019
"Radio Spectroscopic Imaging of Solar Flare Termination Shocks: Split-band Feature and A Second Possible Event"	
[13] 18 th RHESSI Workshop, Minneapolis, MN	05/2019
"Radio Spectral Imaging of Solar Flare Termination Shock: Co-Spatial Split-band Feature"	
[12] American Geophysical Union Fall Meeting, Washington DC	12/2018

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"Probing the Bi-Directional Magnetic Reconnection Outflow Region of An Eruptive Solar Flare with Microwave Spectroscopic Imaging"	
[11] Triennial Earth-Sun Summit, Leesburg, VA	05/2018
"Microwave Spectroscopic Imaging of the Magnetic Reconnection Region in the 2017 September 10 Eruptive Solar Flare"	
[10] American Geophysical Union Fall Meeting, New Orleans, LA	12/2017
"Tracing Fast Electron Beams Emanating from the Magnetic Reconnection Site in a Solar Jet"	
[9] 5 th US/China Workshop on Radio Astronomy, Charlottesville, VA	07/2017
"Solar Flare Observations with Jansky Very Large Array"	
[8] 16 th RHESSI Workshop, Boulder, CO	06/2017
"VLA Observation of dm- λ Type III Radio Bursts in a Microflare"	
[7] American Astronomical Society Solar Physics Division Meeting, Boulder, CO	06/2016
"Radio Spectroscopic Imaging of Bi-directional Electron Beam Pairs in a Solar Flare"	
[6] American Geophysical Union Fall Meeting, San Francisco, CA	12/2015
"Observations and Simulations of a Termination Shock in an Eruptive Solar Flare as a Possible	
Particle Accelerator"	
[5] 14 th RHESSI Workshop, Newark, NJ	08/2015
"New Insights into Particle Acceleration: Radio Observations of a Termination Shock"	
[4] 223 rd American Astronomical Society Meeting, Washington, DC	01/2014
"Probing Magnetic Energy Release in a Solar Flare with Radio Dynamic Imaging Spectroscopy"	
[3] American Astronomical Society Solar Physics Division Meeting, Bozeman, MT	07/2013
"Radio and X-ray Diagnostics of Energy Release in Solar Flares"	
[2] American Geophysical Union Fall Meeting, San Francisco, CA	12/2011
"The Role of Inversion Compton Scattering in Coronal HXR Sources"	
[1] American Astronomical Society Solar Physics Division Meeting, Boulder, CO	06/2009
"Interplanetary Type II Radio Bursts and the Role of Gyrosynchrontron Radiation"	

Publications

Link to a public ADS library of Dr. Bin Chen's refereed publications: https://ui.adsabs.harvard.edu/public-libraries/HR_t7W0_Th2sn5tzZmLCAg

Refereed Publications as Lead/Senior Author

First author and student/postdoc advisee* publications

[23] **Chen, B.**; Kong, X.; Yu, S.; Shen, C. et al., <u>Astrophys. J.</u>, 971, 85 (ADS)

"Energetic Electrons Accelerated and Trapped in a Magnetic Bottle above a Solar Flare Arcade"

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[22] *Mondal, Surajit; Battaglia, A.; Chen, B. ; Yu, S., <i>Astrophys. J.</i> , 966, 208 (ADS)	2024
"A Joint Microwave and Hard X-Ray Study toward Understanding the Transport of Accelerated Electrons During an Eruptive Solar Flare"	
[21] *Wei, Yuqian; Chen, B.; Yu, S.; Wang, Haimin et al., Astrophys. J., 964, 174 (ADS)	2024
"Episodic Energy Release during the Main and Post-impulsive Phases of a Solar Flare"	
[20] *Wang, Meiqi, Chen, B. [†] , Yu, S., Gary, D., Lee, J. et al., <i>Astrophys. J.</i> , 954, 32 (ADS)	2023
"The Solar Origin of an In Situ Type III Radio Burst Event"	
[19] *Mondal, Surajit, Chen, B. , Yu, S., <i>Astrophys. J.</i> , 949, 56 (DOI)	2023
"Multifrequency Microwave Imaging of Weak Transients from the Quiet Solar Corona"	
[18] *Luo, Yingjie, Chen, B., Yu, S., Battaglia, M., Sharma, R., Astrophys. J., 940, 137 (ADS)	2022
"Multiple Regions of Quasi-Periodic Pulsations during the Impulsive Phase of a Solar Flare"	
[17] *Wei, Yuqian, Chen, B. , Yu, S., Wang, H., Jing, J., Gary, D., Astrophys. J., 923, 213 (ADS)	2021
"Coronal Magnetic Field Measurements along a Partially Erupting Filament in a Solar Flare"	
[16] *Luo, Yingjie, Chen, B., Yu, S., Bastian, T., Krucker, S., Astrophys. J., 911, 4 (ADS)	2021
"Radio Spectral Imaging of an M8.4 Eruptive Solar Flare: Possible Evidence of a Termination Shock"	
[15] Chen, B., Battaglia, M., Krucker, S., Reeves, K., Glesener, L., Astrophys. J. Lett., 908, 55 (ADS)	2021
"Energetic Electron Distribution of the Coronal Acceleration Region: First results from Joint	
Microwave and Hard X-ray Imaging Spectroscopy"	
[14] *Yu, Sijie, Chen, B. , Reeves, K., Gary, D., Sophie M. et al., <u>Astrophys. J.</u> , 900, 17 (ADS)	2020
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