

# EVN publications 2020

## Journal Articles

1. Lulu Fan, Wen Chen, Tao An, Fu-Guo Xie, Yunkun Han, Kirsten K. Knudsen, Jun Yang: [The Hyperluminous, Dust-obscured Quasar W2246-0526 at  \$z = 4.6\$ : Detection of Parsec-scale Radio Activity](#), 2020, *Astrophysical Journal*, 905, L32 (**EY034**)
2. P. Charlot, C. S. Jacobs, D. Gordon, S. Lambert, A. de Witt, J. Böhm, A. L. Fey, R. Heinkelmann, E. Skurikhina, O. Titov, E. F. Arias, S. Bolotin, G. Bourda, C. Ma, Z. Malkin, A. Nothnagel, D. Mayer, D. S. MacMillan, T. Nilsson, R. Gaume: [The third realization of the International Celestial Reference Frame by very long baseline interferometry](#), 2020, *Astronomy and Astrophysics*, 644, A159 (**EC013, EC017**)
3. E. C. Kool, T. M. Reynolds, S. Mattila, E. Kankare, M. A. Pérez-Torres, A. Efstathiou, S. Ryder, C. Romero-Cañizales, W. Lu, T. Heikkilä, G. E. Anderson, M. Berton, J. Bright, G. Cannizzaro, D. Eappachen, M. Fraser, M. Gromadzki, P. G. Jonker, H. Kuncarayakti, P. Lundqvist, K. Maeda, R. M. McDermid, A. M. Medling, S. Moran, A. Reguitti, M. Shahbandeh, S. Tsygankov, V. U. T. Wevers: [AT 2017gbl: a dust obscured TDE candidate in a luminous infrared galaxy](#), 2020, *Monthly Notices of the Royal Astronomical Society*, 498, 2167 (**RP028B**)
4. Qicheng Zhang, Gregg Hallinan, Walter Brisken, Stephen Bourke, Aaron Golden: [Multiepoch VLBI of L Dwarf Binary 2MASS J0746+2000AB: Precise Mass Measurements and Confirmation of Radio Emission from Both Components](#), 2020, *Astrophysical Journal*, 897, 11 (**GH009A**)
5. M. Amiri, B. C. Andersen, K. M. Bandura, M. Bhardwaj, P. J. Boyle, C. Brar, P. Chawla, T. Chen, J. F. Cliche, D. Cubranic, M. Deng, N. T. Denman, M. Dobbs, F. Q. Dong, M. Fandino, E. Fonseca, B. M. Gaensler, U. Giri, D. C. Good, M. Halpern, J. W. T. Hessels, A. S. Hill, C. Höfer, A. Josephy, J. W. Kania, R. Karuppusamy, V. M. Kaspi, A. Keimpema, F. Kirsten, T. L. Landecker, D. A. Lang, C. Leung, D. Z. Li, H. -H. Lin, B. Marcote, K. W. Masui, R. McKinven, J. Mena-Parra, M. Merryfield, D. Michilli, N. Milutinovic, A. Mirhosseini, A. Naidu, L. B. Newburgh, C. Ng, K. Nimmo, Z. Paragi, C. Patel, U. -L. Pen, T. Pinsonneault-Marotte, Z. Pleunis, M. Rafiei-Ravandi, M. Rahman, S. M. Ransom, A. Renard, P. Sanghavi, P. Scholz, J. R. Shaw, K. Shin, S. R. Siegel, S. Singh, R. J. Smegal, K. M. Smith, I. H. Stairs, S. P. Tendulkar, I. Tret'yakov, K. Vanderlinde, H. Wang, X. Wang, D. Wulf, P. Yadav, A. V. Zwaniga: [Periodic activity from a fast radio burst source](#), 2020, *Astrophysical Journal*, 582, 351 (**EM135**)
6. M. Giroletti, U. Munari, E. Körding, A. Mioduszewski, J. Sokoloski, C. C. Cheung, S. Corbel, F. Schinzel, K. Sokolovsky, T. J. O'Brien: [Very long baseline interferometry imaging of the advancing ejecta in the first gamma-ray nova V407 Cygni](#), 2020, *Astronomy and Astrophysics*, 638, A130 (**RG006A, RG006B**)
7. H. Chen, M. A. Garrett, S. Chi, A. P. Thomson, P. D. Barthel, D. M. Alexander, T. W. B. Muxlow, R. J. Beswick, J. F. Radcliffe, N. H. Wrigley, D. Guidetti, M. Bondi, I. Prandoni, I. Smail, I. McHardy, M. K. Argo: [Searching for obscured AGN in  \$z \sim 2\$  submillimetre galaxies](#), 2020, *Astronomy and Astrophysics*, 638, A113 (**EC029A, EC029B**)
8. Hao Peng, Zhongzu Wu, Bo Zhang, Yongjun Chen, Xingwu Zheng, Dongrong Jiang, Zhiqiang Shen, Xi Chen, Yu. V. Sotnikova: [Radio properties of the OH megamaser galaxy IRAS 02524+2046](#), 2020, *Astronomy and Astrophysics*, 638, A78 (reanalyzed archive **GD018** from 4 March 2005)
9. T. W. B. Muxlow, A. P. Thomson, J. F. Radcliffe, N. H. Wrigley, R. J. Beswick, Ian Smail, I. M. McHardy, S. T. Garrington, R. J. Ivison, M. J. Jarvis, I. Prandoni, M. Bondi, D. Guidetti, M. K. Argo, David Bacon, P. N. Best, A. D. Biggs, S. C. Chapman, K. Coppin, H. Chen, T. K. Garratt, M. A. Garrett, E. Ibar, Jean-Paul Kneib, Kirsten K. Knudsen, L. V. E. Koopmans, L. K. Morabito, E. J. Murphy, A. Njeri, Chris Pearson, M. A. Pérez-Torres, A. M. S. Richards, H. J. A. Röttgering, M. T. Sargent, Stephen Serjeant, C. Simpson, J. M. Simpson, A. M. Swinbank, E. Varenus, T. Venturi: [The e-MERGE Survey \(e-MERLIN Galaxy Evolution Survey\): overview and survey description](#), 2020, *Monthly Notices of the Royal Astronomical Society*, 495, 1188 (**EG078B**)
10. Alexander Plavin, Yuri Y. Kovalev, Yuri A. Kovalev, Sergey Troitsky: [Observational Evidence for the Origin of High-energy Neutrinos in Parsec-scale Nuclei of Radio-bright Active Galaxies](#), 2020, *Astrophysical Journal*, 894, 101 (using also reanalyzed EVN published earlier: observations from 2009 Oct. 27-29 published by Petrov (2012), and **GC034A-F** published by Petrov (2013))
11. G. Surcis, A. Tarchi, P. Castangia: [VLBI observations of the H<sub>2</sub>O gigamaser in TXS 2226-184](#), 2020, *Astronomy and Astrophysics*, 637, A57 (**ES084**)
12. A. Bartkiewicz, A. Sanna, M. Szymczak, L. Moscadelli, H. J. van Langevelde, P. Wolak: [The nature of the methanol maser ring G23.657-00.127. II. Expansion of the maser structure](#), 2020, *Astronomy and Astrophysics*, 637, A15 (**EN003, EB052**)

13. Jun Yang, Leonid I. Gurvits, Zsolt Paragi, Sándor Frey, John E. Conway, Xiang Liu, Lang Cui: [A parsec-scale radio jet launched by the central intermediate-mass black hole in the dwarf galaxy SDSS J090613.77+561015.2](#), 2020, Monthly Notices of the Royal Astronomical Society, 495, L71 (**RSY05, EY029**)
14. Jun Yang, Zsolt Paragi, Tao An, Willem A. Baan, Prashanth Mohan, Xiang Liu: [A two-sided but significantly beamed jet in the supercritical accretion quasar IRAS F11119+3257](#), 2020, Monthly Notices of the Royal Astronomical Society, 494, 1744 (**EY024B, RSY04**)
15. H. R. Stacey, A. Lafontaine, J. P. McKean: [Smoke on the water: CO and H<sub>2</sub>O in a circumnuclear disc around a quasar at redshift 2.64](#), 2020, Monthly Notices of the Royal Astronomical Society, 493, 5290 (**GW019**)
16. E. V. Kravchenko, J. L. Gómez, Y. Y. Kovalev, A. P. Lobanov, T. Savolainen, G. Bruni, A. Fuentes, J. M. Anderson, S. G. Jorstad, A. P. Marscher, M. Tornikoski, A. Lähteenmäki, M. M. Lisakov: [Probing the Innermost Regions of AGN Jets and Their Magnetic Fields with RadioAstron. III. Blazar S5 0716+71 at Microarcsecond Resolution](#), 2020, Astrophysical Journal, 893, 68 (**GL041**)
17. T. Danilovich, A. M. S. Richards, L. Decin, M. Van de Sande, C. A. Gottlieb: [An ALMA view of SO and SO<sub>2</sub> around oxygen-rich AGB stars](#), 2020, Monthly Notices of the Royal Astronomical Society, 494, 1323 (Fig. 15 shows previously unpublished EVN data from 1999; see also the middle of Sect. 3.2.1)
18. P. Atri, J. C. A. Miller-Jones, A. Bahramian, R. M. Plotkin, A. T. Deller, P. G. Jonker, T. J. Maccarone, G. R. Sivakoff, R. Soria, D. Altamirano, T. Belloni, R. Fender, E. Koerding, D. Maitra, S. Markoff, S. Migliari, D. Russell, T. Russell, C. L. Sarazin, A. J. Tetarenko, V. Tudose: [A radio parallax to the black hole X-ray binary MAXI J1820+070](#), 2020, Monthly Notices of the Royal Astronomical Society, 493, L81 (**EA062**)
19. Saghar Asadi, Erik Zackrisson, Eskil Varenius, Emily Freeland, John Conway, Kaj Wiik: [The case against gravitational millilensing in the multiply-imaged quasar B1152+199](#), 2020, Monthly Notices of the Royal Astronomical Society, 492, 742 (archival and new data: **EJ010, EZ024, GA036**)
20. M. Olech, M. Szymczak, P. Wolak, E. Gérard, A. Bartkiewicz: [Long-term multi-frequency maser observations of the intermediate-mass young stellar object G107.298+5.639](#), 2020, Astronomy and Astrophysics, 634, A41 (**ES083, ES076, ES079A-C**)
21. B. Marcote, K. Nimmo, J. W. T. Hessels, S. P. Tendulkar, C. G. Bassa, Z. Paragi, A. Keimpema, M. Bhardwaj, R. Karuppusamy, V. M. Kaspi, C. J. Law, D. Michilli, K. Aggarwal, B. Andersen, A. M. Archibald, K. Bandura, G. C. Bower, P. J. Boyle, C. Brar, S. Burke-Spolaor, B. J. Butler, T. Cassanelli, P. Chawla, P. Demorest, M. Dobbs, E. Fonseca, U. Giri, D. C. Good, K. Gourdji, A. Josephy, A. Yu. Kirichenko, F. Kirsten, T. L. Landecker, D. Lang, T. J. W. Lazio, D. Z. Li, H. -H. Lin, J. D. Linford, K. Masui, J. Mena-Parra, A. Naidu, C. Ng, C. Patel, U. -L. Pen, Z. Pleunis, M. Rafiei-Ravandi, M. Rahman, A. Renard, P. Scholz, S. R. Siegel, K. M. Smith, I. H. Stairs, K. Vanderlinde, A. V. Zwaniga: [A repeating fast radio burst source localized to a nearby spiral galaxy](#), 2020, Nature, 577, 190 (**EM135C**)
22. R. A. Burns, G. Orosz, O. Bayandina, G. Surcis, M. Olech, G. MacLeod, A. Volvach, G. Rudnitskii, T. Hirota, K. Immer, J. Blanchard, B. Marcote, H. J. van Langevelde, J. O. Chibueze, K. Sugiyama, Kee-Tae Kim, I. Val'ts, N. Shakhvorostova, B. Kramer, W. A. Baan, C. Brogan, T. Hunter, S. Kurtz, A. M. Sobolev, J. Brand, L. Volvach: [VLBI observations of the G25.65+1.05 water maser superburst](#), 2020, Monthly Notices of the Royal Astronomical Society, 491, 4069 (**RB004**)
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24. Evgeniya V. Kravchenko, José L. Gómez, Yuri Y. Kovalev, Petr A. Voitsik: [The jet of S5 0716 + 71 at  \$\mu\$ as scales with RadioAstron](#), 2020, Advances in Space Research, 65, 720 (**GL041**)
25. Gabriele Bruni, Tuomas Savolainen, Jose Luis Gómez, Andrei P. Lobanov, Yuri Y. Kovalev: [Active galactic nuclei imaging programs of the RadioAstron mission](#), 2020, Advances in Space Research, 65, 712 (Table 1 lists codes for the global VLBI projects observed)

## Other

1. Vidhya Pallichadath, Tatiana Bocanegra Bahamon, Giuseppe Cimò, Dominic Dirx, Dmitry Duev, Leonid Gurvits, Guifré Molera Calvés, Bert Vermeersen: [PRIDE: Ground-based VLBI observations for Spaceborne Probes](#), 2020, 14th Europlanet Science Congress 2020, EPSC2020-647 (related to e.g. **V0427, V0429, V0430, V0501, V0323**)
2. B. Marcote, M. Ribó, J. M. Paredes, M. Giroletti, S. Giarratana, G. Ghirlanda: [GRB 201015A: 5-GHz radio afterglow detection with the EVN](#), 2020, GRB Coordinates Network, No. 29028 (**RM016**)
3. Marcello Giroletti, Hongmin Cao, Tao An, Giulia Migliori, Sandor Frey, Krisztina Gabanyi, Lang Cui, Jun Yang, Xiaoyu Hong, Wenda Zhang, Bo Xia: [EVN 6.7 GHz detection of AT2019wey on milliarcsecond scales](#), 2020, The

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4. Patrik Milán Veres, Krisztina Éva Gabányi, Sándor Frey: [Very Long Baseline Interferometry Observations of the Proposed Radio Counterpart of an EGRET Source](#), 2020, *Symmetry*, 12, 1516 (**EF025**)
5. K. Nimmo, B. Marcote, J. W. T. Hessels, U. Bach, M. Jenkins, R. Karuppusamy, F. Kirsten, Z. Paragi, M. Snelders: [A search for persistent radio emission and millisecond-duration radio bursts from SGR 1935+2154 using the European VLBI Network](#), 2020, *The Astronomer's Telegram*, No. 13786 (**RN001**)
6. Máté Krezinger, Sándor Frey, Zsolt Paragi, Roger Deane: [High-Resolution Radio Observations of Five Optically Selected Type 2 Quasars](#), 2020, *Symmetry*, 12, 527 (**EP093**)
7. Anna Bartkiewicz, Marian Szymczak, Michał Durjasz, Mateusz Olech, Rafał Sarniak, Paweł Wolak, Agnieszka Kobak: [Toruń Maser Group Highlights](#), 2020, *Proceedings of the Polish Astronomical Society*, 10, 166 (incl. maser research with the **EVN**)
8. M. E. Gomez, P. Charlot, R. Campbell, M. Kettenis, A. Keimpema: [Geodesy at K-band with the European VLBI Network](#), 2020, *Proceedings of the Journées 2019 "Astrometry, Earth Rotation, and Reference Systems in the GAIA era"*, 185 (Geodesy with the **EVN**)
9. M. Santander-García, B. Tercero, M. Gómez-Garrido, M. J. Jiménez Donaire, P. Tarrío, A. Chacón-Tanarro, G. Esplugues, J. González, F. Beltrán, A. González, P. de Vicente: [Yebes RT40m: a radiotelescope in a village of La Mancha \(or almost\)](#), 2020, XIV Scientific Meeting (virtual) of the Spanish Astronomical Society, 242 (incl. Ys as an **EVN** station)
10. F. Colomer: [VLBI20-30: A scientific roadmap for the next decade](#), 2020, XIV Scientific Meeting (virtual) of the Spanish Astronomical Society, 221 (about the **EVN Vision Document**)
11. B. Boccardi, M. Perucho, C. Casadio, P. Grandi, D. Macconi, E. Torresi, S. Pellegrini, T. P. Krichbaum, M. Kadler, G. Giovannini, V. Karamanavis, L. Ricci, E. Madika, U. Bach, E. Ros, M. Giroletti, J. A. Zensus: [Jet collimation in NGC 315 and other nearby AGN](#), 2020, arXiv:2012.14831 (**ES049B**)
12. Michael F. Bietenholz, N. Bartel, M. Argo, R. Dua, S. Ryder, A. Soderberg: [The Radio Luminosity-Risetime Function of Core-Collapse Supernovae](#), 2020, arXiv:2011.11737 (reusing previously published **EVN** data as well)
13. R. Schulz, R. Morganti, K. Nyland, Z. Paragi, E. K. Mahony, T. Oosterloo: [The parsec-scale HI outflows in powerful radio galaxies](#), 2020, arXiv:2010.05996 (**GN002**)
14. K. Nimmo, J. W. T. Hessels, A. Keimpema, A. M. Archibald, J. M. Cordes, R. Karuppusamy, F. Kirsten, D. Z. Li, B. Marcote, Z. Paragi: [Highly polarised microstructure from the repeating FRB 20180916B](#), 2020, arXiv:2010.05800 (**EM135**)
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17. Tiziana Venturi, Zsolt Paragi, Michael Lindqvist, Anna Bartkiewicz, Rob Beswick, Tamara Bogdanović, Walter Bricken, Patrick Charlot, Francisco Colomer, John Conway, Sándor Frey, José Carlos Guirado, Leonid Gurvits, Huib van Langevelde, Andrei Lobanov, John McKean, Raffaella Morganti, Tom Muxlow, Miguel Pérez-Torres, Kazi Rygl, Robert Schulz, Arpad Szomoru, Pablo de Vicente, Tao An, Guillem Anglada, Megan Argo, Rebecca Azulay, Ilse van Bommel, Tatiana Bocanegra, Biagina Boccardi, Paola Castangia, James Chibueze, Giuseppe Cimò, Juan-Bautista Climent, Roger Deane, Adam Deller, Richard Dodson, Dmitry Duev, Sandra Etoke, Danielle Fenech, Krisztina Gabányi, Denise Gabuzda, Michael Garrett, Marcin Gawroński, Giancarlo Ghirlanda, Marcello Giroletti, Ciriaco Goddi, Jose Luis Gómez, Malcolm Gray, Jane Greaves, Jason Hessels, Alexander van der Horst, Todd Hunter, Robert Laing, Dharam Vir Lal, Sébastien Lambert, Laurent Loinard, Benito Marcote, Andrea Merloni, James Miller-Jones, Guifré Molera Calvés, Luca Moscadelli, Hans Olofsson, Leonid Petrov, Roberto Pizzo, Andrea Possenti, Luis Henry Quiroga-Nuñez, Cormac Reynolds, Anita Richards, Maria Rioja, Alberto Sanna, Tuomas Savolainen, Tullia Sbarrato, Cristiana Spingola, Gabriele Surcis, Corrado Trigilio, Eskil Varenius, Wouter Vlemmings, Sjoert van Velzen, Johan van der Walt: [VLBI20-30: a scientific roadmap for the next decade -- The future of the European VLBI Network](#), 2020, arXiv:2007.02347 (**EVN Vision Document**)
18. Marcellin Atemkeng, Patrice M. Okouma, Eric Maina, Roger Ianjamasimanana, Serges Zambou: [Filling the uv-gaps of the current VLBI network in Africa](#), 2020, arXiv:2003.08642 (incl. **EVN** & **AVN**)
19. J. G. Bij de Vaate, L. I. Gurvits, S. V. Pogrebenko, C. G. M. van t Klooster: [Spacecraft Tracking Applications of the Square Kilometre Array](#), 2020, arXiv:2002.10024 (late e-print for a paper 16 years back; some **EVN**-SKA relevance for space tracking)
20. Leonid I. Gurvits, Robert Beswick, Melvin Hoare, Ann Njeri, Jay Blanchard, Carla Sharpe, Adrian Tiplady, Aletha de Witt: [High-resolution radio astronomy: an outlook for Africa](#), 2020, arXiv:2001.04576 (incl. **EVN** & **AVN**)



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1. Aaron B. Pearlman, Walid A. Majid, Thomas A. Prince, Kenzie Nimmo, Jason W. T. Hessels, Charles J. Naudet, Jonathon Kocz: [Multiwavelength Radio Observations of Two Repeating Fast Radio Burst Sources: FRB 121102 and FRB 180916.J0158+65](#), 2020, *Astrophysical Journal*, 905, L27 (Cites EVN results)
2. Rahul Basu, Dipanjan Mitra, George I. Melikidze: [Search for Off-pulse Emission in Long-period Pulsars](#), 2020, *Astrophysical Journal*, 905, 30 (Cites EVN results)
3. F. Kirsten, M. P. Snelders, M. Jenkins, K. Nimmo, J. van den Eijnden, J. W. T. Hessels, M. P. Gawroński, J. Yang: [Detection of two bright radio bursts from magnetar SGR 1935 + 2154](#), 2020, Accepted for publication in *Nature Astronomy* (Results from EVN telescopes Wb1, On & Tr, but not an EVN experiment)
4. M. Gendron-Marsolais, J. Hlavacek-Larrondo, R. J. van Weeren, L. Rudnick, T. E. Clarke, B. Sebastian, T. Mroczkowski, A. C. Fabian, K. M. Blundell, E. Sheldahl, K. Nyland, J. S. Sanders, W. M. Peters, H. T. Intema: [High-resolution VLA low radio frequency observations of the Perseus cluster: radio lobes, mini-halo, and bent-jet radio galaxies](#), 2020, *Monthly Notices of the Royal Astronomical Society*, 499, 5791 (Cites an EVN Symposium paper)
5. E. Troja, H. van Eerten, B. Zhang, G. Ryan, L. Piro, R. Ricci, B. O'Connor, M. H. Wieringa, S. B. Cenko, T. Sakamoto: [A thousand days after the merger: Continued X-ray emission from GW170817](#), 2020, *Monthly Notices of the Royal Astronomical Society*, 498, 5643 (Cites EVN results; Table 2 list results)
6. P. Scholz, A. Cook, M. Cruces, J. W. T. Hessels, V. M. Kaspi, W. A. Majid, A. Naidu, A. B. Pearlman, L. G. Spitler, K. M. Bandura, M. Bhardwaj, T. Cassanelli, P. Chawla, B. M. Gaensler, D. C. Good, A. Josephy, R. Karuppusamy, A. Keimpema, A. Yu. Kirichenko, F. Kirsten, J. Kocz, C. Leung, B. Marcote, K. Masui, J. Mena-Parra, M. Merryfield, D. Michilli, C. J. Naudet, K. Nimmo, Z. Pleunis, T. A. Prince, M. Raffei-Ravandi, M. Rahman, K. Shin, K. M. Smith, I. H. Stairs, S. P. Tendulkar, K. Vanderlinde: [Simultaneous X-Ray and Radio Observations of the Repeating Fast Radio Burst FRB ~ 180916.J0158+65](#), 2020, *Astrophysical Journal*, 901, 165 (Cites EVN results)
7. S. F. Likhachev, I. A. Girin, V. Yu. Avdeev, A. S. Andrianov, M. N. Andrianov, V. I. Kostenko, V. A. Ladygin, A. O. Lyakhovets, I. D. Litovchenko, A. G. Rudnitskiy, M. A. Shchurov, N. D. Utkin, V. A. Zuga: [Astro Space Locator - A software package for VLBI data processing and reduction](#), 2020, *Astronomy and Computing*, 33, 100426 (paper not available)
8. Fabio De Colle, Wenbin Lu: [Jets from Tidal Disruption Events](#), 2020, *New Astronomy Reviews*, 89, 101538 (Cites EVN results)
9. V. R. Marthi, T. Gautam, D. Z. Li, H. -H. Lin, R. A. Main, A. Naidu, U. -L. Pen, R. S. Wharton: [Detection of 15 bursts from the fast radio burst 180916.J0158+65 with the upgraded Giant Metrewave Radio Telescope](#), 2020, *Monthly Notices of the Royal Astronomical Society*, 499, L16 (Cites EVN results; Fig. 4 shows EVN position)
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11. Salvador Curiel, Gisela N. Ortiz-León, Amy J. Mioduszewski, Rosa M. Torres: [An Astrometric Planetary Companion Candidate to the M9 Dwarf TVLM 513-46546](#), 2020, *Astronomical Journal*, 160, 97 (Cites EVN results; Fig. 5 with EVN data)
12. María J. Rioja, Richard Dodson: [Precise radio astrometry and new developments for the next-generation of instruments](#), 2020, *Astronomy and Astrophysics Review*, 28, 6 (Extensive references to EVN and also to EVN results)
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