

Steve Croft

List of Publications by Year in descending order

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76
papers

2,549
citations

186265

28
h-index

197818

49
g-index

78
all docs

78
docs citations

78
times ranked

3458
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Highest Frequency Detection of FRB 121102 at 4–8 GHz Using the Breakthrough Listen Digital Backend at the Green Bank Telescope. <i>Astrophysical Journal</i> , 2018, 863, 2. | 4.5 | 226 |
| 2 | THE SPITZER DEEP, WIDE-FIELD SURVEY. <i>Astrophysical Journal</i> , 2009, 701, 428-453. | 4.5 | 183 |
| 3 | Minkowski's Object: A Starburst Triggered by a Radio Jet, Revisited. <i>Astrophysical Journal</i> , 2006, 647, 1040-1055. | 4.5 | 135 |
| 4 | A sample of 6C radio sources designed to find objects at redshift $z > 4$. III. Imaging and the radio galaxy K -relation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 326, 1585-1600. | 4.4 | 121 |
| 5 | The Allen Telescope Array: The First Widefield, Panchromatic, Snapshot Radio Camera for Radio Astronomy and SETI. <i>Proceedings of the IEEE</i> , 2009, 97, 1438-1447. | 21.3 | 110 |
| 6 | The Breakthrough Listen Search for Intelligent Life: 1.1–1.9 GHz Observations of 692 Nearby Stars. <i>Astrophysical Journal</i> , 2017, 849, 104. | 4.5 | 108 |
| 7 | The local nanohertz gravitational-wave landscape from supermassive black hole binaries. <i>Nature Astronomy</i> , 2017, 1, 886-892. | 10.1 | 99 |
| 8 | The Breakthrough Listen Search for Intelligent Life: Target Selection of Nearby Stars and Galaxies. <i>Publications of the Astronomical Society of the Pacific</i> , 2017, 129, 054501. | 3.1 | 95 |
| 9 | Space Telescope and Optical Reverberation Mapping Project. V. Optical Spectroscopic Campaign and Emission-line Analysis for NGC 5548. <i>Astrophysical Journal</i> , 2017, 837, 131. | 4.5 | 93 |
| 10 | VAST: An ASKAP Survey for Variables and Slow Transients. <i>Publications of the Astronomical Society of Australia</i> , 2013, 30, . | 3.4 | 88 |
| 11 | The Breakthrough Listen Search for Intelligent Life: Observations of 1327 Nearby Stars Over 1.10–3.45 GHz. <i>Astronomical Journal</i> , 2020, 159, 86. | 4.7 | 69 |
| 12 | Breakthrough Listen – A new search for life in the universe. <i>Acta Astronautica</i> , 2017, 139, 98-101. | 3.2 | 59 |
| 13 | The Breakthrough Listen Search for Intelligent Life: A Wideband Data Recorder System for the Robert C. Byrd Green Bank Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 044502. | 3.1 | 58 |
| 14 | The Breakthrough Listen Search for Intelligent Life: Public Data, Formats, Reduction, and Archiving. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 124505. | 3.1 | 51 |
| 15 | THE ALLEN TELESCOPE ARRAY TWENTY-CENTIMETER SURVEY – A 690 DEG ² , 12 EPOCH RADIO DATA SET. I. CATALOG AND LONG-DURATION TRANSIENT STATISTICS. <i>Astrophysical Journal</i> , 2010, 719, 45-58. | 4.5 | 50 |
| 16 | MID-INFRARED VARIABILITY FROM THE SPITZER DEEP WIDE-FIELD SURVEY. <i>Astrophysical Journal</i> , 2010, 716, 530-543. | 4.5 | 46 |
| 17 | SUPPLEMENT: LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914 – (2016, <i>ApJL</i> , 826, L13). <i>Astrophysical Journal</i> , Supplement Series, 2016, 225, 8. | 7.7 | 44 |
| 18 | A DEEP SEARCH FOR PROMPT RADIO EMISSION FROM THE SHORT GRB 150424A WITH THE MURCHISON WIDEFIELD ARRAY. <i>Astrophysical Journal Letters</i> , 2015, 814, L25. | 8.3 | 37 |

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|----|---|------|-----------|
| 19 | The Filamentary Large-Scale Structure around the z=2.16 Radio Galaxy PKS 1138-262. <i>Astronomical Journal</i> , 2005, 130, 867-872. | 4.7 | 36 |
| 20 | Time-domain and spectral properties of pulsars at 154 MHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 908-921. | 4.4 | 35 |
| 21 | THE ALLEN TELESCOPE ARRAY TWENTY-CENTIMETER SURVEY: A 700-SQUARE-DEGREE, MULTI-EPOCH RADIO DATA SET. II. INDIVIDUAL EPOCH TRANSIENT STATISTICS. <i>Astrophysical Journal</i> , 2011, 731, 34. | 4.5 | 34 |
| 22 | Space Telescope and Optical Reverberation Mapping Project. VIII. Time Variability of Emission and Absorption in NGC 5548 Based on Modeling the Ultraviolet Spectrum. <i>Astrophysical Journal</i> , 2019, 881, 153. | 4.5 | 34 |
| 23 | The Breakthrough Listen Search For Intelligent Life Near the Galactic Center. I. <i>Astronomical Journal</i> , 2021, 162, 33. | 4.7 | 34 |
| 24 | Space Telescope and Optical Reverberation Mapping Project. VII. Understanding the Ultraviolet Anomaly in NGC 5548 with X-Ray Spectroscopy. <i>Astrophysical Journal</i> , 2017, 846, 55. | 4.5 | 33 |
| 25 | Numerical Simulations of a Jet-Cloud Collision and Starburst: Application to Minkowski's Object. <i>Astrophysical Journal</i> , 2017, 850, 171. | 4.5 | 33 |
| 26 | SPECTROPOLARIMETRY WITH THE ALLEN TELESCOPE ARRAY: FARADAY ROTATION TOWARD BRIGHT POLARIZED RADIO GALAXIES. <i>Astrophysical Journal</i> , 2011, 728, 57. | 4.5 | 30 |
| 27 | A search for long-time-scale, low-frequency radio transients. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 1944-1953. | 4.4 | 30 |
| 28 | THE ALLEN TELESCOPE ARRAY Pi GHz SKY SURVEY. I. SURVEY DESCRIPTION AND STATIC CATALOG RESULTS FOR THE BOOTES FIELD. <i>Astrophysical Journal</i> , 2010, 725, 1792-1804. | 4.5 | 28 |
| 29 | Radio AGNs in 13,240 Galaxy Clusters from the Sloan Digital Sky Survey. <i>Astrophysical Journal</i> , 2007, 667, L13-L16. | 4.5 | 26 |
| 30 | Imaging and spectroscopy of ultrasteepest spectrum radio sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 378, 551-562. | 4.4 | 26 |
| 31 | Low-Frequency Spectral Energy Distributions of Radio Pulsars Detected with the Murchison Widefield Array. <i>Publications of the Astronomical Society of Australia</i> , 2017, 34, . | 3.4 | 25 |
| 32 | The 6C** sample of steep-spectrum radio sources - I. Radio data, near-infrared imaging and optical spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 373, 1531-1562. | 4.4 | 24 |
| 33 | Analysis of the Breakthrough Listen signal of interest blc1 with a technosignature verification framework. <i>Nature Astronomy</i> , 2021, 5, 1153-1162. | 10.1 | 24 |
| 34 | Space Telescope and Optical Reverberation Mapping Project. XII. Broad-line Region Modeling of NGC 5548. <i>Astrophysical Journal</i> , 2020, 902, 74. | 4.5 | 22 |
| 35 | ALMA Observations of the Interaction of a Radio Jet with Molecular Gas in Minkowski's Object. <i>Astrophysical Journal</i> , 2017, 838, 146. | 4.5 | 21 |
| 36 | Primary Beam and Dish Surface Characterization at the Allen Telescope Array by Radio Holography. <i>IEEE Transactions on Antennas and Propagation</i> , 2011, 59, 2004-2021. | 5.1 | 20 |

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|----|---|------|-----------|
| 37 | THE ALLEN TELESCOPE ARRAY Pi GHz SKY SURVEY II. DAILY AND MONTHLY MONITORING FOR TRANSIENTS AND VARIABILITY IN THE BOA–TES FIELD. <i>Astrophysical Journal</i> , 2011, 739, 76. | 4.5 | 19 |
| 38 | THE ALLEN TELESCOPE ARRAY Pi GHz SKY SURVEY. III. THE ELAIS-N1, COMA, AND LOCKMAN HOLE FIELDS. <i>Astrophysical Journal</i> , 2013, 762, 93. | 4.5 | 19 |
| 39 | A Serendipitous MWA Search for Narrowband Signals from $\hat{\alpha}^{\sim}$ Oumuamua. <i>Astrophysical Journal</i> , 2018, 857, 11. | 4.5 | 19 |
| 40 | The Breakthrough Listen Search for Intelligent Life: Searching for Technosignatures in Observations of TESS Targets of Interest. <i>Astronomical Journal</i> , 2021, 161, 286. | 4.7 | 19 |
| 41 | ASGARD: A LARGE SURVEY FOR SLOW GALACTIC RADIO TRANSIENTS. I. OVERVIEW AND FIRST RESULTS. <i>Astrophysical Journal</i> , 2013, 762, 85. | 4.5 | 18 |
| 42 | The Breakthrough Listen search for intelligent life: Wide-bandwidth digital instrumentation for the CSIRO Parkes 64-m telescope. <i>Publications of the Astronomical Society of Australia</i> , 2018, 35, . | 3.4 | 17 |
| 43 | Breakthrough Listen Observations of 1I/ $\hat{\alpha}^{\sim}$ Oumuamua with the GBT. <i>Research Notes of the AAS</i> , 2018, 2, 9. | 0.7 | 17 |
| 44 | A radio technosignature search towards Proxima Centauri resulting in a signal of interest. <i>Nature Astronomy</i> , 2021, 5, 1148-1152. | 10.1 | 17 |
| 45 | A Search for Extraterrestrial Intelligence (SETI) toward the Galactic Anticenter with the Murchison Widefield Array. <i>Astrophysical Journal</i> , 2018, 856, 31. | 4.5 | 16 |
| 46 | Opportunities to search for extraterrestrial intelligence with the FAST. <i>Research in Astronomy and Astrophysics</i> , 2020, 20, 078. | 1.7 | 14 |
| 47 | A young, dusty, compact radio source within a $Ly\hat{\pm}$ halo. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 389, 792-798. | 4.4 | 13 |
| 48 | The TexOx-1000 redshift survey of radio sources I: the TOOT00 region. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 401, 1709-1759. | 4.4 | 13 |
| 49 | Multiband Detection of Repeating FRB 20180916B. <i>Astrophysical Journal</i> , 2022, 932, 98. | 4.5 | 12 |
| 50 | The Breakthrough Listen Search for Intelligent Life: Searching Boyajian's Star for Laser Line Emission. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 034202. | 3.1 | 11 |
| 51 | Narrow-band Signal Localization for SETI on Noisy Synthetic Spectrogram Data. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 114501. | 3.1 | 11 |
| 52 | TRANSIENT EVENTS IN ARCHIVAL VERY LARGE ARRAY OBSERVATIONS OF THE GALACTIC CENTER. <i>Astrophysical Journal</i> , 2016, 833, 11. | 4.5 | 10 |
| 53 | Detection of a cosmic microwave background decrement towards a cluster of mJy radio sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 331, 1-6. | 4.4 | 9 |
| 54 | RADIO-LOUD HIGH-REDSHIFT PROTOGALAXY CANDIDATES IN BOA–TES. <i>Astronomical Journal</i> , 2008, 135, 1793-1802. | 4.7 | 9 |

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|----|---|-----|-----------|
| 55 | MURCHISON WIDEFIELD ARRAY LIMITS ON RADIO EMISSION FROM ANTARES NEUTRINO EVENTS. <i>Astrophysical Journal Letters</i> , 2016, 820, L24. | 8.3 | 9 |
| 56 | The Breakthrough Listen Search for Intelligent Life: MeerKAT Target Selection. <i>Publications of the Astronomical Society of the Pacific</i> , 2021, 133, 064502. | 3.1 | 9 |
| 57 | The Breakthrough Listen Search for Intelligent Life: Technosignature Search of Transiting TESS Targets of Interest. <i>Astronomical Journal</i> , 2022, 163, 104. | 4.7 | 9 |
| 58 | No Bursts Detected from FRB121102 in Two 5â€%hr Observing Campaigns with the Robert C. Byrd Green Bank Telescope. <i>Research Notes of the AAS</i> , 2018, 2, 30. | 0.7 | 8 |
| 59 | One of Everything: The Breakthrough Listen Exotica Catalog. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 42. | 7.7 | 8 |
| 60 | Searching for Broadband Pulsed Beacons from 1883 Stars Using Neural Networks. <i>Astrophysical Journal</i> , 2022, 932, 81. | 4.5 | 8 |
| 61 | Strategies for Maximizing Detection Rate in Radio SETI. <i>Astronomical Journal</i> , 2021, 162, 151. | 4.7 | 6 |
| 62 | Breakthrough Listen Search for Technosignatures toward the Kepler-160 System. <i>Research Notes of the AAS</i> , 2020, 4, 97. | 0.7 | 5 |
| 63 | Setigen: Simulating Radio Technosignatures for the Search for Extraterrestrial Intelligence. <i>Astronomical Journal</i> , 2022, 163, 222. | 4.7 | 5 |
| 64 | SELF-SUPERVISED ANOMALY DETECTION FOR NARROWBAND SETI. , 2018, , . | | 4 |
| 65 | <i>Breakthrough Listen</i> follow-up of the reported transient signal observed at the Arecibo Telescope in the direction of Ross 128. <i>International Journal of Astrobiology</i> , 2019, 18, 33-35. | 1.6 | 4 |
| 66 | Re-analysis of Breakthrough Listen Observations of FRBâ€%121102: Polarization Properties of Eight New Spectrally Narrow Bursts. <i>Research Notes of the AAS</i> , 2021, 5, 17. | 0.7 | 4 |
| 67 | Primary-Beam Shape Calibration from Mosaicked, Interferometric Observations. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 1510-1517. | 3.1 | 3 |
| 68 | X-RAY OBSERVATIONS OF RADIO TRANSIENTS WITHOUT OPTICAL HOSTS. <i>Astrophysical Journal</i> , 2011, 740, 87. | 4.5 | 3 |
| 69 | THE MULTI-WAVELENGTH EXTREME STARBURST SAMPLE OF LUMINOUS GALAXIES. I. SAMPLE CHARACTERISTICS. <i>Astronomical Journal</i> , 2010, 140, 2052-2069. | 4.7 | 2 |
| 70 | The next phases of SETI@home. <i>Proceedings of SPIE</i> , 2015, , . | 0.8 | 2 |
| 71 | Breakthrough Listen Observations of Asteroid (514107) 2015 BZ₅₀₉ with the Parkes Radio Telescope. <i>Research Notes of the AAS</i> , 2019, 3, 19. | 0.7 | 2 |
| 72 | Breakthrough Listen Follow-up of the Random Transiter (EPIC 249706694/HD 139139) with the Green Bank Telescope. <i>Research Notes of the AAS</i> , 2019, 3, 147. | 0.7 | 2 |

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|----|---|------|-----------|
| 73 | Towards an all-sky radio telescope for SETI. <i>Astronomy and Geophysics</i> , 2019, 60, 2.22-2.26. | 0.2 | 1 |
| 74 | High-redshift clusters from NVSS: the TexOx Cluster (TOC) Survey. <i>New Astronomy Reviews</i> , 2003, 47, 333-337. | 12.8 | 0 |
| 75 | Workshop on Radio Transients. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 272-272. | 0.0 | 0 |
| 76 | Absence of Bursts between 4 and 8 GHz from FRB 20200120E Located in an M81 Globular Cluster. <i>Research Notes of the AAS</i> , 2021, 5, 166. | 0.7 | 0 |