

James M. Moran
Most Cited Papers (as of October 22, 2018)

1. Miyoshi, M., Moran, J., Herrnstein, J., Greenhill, L.J., Nakai, N., Diamond, P.J., and Inoue, M., “Evidence for a Massive Black Hole from High Rotation Velocities in a Sub-Parsec Region of NGC4258,” *Nature*, **373**, 127–129 (1995). [930]
2. Thompson, A.R., Moran, J.M., and Swenson, G.W., *Interferometry and Synthesis in Radio Astronomy* (Wiley–Interscience, NY), 1986, 528 pages. Russian edition, 1989. Reprinted by Krieger (Melbourne, FL), 1992. Second edition (Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany), 2001, 692 pages. Third edition (Springer International Publishing AG, Switzerland), 2017, 872 pages. [883]
3. Ho, P.T.P., Moran, J.M., and Lo, K.-Y., “The Submillimeter Array,” *ApJL*, **616**, L1–L6 (2004). [453]
4. Doleman, S.S., Weintroub, J., Rogers, A.E.E., Plambeck, R., Freund, R., Tilanus, R.P.J., Friberg, P., Ziurys, L.M., Moran, J.M., Corey, B., Young, K.H., Smythe, D.L., Titus, M., Marrone, D.P., Cappallo, R.J., Bock, D.C.-J., Bower, G.C., Chamberlin, R., Davis, G.R., Krichbaum, T.P., Lamb, J., Maness, H., Niell, A.E., Roy, A., Strittmatter, P., Werthimer, D., Whitney, A.R., Woody, D., “Event-Horizon-Scale Structure in the Supermassive Black Hole Candidate at the Galactic Centre,” *Nature*, **455**, 78–80 (2008). [444]
5. Genzel, R., Reid, M.J., Moran, J.M., and Downes, D., “Proper Motions and Distances of H₂O Maser Sources I: The Outflow in Orion–KL,” *ApJ*, **244**, 884–902 (1981). [436]
6. Herrnstein, J.R., Moran, J.M., Greenhill, L.J., Diamond, P.J., Inoue, M., Nakai, N., Miyoshi, M., Henkel, C., and Riess, A., “A Geometric Distance to the Galaxy NGC 4258 from Orbital Motions in a Nuclear Gas Disk,” *Nature*, **400**, 539–541 (1999). [348]
7. Reid, M.J., and Moran, J.M., “Masers,” *Annual Review of Astronomy and Astrophysics*, **19**, 231–276 (1981). [306]
8. Rodríguez, L.F., Moran, J.M., Ho, P.T.P., and Gottlieb, E.W., “Radio Observations of Water Vapor, Hydroxyl, Silicon Monoxide, Ammonia, Carbon Monoxide, and Compact H II Regions in the Vicinities of Herbig-Haro Objects,” *ApJ*, **235**, 845–865 (1980). [278]
9. Reid, M.J., Haschick, A.D., Burke, B.F., Moran, J.M., Johnston, K.J., and Swenson, G.W., “The Structure of Interstellar Hydroxyl Masers: VLBI Synthesis Observations of W3(OH),” *ApJ*, **239**, 89–111 (1980). [216]
10. Doleman, S.S., Fish, V.L., Schenck, D.E., Beaudoin, C., Blundell, R., Bower, G.C., Broderick, A.E., Chamberlin, R., Freund, R., Friberg, P., Gurwell, M.A., Ho, P.T.P., Honma, M., Inoue, M., Krichbaum, T.P., Lamb, J., Loeb, A., Lonsdale, C., Marrone, D.P., Moran, J.M., Oyama, T., Plambeck, R., Primiani, R.A., Rogers, A.E.E., Smythe, D.L., SooHoo, J., Strittmatter, P., Tilanus, R.P.J., Titus, M., Weintroub, J., Wright, M., Young, K.H., and Ziurys, L.M., “Jet-Launching Structure Resolved Near the Supermassive Black Hole in M87,” *Science*, **338**, 355–358 (2012). [215]
11. Greenhill, L.J., Booth, R.S., Ellingsen, S.P., Herrnstein, J.R., Jauncey, D.L., McCulloch, P.M., Moran, J.M., Norris, R.P., Reynolds, J.E., and Tzioumis, A.K., “A Warped Accretion Disk and Wide Angle Outflow in the Inner Parsec of the Circinus Galaxy,” *ApJ*, **590**, 162–173 (2003). [209]

12. Patel, N.A., Curiel, S., Sridharan, T.K., Zhang, Q., Hunter, R.R., Ho, P.T.P., Torrelles, J.M., Moran, J.M., Gómez, J.F., and Anglada, G., “A Disk of Dust and Molecular Gas Around a High-Mass Protostar,” *Nature*, **437**, 109–115 (2005). [203]
13. Greenhill, L.J., Jiang, R.D., Moran, J.M., Reid, M.J., Lo, K.-Y., and Claussen, M.J., “Detection of a Subparsec Diameter Disk in the Nucleus of NGC 4258,” *ApJ*, **440**, 619–627 (1995). [200]
14. Reid, M.J., Schneps, M.H., Moran, J.M., Gwinn, C.R., Genzel, R., Downes, D., and Rönnäng, B., “The Distance to the Center of the Galaxy: H₂O Maser Proper Motions in Sagittarius B2(N),” *ApJ*, **330**, 809–816 (1988). [200]
15. Gwinn, C.R., Moran, J.M., and Reid, M.J., “Distance and Kinetics of the W49N H₂O Maser Outflow,” *ApJ*, **393**, 149–164 (1992). [192]
16. Torrelles, J.M., Rodríguez, L.F., Cantó, J., Carral, P., Marcaide, J., Moran, J.M., and Ho, P.T.P., “Are Interstellar Toroids the Focusing Agent of the Bipolar Molecular Outflows?” *ApJ*, **274**, 214–230 (1983). [184]
17. Marrone, D.P., Moran, J.M., Zhao, J.-H., and Rao, R., “An Unambiguous Detection of Faraday Rotation in Sagittarius A*,” *ApJL*, **654**, L57–L60 (2007). [172]
18. Garay, G., Moran, J.M., and Reid, M.J., “Compact Continuum Radio Sources in the Orion Nebula,” *ApJ*, **314**, 535–550 (1987). [170]
19. Eckart, A., Baganoff, F.K., Schödel, R., Morris, M., Genzel, R., Bower, G.C., Marrone, D., Moran, J.M., Viehmann, T., Bautz, M.W., Brandt, W.N., Garmier, G.P., Ott, T., Trippe, S., Ricker, G.R., Straubmeier, C., Roberts, D.A., Yusef-Zadeh, F., Zhao, J.-H., and Rao, R., “The Flare Activity of Sgr A*: New Coordinated mm to X-Ray Observations,” *Astron. and Astrophys.*, **450:2**, 535–555 (2006). [167]
20. Rodríguez, L.F., Ho, P.T.P., and Moran, J.M., “Anisotropic Mass Outflow in Cepheus A,” *ApJL*, **240**, L149–L152 (1980). [162]