

Om narayani Nayak Publication List

Number of First Author Papers: 6

Number of Total Papers: 26

H-Index of all Papers: 10

First Author Refereed Papers

“Massive Star Formation in the Tarantula Nebula,” Nayak O., Wong T., Meixner M., et al. 2023, ApJ, 944, 26

“Stellar Feedback at the Earliest Stage of Massive Star Formation,” Nayak O., Meixner M., Okada Y., et al. 2021, ApJ, 907, 106

“ALMA Reveals Kinematics of Potential Super Star Cluster H72.97-69.39 in N79,” Nayak O., Meixner M., Indebetouw R., et al. 2019, ApJ, 877, 135

“Large Magellanic Cloud: Extreme Star Formation in a Low-Metallicity Environment,” Nayak O., 2018, PhD Thesis

“Molecular Cloud Structures and Massive Star Formation in N159,” Nayak O., Meixner M., Fukui Y., et al. 2018, ApJ, 854, 154

“Studying Relation Between Star Formation and Molecular Clumps on Sub-parsec Scales in 30 Doradus,” Nayak O., Meixner M., Indebetouw R., et al. 2016, ApJ, 831, 32

Other Refereed Papers

“The James Webb Space Telescope Mission,” J. Gardner and the JWST Commissioning Team Including **O. Nayak**

“Characterization of JWST Science Performance From Commissioning,” J. Rigby and the JWST Commissioning Team Including **O. Nayak**

“Spectroscopic Time Series Performance and the Mid-infrared Instrument on the JWST,” J. Bouwman and the JWST MIRI Team Including **O. Nayak**

“JWST NIRSpc Observations of Supernova 1987A – From the Inner Ejecta to the Reverse Shock,” J. Larsson, C. Fransson, B. Sargent, et al. submitted

Authors: J. Larsson, C. Fransson, B. Sargent, O. C. Jones, M. J. Barlow, P. Bouchet, M. Meixner, J. A. D. L. Blommaert, A. Coulais, O. D. Fox, R. Gastaud, A. Glasse, N. Habel, A. S. Hirschauer, J. Hjorth, J. Jaspers, P. J. Kavanagh, O. Krause, R. M. Lau, L. Lenkic, **O. Nayak**, A. Rest, T. Temin, T. Tikkanen, R. Wesson, G. S. Wright

“Observations of the Planetary Nebula SMP LMC 058 with the JWST MIRI Medium Resolution Spectrometer,” O. C. Jones and the JWST MIRI Team Including **O. Nayak**, submitted

“Discovery of dusty sub-solar mass young stellar objects in NGC 346 with JWST/NIRCam,” O. C. Jones, C. Nally, N. Habel, et al., submitted

Authors: O. C. Jones, C. Nally, N. Habel, L. Lenkic, K. Fahrion, A. S. Hirschauer, L. Chu, M. Meixner, G. De Marchi, **O. Nayak**, M. Robberto, E. Sabbi, P. Zeidler, C. A. de Oliveria, T. Beck, K. Biazzo, B. Brandl, G. Giardino, T. Jerabkova, C. Keyes, J. Muzerolle, N. Panagia, K. Pontoppidan, C. Rogers, B. A. Sargent, D. Soderblom

“JWST MIRI/MRS in-flight absolute flux calibration and tailored fringe correction for unresolved sources,” D. Gasman and the JWST MIRI/MRS Team Including **O. Nayak**, submitted

“An ALMA study of the $\sim 10^4 M_{\odot}$ molecular clump N159W-North in the Large Magellanic Cloud: A possible gas flow penetrating one of the most massive protocluster systems in the Local Group,” K. Tokuda, T. Minami, Y. Fukui, et al. 2022, ApJ, 933, 20

Authors: K. Tokuda, T. Minami, Y. Fukui, T. Inoue, T. Nishikora, K. Tsuge, S. Zahorecz, H. Sano, A. Konishi, R. Chen, M. Sewilo, S. C. Madden, **O. Nayak**, K. Saigo, A. Nishimura, K. E. I. Tanaka, T. Sawada, K. Tachihara, A. Kawamura, T. Onishi

- “The Lick Observatory Supernova Search Follow-Up Program: Photometry Data Release of 70 Stripped-Envelope Supernovae,” W. Zheng, B. E. Stahl, T. de Jaeger, et al. 2022, MNRAS, 512, 3195
Authors: W. Zheng, B. E. Stahl, T. de Jaeger, A. V. Filippenko, S. Wang, W. Gan, T. G. Brink, I. Altunin, R. Baer-Way, A. Bigley, K. Blanchard, P. K. Blanchard, J. Bradley, S. K. Cargill, C. Casper, T. Chapman, V. Chander, S. Channa, B. Choi, N. Choksi, M. Chu, K. I. Clubb, D. P. Cohen, P. A. Dalba, A. de Graw, M. Ellison, E. Falcon, O. D. Fox, K. Fuller, M. Ganeshalingam, N. Girish, C. Gould, J. R. Gross, G. Halevi, A. Halle, K. T. Hayakawa, R. Hardy, H. Hestenes, A. M. Hoffman, M. Hyland, T. Lowe, B. T. Jeffers, C. Jennings, M. T. Kandrashoff, A. Khodanian, M. Kim, H. Kim, M. E. Kislak, M. de Kouchkovsky, D. Krishnan, S. Kumar, S. G. Kumar, J. Leja, K. J. Leonard, G. Z. Li, W. Li, J. Lian, E. Liu, P. Lu, E. Ma, M. N. Mason, M. May, K. McAllister, E. McGinness, S. Modak, J. Molloy, Y. S. Murakami, **O. Nayak**, D. Perera, K. Pina, D. Punjabi, A. Rikhter, T. W. Ross, J. Sipple, C. Soler, A. Springmann, S. Stegman, H. Stephens, H. Sunseri, K. Tang, S. Taylor, P. Trasher, S. D. Van Dyk, X. Wang, J. Wayland, A. Wilkins, A. Yagubyan, H. Yuk, S. Yunus, K. D. Zhang
- “The 30 Doradus Molecular Cloud at 0.4 Parsec Resolution with ALMA: Physical Properties and the Boundedness of CO Emitting Structures,” T. Wong, L. Oudshoorn, E. Sofovich, et al. 2022, ApJ, 932, 47
Authors: T. Wong, L. Oudshoorn, E. Sofovich, A. Green, C. Shah, R. Indebetouw, M. Meixner, A. Hacar, **O. Nayak**, K. Tokuda, A. D. Bolatto, M. Chevance, G. De Marchi, Y. Fukui, A. Hirschauer, K. E. Jameson, V. Kalari, V. Lebouteiller, L. W. Looney, S. C. Madden, T. Onishi, J. Roman-Duval, M. Rubio, A. G. G. M. Tielens
- “Evolution of Feedback in HII Regions,” G. M. Olivier, L. A. Lopez, A. L. Rosen, et al. 2021, ApJ, 908, 68
Authors: G. M. Olivier, L. A. Lopez, A. L. Rosen, **O. Nayak**, M. Reiter, M. R. Krumholz, A. D. Bolatto
- “The Stellar Content of H72.97-69.39, a Potential Super Star Cluster in the Making,” M. Andersen, H. Zinnecker, A. Hirschauer, et al. 2021, AJ, 161, 206
Authors: M. Andersen, H. Zinnecker, A. Hirschauer, **O. Nayak**, M. Reiter, M. R. Krumholz, A. D. Bolatto
- “An ALMA View of Molecular Filaments in the Large Magellanic Cloud II: An Early Stage of High Mass Star Formation Embedded at Colliding Clouds in N159W-South,” K. Tokuda, Y. Fukui, . Harada, et al. 2019, ApJ, 886, 16
Authors: K. Tokuda, Yasuo Fukui, R. Harada, K. Saigo, K. Tachihara, K. Tsuge, T. Inoue, K. Torii, A. Nishimura, S. Zahorecz, **O. Nayak**, M. Meixner, T. Minamidani, A. Kawamura, N. Mizuno, R. Indebetouw, M. Sewilo, S. Madden, M. Galametz, V. Lebouteiller, R. Chen, T. Onishi
- “An ALMA View of Molecular Filaments in the Large Magellanic Cloud I: Formation of High-Mass Stars and Pillars in the N159E Papillon Nebula Triggered by a Cloud-Cloud Collision,” Y. Fukui, K. Tokuda, S. Kazuya, et al. 2019, ApJ, 886, 14
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- “Formation of High-Mass Stars in an Isolated Environment in the Large Magellanic Cloud,” R. Harada, T. Onishi, K. Tokuda, et al. 2019, PASJ, 71, 44
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- “Unveiling the Nature of Candidate High-Mass Young Stellar Objects in the Magellanic Clouds with near-IR spectroscopy,” M. Reiter, O. Nayak, M. Meixner, et al. 2019, MNRAS, 483, 5211
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- “The Star Forming Complex LMC-N79 as a Future Rival to 30 Doradus,” B. Ochsendorf, H. Zinnecker, O. Nayak, et al. 2017, NatAs, 1E, 260
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- “Kinematic Structure of Molecular Gas around High-mass Star YSO, Papillon Nebula, in N159 East in the Large Magellanic Cloud,” K. Saigo, T. Onishi, O. Nayak, et al. 2017, ApJ, 835, 108
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