Michael J. Koss

Contact Information

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Web: https://www.bass-survey.com

Research Interests

High Energy Astrophysics, Instrumentation, Active Galaxies, Multiwavelength Surveys

Highlights

Leading scientific researcher in observational astrophysics of supermassive black holes with a background in instrumentation and teaching. Led as principal investigator (PI) 103 successful space, instrumentation and ground-based telescope proposals in the X-ray, UV, optical, NIR, and submillimeter wavelengths with more than $4.5 million in associated funds for observation, instrumentation, software development, and postdoctoral fellowships. Authored or coauthored 171 refereed articles on astronomy, nuclear physics, and aerospace engineering with more than 9500 citations and an H-index of 53. I cofounded BASS, a survey that led to more than 40 published papers, > $6 million in grants, two Special Sessions of the American Astronomical Society, and a special issue of the Astrophysical Journal. I have directly supervised 11 Master's theses, 14 Undergraduate theses. I have been the lead author of NASA press conferences, press releases, the top trending story on Reddit, and Nature publications, and I have been covered by various popular news outlets such as Scientific American.

Awards & Honors

- Associate PI Advanced X-ray Imaging Satellite (AXIS) Probe Proposal **2022**
- NASA Achievement Award-Resolving the Cosmic X-ray Background **2017**
- BAT AGN Spectroscopic Survey (BASS,www.bass-survey.com) **2016-Pres**
- Ambition Fellowship-Switzerland **2014-2016**
- Head Graduate Student, University of Maryland **2008-2011**
- Japanese Science Society Fellowship **2008**
- Maryland State Senatorial Scholarship **2006-2009**
- NASA Graduate Fellowship, High Energy Astrophysics **2005-2007**
- DARPA Award/DOD Medal-Grand Challenge **2007**
- 3M Technology Fellowship **2003**
- Top Physics Major, University of Notre Dame **2002**
- Top Male Student Athlete and Team Captain, University of Notre Dame **2002**

Education

University of Maryland, College Park, Maryland
Ph.D., Astrophysics, September, 2011
- Thesis: The Host Galaxies of Ultra Hard X-ray Selected AGN

M.S., Astrophysics, August 2008

Saint Mary's University, Teaching Science and Technology Certification, Aug., 2003
University of Notre Dame, Physics, Magna Cum Laude, May, 2002

Research and Teaching Career

Eureka Scientific and Space Science Institute, Seattle, WA
NASA Funded Research Grants **Sept 2016 – Pres**
Independent astrophysics research scientist working with data from NASA satellites.

Institute for Astronomy, Zurich, Switzerland
Ambition Fellow Swiss National Science Foundation **Nov 2013 – Aug 2016**
Independent fellow studying black hole growth and galaxy mergers.

Institute for Astronomy, Honolulu, Hawaii

Postdoctoral Fellow AGN Studies **Sep 2011 – Oct 2013**
Observational studies of AGN postdoctoral fellowship studying the starburst AGN connection using FIR and submillimeter properties of AGN galaxies.

Nagoya University X-ray Lab, Nagoya, Japan *JSPS Fellow* **2008**
Designed camera hardware and star matching code for the camera pointing system on the Infocus balloon experiment.

NASA Goddard Space Flight Center, Greenbelt, Maryland *Graduate Assistant Swift Satellite* **2006-2011**
Developed software for satellite diagnostic data, classified optical AGN sources in the ultra hard X-ray all sky survey, and provided 39 gamma-ray burst GCN notices.

Airborne Technologies, Sterling, VA *Subject Matter Expert DARPA*, **2007**
Subject matter expert for DARPA in route development using GPS and robotic sensors for the 2007 Urban Challenge vehicle race.

SRS Technologies, Arlington, VA *DARA Engineering Consultant* **2003 – 2005**
Led the route team surveying 1000+ miles of desert to create a differential GPS route as part of the DARPA Director's office core staff for a $2 million Grand Challenge robot vehicle race.

3M, Saint Paul, MN *Engineer* **2003**
Created library of viscosities and melt flows of polymer samples used in optical films.

Trinity High School, Bloomington, MN *Teacher Science/Math* **2002-2003**

Teaching Experience

Class	#Stud.	Level	Year	Role
Observational Techniques	6,7	Masters/Grad.	2013,2014	Co-Teacher
Advanced Physics	21, 20	12th Grade	2002,2003	Teacher
Advanced Calculus	23, 25	12th Grade	2002,2003	Teacher
Geometry	26, 24	11th Grade	2002,2003	Teacher
Pre-Calculus	23, 25	12th Grade	2002,2003	Teacher
Life Science	32	10th Grade	2003	Teacher
Earth Science	31	9th Grade	2002	Teacher

PI Led Successful Proposals $4.5 million, 103 total (49 ground, 45 space, 9 general).

	Year	Role	PI	Time	Grant
Grants					
NASA Data Analysis (x3)	2016,19,21	PI	M. Koss		$1848k
Amazon Machine Learning	2019	PI	M. Koss		$2k
Swiss Ambition	2014	PI	M. Koss		$430k
Swiss NSF	2014	Co PI	M. Koss		$224k
Japan JSPS	2008	PI	M. Koss		$60k
Maryland Senatorial	2006-2009	PI	M. Koss		$8k
NASA Graduate	2006-2008	PI	M. Koss		$80k
Instrumentation					
Balloon Star Trackers	2008	PI	M. Koss		$15k
Space Satellites					
XMM (x14)	2013-23	PI	M. Koss	1.30 Ms	$356k
Chandra (11x)	2010-23	PI	M. Koss	1.72 Ms	$839k
NuSTAR (7x)	2013-15,18,20,22	PI	M. Koss	1.35 Ms	$277k
Swift TOO (x7 years)	2013-14,20-23	PI	M. Koss	260 ks	
HST (x5)	2014-15,19-21,23	PI	M. Koss	527 orbits	$348k
Ground Telescopes					
VLBA	2023	PI	M. Koss	26 hrs	
JVLA (x2)	2023	PI	M. Koss	4 hrs	
Keck (5x)	2012-13,21-22	PI	M. Koss	10 nights	$29k
ALMA	2021	PI	M. Koss	55 hrs	
Gemini (12x)	2011-13,21-23	PI/Co PI	M. Koss	99 hrs	
APEX (x6)	2016-21	PI	M. Koss	468 hrs	
SOAR	2021	PI	M. Koss	20 hrs	
IRTF (4x)	2010-13	PI	M. Koss	10 nights	
UH 2.2m (4x)	2012-13	PI	M. Koss	22 nights	
JCMT (6x)	2012-13	PI	M. Koss	30 nights	
KP 4m, 2.1m (7x)	2008-11	PI	M. Koss	43 nights	

Mentoring Supervisor Experience

2 Postdoctoral, 11 Masters/Graduate, 14 Undergraduate Thesis, 2 High School

- Jarred Gillette (Postdoc Eureka Scientific) **2023-Pres**
  Project working on BASS DR3 and low redshift analogs of JWST sources.
- MacKenzie Dean (Undergraduate-Colorado) **2022-Pres**
  Undergraduate at Maria Mitchel Observatory program working on HST program to identify nuclear dust lanes.
- Yarone Takoyer (Graduate-Yale) **2021-Pres**
  Project to simulate the effects of redshift nearby X-ray spectra into distant deep fields based on Chandra archival grant.
- Jonathan Williams (Graduate-Maryland) **2019-Pres**
  Working on sub-kpc mergers of AGN galaxies with Keck/OSIRIS. Paper in preparation on triple-galaxy merger
- Annika Salmi (Undergraduate-Yale) **2020-2022**
  Project on correlating HST dust morphologies and X-ray obscuration.
- Connor Vaught (Undergraduate-Maryland) **2020-2021**
  Developing code for GMOS IFU observations of kpc scale dual AGN.
- Sarah Bowers (Undergraduate Maryland) **2019 Summer**
  Working on project looking at HST morphology and X-ray emission. Won a research fellowship to conduct atmospheric research
- Tristan Weaver (Undergraduate Yale) **2018-2019**

Working on project looking at the most luminous BAT AGN to compare with eROSITA satellite.

- Jakob den Brok (Undergraduate and Master's-ETH) **2017-Pres**
  Performed largest NIR spectroscopic survey to date with VLT/Xshooter telescope in ApJ paper. Currently, SMA postdoctoral fellow at Harvard.
- Kyuseok Oh (Postdoctoral) **2015-2017**
  Produced the 105-month BAT catalog with more than 100 citations in Astrophysical Journal. Staff Scientist at KASI (Korea Astronomy and Space Science Institute) in Daejeon, South Korea.
- Tamara Rahimi (Undergraduate and Master's-ETH) **2016-2018**
  SCUBA2 Observations of Hard X-ray Selected AGN. Working on the reductions of the data of 63 observations of the AGN detection of BAT at 850 μm. Received a JSPS graduate fellowship to work on a project at Kyoto University. Working in software engineering.
- Benjamin Strittmatter (Undergraduate-ETH) **2016-2017**
  APEX observations of X-ray detected AGN included in 2021 ApJ publication. In PhD program in theoretical physics.
- Dominick Stark (Undergraduate-ETH) **2016**
  Merging AGN host galaxies. Project on measuring accretion rates with separation in AGN. Working in machine learning startup.
- Isabella Lamperti (Undergraduate and Master's Thesis-ETH) **2014-2016**
  NIR spectral properties of BAT AGN. Article published in MNRAS with me as the second author. Undergraduate thesis contributed to velocity dispersion measurements in a paper on BAT AGN. Astrophysics PhD at University College London. Postdoctoral position in galaxy evolution in Spain.
- Linda Baronchelli (Undergraduate and Master's Thesis-ETH) **2014-2016**
  Published MNRAS paper on identification of Compton-thick AGN at z>2 using the X-ray spectral curvature. PhD from Max Planck in the high-energy astrophysics group, now currently working in data science.
- Andrea Scanzio (Undergraduate Thesis and Master's Thesis-ETH) **2014-2016**
  Project in X-ray emission in galaxy mergers and using galaxy zoo to detect a recoiling black hole. Working in banking industry
- Dario Kermanschah (Undergraduate Thesis-ETH) **2015**
  Analyzing IFU data of optically elusive AGN, now working in financial industry.
- Christian Tschudi (Undergraduate Thesis-ETH) **2015**
  Optical spectra of unknown BAT AGN with Gemini.
- Philipp Bernhard (Masters-ETH) **2014-2015**
  Reductions of NIR AO observations of X-ray Selected AGN which led to paper published in Nature. PhD student at ETH Zurich in Remote Sensing.
- Simon Berney (Masters Thesis-ETH) **2014-2015**
  Optical spectroscopy of X-ray Selected AGN. Led to conference presentation at NuSTAR conference and MNRAS first author paper with me as second author. Working in financial industry.
- Krista Smith (Masters Thesis-Maryland) **2012-2014**
  Supervised master's thesis using my IRTF data on X-ray bright optical neutral galaxies. Led to AAS poster & ApJ paper with me as second author. Einstein Postdoctoral Fellow at Stanford. Assistant Professor at Texas A&M.
- Kim Nguyen (Masters Graduate student-Maryland) **2011-2012**
  Supervised project studying molecular gas in nearby galaxies. Led to successful CARMA proposal. Working in data science.

- Kevin Pham, Carolyn Morris (High School Student-Hawaii) **2011-2013**
  Led to successful science fair exhibition.

Professional Activities

- HEAD 2023, Splinter Session AXIS Organizer **2023**
- AAS 2023, Splinter Session AXIS Organizer **2023**
- AAS 2023, Special Session PI and Chair DR2 **2023**
- NASA ADAP Review, Panel Chair **2022**
- AXIS High Resolution X-ray Imager Associate PI Science **2022-Pres**
- AXIS Monthly Seminar Talk Organizer **2022-Pres**
- HEAD 2022, Splinter Session AXIS Organizer **2022**
- EAS 2020, SOC, Session chair **2021**
- Head of SOC/LOC for BASS Online Conference **2020**
- SOC for BASS Florida Conference **2019**
- SOC for ESO BASS Conference **2018**
- AXIS High Resolution X-ray Imager Science Team **2017-Pres**
- STROBE-X Science Team **2017-Pres**
- AAS Special Session PI and Chair BASS DR1 **2017**
- HST Review Panel Member **2016**
- NASA Astrophysical Data Analysis Program Panel Member **2016**
- Chandra AGN Panel Member **2016**
- X-ray Surveyor Synergy and AGN and LSS Science Panel **2016-2018**
- Conference Organizer and Head of SOC
  The X-ray View of Black Hole Activity in the Local Universe **2016**
- BAT AGN Spectroscopic Survey (BASS) Lead (www.bass-survey.com) **2016-Pres**
- NuSTAR Swift BAT AGN Legacy Survey **2013-Pres**
- NuSTAR Extragalactic Legacy Survey **2013-Pres**
- NuSTAR Obscured AGN Legacy Survey **2013-Pres**
- Swiss Society for Astrophysics and Astronomy **2013-2017**
- Journal Referee (ApJ, ApJL, MNRAS, Nature, A&A) **2011-Pres**
- American Astronomical Society **2010-Pres**
- Swift BAT Survey Science Team **2007-Pres**

Outreach

- **Faulkes Telescope Program**-Led high school student Faulkes Telescope campaign to observe newly detected hard X-ray AGN galaxies. Program has observed 17 AGN with 10 different high schools in the United States and Australia.
- **Public Outreach Presentations**-Over 50 public presentations to nursing homes, elementary schools, high schools, and community centers in Minnesota, Colorado, Maryland, Hawaii, Washington, Canada, United Kingdom, and Switzerland.
- **University of Hawaii Hi STAR program**- Led summer student astronomy program on galaxies for 8–11th grade students for two summers.
- **Science Fair and Engineering Fair Judge** Judge for annual district science fair and future city competitions.
- **AIAA Public Policy Workshop-2 years** Met with representatives and senators over a week to discuss the importance of science and education funding.
- **Teachers Working in Science and Technology Program** Developed high school student laboratories that bring the leading industrial science of 3M into the classroom.
- **High School Physics Lectures**-Created high school lectures for general relativity, special relativity, and quantum mechanics, used by Trinity Schools in Minnesota.

References

Richard Mushotzky	PhD Adviser, Professor Maryland, richard@astro.umd.edu
Meg Urry	Professor, Yale University, Former AAS president, meg.urry@yale.edu
Sylvain Veilleux	PhD Co-adviser, Professor Maryland, veilleux@astro.umd.edu
Fiona Harrison	PI NuSTAR Satellite, Professor/Dean Caltech, fiona@srl.caltech.edu
Daniel Stern	Project Scientist NuSTAR Satellite, daniel.k.stern@jpl.nasa.gov
Dave Sanders	Professor, Graduate Chair, Hawaii, sanders@ifa.hawaii.edu

Invited and Contributed Talks

- Maria Mitchell Association Nantucket, July, 2023.
- EAS (Invited Review), July, 2023.
- NuSTAR Meeting, April, 2023.
- DIRAC Institute (Invited), April, 2023.
- AAS, Contributed and Special Session, Jan. 2023.
- NRAO (Invited), Dec. 2022.
- NASA Goddard (Invited), Dec. 2022.
- Multiphase AGN Fueling & Feeding (Invited), Sextens Workshop, June, 2022.
- Universidad Diego Portales, April, 2022.
- Pontifica Universidad de Chile Colloquium (Invited), April, 2022.
- Dartmouth Colloquium (Invited), Jan., 2022.
- Swift Senior Review Proposal Meeting (Invited), Nov 2021.
- Washington State Colloquium (Invited), Sept. 2021.
- Aspen Workshop, Black Hole Formation, June, 2021
- EAS 2021, Coalescence of supermassive black hole binaries, June 2021.
- Notre Dame Colloquium (Invited), May 2021.
- Supermassive Black Holes Chile (Invited), Dec 2020.
- BASS Survey Workshop, July 2020.
- Sanders 30th Anniversary Ultraluminous Starbursts and AGN (Invited), Jan 2020.
- American Astronomical Society Winter Meeting, Jan 2020.
- Accretion History of AGN (Invited), Dec 2019.
- Celebrating 20 Years of Chandra, Dec 2019.
- EWASS Dual Nuclei (Invited), June 2019.
- 17th Meeting of the AAS High Energy Division, Mar 2019.
- University of Florida Colloquium (Invited), Feb 2019.
- BASS Survey Workshop, Feb 2019.
- American Astronomical Society Winter Meeting, Jan 2019.
- University of Washington Lunch Talks, Dec 2018.
- Accretion History of AGN (Invited), Oct 2018.
- Swift Satellite Conference, Oct 2018.
- DIRAC Institute (Invited), Oct 2018.
- AXIS Summer Workshop, Aug 2018.
- COSPAR, Jul 2018.
- Aspen Mergers Workshop, Jul 2018.
- The radio and X-ray connection in accreting objects (Invited), May 2018.
- BASS ESO Conference (Invited), Mar 2018.
- American Astronomical Society Winter Meeting, Special Session, Jan 2018.
- STROBE-X Working Group Meeting (Invited), Sep 2017.
- 16th Meeting of the AAS High Energy Division, Aug 2017.

- ETH Zurich Colloquium, July 2017.
- Lynx Workshop (Invited), Mar 2017.
- Clemson Colloquium (Invited), Feb 2017.
- Star Formation in Nearby Galaxies with JWST, Jan 2017.
- American Astronomical Society Winter Meeting, Jan 2017.
- NuSTAR Science Meeting, Nov, 2016
- EWASS: Multi-messenger view of mergers (Invited), Jul 2016.
- Black Hole Activity in Local Universe (Invited), Feb 2016.
- University of Washington Colloquium (Invited), Dec 2015.
- INTEGRAL Workshop (Invited), Oct 2015.
- NuSTAR Science Team Meeting, Mar 2015.
- Unveiling the AGN Galaxy Connection, Mar 2015.
- American Astronomical Society Winter Meeting, Jan 2015.
- Swift 10 years of Discovery (Invited), Dec 2014.
- Bologna University Colloquium, Mar 2014.
- NuSTAR Science Team Meeting, Jan 2014.
- American Astronomical Society Winter Meeting, Jan 2014.
- Swift Science Meeting, Oct 2013.
- 13th Meeting of the AAS High Energy Division, Apr 2013.
- Illuminating the Galaxy-AGN Connection (Invited), Dec 2012.
- Binary Black Holes & Dual AGN (Invited), Nov 2012.
- NASA Goddard Colloquium (Invited), June 2012.
- Energetic Astronomy (Invited), June 2012.
- Galaxy Mergers in an Evolving Universe, Oct 2011.
- American Astronomical Society Winter Meeting, Jan 2011.
- 12th Meeting of the AAS High Energy Division, Sep 2011.
- Single and Double Black Holes in Galaxies (Invited), Aug 2011.
- 2011 Chandra Science Workshop, July 2011.
- 11th Meeting of the AAS High Energy Division, Mar 2010.
- American Astronomical Society Winter Meeting, Jan 2010.
- X-ray Astronomy 2009, Sep 2009.
- Nagoya University Colloquium (Invited), June 2008.
- Matsuyama University Colloquium (Invited), April 2008.

Publications Overview

I have published 171 refereed publications and 45 unrefereed, with an H-Index of 53, with 19 first author, 22 done with close supervision of students or postdocs as 2nd or 3rd author, 47 with a major role, and a total citation count of over 9500.

Five Recent or Highly Cited First Author Papers

5. **Koss, M.**, et al., *BASS. XXI. The BASS DR2 Overview*, 2022, ApJS special issue, 261, 1.
   https://iopscience.iop.org/article/10.3847/1538-4365/ac6c8f

4. **Koss, M.**, et al., *A population of luminous accreting black holes with hidden mergers*, Nature, 2018, 563, 214
   https://www.nature.com/articles/s41586-018-0652-7.

3. **Koss, M.,** et al., *BAT AGN Spectroscopic Survey I: Catalog and First Data Release of Spectral Measurements and Derived Quantities*, 2017, ApJ, 850, 74
   https://iopscience.iop.org/article/10.3847/1538-4357/aa8ec9.

2. **Koss, M.**, et al., *Understanding Dual AGN Triggering in the Local Universe*, 2012, ApJL, 746, 22
   https://iopscience.iop.org/article/10.1088/2041-8205/746/2/L22.

1. **Koss, M.**, et al., *Host Galaxy Properties of the Swift Bat Ultra Hard X-Ray Selected Active Galactic Nuclei*, 2011, ApJ, 739, 57 https://iopscience.iop.org/article/10.1088/0004-637X/739/2/57/meta.

Other First Author papers

14. Koss, M., et al., UGC 4211: A Confirmed Dual AGN in the Local Universe at 230 pc Nuclear Separation, 2023, ApJL, 942, L24.
13. Koss, M., et al., *BASS. XXII. The BASS DR2 AGN Catalog and Data*, 2022, ApJS special issue, 261, 2.
12. Koss, M., et al., *BASS. XXVI. DR2 Velocity Dispersions*, 2022, ApJS special issue, 261, 6.
11. Koss, M., et al., *BAT AGN Spectroscopic Survey – XX: Molecular Gas in Nearby Hard X-ray Selected AGN*, 2021, ApJS, 252, 29
10. Koss, M., et al., *A New Population of Compton-Thick AGN Identified Using the Spectral Curvature Above 10 keV*, 2016, ApJ 825, 85.
9. Koss, M., et al., *NuSTAR Resolves the First Dual AGN above 10 keV in SWIFT J2028.5+2543*, 2016, ApJL, 824, 4.
8. Koss, M., et al., *Broadband Observations of the Compton-Thick Nucleus of NGC 3393*, 2015, ApJ, 807, 149.
7. Koss, M., et al., *SDSS1133: An Unusually Persistent Transient in a Nearby Dwarf Galaxy*, 2014, MNRAS, 445, 515.
6. Koss, M., et al., *Studying Faint Ultra-hard X-Ray Emission from AGN in GOALS LIRGs with Swift BAT*, 2013, ApJL, 765, 26.
5. Koss, M., et al., *Host Galaxy Properties of the Swift Bat Ultra Hard X-Ray Selected Active Galactic Nuclei*, 2011, ApJ, 739, 57.
4. Koss, M., et al., *Chandra Discovery of a Binary AGN in Mrk 739*, 2011, ApJL, 735, 42.
3. Koss, M., et al., *The Host Galaxies of Ultra Hard X-ray Selected AGN*, 2011, PhDT, 223K
2. Koss, M., et al., *Host Galaxy Properties of BAT Hard X-ray Selected AGN*, 2010, AIPC, 1248, 453.
1. Koss, M., et al., *Merging and Clustering of the Swift BAT AGN Sample*, 2010, ApJL, 716, 125.

Closely Supervised Student/Postdoc Papers

22. Turgay, C., **Koss, M.**, Burscher, L., et al., BASS. XXXV. The M BH-sigma Relation of 105 Month Swift-BAT Type 1 AGNs, ApJ, 956, 22.
21. Temple, M., Ricci, C., **Koss, M.**, et al., BASS XXXIX: Swift-BAT AGN with changing-look optical spectra, MNRAS, 518, 2398.
20. Kakkad, D., Sani, E., **Koss, M.**, et al., *BASS XXXI: Outflow scaling relations in low redshift X-ray AGN host galaxies with MUSE*, MNRAS, 2023, 511, 2105.

19. den brok, J., **Koss, M.**, et al., *BASS XXVIII: Near-IR DR2, High-Ionization and Broad Lines in AGN*, 2022, ApJS special issue, 261, 7.

18. Mejía-Restrepo, J., Trakhtenbrot, B., **Koss, M.**, et al., *BASS XXV: DR2 Broad-line Based Black Hole Mass Estimates and Biases From Obscuration*, ApJS special issue, 261, 5.

17. Oh, Kyuseok, **Koss, M.**, et al. BASS. XXIV. *The BASS DR2 Spectroscopic Line Measurements and AGN Demographics*, ApJS special issue, 261, 4.

16. Smith, K., **Koss, M.**, et al., *Significant Suppression of Star Formation in Radio-Quiet AGN Host Galaxies with Kiloparsec-scale Radio Structures*, ApJ, 2020, 904, 83.

15. Kammoun, E., Miller, J. M., **Koss, M.**, et al., *A hard look at local, optically-selected, obscured Seyfert galaxies*, ApJ, 2020, 901, 161K.

14. Smith, K., Mushotzky, R., **Koss, M.**, et al., *BAT AGN Spectroscopic Survey - XV: The High Frequency Radio Cores of Ultra-hard X-ray Selected AGN*, 2020, MNRAS, 492, 42.

13. Liu, T., **Koss, M.**, et al., *The BAT AGN Spectroscopic Survey. XVIII. Searching for Supermassive Black Hole Binaries in X-Rays*, 2020, ApJ, 896, 122.

12. Lamperti, I., Saintonge, A., **Koss, M.**, et al., *The CO(3-2)/CO(1-0) Luminosity Line Ratio in Nearby Star-forming Galaxies and Active Galactic Nuclei from xCOLD GASS, BASS, and SLUGS*, 2020, ApJL, 889, 103.

11. Paliya, V., **Koss, M.**, et al., *BAT AGN Spectroscopic Survey. XVI. General Physical Characteristics of BAT Blazars*, 2019, ApJ, 154, 12.

10. Sartori, L., Schawinski, K., **Koss, M.**, et al., *Joint NuSTAR and Chandra analysis of the obscured quasar in IC 2497 - Hanny's Voorwerp system*, 2018, MNRAS, 474, 2444.

9. Shimizu, T., Davies, R., **Koss, M.**, et al., *BAT AGN Spectroscopic Survey–VIII. Type 1 AGN With Massive Absorbing Columns*, 2017, MNRAS, 856, 154.

8. Oh, K., **Koss, M.**, et al., *The 105-Month Swift-BAT All-sky Hard X-Ray Survey*, 2017, ApJS, 235, 4.

7. Baronchelli, L., **Koss, M.**, et al., *Inferring Compton-thick AGN candidates at $z > 2$ using the Spectral Curvature above 10 keV*, 2017, MNRAS, 471, 364.

6. Lamperti, I., **Koss, M.**, et al., *BAT AGN Spectroscopic Survey-IV: Near-Infrared Coronal Lines, Hidden Broad Lines, and Correlation with Hard X-ray Emission*, 2017, MNRAS 467, 540.

5. Oh, K., Schawinski, K., **Koss, M.**, et al. *BAT AGN Spectroscopic Survey-III. An observed link between AGN Eddington ratio and narrow emission line ratios*, MNRAS, 2017, 461, 1466.

4. Sartori, L., Schawinski, K., **Koss, M.**, et. al, *Extended X-ray emission in the IC 2497 - Hanny's Voorwerp system: energy injection in the gas around a fading AGN*, 2016, 457, 3629.

3. Berney, S., **Koss, M.** et al., *BAT AGN spectroscopic survey II: X-ray emission and high ionization optical emission lines*, MNRAS, 2015, 454, 3622.

2. Smith, K., **Koss, M.**, Mushotzky, R., *An Infrared and Optical Analysis of a Sample of XBONGs and Optically-Elusive AGN*, 2014, ApJ, 794, 112.

1. Noguchi, K., Terashima, Y., **Koss, M.**, Ueda, Y., Awaki, H., *Scattered X-rays in Obscured Active Galactic Nuclei and their Implications for Geometrical Structure and Evolution, 2011 ApJ, 711, 144.*

Other refereed papers–Major Role

47. Tortosa, A., Ricci, C., Arevalo, P., **Koss, M.**, et al., *BASS-XL: X-ray variability properties of unobscured active galactic nuclei*, 2023, MNRAS, 526, 1687.

46. Harvey, T., Maksym, P., Keel, W., **Koss, M.**, et al., *Signatures of Feedback in the Spectacular Extended Emission Region of NGC 5972*, 2023, MNRAS, 526, 4174.

45. Armah, M., Riffel, R., Dors, O., Oh, K., **Koss, M.**, et al., Oxygen abundances in the narrow line regions of Seyfert galaxies and the metallicity-luminosity relation, MNRAS, 520, 1687A.

44. Ricci, C., **Koss, M.**, et al., *BASS XXXVII: Is the growth of nearby supermassive black holes regulated by radiative feedback*, 2022, ApJL, 938, 67.

43. Tonima, A., Weigel, A., Trakhtenbrot, B., **Koss, M.**, et al., *BASS XXX: Distribution Functions of DR2 Eddington-ratios, Black Hole Masses, and X-ray Luminosities*, 2022, ApJS special issue, 261, 9.

42. Marcotulli, L., Ajello, M., Urry, C., Paliya, S., **Koss, M.**, et al. *BASS XXXIII: Swift-BAT blazars and their jets through cosmic time*, 2022, ApJ, 940, 77.

41. Finlez, C., Treister, E., Bauer, F., Keel, W., **Koss, M.**, et al., *Detailed accretion history of the supermassive black hole in NGC 5972 over the past 10,0000 years through the extended emission line region*, 2022, ApJ, 936, 88.

40. Ricci, F., Treister, E., Bauer, F., MejÌa-Restrepo, J., **Koss, M.**, et al., *BASS XXIX: The near-infrared view of the BLR: the effects of obscuration in BLR characterisation*, 2022, ApJS special issue, 261, 8.

39. Walton, D. J.; Balokovic, M.; Fabian, A. C.; Gallo, L. C.; **Koss, M.**,, *Extreme relativistic reflection in the active galaxy ESO 033-G002*, MNRAS, 2021, 506, 1557.

38. Gupta, K., Ricci, C., Ueda, Y., Kawamuro, T., **Koss, M.**, et al., *BAT AGN Spectroscopic Survey XXVII: Scattered X-Ray Radiation in Obscured Active Galactic Nuclei*, MNRAS, 2021, 504, 428.

37. Foord, A., Gultekin, K., Runnoe, J., **Koss, M.**, *AGN Triality of Triple Mergers: Detection of Faint X-ray Point Sources*, ApJ, 2021, 907, 72.

36. Foord, A., Gultekin, K., Runnoe, J., **Koss, M.**, *AGN Triality of Triple Mergers: Multi-wavelength Classifications*, ApJ, 907, 71.

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