

22 January, 2019

## BIBLIOGRAPHY

Robert W. O'Connell

- DOCTORAL THESIS: *The Stellar Content of M82*, California Institute of Technology, 1970.  
W. L. W. Sargent and J. B. Oke, advisors.
- O'Connell, R. W., and Kraft, R. P., "On the Internal Kinematics of Two Compact Galaxies," *Astrophys. J.*, **175**, 335, 1972.
- O'Connell, R. W., and Saslaw, W. C., "Photometry of Markarian 205," *Astrophys. J. Letters*, **176**, L109, 1972.
- O'Connell, R. W., "Absolute Spectral Energy Distributions of Common Stellar Types," *Astron. J.*, **78**, 1074, 1973.
- O'Connell, R. W., Scargle, J. D., and Sargent, W. L. W., "The Nature of Hoag's Object," *Astrophys. J.*, **191**, 61, 1974.
- O'Connell, R. W., "Giant Dominance in E/S0 Galaxies," *Astrophys. J. Letters*, **193**, L49, 1974.
- The Invisible Universe*, a 16-mm public information film describing radio astronomy and the National Radio Astronomy Observatory. Written, produced and directed by G. S. Shostak, R. W. O'Connell, and R. A. Sramek, 1974, under contract with N.R.A.O. and Associated Universities, Inc.
- O'Connell, R. W., Saslaw, W. C., and Turner, B. E., "On the Absence of Detectable Formaldehyde in the Direction of Centaurus A," *Monthly Notices Royal Astron. Soc.*, **170**, 29P, 1975.
- Arp, H. C., and O'Connell, R. W., "Properties of Two Blue Compact Galaxies," *Astrophys. J.*, **197**, 291, 1975.
- Anderson, C. M., Henize, K. G., Jenkins, E. B., O'Connell, R. W., and Smith, A. M., *Report of the Facility Definition Team for the Spacelab UV-Optical Telescope Facility*, (NASA-Goddard Space Flight Center), 1975.
- O'Connell, R. W., "Cool Stellar Populations in E/S0 Galaxies and a Possible Outburst in M87," *Astrophys. J. Letters*, **203**, L1, 1976.
- O'Connell, R. W., "Galaxy Spectral Synthesis I: Stellar Populations in the Nuclei of Giant Ellipticals," *Astrophys. J.*, **206**, 370, 1976.
- O'Connell, R. W., and Mangano, J. J., "The Central Regions of M82," *Astrophys. J.*, **221**, 62, 1978.
- O'Connell, R. W., and Kingham, K., "Two Zwicky Compact Galaxies with Broad Emission Lines," *Publ. Astron. Soc. Pacific*, **90**, 244, 1978.
- O'Connell, R. W., Thuan, T. X., and Goldstein, S. J., "Star Formation in II Zw 70," *Astrophys. J. Letters*, **226**, L11, 1978.
- O'Connell, R. W., and Dressel, L. L., "The Incidence of Ionized Gas in E/S0 Galaxies," *Nature*, **276**, 374, 1978.
- O'Connell, R. W., Anderson, C. M., Carruthers, G., Henize, K. G., Jenkins, A., Smith, A. M., Smith, B. A., and Stecher, T. P., *STARLAB UV-Optical Telescope Facility, A Summary Volume*, (NASA-Goddard Space Flight Center) 1979.
- Kingham, K. A., and O'Connell, R. W., "Variability of NGC 1275," *Astron. J.*, **84**, 1537, 1979.
- O'Connell, R. W., "Kinematics of Blue Compact Galaxies," in *Photometry, Kinematics, and Dynamics of Galaxies*, ed. D. S. Evans (Austin: University of Texas), p. 183, 1979.

- O'Connell, R. W., "Galaxy Spectral Synthesis II: M32 and the Ages of Galaxies," *Astrophys. J.*, **236**, 430, 1980.
- O'Connell, R. W., "The Scientific Role of STARLAB Imaging," A Report to the Committee on Space Astronomy and Astrophysics of the National Academy of Sciences, 1981.
- Dressel, L. L., Bania, T. M., and O'Connell, R. W., "A Search for HI in Elliptical Galaxies with Nuclear Radio Sources," in *I.A.U. Symposium No. 97: Extragalactic Radio Sources*, eds. D. S. Heeschen and C. M. Wade (Dordrecht: Reidel), p. 309, 1982.
- Probst, R. G., and O'Connell, R. W., "The Luminosity Function of Very Low Mass Stars," *Astrophys. J. Letters*, **252**, L69, 1982.
- O'Connell, R. W., "Metallicity Versus Age in Spiral Nuclei," *Astrophys. J.*, **257**, 89, 1982.
- Dressel, L. L., Bania, T. M., and O'Connell, R. W., "Neutral Hydrogen in Elliptical Galaxies with Nuclear Radio Sources and Optical Emission Lines," *Astrophys. J.*, **259**, 55, 1982.
- Dopita, M. A., Jenkins, E. B., and O'Connell, R. W. (eds), *STARLAB: An Australia-Canada-U.S.A. Orbiting Telescope; Project Concept and Scientific Goals*, (Charlottesville: University of Virginia), 1982.
- Sarazin, C. L., and O'Connell, R. W., "Accretion-Driven Star Formation in Central Dominant Galaxies in X-Ray Clusters," *Astrophys. J.*, **268**, 552, 1983.
- O'Connell, R. W., "Star Formation in the Semistellar Nucleus of M33," *Astrophys. J.*, **267**, 80, 1983.
- O'Connell, R. W., "Long Wavelength Rejection and STARLAB UV Imaging," Report to the STARLAB Joint Science Working Group, 1983.
- O'Connell, R. W., "Stellar Populations in the Nuclei of Spiral Galaxies," in *Highlights of Astronomy*, ed. R. M. West (Dordrecht: Reidel), p. 147, 1983. (Invited review.)
- Weistrop, D. Williams, J. T., Boggess, A., Hallam, K. L., Klingle-Smith, D. A., and O'Connell, R. W., "MOSAIC: A Large Area, Photon Counting Detector for the Space Ultraviolet," *Amer. Astron. Soc. Photo-Bulletin*, No. 35, 3, 1984.
- Bohlin, R. C., Cornett, R. H., Hill, J. K., Hill, R. S., O'Connell, R. W., and Stecher, T. P., "Images in the Rocket Ultraviolet: The Stellar Population in the Central Bulge of M31," *Astrophys. J. Letters*, **298**, L37, 1985.
- O'Connell, R. W., "Ultraviolet Imaging Telescope: Scientific Programs," in *ASTRO Principal Investigator Scientific Programs* (Washington: NASA), 1985.
- O'Connell, R. W., "Analysis of Stellar Populations at Large Lookbacks," in *The Spectral Evolution of Galaxies*, eds. C. Chiosi and A. Renzini (Dordrecht: Reidel), p. 321, 1986. (Invited review.)
- O'Connell, R. W., "Nuclei of Normal Galaxies," *Publ. Astron. Soc. Pacific*, **98**, 163, 1986. (Invited review.)
- O'Connell, R. W., Thuan, T. X., and Puschell, J. J. "The Strong UV Source in the Active E Galaxy NGC 4552," *Astrophys. J. Letters*, **303**, L37, 1986.
- Crocker, D. A., Rood, R. T., and O'Connell, R. W., "Horizontal Branch Stars in NGC 6752 with Strong He Lines," *Astrophys. J. Letters*, **309**, L23, 1986.
- O'Connell, R. W., "Population Synthesis in Early Type Galaxies," in *Stellar Populations*, eds. C. A. Norman, A. Renzini, and M. Tosi (Cambridge: Cambridge University Press), p. 167, 1986. (Invited review.)
- O'Connell, R. W., "Star Formation in Cooling Flows," in *IAU Symposium No. 127: Structure and Dynamics of Elliptical Galaxies*, ed. T. de Zeeuw (Dordrecht: Reidel), p. 167, 1987. (Invited review.)

- Fanelli, M. N., O’Connell, R. W., and Thuan, T. X., “Spectral Synthesis in the Ultraviolet: I. Far Ultraviolet Stellar Library,” *Astrophys. J.*, **321**, 768, 1987.
- O’Connell, R. W., “Star Formation in Elliptical Galaxies at High Redshift,” in *Starbursts and Galaxy Evolution*, eds. T. X. Thuan, T. Montmerle, and J. T. T. Van (Paris: Editions Frontieres), p. 367, 1987. (Invited review.)
- O’Connell, R. W., “Ultraviolet Observations of Starburst Systems with Astro and the Hubble Space Telescope,” in *Starbursts and Galaxy Evolution*, ed. T. X. Thuan, T. Montmerle, and J. T. T. Van (Paris: Editions Frontieres), p. 569, 1987. (Invited review.)
- O’Connell, R. W., “Ultraviolet Detection of Very Low Surface Brightness Objects,” *Astron. J.*, **94**, 876, 1987.
- O’Connell, R. W., “The Red Envelope and the Age of the Universe,” in *Towards Understanding Galaxies at Large Redshift*, eds. R. Kron and A. Renzini (Dordrecht: Reidel), p. 177, 1988.
- Crocker, D. A., Rood, R. T., and O’Connell, R. W., “Multiple Populations on the Horizontal Branch I. Observations,” *Astrophys. J.*, **332**, 236, 1988.
- O’Connell, R. W., and McNamara, B. R., “Evidence for Star Formation in Cooling Flows,” in *Cooling Flows in Clusters and Galaxies*, ed. A. C. Fabian (Dordrecht: Kluwer), p. 103, 1988. (Invited review.)
- Fanelli, M. N., O’Connell, R. W., Thuan, T. X., Burstein, D., and Wu, C.-C., “A Mid-UV Stellar Library for Population Synthesis,” in *A Decade of Astronomy with the IUE Satellite*, ed. E. J. Rolfe (Noordwijk: ESA), p. 377, 1988.
- Fanelli, M. N., O’Connell, R. W., and Thuan, T. X., “Spectral Synthesis in the Ultraviolet. II: Stellar Populations and Star Formation in Blue Compact Galaxies,” *Astrophys. J.*, **334**, 665, 1988.
- O’Connell, R. W., and McNamara, B. R., “The Fate of Matter in Cooling Flows,” *Astron. J.*, **98**, 180, 1989.
- McNamara, B. R., and O’Connell, R. W., “Star Formation in Cooling Flows in Clusters of Galaxies,” *Astron. J.*, **98**, 2018, 1989.
- Bregman, J. N., McNamara, B. R., and O’Connell, R. W., “Infrared Emission from Central Dominant Galaxies in X-Ray Luminous Clusters,” *Astrophys. J.*, **351**, 406, 1990.
- Bohlin, R. C., Cornett, R. H., Hill, J. K., O’Connell, R. W., and Stecher, T. P., “Images in the Rocket Ultraviolet: Star Formation and Extinction in the M51 System,” *Astrophys. J.*, **352**, 55, 1990.
- O’Connell, R. W., “Star Forming Galaxies in the Ultraviolet,” in *Windows on Galaxies*, eds. G. Fabiano, J. S. Gallagher, and A. Renzini, (Dordrecht: Kluwer), p. 39, 1990. (Invited review.)
- McNamara, B. R., Bregman, J. N., and O’Connell, R. W. “H I Absorption Toward Cooling Flows in Clusters of Galaxies,” *Astrophys. J.*, **360**, 20, 1990.
- Dressel, L. L., O’Connell, R. W., Telesco, C. M., and Decher, R., “Profuse Central Star Formation in ‘S0’ Galaxies,” in *Evolution of the Universe of Galaxies (Edwin Hubble Centennial Symposium)*, ed. R. G. Kron (San Francisco: Astron. Soc. Pacific), p. 170, 1990.
- Carruthers, G. R., Fischer, J., Wray, J. D., Schroeder, D. J., O’Connell, R. W., and Witt, A. N., “A Space Schmidt Imaging Telescope: Optical Concept and Astrophysical Objectives”, in *Advanced Technology Optical Telescopes IV*, *SPIE*, **1236**, p. 215, 1990.
- Fanelli, M. N., O’Connell, R. W., Burstein, D., and Wu, C.-C., “Spectral Synthesis in the Ultraviolet. III. Spectral Morphology of Normal Stars in the Mid-Ultraviolet,” *Astrophys. J.*, **364**, 272, 1990.
- O’Connell, R. W., “The History of Star Formation in Bulges”, in *Bulges of Galaxies*, eds. D. Terndrup and B. Jarvis (ESO/CTIO Conference Proceedings), p. 187, 1990. (Invited review.)

- Bohlin, R. C., Cornett, R. H., Hill, J. K., Hill, R. S., O'Connell, R. W., Neff, S. G., Smith, A. M., and Stecher, T. P., "Simulated Optical Images of Galaxies at  $z \sim 1$  Using UV Images of Nearby Galaxies", *Astrophys. J.*, **368**, 12, 1991.
- Smith, G. H., Burstein, D., Fanelli, M. N., O'Connell, R. W., and Wu, C.-C., "On the Utility of Low Resolution IUE Spectroscopy of the 2800 Å Mg II Lines as a Stellar Chromosphere Indicator", *Astron. J.*, **101**, 655, 1991.
- Wu, C.-C., Crenshaw, D. M., Blackwell, J. H., Wilson-Diaz, D., Schiffer, F. H., Burstein, D., Fanelli, M. N., and O'Connell, R. W., "The IUE Ultraviolet Spectral Atlas, Addendum I" *IUE Newsletter*, No. 43, 1991.
- O'Connell, R. W., "The Stellar Content of Galaxies," in *The Astronomy and Astrophysics Encyclopedia*, (New York: Van Nostrand), p. 274, 1991. (Invited article.)
- O'Connell, R. W., "Ultraviolet Imaging of Globular Clusters and Galaxies" *Advances in Space Research*, **11**, No. 11, 71, 1991. (Invited review.)
- Fanelli, M. N., O'Connell, R. W., Burstein, D., and Wu, C.-C., "Spectral Synthesis in the Ultraviolet. IV: A Library of Standard Stellar Groups," *Astrophys. J. Supplements*, **82**, 197, 1992.
- O'Connell, R. W., "Ultraviolet Observations of Stellar Populations in Globular Clusters and Galaxies," in *The Stellar Populations of Galaxies (IAU Symposium No. 149)*, eds. A. Renzini and B. Barbuy (Dordrecht: Kluwer), p. 233, 1992. (Invited review.)
- Sarazin, C. L., O'Connell, R. W., and McNamara, B. R., "X-Ray Emitting Filaments in the Cooling Flow Cluster A2029," *Astrophys. J. Letters*, **389**, L59, 1992.
- McNamara, B. R., and O'Connell, R. W., "Color Gradients in Cooling Flows in Clusters of Galaxies," *Astrophys. J.*, **393**, 579, 1992.
- Stecher, T. P., Baker, G. R., Bartoe, D. D., Bauer, F. H., Blum, A., Bohlin, R. C., Butcher, H. R., Chen, P. C., Collins, N. R., Cornett, R. H., Deily, J. J., Greason, M. R., Hennessy, G. S., Hill, J. K., Hill, R. S., Hintzen, P. M. N., Isensee, J. E., Kenny, P. J., Landsman, W. B., Linard, D. L., Maran, S. P., Neff, S. G., Nichols, G. R., Novello, J., O'Connell, R. W., Offenberg, J. D., Parise, R. A., Pfarr, B. B., Plummer, T. B., Richardson, F. F., Roberts, M. S., Sitko, S. D., Smith, A. M., Stober, A. K., Stolarik, J. D., and Tebay, J. C., "The Ultraviolet Imaging Telescope: Design and Performance," *Astrophys. J. Letters*, **395**, L1, 1992.
- Witt, A. N., Petersohn, J. K., Bohlin, R. C., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "UIT Images of the Reflection Nebula NGC 7023: Derivation of UV Scattering Properties of Dust Grains," *Astrophys. J. Letters*, **395**, L5, 1992.
- Cornett, R. H., Jenkins, E. B., Bohlin, R. C., Cheng, K. P., Gull, T. R., Hintzen, P. M. N., O'Connell, R. W., Parker, R. A. R., Roberts, M. S., Smith, A. M., Smith, E. P., and Stecher, T. P., "Ultraviolet Imaging Telescope Observations of the Cygnus Loop," *Astrophys. J. Letters*, **395**, L9, 1992.
- Hennessy, G. S., O'Connell, R. W., Bohlin, R. C., Collins, N. R., Gull, T. R., Isensee, J. E., Landsman, W. B., Roberts, M. S., Smith, A. M., and Stecher, T. P., "UIT Observations of the Crab Nebula," *Astrophys. J. Letters*, **395**, L13, 1992.
- Hill, R. S., Hill, J. K., Landsman, W. B., Bohlin, R. C., Cheng, K. P., Hintzen, P. M. N., O'Connell, R. W., Roberts, M. S., Smith, A. M., Smith, E. P., and Stecher, T. P., "An Ultraviolet Imaging Telescope Study of the Globular Cluster M79 (NGC 1904)," *Astrophys. J. Letters*, **395**, L17, 1992.
- Landsman, W. B., O'Connell, R. W., Whitney, J. H., Bohlin, R. C., Hill, R. S., Maran, S. P., Parise, R. A., Roberts, M. S., Smith, A. M., and Stecher, T. P., "The UV-Bright Stars of Omega Centauri, M3, and M13," *Astrophys. J. Letters*, **395**, L21, 1992.

- Crotts, A. P. S., Landsman, W. B., Bohlin, R. C., O’Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., “Observations of the Light Echoes from SN 1987A Using the *Astro-1* Ultraviolet Imaging Telescope,” *Astrophys. J. Letters*, **395**, L25, 1992.
- Cheng, K. P., Michalitsianos, A. G., Hintzen, P. M. N., Bohlin, R. C., Cornett, R. H., O’Connell, R. W., Roberts, M. S., Smith, A. M., Smith, E. P., and Stecher, T. P., “*Astro-1* Ultraviolet Imaging of the 30 Doradus and SN 1987A Fields with the UIT,” *Astrophys. J. Letters*, **395**, L29, 1992.
- Hill, J. K., Pfarr, B. B., Bohlin, R. C., Isensee, J. E., O’Connell, R. W., Neff, S. G., Roberts, M. S., Smith, A. M., and Stecher, T. P., “UIT Photometry of Massive Stars: the OB Association NGC 206 in M31,” *Astrophys. J. Letters*, **395**, L33, 1992.
- Hill, J. K., Bohlin, R. C., O’Connell, R. W., Roberts, M. S., Smith, A. M., Hintzen, P. M. N., Landsman, W. B., Neff, S. G., Smith, E. P., Cheng, K. P., and Stecher, T. P., “UIT Ultraviolet Images: Large Scale Structure, HII Regions, and Extinction in M81,” *Astrophys. J. Letters*, **395**, L37, 1992.
- Chen, P. C., Cornett, R. H., Roberts, M. S., Bohlin, R. C., Neff, S. G., O’Connell, R. W., Parise, R. A., Smith, A. M., and Stecher, T. P., “UIT Ultraviolet Observations of the Sc I Galaxy M74 (NGC 628),” *Astrophys. J. Letters*, **395**, L41, 1992.
- O’Connell, R. W., Bohlin, R. C., Collins, N. R., Cornett, R. H., Hill, J. K., Hill, R. S., Landsman, W. B., Roberts, M. S., Smith, A. M., and Stecher, T. P., “Ultraviolet Imaging of Old Populations in Nearby Galaxies,” *Astrophys. J. Letters*, **395**, L45, 1992.
- Smith, E. P., O’Connell, R. W., Bohlin, R. C., Cheng, K. P., Cornett, R. H., Hill, J. K., Hintzen, P. M. N., Landsman, W. B., Neff, S. G., Roberts, M. S., Smith, A. M., and Stecher, T. P., “Implications of UIT Observations for Star Formation Histories in NGC 1275,” *Astrophys. J. Letters*, **395**, L49, 1992.
- Sarazin, C. L., O’Connell, R. W., and McNamara, B. R., “X-Ray and Optical Emission Line Filaments in the Cooling Flow Cluster 2A0335+096,” *Astrophys. J. Letters*, **397**, L31, 1992.
- Landsman, W. B., Roberts, M. S., Bohlin, R. C., O’Connell, R. W., Smith, A. M., and Stecher, T. P., “The Ultraviolet Color Gradient in the Late-Type Spiral Galaxy M33,” *Astrophys. J. Letters*, **401**, L83, 1992.
- Hill, J. K., Gessner, S. E., Bohlin, R. C., Cheng, K. P., Hintzen, P. M. N., O’Connell, R. W., Roberts, M. S., Smith, A. M., Smith, E. P., and Stecher, T. P., “UIT Ultraviolet Images: Limits on Recent Star Formation in Ho IX,” *Astrophys. J. Letters*, **402**, L45, 1993.
- Wise, M. W., O’Connell, R. W., Bregman, J. N., and Roberts, M. S., “Far-Infrared Emission from the Intracluster Medium,” *Astrophys. J.*, **405**, 94, 1993.
- McNamara, B. R., and O’Connell, R. W., “Blue Lobe Galaxies in the Cooling Flow Clusters Abell 1795 and Abell 2597,” *Astron. J.*, **105**, 417, 1993.
- O’Connell, R. W., “Ultraviolet Bright Populations in Galaxies and Globular Clusters,” in *The Globular Cluster–Galaxy Connection*, eds. J. P. Brodie and G. H. Smith (San Francisco: Astron. Soc. Pacific), 530, 1993. (Invited review.)
- Dorman, B., Rood, R. T., and O’Connell, R. W., “On the Evolution of ‘Ultra-Violet’ Horizontal Branch Stars and the UV Flux from Stellar Populations,” in *The Globular Cluster–Galaxy Connection*, eds. J. P. Brodie and G. H. Smith (San Francisco: Astron. Soc. Pacific), 553, 1993.
- Jaffe, W., Ford, H., Ferrarese, L., van den Bosch, F., and O’Connell, R. W., “A Large Nuclear Accretion Disk in the Active Galaxy NGC 4261,” *Nature*, **364**, 213, 1993.
- Hill, J. K., Bohlin, R. C., Cheng, K.-P., Fanelli, M. N., Hintzen, P. M., O’Connell, R. W., Roberts, M. S., Smith, A. M., Smith, E. P., and Stecher, T. P., “30 Doradus: Ultraviolet and Optical Stellar Photometry,” *Astrophys. J.*, **413**, 604, 1993.

- Hill, J. K., Isensee, J. E., Bohlin, R. C., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Ultraviolet Photometry of OB Associations in M31," *Astrophys. J. Letters*, **414**, L9, 1993.
- Bohlin, R. C., Deutsch, E. W., McQuade, K. A., Hill, J. K., Landsman, W. B., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Ultraviolet Imaging Telescope: Globular Clusters in M31," *Astrophys. J.*, **417**, 127, 1993.
- Smith, E. P., Landsman, W. B., Hill, R. S., Bohlin, R. C., Cheng, K.-P., Hintzen, P., Maran, S. P., O'Connell, R. W., Roberts, R. S., Smith, A. M., and Stecher, T. P., "Ultraviolet Morphologies of Globular Clusters Observed with the Ultraviolet Imaging Telescope," *Astrophys. J.*, **418**, 850, 1993.
- Dorman, B., Rood, R. T., and O'Connell, R. W., "Ultraviolet Radiation from Evolved Stellar Populations: I. Models," *Astrophys. J.*, **419**, 596, 1993.
- Parise, R. A., Maran, S. P., Landsman, W. B., Bohlin, R. C., Greason, M. R., Hintzen, P. M., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "An Ultraviolet-Visible Investigation of the Globular Cluster NGC 1851," *Astrophys. J.*, **423**, 305, 1994.
- Windhorst, R. A., Pascarelle, S. M., Keel, W. C., Bertola, B., McCarthy, P. J., O'Connell, R. W., Renzini, A., and Spinrad, H., "HST/FOS UV Spectroscopy of Weak Radio Galaxies at  $z = 0.1 - 0.6$ ," in *Frontiers of Space and Ground-Based Astronomy*, eds. E. W. Wamsteker, M. S. Longair, and Y. Kondo (Dordrecht: Kluwer), p. 663, 1994.
- Cornett, R. H., Hill, J. K., Bohlin, R. C., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "UIT: Ultraviolet Observations of the Small Magellanic Cloud," *Astrophys. J. Letters*, **430**, L117, 1994.
- Hill, J. K., Isensee, J. E., Cornett, R. H., Bohlin, R. C., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Initial Mass Functions from UV Stellar Photometry: a Comparison of Lucke and Hodge OB Associations Near 30 Dor with the Nearby Field", *Astrophys. J.*, **425**, 122, 1994.
- Cornett, R. H., O'Connell, R. W., Greason, M. R., Offenber, J. D., Angione, R. J., Bohlin, R. C., Cheng, K.-P., Roberts, M. S., Smith, A. M., Talbert, F.D., and Stecher, T. P., "UIT Ultraviolet Photometry of the Spiral Galaxy M74," *Astrophys. J.*, **426**, 553, 1994.
- Neff, S. G., Fanelli, M. N., Roberts, L. J., O'Connell, R. W., Bohlin, R. C., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Ultraviolet Imaging of the AGN + Starburst Galaxy NGC 1068," *Astrophys. J.*, **430**, 545, 1994.
- Hunter, D. A., O'Connell, R. W., and Gallagher, J. S., "Hubble Space Telescope Imaging of the Central Star Forming Region in NGC 1140," *Astron. J.*, **108**, 84, 1994.
- O'Connell, R. W., Gallagher, J. S., and Hunter, D. A., "Hubble Space Telescope Imaging of Super Star Clusters in NGC 1569 and NGC 1705," *Astrophys. J.*, **433**, 65, 1994.
- Dorman, B., O'Connell, R. W., and Rood, R. T., "Are Analogues of Hot Subdwarf Stars Responsible for the UVX Phenomenon in Galaxy Nuclei?," in *Hot Stars in the Halo*, ed. S. Adelman (Cambridge: Cambridge University Press), p. 341, 1994.
- Whitney, J. H., O'Connell, R. W., Rood, R. T., Dorman, B., Bohlin, R. C., Cheng, K.-P., Hintzen, P., Landsman, W. B., Roberts, M. S., Smith, A. M., Smith, E. P., and Stecher, T. P., "Ultraviolet Photometry of Hot Stars in  $\omega$  Cen," in *Hot Stars in the Halo*, ed. S. Adelman (Cambridge: Cambridge University Press), p. 163, 1994.
- O'Connell, R. W., "The Ages of Elliptical Galaxies," in *Nuclei of Normal Galaxies: Lessons from the Galactic Center*, eds. R. Genzel and A. I. Harris (Dordrecht: Kluwer), 255, 1994. (Invited review.)
- Whitney, J. H., O'Connell, R. W., Rood, R. T., Dorman, B., Landsman, W. B., Bohlin, R. C., Cheng, K.-P., Hintzen, P., Roberts, M. S., Smith, A. M., Smith, E. P., and Stecher, T. P., "Far Ultraviolet Photometry of the Globular Cluster  $\omega$  Cen," *Astron. J.*, **108**, 1350, 1994.

- Jaffe, W., Ford, H. C., O’Connell, R. W., van den Bosch, F. C., and Ferrarese, L., “Hubble Space Telescope Photometry of the Central Regions of Virgo Cluster Elliptical Galaxies I. Observations, Discussion, and Conclusions,” *Astron. J.*, **108**, 1567, 1994.
- van den Bosch, F., Ferrarese, L., Jaffe, W., Ford, H. C., and O’Connell, R. W., “Hubble Space Telescope Photometry of the Central Regions of Virgo Cluster Elliptical Galaxies II. Isophote Shapes,” *Astron. J.*, **108**, 1579, 1994.
- Ferrarese, L., van den Bosch, F., Jaffe, W., Ford, H. C., and O’Connell, R. W., “Hubble Space Telescope Photometry of the Central Regions of Virgo Cluster Elliptical Galaxies III. Brightness Profiles,” *Astron. J.*, **108**, 1598, 1994.
- Dorman, B., O’Connell, R. W., and Rood, R. T., “Ultraviolet Radiation from Evolved Stellar Populations II. The Ultraviolet Upturn Phenomenon in Elliptical Galaxies,” *Astrophys. J.*, **442**, 105, 1995.
- Hill, J. K., Cheng, K.-P., Bohlin, R. C., Cornett, R. H., Hintzen, P. M. N., O’Connell, R. W., Roberts, M. S., Smith, A. M., Smith, E. P., and Stecher, T. P., “Ultraviolet Imaging Telescope and Optical Emission Line Observations of H II Regions in M81,” *Astrophys. J.*, **438**, 181, 1995.
- O’Connell, R. W., Gallagher, J. S., Hunter, D. A., and Colley, W. N., “Hubble Space Telescope Imaging of Super Star Clusters in M82,” *Astrophys. J. Letters*, **446**, L1, 1995.
- Hill, R. S., Cheng, K. P., Bohlin, R. C., O’Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., “UIT and Optical Imagery of LMC Associations LH 52 and LH 53: Ages and IMF Slopes,” *Astrophys. J.*, **446**, 622, 1995.
- Hill, J. K., Isensee, J. E., Bohlin, R. C., Cheng, K. P., Hintzen, P. M. N., O’Connell, R. W., Roberts, M. S., Smith, A. M., Smith, E. P., and Stecher, T. P., “Ultraviolet and Optical Observations of OB Associations in M31,” *Astrophys. J. Supplements*, **98**, 595, 1995.
- O’Connell, R. W., “Stellar Populations at Large Redshifts,” in *Stellar Populations (IAU Symposium No. 164)*, eds. P. van der Kruit and G. Gilmore (Dordrecht: Kluwer), p. 301, 1995. (Invited review.)
- Whitney, J. H., O’Connell, R. W., Rood, R. T., Hill, R. S., Landsman, W. B., Bohlin, R. C., Roberts, M. S., Smith, A. M., and Stecher, T. P., “Far Ultraviolet Luminosity Functions for M3 and M13,” *Astron. J.*, **110**, 1722, 1995.
- Waller, W. H., Marsh, M., Bohlin, R. C., Cornett, R. H., Dixon, W. V., Isensee, J. E., Murthy, J., O’Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., “The Ultraviolet Sky as Observed by the Shuttle-Borne Ultraviolet Imaging Telescope,” *Astron. J.*, **110**, 1255, 1995.
- O’Connell, R. W., “An Overview of Spectral Synthesis of Stellar Populations,” in *From Stars to Galaxies: The Impact of Stellar Physics on Galaxy Evolution*, eds. C. Leitherer, U. Fritze-von Alvensleben, and J. Huchra, (ASP Press), p. 3, 1996. (Invited review.)
- Dorman, B., and O’Connell, R. W. “Constraints on the Stellar Populations of Elliptical Galaxies from Ultraviolet Spectra,” in *From Stars to Galaxies: The Impact of Stellar Physics on Galaxy Evolution*, eds. C. Leitherer, U. Fritze-von Alvensleben, and J. Huchra, (ASP Press), p. 105, 1996.
- Marcum, P. M., and O’Connell, R. W. “An Investigation of the Stellar Population and Dust Content of M82,” in *From Stars to Galaxies: The Impact of Stellar Physics on Galaxy Evolution*, eds. C. Leitherer, U. Fritze-von Alvensleben, and J. Huchra, (ASP Press), p. 419, 1996.
- Jaffe, W., Ford, H., Ferrarese, L., van den Bosch, and O’Connell, R. W., “The Nuclear Disk of NGC 4261: HST Images and WHT Spectra,” *Astrophys. J.*, **460**, 214, 1996.
- McNamara, B. R., O’Connell, R. W., and Sarazin, C. L., “Optical, Radio, and X-Ray Structure in NGC 1275,” *Astron. J.*, **112**, 91, 1996.

- D'Cruz, N. L., Dorman, B., Rood, R. T., and O'Connell, R. W., "The Origin of Extreme Horizontal Branch Stars," *Astrophys. J.*, **466**, 359, 1996.
- Hill, R. S., Cheng, K. P., Smith, E. P., Hintzen, P. M. N., Bohlin, R. C., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "UIT: New Ultraviolet Stellar Photometry and Surface Brightness Profiles of the Globular Cluster M79 (NGC 1904)," *Astron. J.*, **112**, 601, 1996.
- Smith, E. P., Pica, A. J., Bohlin, R. C., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "UIT Near Ultraviolet Bright Objects Catalog," *Astrophys. J. Supplements*, **104**, 287, 1996.
- Landsman, W. H., Sweigart, A. V., Bohlin, R. C., Neff, S. G., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Ultraviolet Imagery of NGC 6752: A Test of Extreme Horizontal Branch Models," *Astrophys. J. Letters*, **472**, L93, 1996.
- Leitherer, C. et al., including O'Connell, R. W., "A Database for Galaxy Evolution Modeling," *Publ. Astron. Soc. Pacific*, **108**, 996, 1996.
- Parker, J. W., Hill, J. K., Bohlin, R. C., O'Connell, R. W., Neff, S. G., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Ultraviolet Imaging Telescope Observations of OB Stars in the N 11 Region of the Large Magellanic Cloud," *Astrophys. J. Letters*, **472**, L29, 1996.
- Smith, D. A., Neff, S. G., Bothun, G. D., Fanelli, M. N., Offenberg, J. D., Waller, W. H., Bohlin, R. C., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Ultraviolet Imaging of NGC 3310: A Merger Driven Global Starburst," *Astrophys. J. Letters*, **473**, L21, 1996.
- Hill, J. K., Waller, W. H., Cornett, R. H., Bohlin, R. C., Cheng, K.-P., Neff, S. G., O'Connell, R. W., Roberts, M. S., Smith, A. M., Hintzen, P. M. N., Smith, E. P., and Stecher, T. P., "UV Colors and Extinctions of H II Regions in the Whirlpool Galaxy (M51)," *Astrophys. J.*, **477**, 673, 1997.
- O'Connell, R. W., "The Star Formation History of Low Redshift Spiral Galaxies," in *Star Formation, Near and Far*, eds. S. S. Holt and L. G. Mundy (AIP Press), p. 491, 1997. (Invited review.)
- Neff, S. G., Hollis, J. E., Hill, J. K., Fanelli, M. N., Smith, D. A., Smith, A. M., Stecher, T. P., Bohlin, R. C., O'Connell, R. W., and Roberts, M. S., "Far-ultraviolet emission from NGC 4038/4039, 'The Antennae': Massive star formation in compact clusters," in *Star Formation, Near and Far*, eds. S. S. Holt and L. G. Mundy (AIP Press), p. 473, 1997.
- Smith, E. P., Bohlin, R. C., Bothun, G. D., O'Connell, R. W., Roberts, M. S., Neff, S. G., Smith, A. M., and Stecher, T. P., "Ultraviolet Imaging Observations of the cD Galaxy in Abell 1795: Further Evidence for Massive Star Formation in a Cooling Flow," *Astrophys. J.*, **478**, 516, 1997.
- Dorman, B., Shah, R. Y., O'Connell, R. W., Landsman, W. B., Rood, R. T., Bohlin, R. C., Neff, S. G., Roberts, M. S., Smith, A. M., and Stecher, T. P., "UIT Detection of Hot Stars in the Globular Cluster NGC 362," *Astrophys. J. Letters*, **480**, L31, 1997.
- Waller, W. H., Bohlin, R. C., Cornett, R. H., Fanelli, M. N., Freedman, W. L., Hill, J. K., Madore, B. F., Neff, S. G., Offenberg, J. D., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Ultraviolet Signatures of Tidal Interaction in the Giant Spiral Galaxy M101," *Astrophys. J.*, **481**, 169, 1997.
- Fanelli, M. N., Waller, W. W., Smith, D. A., Freedman, W. L., Madore, B., Neff, S. G., O'Connell, R. W., Roberts, M. S., Bohlin, R. C., Smith, A. M., and Stecher, T. P., "An Ultraviolet and Near-Infrared View of NGC 4214: A Starbursting Core Embedded in a Low Surface Brightness Disk," *Astrophys. J.*, **481**, 735, 1997.
- Stecher, T. P., Cornett, R. H., Greason, M. H., Landsman, W. B., Hill, J. K., Hill, R. S., Bohlin, R. C., Chen, P. C., Collins, N. R., Fanelli, M. N., Hollis, J. I., Neff, S. G., O'Connell, R. W., Offenberg, J. D., Parise, R. A., Parker, J., Roberts, M. S., Smith, A. M., and Waller, W. H., "The Ultraviolet Imaging Telescope: Instrument and Data Characteristics," *Publ. Astron. Soc. Pacific*, **109**, 584, 1997.



- O'Connell, R. W., and Marcum, P., "The Ultraviolet Morphology of Galaxies," in *HST and the High Redshift Universe (37<sup>th</sup> Herstmonceux Conference)*, eds. N.R. Tanvir, A. Aragon-Salamanca, J.V. Wall (World Scientific Press), p. 63, 1997. (Invited review.)
- D'Cruz, N. L., Dickens, R. J., Hatzidimitriou, D., Rood, R. T., & O'Connell, R. W., "Calcium Abundances of Blue Horizontal Branch Stars in  $\omega$  Centauri," in *Advances in Stellar Evolution*, ed. by R. T. Rood & A. Renzini (Cambridge: CUP), p. 100, 1997.
- Fanelli, M. N., Collins, N., Bohlin, R. C., Neff, S. G., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "An Ultraviolet View of Massive Star Formation in Seyfert Host Galaxies," *Astron. J.*, **114**, 575, 1997.
- O'Connell, R. W., Dorman, B., Shah, R. Y., Rood, R. T., Landsman, W. B., Bohlin, R. C., Neff, S. G., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Ultraviolet Imaging of the Globular Cluster 47 Tucanae," *Astron. J.*, **114**, 1982, 1997.
- O'Connell, R. W., "The Ultraviolet Morphology of Galaxies," in *The Ultraviolet Universe at Low and High Redshift*, ed. W. H. Waller (AIP Press), 11, 1997. (Invited review.)
- Ohl, R. G., O'Connell, R. W., Bohlin, R. C., Collins, N. R., Dorman, B., Fanelli, M. N., Neff, S. G., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Far-Ultraviolet Imaging of Early-Type Galaxies," in *The Ultraviolet Universe at Low and High Redshift*, ed. W. H. Waller (AIP Press), 181, 1997.
- Neff, S. G., Hollis, J. E., Hill, J. K., Fanelli, M. N., Smith, D. A., Smith, A. M., Stecher, T. P., Bohlin, R. C., O'Connell, R. W., and Roberts, M. S., "Far-ultraviolet emission from NGC 4038/4039, 'The Antennae': Massive star formation in compact clusters," in *The Ultraviolet Universe at Low and High Redshift*, ed. W. H. Waller (AIP Press), 60, 1997.
- Dorman, B., and O'Connell, R. W., "Constraining the Abundances and Ages of Early-Type Galaxies," in *The Ultraviolet Universe at Low and High Redshift*, ed. W. H. Waller (AIP Press), 175, 1997.
- Whitney, J. H., Rood, R. T., O'Connell, R. W., D'Cruz, N. L., Dorman, B., Landsman, W. B., Bohlin, R. C., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Analysis of the Hot Stellar Population of the Globular Cluster  $\omega$  Centauri," *Astrophys. J.*, **495**, 284, 1998.
- O'Connell, R. W., and Ohl, R. G., "Far-UV Color and Abundance Gradients in Elliptical Galaxies," in *Abundance Profiles: Diagnostic Tools for Galaxy History*, eds. D. Friedli, M. G. Edmunds, C. Robert, and L. Drissen (ASP Press), p. 21, 1998. (Invited review.)
- Parker, J. W., Hill, J. K., Cornett, R., Hollis, J., Zamkoff, E., Bohlin, R. C., O'Connell, R. W., Neff, S. G., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Ultraviolet Imaging Telescope Observations of the Magellanic Clouds," in *IAU Symposium # 190: New Views of the Magellanic Clouds*, eds. Y.-H. Chu, N. Suntzeff, J. Hesser, and D. Bohlender (ASP Press), p. 99, 1998.
- Cornett, R. H., Dorman, B., Smith, E. P., Fanelli, M. N., Oegerle, W. R., Bohlin, R. C., Neff, S. G., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Ultraviolet Imaging of the  $z = 0.23$  Cluster Abell 2246," *Astron. J.*, **116**, 44, 1998.
- Parker, J. W., Hill, J. K., Cornett, R., Hollis, J., Zamkoff, E., Bohlin, R. C., O'Connell, R. W., Neff, S. G., Roberts, M. S., Smith, A. M., and Stecher, T. P., "Ultraviolet Imaging Telescope Observations of the Magellanic Clouds," *Astron. J.*, **116**, 180, 1998.
- Parise, R. A., Bohlin, R. C., Neff, S. G., O'Connell, R. W., Roberts, M. S., Maran, S. P., Smith, A. M., and Stecher, T. P., "Ultraviolet Imaging Telescope Observations of the Horizontal Branch in M13," *Astrophys. J. Letters*, **501**, L67, 1998.
- Landsman, W., Bohlin, R. C., Neff, S. G., O'Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., "The Hot Stars of Old Open Clusters: M67, NGC 188, and NGC 6791," *Astron. J.*, **116**, 789, 1998.

- Ohl, R. G., O’Connell, R. W., Bohlin, R. C., Collins, N. R., Dorman, B., Fanelli, M. N., Neff, S. G., Roberts, M. S., Smith, A. M., and Stecher, T. P., “Far-Ultraviolet Color Gradients in Early-Type Galaxies,” *Astrophys. J. Letters*, **505**, L110, 1998.
- Hill, R. S., Fanelli, M. N., Smith, D. A., Bohlin, R. C., Neff, S. G., O’Connell, R. W., Roberts, M. S., Smith, A. M., and Stecher, T. P., “Ultraviolet Imaging of the Irregular Galaxy NGC 4449 with UIT: Photometry and Recent Star Formation History,” *Astrophys. J.*, **507**, 179, 1998.
- Ponder, J. M., Burstein, D., O’Connell, R. W., Rose, J., Frogel, J. A., Wu, C.-C., Crenshaw, D. M., Rieke, M., and Tripicco, M., “Integrated UV Spectra and Line Indices of M31 Globular Clusters and the Cores of Elliptical Galaxies,” *Astron. J.*, **116**, 2297, 1998.
- O’Connell, R. W. “Extragalactic Science Panel Discussion,” in *UV-Optical Space Astronomy Beyond HST*, eds. J. A. Morse, J. M. Shull, and A. Kinney, (ASP Press), p. 23, 1999. (Invited review.)
- O’Connell, R. W., “Far-Ultraviolet Radiation From Elliptical Galaxies,” *Annual Reviews of Astronomy and Astrophysics*, **37**, 603, 1999. (Invited review.)
- O’Connell, R. W., “Energy Distributions and the Formation Times of Spheroidal Populations,” in *Building the Galaxies: From the Primordial Universe to the Present* (XIXth Moriond Conference), eds. F. Hammer, T. X. Thuan, V. Cayatte, B. Guiderdoni, and J. T. T. Van (Paris: Editions Frontieres), p. 3, 2000. (Invited review.)
- Stewart, S. G., Fanelli, M. N., Byrd, G. G., Hill, J. K., Westpfahl, D. J., Cheng K.-P., O’Connell, R. W., Roberts, M. S., Neff, S. G., Smith, A. M., and Stecher, T. P., “Star Formation Trigger Mechanisms in Dwarf Galaxies: The Far-Ultraviolet,  $H\alpha$ , and HI Morphology of Holmberg II,” *Astrophys. J.*, **529**, 201, 2000.
- D’Cruz, N. L., O’Connell, R. W., Rood, R. T., Whitney, J. H., Dorman, B., Landsman, W. B., Stecher, T. P., and Bohlin, R. C., “HST Observations of New Horizontal Branch Structures in the Globular Cluster  $\omega$  Centauri,” *Astrophys. J.*, **530**, 352, 2000.
- de Grijs, R., O’Connell, R. W., Becker, G. D., and Chevalier, R. A., “Supernova Remnants in the Fossil Starburst in M82,” *Astron. J.*, **119**, 68, 2000.
- O’Connell, R. W., “Stellar Populations at Large Redshifts: Updated Review,” in *Stellar Populations (IAU Symposium No. 164)*, eds. P. van der Kruit and G. Gilmore, *Astrophysics & Space Science* (special issue), **267**, 329, 2000. (Invited review.)
- de Grijs, R., O’Connell, R. W., and Gallagher, J. S. “Evolved Super Star Clusters in M82,” in *Star Formation from the Small to the Large Scale*, eds. F. Favata, A. A. Kaas, and A. Wilson (ESA SP-445), p. 43, 2000.
- D’Cruz, N. L., O’Connell, R. W., Rood, R. T., Dorman, B., Landsman, W. B., Hill, R. S., Stecher, T. P., and Bohlin, R. C., “HST Observations of  $\Omega$  Centauri in the Far-Ultraviolet,” in *The Galactic Halo (35<sup>th</sup> Liege International Astrophysics Colloquium)*, eds. A. Noels, P. Magain, D. Caro, E. Jehin, G. Parmentier, and A. A. Thoul (Liege: Institut d’Astrophysique et de Geophysique), p. 497, 2000.
- Kuchinski, L. E., Freedman, W. L., Madore, B. F., Trewhella, M., Bohlin, R. C., Cornett, R. H., Fanelli, M. N., Marcum, P. M., Neff, S. G., O’Connell, R. W., Roberts, M. S., Smith, A. M., Stecher, T. P., and Waller, W. H., “Comparing Galaxy Morphology at Ultraviolet and Optical Wavelengths,” *Astrophys. J. Supplements*, **131**, 441, 2000.
- Hunter, D. A., O’Connell, R. W., Gallagher, J. S., and Smecker-Hane, T. A., “The Star Clusters in the Starburst Irregular Galaxy NGC 1569,” *Astron. J.*, **120**, 238, 2000.

- Cheng, E., Hill, R., MacKenty, J., Cawley, L., Knezek, P., Kutina, R., Lisse, C., Lupie, O., Robberto, M., Stiavelli, M., O’Connell, R., Balick, B., Bond, H., Calzetti, D., Carollo, M., Disney, M., Dopita, M., Frogel, J., Hall, D., Hester, J., Holtzman, J., Luppino, G., McCarthy, P., Paresce, F., Saha, A., Silk, J., Trauger, J., Walker, A., Whitmore, B., Windhorst, R., and Young, E., “Wide Field Camera 3 for the Hubble Space Telescope,” *Proc. SPIE*, **4013**, 367, 2000.
- Marcum, P. M., O’Connell, R. W., Fanelli, M. N., Bohlin, R. C., Cheng, K.-P., Collins, N. R., Cornett, R. H., Freedman, W. L., Hennessy, G. S., Hintzen, P., Hollis, J. E., Kuchinski, L. E., Landsman, W. B., Madore, B., Ohl, R. G., Neff, S. G., Palma, C., Parise, R. A., Roberts, M. S., Smith, E. P., Talbert, F., Waller, W. H., and Stecher, T. P., “An Ultraviolet/Optical Atlas of Bright Galaxies,” *Astrophys. J. Supplements*, **132**, 129, 2001.
- Smith, A. M., Collins, N. R., Waller, W. H., Roberts, M. S., Smith, D. A., Bohlin, R. C., Cheng, K. P., Fanelli, M. N., Neff, S. G., O’Connell, R. W., Parise, R. A., Smith, E. P., and Stecher, T. P., “Far Ultraviolet Imagery of the Edge-On Spiral Galaxy NGC 4631,” *Astrophys. J.*, **546**, 829, 2001.
- de Grijs, R., O’Connell, R. W., and Gallagher, J. S., “The Fossil Starburst in M82,” *Astron. J.*, **121**, 768, 2001.
- Stiavelli, M., and O’Connell, R. W. (eds), *Hubble Space Telescope Wide Field Camera 3: Capabilities and Scientific Programs*, (Baltimore: Space Telescope Science Institute), 2001.
- Waller, W. H., Fanelli, M. N., Keel, W. C., Bohlin, R., Collins, N. R., Madore, B. F., Marcum, P. M., Neff, S. G., O’Connell, R. W., Offenberg, J. D., Roberts, M. S., Smith, A. M., and Stecher, T. P., “Ultraviolet Signposts of Resonant Dynamics in the Starburst-Ringed SAB Galaxy M94 (NGC 4736),” *Astron. J.*, **121**, 1395, 2001.
- de Grijs, R., O’Connell, R. W., and Gallagher, J. S., “The Fossil Starburst in M82,” in *The Evolution of Galaxies on Cosmological Timescales*, eds. J. E. Beckman and T. J. Mahoney, *Astrophysics & Space Science*, **276**, 397, 2001.
- McNamara, B. R., Wise, M. W., Nulsen, P. E. J., David, L. P., Carilli, C. L., Sarazin, C. L., O’Dea, C. P., Houck, J., Donahue, M., Baum, S., Voit, M., O’Connell, R. W., and Koekemoer, A., “Discovery of Ghost Cavities in Abell 2597’s X-Ray Atmosphere,” *Astrophys. J. Letters*, **562**, L149, 2001.
- Wyse, R., Olsen, K., Rich, M., O’Connell, R., Frogel, J., Wijers, R., Mateo, M., and Pilachowski, C., “Stellar Populations Panel Report,” in *Enabling a Giant Segmented Mirror Telescope for the Astronomical Community*, eds. A. Dey and J. Najita (Tucson: NOAO), (<http://www.aura-nio.noao.edu/book/index.html>), 2002.
- de Grijs, R., O’Connell, R. W., and Gallagher, J. S., “Tidally-Induced Super Star Clusters in M82,” in *Extragalactic Star Clusters (IAU Symposium No. 207)*, eds. E. K. Grebel, D. Geisler, and D. Minniti (San Francisco: ASP), p. 477, 2002.
- O’Connell, R. W., “Super Star Clusters in M82,” in *Extragalactic Star Clusters (IAU Symposium No. 207)*, eds. E. K. Grebel, D. Geisler, and D. Minniti (San Francisco: ASP), p. 383, 2002. (Invited review.)
- Brown, T. M., Ferguson, H. C., O’Connell, R. W., and Ohl, R. G., “Photospheric Abundances of the Hot Stars in NGC 1399 and Limits on the Fornax Cooling Flow,” *Astrophys. J. Letters*, **568**, L19, 2002.
- O’Connell, R. W., *Introduction to IDL for Astronomers*, web-based guide to astronomical image processing with the Interactive Data Language, (<http://www.faculty.virginia.edu/rwoclass/astr511/IDLguide.html>), 2002.
- O’Connell, R. W., *IDL Tutorial*, web-based Interactive Data Language tutorial and data analysis exercises, (<http://www.faculty.virginia.edu/rwoclass/astr511/IDLexercises>), 2002.

- Blades, J. C., Cabrera, B., Joseph, C., Flanagan, K., O’Connell, R., Pain, B., Peterson, B., and Woodgate, B., “Ultraviolet and Visible Detectors for Future Space Astrophysics Missions,” (NASA Office of Space Science), 2002.
- D’Cruz, N. L., Rood, R. T., O’Connell, R. W., Dickens, R. J., Hatzidimitriou, D., Dorman, B., Landsman, W. B., and Whitney, J. H., “Spectroscopic and Photometric Observations of Omega Centauri’s Blue Horizontal Branch Stars,” in *Omega Centauri: A Unique Window Into Astrophysics*, eds. F. van Leeuwen, J. D. Hughes, and G. Piotto (San Francisco: ASP), p. 235, 2002.
- Peterson, R. C., Carney, B. W., Dorman, B., Green, E. M., Landsman, W. B., Liebert, J., O’Connell, R. W., and Rood, R. T., “Empirical Near-UV Line Parameters from Hubble Spectroscopy,” *NASA Laboratory Astrophysics Workshop*, ed. F. Salama (NASA/CP-2002-21186), 73, 2002.
- Windhorst, R. A., Taylor, V. A., Jansen, R. A., Odewahn, S. C., Chiarenza, C. A. T., Conselice, C., de Grijs, R., de Jong, R. S., MacKenty, J., Eskridge, P. B., Frogel, J. A., Gallagher, J. S., Hibbard, J. E., Matthews, L. D., and O’Connell, R. W., “A Hubble Space Telescope Survey of the Mid-UV Morphology of Nearby Galaxies,” *Astrophys. J. Supplements*, **143**, 113, 2002.
- O’Connell, R. W., “WFMOS Spectrophotometry for Population Synthesis,” *The Tucson Workshop on Next Generation Wide Field MultiObject Spectroscopy*, eds. M. J. I. Brown and A. Dey (San Francisco: ASP), p. 83, 2002.
- Eskridge, P. B., Taylor, V. A., Windhorst, R. A., Odewahn, S. C., Chiarenza, C. A. T. C., Conselice, C. J., de Grijs, R., Frogel, J. A., Matthews, L. D., O’Connell, R. W., and Gallagher, J. S., “UV-Optical Pixel Maps of Face-On Spiral Galaxies – Clues for Dynamics and Star Formation Histories,” *Astrophys. J.*, **586**, 923, 2003.
- Peterson, R. C., Carney, B. W., Dorman, B., Green, E. M., Landsman, W., Liebert, J., O’Connell, R. W., and Rood, R. T., “Blue Horizontal Branch Stars in Old, Metal-Rich Stellar Systems,” *Astrophys. J.*, **588**, 299, 2003.
- Dorman, B., O’Connell, R. W., and Rood, R. T., “Age and Abundance Discrimination in Old Stellar Populations Using Mid-Ultraviolet Colors,” *Astrophys. J.*, **591**, 878, 2003.
- Peterson, R. C., Carney, B. W., Dorman, B., Green, E. M., Landsman, W. B., Liebert, J., O’Connell, R. W., and Rood, R. T., “Old Metal-Rich Globulars Constrained by the Mid-Ultraviolet,” in *Extragalactic Globular Clusters and Their Host Galaxies*, IAU Joint Discussion 6, in press, 2004.
- de Grijs, R., Smith, L. J., Bunker, A., Sharp, R. G., Gallagher, J. S., Anders, P., Lancon, A., O’Connell, R. W., and Parry, I. R., “CIRPASS Near-Infrared Integral Field Spectroscopy of Massive Star Clusters in the Starburst Galaxy NGC 1140,” *Monthly Notices Royal Astron. Soc.*, **352**, 263, 2004.
- Peterson, R. C., Carney, B. W., Dorman, B., Green, E. M., Landsman, W., Liebert, J., O’Connell, R. W., and Rood, R. T., “Old Metal-Rich Systems and the Mid-Ultraviolet,” in *Carnegie Observatories Astrophysics Series, Vol. 4: Origin and Evolution of the Elements* eds. A. McWilliam and M. Rauch (Pasadena: Carnegie Observatories, <http://www.ociw.edu/ociw/symposia/series/symposium4/proceedings.html>), 2004.
- O’Connell, R. W., “Ten Years of Super Star Cluster Research,” in *The Formation and Evolution of Massive Young Star Clusters*, eds. H. Lamers, A. Nota and L. Smith (San Francisco: ASP), p. 551, 2004. (Conference summary.)
- de Grijs, R., and O’Connell, R. W., “Starbursts - From 30 Doradus to Lyman-Break Galaxies,” *Astronomy & Geophysics*, **45**, 627, 2004.
- Kimble, R. A., MacKenty, J. W., and O’Connell, R. W., “Status and Performance of HST Wide Field Camera 3,” *Proc. SPIE*, **5487**, 266, 2004.

- O’Connell, R. W., *Introduction to IDL for Astronomers*, web-based guide to astronomical image processing with the Interactive Data Language, (<http://www.faculty.virginia.edu/rwoclass/astr511/IDLguide.html>), revised edition, 2005.
- Lancon, A., Mouhcine, M., Chane, E., Smith, L. J., Gallagher, J. S., Förster Schreiber, M., Vacca, W., de Grijs, R., and O’Connell, R. W., “The Spectra of Bright Near-IR Clusters in M82,” in *Highlights of Astronomy, Vol. 13*, ed. O. Engvold (San Francisco: ASP), p. 203, 2005.
- Peterson, R. C., Carney, B. W., Dorman, B., Green, E. M., Landsman, W., Liebert, J., O’Connell, R. W., Rood, R. T., and Schiavon, R. P., “Mid-ultraviolet spectral templates for single-age single-metallicity systems,” in *Starbursts: From 30 Doradus to Lyman Break Galaxies*, eds. R. de Grijs and R. M. Gonzalez Delgado (Dordrecht: Springer), p. 361, 2005.
- Smith, L. J., Westmoquette, M., Gallagher, J., O’Connell, R., and de Grijs, R., “HST/STIS Spectroscopy of the Starburst Core of M82,” in *Starbursts - From 30 Doradus to Lyman Break Galaxies*, eds. R. de Grijs and R. M. Gonzalez Delgado (Dordrecht: Kluwer), p. 227, 2005.
- O’Connell, R. W., “Conference Summary: Starbursts and Galaxy Evolution,” in *Starbursts - From 30 Doradus to Lyman Break Galaxies*, eds. R. de Grijs and R. M. Gonzalez Delgado (Dordrecht: Kluwer), p. 333, 2005.
- O’Connell, R. W., Martin, J. R., Burstein, D., Bohlin, R. C., Landsman, W. B., Freedman, I., and Rood, R. T., “A Nuclear Ultraviolet Flare in the gE Galaxy NGC 1399,” *Astrophys. J.*, **635**, 305, 2005.
- Sohn, S. T., O’Connell, R. W., Kundu, A., Landsman, W. B., Burstein, D., Bohlin, R., Frogel, J. A., and Rose, J. A., “Hot Populations in M87 Globular Clusters,” *Astron. J.*, **131**, 866, 2006.
- Gallagher, J. S., Smith, L. J., and O’Connell, R. W., “Physical Conditions and Feedback: HST Studies of Intense Star Forming Environments,” in *Planets to Cosmology: Essential Science in Hubble’s Final Years*, ed. M. Livio (Cambridge: Cambridge University Press), p. 63, 2006.
- Kimble, R. A., MacKenty, J. W., and O’Connell, R. W., “Status and Performance of the HST Wide Field Camera 3,” *Proc. SPIE*, **6265**, 626501, 2006.
- Green, J., Bally, J., Brown, R., Ebbets, D., Freedman, W., Grunsfeld, J., Huchra, J., Kilston, S., Kimble, R., Morse, J., O’Connell, R., Sembach, K., Shull, M., Siegmund, O., and Wilkinson, E., “Scientific Rationale for a 10-Meter UV-Optical Telescope,” in *Astrophysics in the Far Ultraviolet*, eds. G. Sonneborn, H. Moos, and B-G Andersson (San Francisco: ASP), p. 559, 2006.
- Smith, L. J., Westmoquette, M. S., Gallagher, J. S., O’Connell, R. W., Rosario, D. J., and de Grijs, R., “HST/STIS Optical Spectroscopy of Five Super Star Clusters in the Starburst Galaxy M82,” *Monthly Notices Royal Astron. Soc.*, **370**, 513, 2006.
- Kaviraj, S., Sohn, S. T., O’Connell, R. W., Lee, Y.-W., Yoon, S.-J., and Yi, S. K., “UV Bright Globular Clusters in M87: More Evidence for Super-Helium-Rich Stellar Populations?” *Monthly Notices Royal Astron. Soc.*, **377**, 987, 2007.
- O’Connell, R. W., “Facts of Life for New Teachers in the Astronomy Non-Majors Curriculum,” *Astron. Ed. Review*, Volume **6**, Issue 1, p. 114, (<http://aer.noao.edu/cgi-bin/article.pl?id=241>), 2007.
- Smith, L. J., Bastian, N., Konstantopoulos, I. S., Gallagher, J. S., Gieles, M., de Grijs, R., Larsen, S. S., O’Connell, R. W., and Westmoquette, M. S., “The Young Cluster Population of M82 Region B,” *Astrophys. J. Letters*, **667**, L145, 2007.
- Westmoquette, M. S., Smith, L. J., Gallagher, J. S., O’Connell, R. W., Rosario, D. J., and de Grijs, R., “HST/STIS Spectroscopy of the Environment in the Starburst Core of M82,” *Astrophys. J.*, **671**, 358, 2007.

- Scowen, Paul A., Jansen, Rolf, Beasley, Matthew, Cooke, Brian, Nikzad, Shouleh, Siegmund, Oswald, Woodruff, Robert, Calzetti, Daniela, Desch, Steven, Fullerton, Alex, Gallagher, John, Malhotra, Sangeeta, McCaughrean, Mark, O’Connell, Robert, Oey, Sally, Padgett, Debbie, Rhoads, James, Roberge, Aki, Smith, Nathan, Stern, Daniel, Tumlinson, Jason, and Windhorst, Rogier, “The Star Formation Observatory (SFO) Mission to Study Cosmic Origins Near and Far,” *Proc. SPIE*, **7010E**, 115, 2008.
- MacKenty, John W., Kimble, Randy A., O’Connell, Robert W., and Townsend, Jacqueline A., “Wide Field Camera 3: Science Capabilities and Plans for Flight Operation,” *Proc. SPIE*, **7010F**, 115, 2008.
- O’Connell, R. W., and Tegtmeier, V. L., “The Aztec Calendar Stone,” article in *Encyclopedia of Latin American History and Culture*, (New York: Macmillan), 2008.
- Martin, J., O’Connell, R. W., and Hibbard, J., “Near-UV Merger Signatures in Early Type Galaxies,” in *Ultraviolet Properties of Evolved Stellar Populations*, eds. M. Chavez, E. Bertone, D. Rosa-Gonzalez, and L. H. Rodriguez-Merino, p. 83, 2009.
- Sohn, S. T., O’Connell, R. W., Kundu, A., Landsman, W. B., Burstein, D., Bohlin, R. C., Frogel, J. A., Rose, J. A., “Hot Populations in M87 Globular Clusters,” in *Globular Clusters - Guides to Galaxies* (ESO Astrophysics Symposium), eds. T. Richtler, and S. Larsen (Berlin: Springer), p. 283, 2009.
- Dopita, Michael A., Blair, William P., Long, Knox S., Mutchler, Max, Whitmore, Bradley C., Kuntz, Kip D., Balick, Bruce, Bond, Howard E., Calzetti, Daniela, Carollo, Marcella, Disney, Michael, Frogel, Jay A., O’Connell, Robert, Hall, Donald, Holtzman, Jon A., Kimble, Randy A., MacKenty, John, McCarthy, Patrick, Paresce, Francesco, Saha, Abhijit, Silk, Joe, Sirianni, Marco, Trauger, John, Walker, Alistair R., Windhorst, Rogier, Young, Erick, “Supernova Remnants and the Interstellar Medium of M83: Imaging & Photometry with WFC3 on HST,” *Astrophys. J.*, **710**, 964, 2010.
- O’Connell, R. W., *Introduction to IDL for Astronomers*, web-based guide to astronomical image processing with the Interactive Data Language, (<http://www.faculty.virginia.edu/rwoclass/astr511/IDLguide.html>), revised edition, 2010.
- Donahue, Megan, Bruch, Seth, Wang, Emily, Voit, G. Mark, Hicks, Amalia K., Haarsma, Deborah B., Croston, Judith H., Pratt, Gabriel W., Pierini, Daniele, O’Connell, Robert W., and Böhringer, H., “Star Formation and UV Colors of the Brightest Cluster Galaxies in the Representative XMM-Newton Cluster Structure Survey,” *Astrophys. J.*, **715**, 881, 2010.
- de Messières, G. E., O’Connell, R. W., McNamara, B. R., Donahue, M., Nulsen, P. E. J., Voit, G. M., and Wise, M. W., “Spitzer Mid-Infrared Spectra of Cool-Core Galaxy Clusters,” in *Galaxy Wars: Stellar Populations and Star Formation in Interacting Galaxies*, eds. B. Smith, N. Bastian, S. Higdon, and J. Higdon (San Francisco: ASP), p. 105, 2010.
- Dopita, Michael A., Calzetti, Daniela, Maíza Appelániz, Jesus, Blair, William P., Long, Knox S., Mutchler, Max, Whitmore, Bradley C., Bond, Howard E., MacKenty, John, Balick, Bruce, Carollo, Marcella, Disney, Michael, Frogel, Jay A., O’Connell, Robert, Hall, Donald, Holtzman, Jon A., Kimble, Randy A., McCarthy, Patrick, Paresce, Francesco, Saha, Abhijit, Walker, Alistair R., Silk, Joe, Sirianni, Marco, Trauger, John, Windhorst, Rogier, and Young, Erick, “Supernova Remnants, Planetary Nebulae and the Distance to NGC 4214,” *Astrophysics and Space Science*, **330**, 123, 2010.
- Yan, Haojing, Windhorst, Rogier, Hathi, Nimish, Cohen, Seth, Ryan, Russell, O’Connell, Robert, and McCarthy, Patrick, “Galaxy Formation in the Reionization Epoch as Hinted by Wide Field Camera 3 Observations of the Hubble Ultra Deep Field,” *Research in Astronomy and Astrophysics*, **10**, 867, 2010.

- Hathi, N. P., Ryan, R. E., Jr., Cohen, S. H., Yan, H., Windhorst, R. A., McCarthy, P. J., O’Connell, R. W., Koekemoer, A. M., Rutkowski, M. J., Balick, B., Bond, H. E., Calzetti, D., Disney, M. J., Dopita, M. A., Frogel, J. A., Hall, D. N. B., Holtzman, J. A., Kimble, R. A., Paresce, F., Saha, A., Silk, J. I., Trauger, J. T., Walker, A. R., Whitmore, B. C., and Young, E. T., “UV-dropout Galaxies in the GOODS-South Field from WFC3 Early Release Science Observations,” *Astrophys. J.*, **720**, 1708, 2010.
- Beccari, G., Spezzi, L., De Marchi, G., Paresce, F., Young, E., Andersen, M., Panagia, N., Balick, B., Bond, H. E., Calzetti, D., Carollo, C. M., Disney, M. J., Dopita, M. A., Frogel, J. A., Hall, D. N. B., Holtzman, J. A., Kimble, R. A., McCarthy, P. J., O’Connell, R. W., Saha, A., Silk, J. I., Trauger, J. T., Walker, A. R., Whitmore, B. C., and Windhorst, R. A., “Progressive Star Formation in the Young Galactic Super Star Cluster NGC 3603,” *Astrophys. J.*, **720**, 1108, 2010.
- Chandar, Rupali, Whitmore, Bradley, C., Kim, Hwihyun, Kaleida, Catherine, Mutchler, Max, O’Connell, Robert W., Calzetti, Daniela, Saha, Abhijit, Balick, Bruce, Bond, Howard E., Carollo, C. Marcella, Disney, Michael J., Dopita, Michael A., Frogel, Jay A., Hall, Donald N. B., Holtzman, Jon A., Kimble, Randy A., McCarthy, Patrick J., Paresce, Francesco, Silk, Joseph I., Trauger, John, Walker, Alistair R., Windhorst, Rogier A., and Young, Erick, “The Luminosity, Mass, and Age Distributions of Compact Star Clusters in M83 Based on HST/WFC3 Observations,” *Astrophys. J.*, **719**, 966, 2010.
- MacKenty, John W., Kimble, Randy A., O’Connell, Robert W., and Townsend, Jacqueline A. 2010, “On-Orbit Performance of HST Wide Field Camera 3,” in *Space Telescopes & Instrumentation 2010*, eds. J. Oschmann, M. Clampin, and H. MacEwen, Proc. SPIE, 7731, 77310Z-12, 2010.
- Penny, Samantha J., Conselice, Christopher J., De Rijcke, Sven, Held, Enrico V., Gallagher, John S., III, and O’Connell, Robert W., “Hubble Space Telescope Survey of the Perseus Cluster—III: The Effect of Local Environment on Dwarf Galaxies,” *Monthly Notices Royal Astron. Soc.*, **410**, 1076, 2011.
- Straughn, A. N., Kuntschner, H., Kuemmel, M., Walsh, J. R., Cohen, S. H., Gardner, J. P., Windhorst, R. A., O’Connell, R. W., Pirzkal, N., Meurer, G., McCarthy, P. J., Hathi, N. P., Malhotra, S., Rhoads, J., Balick, B., Bond, H. E., Calzetti, D., Disney, M. J., Dopita, M. A., Frogel, J. A., Hall, D. N. B., Holtzman, J. A., Kimble, R. A., Luppino, G., Paresce, F., Saha, A., Silk, J. I., Trauger, J. T., Walker, A. R., Whitmore, B. C., and Young, E. T., “HST WFC3 Early Release Science: Emission-Line Galaxies from IR Grism Observations,” *Astron. J.*, **141**, #14, 2011.
- Crockett, R. M., Kaviraj, S., Silk, J., Whitmore, B. C., O’Connell, R. W., Mutchler, M., Balick, B., Bond, H. E., Calzetti, D., Carollo, C. M., Disney, M. J., Dopita, M. A., Frogel, J. A., Hall, D. N. B., Holtzman, J. A., Kimble, R. A., McCarthy, P. J., Paresce, F., Saha, A., Trauger, J. T., Walker, A. R., Windhorst, R. A., Young, E. T., Jeong, H., and Yi, S. K., “Anatomy of a Post-Starburst Minor Merger: A Multi-Wavelength WFC3 Study of NGC 4150,” *Astrophys. J.*, **727**, #115, 2011.
- Whitmore, Bradley C., Chandar, Rupali, Kim, Hwihyun, Kaleida, Catherine, Mutchler, Max, Stankiewicz, Matt, Calzetti, Daniela, Saha, Abhijit, O’Connell, Robert, Balick, Bruce, Bond, Howard E., Carollo, Marcella, Disney, Michael J., Dopita, Michael A., Frogel, Jay A., Hall, Donald N. B., Holtzman, Jon A., Kimble, Randy A., McCarthy, Patrick J., Paresce, Francesco, Silk, Joseph I., Trauger, John, Walker, Alistair, Windhorst, Rogier A., and Young, Erick T., “Using H $\alpha$  Morphology and Surface Brightness Fluctuations to Age-date Star Clusters in M83,” *Astrophys. J.*, **729**, #78, 2011.
- Spezzi, Loredana, Beccari, Giacomo, De Marchi, Guido, Young, Erick T., Paresce, Francesco, Dopita, Michael A., Andersen, Morten, Panagia, Nino, Balick, Bruce, Bond, Howard E., Calzetti, Daniela, Carollo, C. Marcella, Disney, Michael J., Frogel, Jay A., Hall, Donald N. B., Holtzman, Jon A., Kimble, Randy A., McCarthy, Patrick J., O’Connell, Robert W., Ryan, Russell E., Jr., Saha, Abhijit, Silk, Joseph I., Trauger, John, Walker, Alistair, Whitmore, Bradley C., and Windhorst, Rogier A., “Detection of Brown Dwarf Like Objects in the Core of NGC 3603,” *Astrophys. J.*, **731**, #1, 2011.

- Hong, Sungryong, Calzetti, Daniela, Dopita, Michael A., Blair, William P., Whitmore, Bradley C., Balick, Bruce, Bond, Howard E., Carollo, Marcella, Disney, Michael J., Frogel, Jay A., Hall, Donald, Holtzman, Jon A., Kimble, Randy A., McCarthy, Patrick J., O'Connell, Robert W., Paresce, Francesco, Saha, Abhijit, Silk, Joseph I., Trauger, John T., Walker, Alistair R., Windhorst, Rogier A., Young, Erick T., and Mutchler, Max, "Large-scale Shock-ionized and Photoionized Gas in M83: The Impact of Star Formation," *Astrophys. J.*, **731**, #45, 2011.
- Windhorst, Rogier A., Cohen, Seth H., Hathi, Nimish P., McCarthy, Patrick J., Ryan, Russell E., Jr., Yan, Haojing, Baldry, Ivan K., Driver, Simon P., Frogel, Jay A., Hill, David T., Kelvin, Lee S., Koekemoer, Anton M., Mechtley, Matt, O'Connell, Robert W., Robotham, Aaron S. G., Rutkowski, Michael J., Seibert, Mark, Straughn, Amber N., Tuffs, Richard J., Balick, Bruce, Bond, Howard E., Bushouse, Howard, Calzetti, Daniela, Crockett, Mark, Disney, Michael J., Dopita, Michael A., Hall, Donald N. B., Holtzman, Jon A., Kaviraj, Sugata, Kimble, Randy A., MacKenty, John W., Mutchler, Max, Paresce, Francesco, Saha, Abihit, Silk, Joseph I., Trauger, John, Walker, Alistair R., Whitmore, Bradley C., and Young, Erick, "The Hubble Space Telescope Wide Field Camera 3 Early Release Science Data: Panchromatic Faint Object Counts for 0.2-2 microns Wavelength," *Astrophys. J. Supplements*, **193**, #27, 2011.
- Aihara, Hiroaki, et al., (including O'Connell, Robert W.), "The Eighth Data Release of the Sloan Digital Sky Survey: First Data from SDSS-III," *Astrophys. J. Supplements*, **193**, #29, 2011.
- Donahue, M., de Messières, G. E., O'Connell, R. W., Voit, G. M., Hoffer, A., McNamara, B. R., and Nulsen, P. E. J., "Polycyclic Aromatic Hydrocarbons, Ionized Gas, and Molecular Hydrogen in Brightest Cluster Galaxies of Cool Core Clusters of Galaxies," *Astrophys. J.*, **732**, #40, 2011.
- Finkelstein, S. L., Cohen, S. H., Windhorst, R. A., Ryan, R. E., Hathi, N. P., Finkelstein, K. D., Anderson, J., Grogin, N. A., Koekemoer, A. M., Malhotra, S., Mutchler, M., Rhoads, J. E., McCarthy, P. J., O'Connell, R. W., Balick, B., Bond, H. E., Calzetti, D., Disney, M. J., Dopita, M. A., Frogel, J. A., Hall, D. N. B., Holtzman, J. A., Kimble, R. A., Luppino, G., Paresce, F., Saha, A., Silk, J. I., Trauger, J. T., Walker, A. R., Whitmore, B. C., and Young, E. T., "Hubble Space Telescope Imaging of Lyman Alpha Emission at  $z=4.4$ ," *Astrophys. J.*, **735**, #5, 2011.
- Eisenstein, D. J., et al., (including O'Connell, Robert W.), "SDSS-III: Massive Spectroscopic Surveys of the Distant Universe, the Milky Way, and Extra-Solar Planetary Systems," *Astron. J.*, **142**, #72, 2011.
- De Marchi, Guido, Paresce, Francesco, Panagia, Nino, Beccari, Giacomo, Spezzi, Loredana, Sirianni, Marco, Andersen, Morten, Mutchler, Max, Balick, Bruce, Dopita, Michael A., Frogel, Jay A., Whitmore, Bradley C., Bond, Howard, Calzetti, Daniela, Carollo, C. Marcella, Disney, Michael J., Hall, Donald N. B., Holtzman, Jon A., Kimble, Randy A., McCarthy, Patrick J., O'Connell, Robert W., Saha, Abhijit, Silk, Joseph I., Trauger, John T., Walker, Alistair R., Windhorst, Rogier A., and Young, Erick T., "Star Formation in 30 Doradus," *Astrophys. J.*, **739**, #27, 2011.
- Rutkowski, M. J., Cohen, S. H., Kaviraj, S., O'Connell, R. W., Hathi, N. P., Windhorst, R. A., Ryan, R. E., Jr., Crockett, R. M., Yan, H., Kimble, R. A., Silk, J., McCarthy, P. J., Koekemoer, A., Balick, B., Bond, H. E., Calzetti, D., Disney, M. J., Dopita, M. A., Frogel, J. A., Hall, D. N. B., Holtzman, J. A., Paresce, F., Saha, A., Trauger, J. T., Walker, A. R., Whitmore, B. C., and Young, E. T., "A Panchromatic Catalog of Early-type Galaxies at Intermediate Redshift in the Hubble Space Telescope Wide Field Camera 3 Early Release Science Field," *Astrophys. J. Supplements*, **199**, #4, 2012.
- Crockett, R. Mark, Shabala, Stanislav S., Kaviraj, Sugata, Antonuccio-Delogu, Vincenzo, Silk, Joseph, Mutchler, Max, O'Connell, Robert W., Rejkuba, Marina, Whitmore, Bradley C., and Windhorst, Rogier A., "Triggered Star Formation in the Inner Filament of Centaurus A," *Monthly Notices Royal Astron. Soc.*, **421**, 1603, 2012.



- O’Connell, R. W., *Introduction to IDL for Astronomers*, web-based guide to astronomical image processing with the Interactive Data Language, ([http://www.faculty.virginia.edu/rwoclass/](http://www.faculty.virginia.edu/rwoclass/astr511/IDLguide.html)  
[astr511/IDLguide.html](http://www.faculty.virginia.edu/rwoclass/astr511/IDLguide.html)). Translations: German, Russian, Belorussian. 2012.
- Ryan, R. E., Jr., McCarthy, P. J., Cohen, S. H., Yan, H., Hathi, N. P., Koekemoer, A. M., Rutkowski, M. J., Mechtley, M. R., Windhorst, R. A., O’Connell, R. W., Balick, B., Bond, H. E., Bushouse, H., Calzetti, D., Crockett, R. M., Disney, M., Dopita, M. A., Frogel, J. A., Hall, D. N. B., Holtzman, J. A., Kaviraj, S., Kimble, R. A., MacKenty, J., Mutchler, M., Paresce, F., Saha, A., Silk, J. I., Trauger, J., Walker, A. R., Whitmore, B. C., and Young, E., “The Size Evolution of Passive Galaxies: Observations from the Wide-Field Camera 3 Early Release Science Program,” *Astrophys. J.*, **749**, #53, 2012.
- Schiavon, Ricardo P., Dalessandro, Emanuele, Sohn, Sangmo T., Rood, Robert T., O’Connell, Robert W., Ferraro, Francesco R., Lanzoni, Barbara, Beccari, Giacomo, Rey, Soo-Chang, Rhee, Jaehyon, Rich, R. Michael, Yoon, Suk-Jin, and Lee, Young-Wook, “Ultraviolet Properties of Galactic Globular Clusters with GALEX I. The Color-Magnitude Diagrams,” *Astron. J.*, **143**, 121, 2012.
- Kaviraj, Sugata, Crockett, R. Mark, Whitmore, Bradley C., Silk, Joseph, O’Connell, Robert W., Windhorst, Rogier A., Mutchler, Max, Rejkuba, Marina, Yi, Sukyoung, Frogel, Jay A., and Calzetti, Daniela, “A WFC3 Study of Globular Clusters in NGC 4150: An Early-Type Minor Merger,” *Monthly Notices Royal Astron. Soc.*, **422**, 96, 2012.
- Xia, Lifang, Malhotra, Sangeeta, Rhoads, James, Pirzkal, Nor, Straughn, Amber, Finkelstein, Steven, Cohen, Seth, Kuntschner, Harald, Kuemmel, Martin, Walsh, Jeremy, Windhorst, Rogier A., and O’Connell, Robert., “Metallicities of Emission-line Galaxies from HST ACS PEARS and HST WFC3 ERS Grism Spectroscopy at  $0.6 < z < 2.4$ ,” *Astron. J.*, **155**, #28, 2012.
- Kim, H., Whitmore, B. C., Chandar, R., Saha, A., Kaleida, C. C., Mutchler, M., Cohen, S. H., Calzetti, D., O’Connell, R. W., Windhorst, R. A., Balick, B., Bond, H. E., Carollo, C. M., Disney, M. J., Dopita, M. A., Frogel, J. A., Hall, D. N. B., Holtzman, J. A., Kimble, R. A., McCarthy, P. J., Paresce, F., Silk, J. I., Trauger, J. T., Walker, A. R., and Young, E. T., “The Resolved Stellar Population in 50 Regions of M83 from HST/WFC3 Early Release Science Observations,” *Astrophys. J.*, **753**, #26, 2012.
- Ferreras, Ignacio, Pasquali, Anna, Khochfar, Sadegh, Kuntschner, Harald, Kuemmel, Martin, Pirzkal, Nor, Windhorst, Rogier, Malhotra, Sangeeta, Rhoads, James, O’Connell, Robert W., Cohen, Seth, Hathi, Nimish P., Ryan, Russell E., and Yan, Haojing, “The Road to the Red Sequence: A Detailed View of the Formation of a ‘Red and Dead’ Massive Galaxy at  $z \sim 2$ ,” *Astron. J.*, **144**, #47, 2012.
- Nidever, David L., Zasowski, Gail, Majewski, Steven R., Bird, Jonathan, Robin, Annie C., Martinez-Valpuesta, Inma, Beaton, Rachael L., Schoenrich, Ralph, Schultheis, Mathias, Wilson, John C., Skrutskie, Michael F., O’Connell, Robert W., Shetrone, Matthew, Schiavon, Ricardo P., Johnson, Jennifer A., Weiner, Benjamin, Gerhard, Ortwin, Schneider, Donald P., Allende Prieto, Carlos, Sellgren, Kris, Bizyaev, Dmitry, Brewington, Howard, Brinkmann, Jon, Eisenstein, Daniel J., Frinchaboy, Peter M., Elia Garcia Perez, Ana, Holtzman, Jon, Hearty, Fred R., Malanushenko, Elena, Malanushenko, Viktor, Muna, Demitri, Oravetz, Daniel, Pan, Kaike, Simmons, Audrey, Snedden, Stephanie, and Weaver, Benjamin A., “The Apache Point Observatory Galactic Evolution Experiment: First Detection of High-velocity Milky Way Bar Stars,” *Astrophys. J. Letters*, **755**, L25, 2012.
- Kimm, T., Kaviraj, S., Devriendt, J. E. G., Cohen, S. H., Windhorst, R. A., Dubois, Y., Slyz, A., Hathi, N. P., Ryan, R. E., O’Connell, R. W., Dopita, M. A., and Silk, J., “Constraining Stellar Assembly and AGN Feedback at the Peak Epoch of Star Formation,” *Monthly Notices Royal Astron. Soc.*, **425**, L96, 2012.
- Dalessandro, E., Schiavon, R. P., Rood, R. T., Ferraro, F. R., Sohn, S. T., Lanzoni, B., and O’Connell, R. W., “UV Properties of Galactic Globular Clusters with GALEX II. Integrated Colors,” *As-*

tron. J., **144**, #126, 2012.

- Kaviraj, S., Crockett, R. M., Silk, J., Ellis, R. S., Yi, S. K., O’Connell, R. W., Windhorst, R., and Whitmore, B. C., “Minor-Merger-Driven Growth of Early-Type Galaxies Over the Last 8 Billion Years,” in *The Spectral Energy Distribution of Galaxies (IAU Symposium 284)*, eds. R. J. Tuffs and C. C. Popescu, p. 460, 2012.
- Bovy, Jo, Allende Prieto, Carlos, Beers, Timothy C., Bizyaev, Dmitry, da Costa, Luiz N., Cunha, Katia, Ebelke, Garrett L., Eisenstein, Daniel J., Frinchaboy, Peter M., Garcia Perez, Ana Elia, Girardi, Leo, Hearty, Fred R., Hogg, David W., Holtzman, Jon, Maia, Marcio A. G., Majewski, Steven R., Malanushenko, Elena, Malanushenko, Viktor, Meszaros, Szabolcs, Nidever, David L., O’Connell, Robert W., O’Donnell, Christine, Oravetz, Audrey, Pan, Kaike, Rocha-Pinto, Helio J., Schiavon, Ricardo P., Schneider, Donald P., Schultheis, Mathias, Skrutskie, Michael, Smith, Verne V., Weinberg, David H., Wilson, John C., and Zasowski, Gail, “The Milky Way’s Circular-Velocity Curve Between 4 and 14 kpc From APOGEE Data,” *Astrophys. J.*, **759**, #131, 2012.
- Kaviraj, S., Cohen, S., Ellis, R. S., Peirani, S., Windhorst, R. A., O’Connell, R. W., Silk, J., Whitmore, B. C., Hathi, N. P., Ryan, R. E., Dopita, M. A., Frogel, J. A., and Dekel, A., “Newborn Spheroids at High Redshift: When and How did the Dominant, Old Stars in Today’s Massive Galaxies Form?” *Monthly Notices Royal Astron. Soc.*, **428**, 925, 2013.
- Hathi, N. P., Cohen, S. H., Ryan, R. E., Jr, Finkelstein, S. L., McCarthy, P. J., Windhorst, R. A., Yan, H., Koekemoer, A. M., Rutkowski, M. J., O’Connell, R. W., Straughn, A. N., Balick, B., Bond, H. E., Calzetti, D., Disney, M. J., Dopita, M. A., Frogel, J. A., Hall, D. N. B., Holtzman, J. A., Kimble, R. A., Paresce, F., Saha, A., Silk, J. I., Trauger, J. T., Walker, A. R., Whitmore, B. C., and Young, E. T., “Stellar Populations of Lyman Break Galaxies at  $z=1-3$  in the HST/WFC3 Early Release Science Observations,” *Astrophys. J.*, **765**, #88, 2013.
- Kaviraj, S., Cohen, S., Windhorst, R. A., Silk, J., O’Connell, R. W., Dopita, M. A., Dekel, A., Hathi, N. P., Straughn, A., and Rutkowski, M., “The Insignificance of Major Mergers in Driving Star Formation at  $z = 2$ ,” *Monthly Notices Royal Astron. Soc.*, **429**, L40, 2013.
- Dalessandro, E., Schiavon, R. P., Ferraro, F. R., Sohn, S. T., Lanzoni, B., and O’Connell, R. W., “Ultraviolet Properties of Galactic Globular Clusters With GALEX,” in *Reading the Book of Globular Clusters With the Lens of Stellar Evolution, Mem della Societa Astron Italiana*, **84**, 75, 2013.
- Garcia Perez, Ana E., Cunha, Katia, Shetrone, Matthew, Majewski, Steven R., Johnson, Jennifer A., Smith, Verne V., Schiavon, Ricardo P., Holtzman, Jon, Nidever, David, Zasowski, Gail, Allende Prieto, Carlos, Beers, Timothy C., Bizyaev, Dmitry, Ebelke, Garrett, Eisenstein, Daniel J., Frinchaboy, Peter M., Girardi, Leo, Hearty, Fred R., Malanushenko, Elena, Malanushenko, Viktor, Meszaros, Szabolcs, O’Connell, Robert W., Oravetz, Daniel, Pan, Kaike, Robin, Annie C., Schneider, Donald P., Schultheis, Mathias, Skrutskie, Michael F., Simmons, and, Audrey, Wilson, John C., “Very Metal-Poor Stars in the Outer Galactic Bulge Found by the APOGEE Survey,” *Astrophys. J.*, **767**, #L9, 2013.
- Andrews, J. E., Calzetti, D., Chandar, R., Lee, J. C., Elmegreen, B. G., Kennicutt, R. C., Whitmore, B., Kissel, J. S., da Silva, Robert L., Krumholz, M. R., O’Connell, R. W., Dopita, M. A., and Kim, Hwihyun, “An IMF Study of the Dwarf Starburst Galaxy NGC 4214,” *Astrophys. J.*, **767**, #51, 2013.
- O’Connell, R. W., *IDL Tutorial*, web-based Interactive Data Language tutorial and data analysis exercises, (<http://www.faculty.virginia.edu/rwoclass/astr511/IDLexercises>), revised edition, 2013.
- Dalessandro, E., Ferraro, F. R., Lanzoni, B., Schiavon, R. P., O’Connell, R. W., and Beccari, G., “Ultraviolet Observations of the Globular Cluster M10 from HST and GALEX: The BSS Population,” *Astrophys. J.*, **770**, #45, 2013.
- Zasowski, G., Johnson, Jennifer A., Frinchaboy, P. M., Majewski, S. R., Nidever, D. L., Rocha Pinto,

- H. J., Girardi, L., Andrews, B., Chojnowski, S. D., Cudworth, K. M., Jackson, K., Munn, J., Skrutskie, M. F., Beaton, R. L., Blake, C. H., Covey, K., Deshpande, R., Epstein, C., Fabbian, D., Fleming, S. W., Garcia Hernandez, D. A., Herrero, A., Mahadevan, S., Meszaros, Sz., Schultheis, M., Sellgren, K., Terrien, R., van Saders, J., Allende Prieto, C., Bizyaev, D., Burton, A., Cunha, K., da Costa, L. N., Hasselquist, S.; Hearty, F.; Holtzman, J.; Garcia Perez, A. E., Maia, M. A. G., O'Connell, R. W., O'Donnell, C., Pinsonneault, M., Santiago, B. X., Schiavon, R. P., Shetrone, M., Smith, V., and Wilson, J. C., "Target Selection for the Apache Point Observatory Galactic Evolution Experiment (APOGEE)," *Astron. J.*, **146**, #81, 2013.
- Majewski, Steven R., Hasselquist, Sten, Lokas, Ewa L., Nidever, David L., Frinchaboy, Peter M., Garcia Perez, Ana E., Johnston, Kathryn V., MCszC!ros, Szabolcs, Shetrone, Matthew, Allende Prieto, Carlos, Beaton, Rachael L., Beers, Timothy C., Bizyaev, Dmitry, Cunha, Katia, Damke, Guillermo, Ebelke, Garrett, Eisenstein, Daniel J., Hearty, Fred, Holtzman, Jon, Johnson, Jennifer A., Law, David R., Malanushenko, Viktor, Malanushenko, Elena, O'Connell, Robert W., Oravetz, Daniel, Pan, Kaike, Schiavon, Ricardo P., Schneider, Donald P., Simmons, Audrey, Skrutskie, Michael F., Smith, Verne V., Wilson, John C., and Zasowski, Gail, "Discovery of a Dynamical Cold Point in the Heart of the Sagittarius dSph Galaxy with Observations from the APOGEE Project," *Astrophys. J. Letters*, **777**, #L13, 2013.
- Liu, Guilin, Calzetti, Daniela, Hong, Sungryong, Whitmore, Bradley, Chandar, Rupali, O'Connell, Robert W., Blair, William P., Cohen, Seth H., Frogel, Jay A., and Kim, Hwhiyun, "Extinction and Dust Geometry in M83 H II Regions: An Hubble Space Telescope/WFC3 Study," *Astrophys. J. Letters*, **778**, #L41, 2013.
- O'Connell, Robert W., "Conference Summary: The Once and Future World of UV Astronomy," (European Southern Observatory conference), <http://people.virginia.edu/~rwo/rwo-OFWUA-final-1-v2.pdf>, 2013.
- Sanna, N., Dalessandro, E., Ferraro, F. R., Lanzoni, B., Miocchi, P., O'Connell, R. W., "The WFPC2 Ultraviolet Survey: The Blue Straggler Population in NGC 5824," *Astrophys. J.*, **780**, #90, 2014.
- Ahn, Christopher P., et al. (including O'Connell, Robert W.), "The Tenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Apache Point Observatory Galactic Evolution Experiment," *Astrophys. J. Supplements*, **211**, 17, 2014.
- Anders, F., Chiappini, C., Santiago, B. X., Rocha-Pinto, H. J., Girardi, L., da Costa, L. N., Maia, M. A. G., Steinmetz, M., Minchev, I., Schultheis, M., Boeche, C., Miglio, A., MontalbC!n, J., Schneider, D. P., Beers, T. C., Cunha, K., Allende Prieto, C., Balbinot, E., Bizyaev, D., Brauer, D. E., Brinkmann, J., Frinchaboy, P. M., Garcia Perez, A. E., Hayden, M. R., Hearty, F. R., Holtzman, J., Johnson, J., Kinemuchi, K., Majewski, S. R., Malanushenko, E., Malanushenko, V., Nidever, D. L., O'Connell, R. W., Pan, K., Robin, A. C., Schiavon, R. P., Shetrone, M., Skrutskie, M. F., Smith, V. V., Stassun, K., and Zasowski, G., "Chemodynamics of the Milky Way. I. The first year of APOGEE Data," *Astron. & Astrophys.*, **564**, #A115, 2014.
- Chandar, R., Whitmore, B. C., Calzetti, D., and O'Connell, R., "Star Cluster Mass and Age Distributions of Two Fields in M83 Based on HST/WFC3 Observations," *Astrophys. J.*, **787**, #17, 2014.
- Hayden, Michael R., Holtzman, Jon A., Bovy, Jo, Majewski, Steven R., Allende Prieto, Carlos, Beers, Timothy C., Cunha, Katia, Frinchaboy, Peter M., Garcia Perez, Ana E., Girardi, Leo, Hearty, Fred R., Johnson, Jennifer A., Lee, Young Sun, Nidever, David, Schiavon, Ricardo P., Schlesinger, Katharine J., Schneider, Donald P., Schultheis, Mathias, Shetrone, Matthew, Smith, Verne V., Zasowski, Gail, Bizyaev, Dmitry, Feuillet, Diane, Hasselquist, Sten, Kinemuchi, Karen, Malanushenko, Elena, Malanushenko, Viktor, O'Connell, Robert, Pan, Kaike, and Stassun, Keivan, "Chemical Cartography with APOGEE: Large-scale Mean Metallicity Maps of the Milky Way," *Astron. J.*, **147**, #116, 2014.
- Westmoquette, M. S., Bastian, M., Smith, L. J., Seth, A. C., Gallagher, J. S., O'Connell, R. W., Ryon, J., Silich, S., Mayya, Y. D., Munoz-Tunon, C., and Rosa Gonzalez, D., "An Optical-Near-IR Study

- of a Triplet of Super Star Clusters in the Starburst Core of M82,” *Astrophys. J.*, **789**, #94, 2014.
- Bovy, Jo, et al. (including O’Connell, Robert W.), “The APOGEE Red-clump Catalog: Precise Distances, Velocities, and High-resolution Elemental Abundances over a Large Area of the Milky Way’s Disk,” *Astrophys. J.*, **790**, #127, 2014.
- Andrews, J. E., Calzetti, D., Chandar, R., Elmegreen, B. G., Kennicutt, R. C., Kim, Hwihyun, Krumholz, Mark R., Lee, J. C., McElwee, Sean, O’Connell, R. W., and Whitmore, B., “Big Fish in Small Ponds: Massive Stars in the Low-mass Clusters of M83,” *Astrophys. J.*, **793**, #4, 2014.
- Kaviraj, S., Huertas-Company, M., Cohen, S., Peirani, S., Windhorst, R. A., O’Connell, R. W., Silk, J., Dopita, M. A., Hathi, N. P., Koekemoer, A. M., Mei, S., Rutkowski, M., Ryan, R. E., and Shankar, F., “The Role of Major Mergers in the Size Growth of Intermediate-Mass Spheroids,” *Monthly Notices Royal Astron. Soc.*, **443**, 1861, 2014.
- Canning, R. E. A., Ryon, J. E., Gallagher, J. S., Kotulla, R., O’Connell, R. W., Fabian, A. C., Johnstone, R. M., Conselice, C. J., Hicks, A., Rosario, D., Schiavon, R., and Wyse, R. F. G., “Filamentary Star Formation in NGC 1275,” *Monthly Notices Royal Astron. Soc.*, **444**, 336, 2014.
- Nidever, David L., et al. (including O’Connell, Robert W.), “Tracing Chemical Evolution over the Extent of the Milky Way’s Disk with APOGEE Red Clump Stars,” *Astrophys. J.*, **796**, #38, 2014.
- Alam, Shadab, et al. (including O’Connell, Robert W.), “The Eleventh and Twelfth Data Releases of the Sloan Digital Sky Survey: Final Data from SDSS-III,” *Astrophys. J. Supplements*, **219**, #12, 2015.
- Hayden, Michael R., et al. (including O’Connell, Robert), “Chemical Cartography with APOGEE: Metallicity Distribution Functions and the Chemical Structure of the Milky Way Disk,” *Astrophys. J.*, **808**, #132, 2015.
- Holtzman, Jon A., et al. (including O’Connell, Robert W.), “Abundances, Stellar Parameters, and Spectra from the SDSS-III/APOGEE Survey,” *Astron. J.*, **150**, #148, 2015.
- Russell, H. R., McNamara, B. R., Fabian, A. C., Nulsen, P. E. J., Edge, A. C., Combes, F., Murray, N. W., Parrish, I. J., Salomé, P., Sanders, J. S., Baum, S. A., Donahue, M., Main, R. A., O’Connell, R. W., O’Dea, C. P., Oonk, J. B. R., Tremblay, G., Vantyghem, A. N., Voit, G. M., “ALMA Observations of Cold Molecular Gas Filaments Trailing Rising Radio Bubbles in PKS 0745-191,” *Monthly Notices Royal Astron. Soc.*, **438**, 3134, 2016.
- Garcia Perez, Ana E., et al., (including O’Connell, Robert W.), “ASPCAP: The APOGEE Stellar Parameter and Chemical Abundances Pipeline,” *Astron. J.*, **151**, #144, 2016.
- Tilvi, V., et al., (including O’Connell, R.), “First Results from the Faint Infrared Grism Survey (FIGS): First Simultaneous Detection of Ly $\alpha$  Emission and Lyman Break from a Galaxy at  $z = 7.51$ ,” *Astrophys. J. Letters*, **827**, #L14, 2016.
- Sakari, Charli M., Shetrone, Matthew D., Schiavon, Ricardo P., Bizyaev, Dmitry, Allende Prieto, Carlos, Beers, Timothy C., Caldwell, Nelson, García-Hernández, D. A., Lucatello, Sara, Majewski, Steven, O’Connell, Robert W., Pan, Kaike, Strader, Jay, “Infrared High-resolution Integrated Light Spectral Analyses of M31 Globular Clusters from APOGEE,” *Astrophys. J.*, **829**, #116, 2016.
- Vantyghem, A. N., McNamara, B. R., Russell, H. R., Hogan, M. T., Edge, A. C., Nulsen, P. E. J., Fabian, A. C., Combes, F., Salomé, P., Baum, S. A., Donahue, M., Main, R. A., Murray, N. W., O’Connell, R. W., O’Dea, C. P., Oonk, J. B. R., Parrish, I. J., Sanders, J. S., Tremblay, G., Voit, G. M., “Molecular Gas Along a Bright H $\alpha$  Filament in 2A 0335+096 Revealed by ALMA,” *Astrophys. J.*, **832**, #148, 2016.
- Schiavon, Ricardo P., et al., (including O’Connell, Robert W.), “Chemical Tagging With APOGEE: Discovery of a Large Population of N-rich Stars in the Inner Galaxy,” *Monthly Notices Royal Astron. Soc.*, **465**, 501, 2017.

- Schiavon, Ricardo P., et al., (including O’Connell, Robert W.), “APOGEE Chemical Abundances of Globular Cluster Giants in the Inner Galaxy,” *Monthly Notices Royal Astron. Soc.*, **466**, 1010, 2017.
- Grazian, A., et al., (including O’Connell, R. W.), “Lyman Continuum Escape Fraction of Faint Galaxies at  $z \sim 3.3$  in the CANDELS/GOODS-North, EGS, and COSMOS fields with LBC,” *Astron. & Astrophys.*, **602**, #A18, 2017.
- Majewski, Steven R., et al. (including O’Connell, Robert W.), “The Apache Point Observatory Galactic Evolution Experiment (APOGEE),” *Astron. J.*, **154**, #94, 2017.
- Pirzkal, Norbert, et al. (including O’Connell, Robert W.), “FIGS–Faint Infrared Grism Survey: Description and Data Reduction,” *Astrophys. J.*, **846**, #84, 2017.
- Smith, Brent M., Windhorst, Rogier A., Jansen, Rolf A., Cohen, Seth H., Jiang, Linhua, Dijkstra, Mark, Koekemoer, Anton M., Bielby, Richard, Inoue, Akio K., MacKenty, John W., O’Connell, Robert W., Silk, Joseph I., “Hubble Space Telescope Wide Field Camera 3 Observations of Escaping Lyman Continuum Radiation from Galaxies and Weak AGN at Redshifts  $z \sim 2.3\text{--}4.1$ ,” *Astrophys. J.*, **853**, #191, 2018.
- Larson, Rebecca L., et al. (including O’Connell, Robert), “Discovery of a  $z = 7.452$  High Equivalent Width  $\text{Ly}\alpha$  Emitter from the Hubble Space Telescope Faint Infrared Grism Survey,” *Astrophys. J.*, **858**, #94, 2018.
- Ashcraft, Teresa A., Windhorst, Rogier A., Jansen, Rolf A., Cohen, Seth H., Grazian, Andrea, Paris, Diego, Fontana, Adriano, Giallongo, Emanuele, Speziali, Roberto, Testa, Vincenzo, Boutsia, Konstantina, O’Connell, Robert W., Rutkowski, Michael J., Ryan, Russell E., Scarlata, Claudia, Weiner, Benjamin, “ Ultra-deep Large Binocular Camera U-band Imaging of the GOODS-North Field: Depth Versus Resolution,” *Publ. Astron. Soc. Pacific*, **130**, 064102, 2018.
- Pirzkal, Norbert, et al. (including O’Connell, Robert W.), “A Two-dimensional Spectroscopic Study of Emission-line Galaxies in the Faint Infrared Grism Survey (FIGS). I. Detection Method and Catalog,” *Astrophys. J.*, **868**, #61, 2018.
- Mackereth, J. Ted, Schiavon, Ricardo P, Pfeffer, Joel, Hayes, Christian R., Bovy, Jo, Anguiano, Borja, Allende Prieto, Carlos, Hasselquist, Sten, Holtzman, Jon, Johnson, Jennifer A., Majewski, Steven R., O’Connell, Robert, Shetrone, Matthew, Tissera, Patricia B., Fernandez-Trincado, J. G., “The Origin of Accreted Stellar Halo Populations in the Milky Way Using APOGEE, Gaia, and the EAGLE Simulations,” *Monthly Notices Royal Astron. Soc.*, **482**, 3426, 2019.

**Robert W. O'Connell**

## **INTERNET BIBLIOGRAPHY**

ENTRY URL: <http://www.faculty.virginia.edu/rwoclass/>

astr1210/ *Astronomy 1210: Introduction to the Sky and the Solar System*: elementary astronomy course; complete illustrated notes and web links. Auxiliary material includes *Cosmic History: A Brief Narrative*; *The Aztec Calendar Stone*; *Lunar Motions and Their Consequences*; *Earth's Atmosphere From Space*; *Lunar Topography*; *Selected Mars Images*. (1998 – )

astr1230/ *Astronomy 1230: Introduction to Astronomical Observation*: elementary astronomy laboratory course; complete illustrated notes, web links, and auxiliary material. (2000 – )

astr511/ *Astronomy 511: Astronomical Techniques*: graduate astronomy course; complete illustrated notes, web links, auxiliary material, problem sets, and laboratory exercises. Includes *Introduction to IDL for Astronomers* and an *IDL Tutorial* (see Bibliography). (2001 – )

astr8500/ *Astronomy 8500: Topical Seminar (2006, 2016, 2018)*: Professional Development Course for Graduate Students

UIT/ *Ultraviolet Imaging Telescope*: illustrated description of UIT and the Astro-1 and Astro-2 Space-lab Missions. (2002 – )

LBT/ *Large Binocular Telescope*: selected images of construction of the Large Binocular Telescope. (To 2003)

### FILE DOWNLOAD STATISTICS:

12 MONTHS, 2013: 783,000 HTML; 4,263,000 TOTAL.

5 YEARS, 2009-2013: 4,835,000 HTML; 30,202,000 TOTAL.