Publications of *Dae-Sik Moon* (as of 2010 October)

(In the order of [**A**] *Published and Submitted Papers in Referred Journals*, [**B**] *SPIE Conference Proceedings on Astronomical Instrumentation*, [**C**] *Non-referred Publications*, and [**D**] *Other Conference Proceedings*.)

[A. Published and Submitted Papers in Referred Journals:

– 57 in total (4 submitted; 11 first-authored);
33 in THE ASTROPHYSICAL JOURNAL, 9 in NATURE, 15 in other journals]

"Large Highly-Ionized Nebulae Around Ultra-luminous X-ray Sources" Moon, D.-S., Harrison, F. A., Cenko, S. B., & Shariff, J. 2010, ApJL, submitted

"Caltech Core-Collapse Project (CCCP) observations of type IIn supernovae: typical properties and implications for their progenitor stars" Kiewe, M., ..., **Moon, D.-S.**, et al. (10 authors) 2010, ApJ, submitted

"IRAS 15099–5856: Remarkable Mid-Infrared Source with Prominent Crystalline Silicate Emission Possibly Associated with the Supernova Remnant MSH15–52" Koo B.-C., McKee, C. F., Suh, K.-Wo., **Moon, D.-S.**, et al. (21 authors) 2010, ApJL, submitted

"Far-Infrared Luminous supernova remnant Kes 17 interacting with molecular clouds" Lee, H.-G., **Moon, D.-S.**, Koo, B.-C., Onaka, T., Jeong, W.-S., Shinn, J.-H., Sakon, I., & Kaneda, Hidehiro 2010, ApJ, submitted

"AKARI and BLAST Observations of the Cassiopeia A Supernova Remnant and Surrounding Interstellar Medium" Sibthrope, B., ..., **Moon, D.-S.**, et al. (33 authors) 2010, ApJ, 719, 1553

"A faint supernova from a white dwarf with a helium-rich companion" Perets, H. B., ..., **Moon, D.-S.**, et al. (28 authors) 2010, Nature, 465, 322

"The Collimation and Energetics of the Brightest *Swift* γ-Ray Bursts" Cenko, S. B., ..., **Moon, D.-S.**, et al. (26 authors) 2010, ApJ, 711, 641

"Infrared Studies of Molecular Shocks in the Supernova Remnant HB 21: II. Thermal Admixture of Shocked H_2 Gas in the South" Shinn, J.-H., Koo, B.-C., Burton, M. G., Lee, H.-G., & **Moon, D.-S.** 2010, AdSpR, 45, 445

"AKARI Infrared Observations of the Supernova Remnant G292.0+1.8: Unveiling Supernova Ejecta and Circumstellar Medium" Lee, H.-G., Koo, B.-C., **Moon, D.-S.**, et al. (9 authors) 2009, ApJ, 706, 441

"Dense Iron Ejecta and Core-collapse Supernova Explosion in the Young Supernova Remnant G11.2–0.3" Moon, D.-S., Koo, B.-C., Lee, H.-G., Matthews, K., Lee, J.-J., Pyo,

T.-S., Seok, J. Y., & Hayashi, M. 2009, ApJ, 703, L81

"Infrared Studies of Molecular Shocks in the Supernova Remnant HB 21: I. Thermal Admixture of Shocked H_2 Gas in the North" Shinn, J.-H., Koo, B.-C., Burton, M. G., Lee, H.-G., & **Moon, D.-S.** 2009, ApJ, 693, 1883

"Dark Bursts in the Swift Era: The Palomar 60 inch-Swift Early Optical Afterglow Catalog" Cenko, S. B., ..., **Moon, D.-S.** (11 authors) 2009, ApJ, 693, 1484

"Near-Infrared [Fe II] and H_2 Line Observations of the Supernova Remnant 3C 396: Probing the Pre-Supernova Circumstellar Materials" Lee, H.-G., **Moon, D.-S.**, Koo, B.-C., Lee, J.-J., & Matthews, K. 2009, ApJ, 691, 1042

"Supernova Remnants in the AKARI IRC Survey of the Large Magellanic Cloud" Seok, J. Y., ..., **Moon, D.-S.**, et al. 2008, (12 authors) PASJ, 60, 453

"A Massive-Star-forming Infrared Loop around the Crab-like Supernova Remnant G54.1+0.3: Post-Main-Sequence Triggered Star Formation?" Koo, B.-C., ..., **Moon, D.-S.**, et al. (9 authors) 2008, ApJ, 673, L147

"The Rich Mid-Infrared Environments of Two Highly Obscured X-Ray Binaries: Spitzer Observations of IGR J16318-4848 and GX 301-2" Moon., D.-S., Kaplan, D. L., Reach, W. T., Harrison, F. A., Lee, J.-E., & Martin, P. G. 2007, ApJ, 671, L53

"AKARI Detection of the Infrared-Bright Supernova Remnant B0104–72.3 in the Small Magellanic Cloud" Koo, B.-C., Lee, H.-G.,**Moon, D.-S.**, et al. (15 authors) 2007, PASJ, 59S, 455

"GRB 060505: A Possible Short-Duration Gamma-Ray Burst in a Star Forming Region at Redshift of 0.09" Ofek, E. F., ..., **Moon, D.-S.**, et al. (29 authors) 2007, ApJ, 662, 1129

"A Spectacular Radio Flare from XRF 050416a at 40 days and Implications for the Nature of X-ray Flashes" Soderberg, A. M., ..., **Moon, D.-S.**, et al. (29 authors) 2007, ApJ, 661, 982

"An Unusually Brilliant Explosion in the Lenticular Galaxy Messier M85" Kulkarni, S. R., ..., **Moon, D.-S.**, et al. (14 authors) 2007, Nature, 447, 458

"Lost and Found: A New Position and Infrared Counterpart for the X-ray Binary Scutum X-1" Kaplan, D. L., ..., **Moon, D.-S.**, et al. (9 authors) 2007, ApJ, 661, 437

"A Near-Infrared Study of the Highly-Obscured Active Star-Forming Region W51B" Kim, H., Nakamura, Y., Sung, H., **Moon, D.-S.**, & Koo, B.-C. 2007, JKAS, 40, 17

"[Fe II] and H_2 Filaments in the Young Core-Collapse Supernova Remnant G11.2–0.3"

Koo, B.-C., **Moon, D.-S.**, Lee, H.-G., Lee, J.-J., & Matthews, K. 2007, ApJ, 657, 308

"On the Progenitors of SN 2005gl and the Nature of Type IIn Supernovae" Gal-Yam, A., ..., **Moon, D.-S.**, et al. (11 authors) 2007, ApJ, 656, 372

"A Novel Explosion Process is Required for the Gamma-ray Burst GRB060614" Gal-Yam, A., ..., **Moon, D.-S.**, et al. (26 authors) 2006, Nature, 444, 1053

"Multi-Wavelength Observations of GRB 050820A: An Exceptionally Energetic Event Followed from Start to Finish" Cenko, S. B., ..., **Moon, D.-S.**, et al. 2006, (27 authors) ApJ, 652, 490

"The Palomar 60-inch Telescope Automation Project" Cenko, S. B., Fox, D. B., **Moon, D.-S.**, et al. (16 authors) 2006, PASP, 118, 1396

"Long-Wavelength Excesses in Two Highly-obscured High-Mass X-ray Binaries: Evidence for Circumstellar Dust" Kaplan, D. L., **Moon, D.-S.**, & W. Reach 2006, ApJ, 649, L107

"Relativistic ejecta from X-ray flash XRF 060218 and the rate of cosmic explosions" Soderberg, A. M., ..., **Moon, D.-S.**, et al. (25 authors) 2006, Nature, 442, 1014

"SN 2004A: another Type II-P supernova with a red supergiant progenitor" Hendry, M. A., ..., **Moon, D.-S.**, et al. (11 authors) 2006, MNRAS, 369, 1303

"A Near-IR Searche for Counterparts to Three Young Pulsars" Kaplan, D. L., & **Moon, D.-S.** 2006, ApJ, 644, 1056

"A photometric redshift of z = 6.39 $\pm$ 0.12 for GRB 050904" Haislip, J., ..., **Moon, D.-S.**, et al. (66 authors) 2006, Nature, 440, 181

"An HST Study of the Supernovae Accompanying GRB 040924 and GRB 041006" Soderberg, A. M., ..., **Moon, D.-S.**, et al. (26 authors) 2005, ApJ, 636, 391

"The afterglow and elliptical host galaxy of the short gamma-ray burst GRB 050724" Berger, E., ..., **Moon, D.-S.**, et al. (24 authors) 2005, Nature, 438, 988

"The Afterglows, Redshifts, and Properties of Swift Gamma-Ray Bursts" Berger, E., ..., **Moon, D.-S.**, et al. (32 authors) 2005, ApJ, 634, 501

"Chandra Observations of the W51C Supernova Remnant" Koo, B.-C., Lee, J.-J., Seward, F. D., & **Moon, D.-S.** 2005, ApJ, 633, 946

"The Afterglow, Redshift, Energetics and Environment of the Short-hard γ-ray Burst of 9 July 2005" Fox, D. D., ..., **Moon, D.-S.**, et al. (36 authors) 2005, Nature, 437, 845

"A High Angular-Resolution Search for the Progenitor of the Type Ic Supernova

2004gt" Gal-Yam, A., ..., **Moon, D.-S.**, et al. (19 authors) 2005, ApJL, 630, L29

"The Discovery of the Optical and Near-infrared Afterglows of the First *Swift* Gamma-ray Bursts" Berger, E., ..., **Moon, D.-S.**, et al. (19 authors) 2005, ApJ, 629, 328

"The Radio Afterglow and Host Galaxy of the Dark GRB 020819" Jacobsson, P., ..., **Moon, D.-S.**, et al. (11 authors) 2005, ApJ, 629, 45

"An HST Search for Supernovae Accompanying X-ray Flashes" Soderberg, A. M., ..., **Moon, D.-S.**, et al. (27 authors) 2005, ApJ, 627, 877

"Photometric Typing Analyses of Three Young Supernovae with the Robotic Palomar 60-inch Telescope" Rajala, A., ..., **Moon, D.-S.**, et al. (9 authors) 2005, PASP, 117, 132

"The sub-energetic gamm-ray burst GRB 031203 as a cosmic analogue to the nearby GRB 980425" Soderberg, A. M., ..., **Moon, D.-S.**, et al. (16 authors) 2004, Nature, 430, 648

"PSR B1951+32: A Bow Shock-confined X-Ray Nebula, a Synchrotron Knot, and an Optical Counterpart Candidate" Moon, D.-S., et al. (10 authors) 2004, ApJ, 610, L33

"The J-Band Light Curve of SN 2003lw, Associated with GRB 031203" Gal-Yam, A., **Moon, D.-S.**, et al. (18 authors) 2004, ApJ, 609, L59

"The recent expansion of Pluto's atmosphere" Elliot, J. L., ..., **Moon, D.-S.**, et al. (29 authors) 2003, Nature, 424, 165

"The Evolution Of LMC X-4 Flares: Evidence For Super-Eddington Radiation Oozing Through Inhomogeneous Polar Cap Accretion Flows ?" Moon, D.-S., Eikenberry, S. S., & Wasserman, M. I. 2003, ApJ, 586, 1280

"SMC X-1 As An Intermediate-Stage Flaring X-ray Pulsar" Moon, D.-S., Eikenberry, S. S., & Wasserman, M. I. 2003, ApJ, 582, L91

"The Bell Laboratories ^{13}CO Survey: Longitude-Velocity Maps" Lee, Y., Stark, A. A. Kim, H.-G., & **Moon, D.-S.** 2001, ApJS, 136, 137

"Discovery of Coupling between Periodic and Aperiodic Variability and X-Ray Quasi-periodic Oscillations from Hercules X-1" Moon, D.-S., & Eikenberry, S. S. 2001, ApJ, 552, L135

"A Next-Generation High-Speed Data Acquisition System for Multichannel Infrared and Optical Photometry" Moon, D.-S., Pirger, B. E., & Eikenberry, S. S 2001, PASP, 783, 646

"Large X-Ray Flares from LMC X-4: Discovery of Millihertz Quasi-periodic Oscillations and Quasi-periodic Oscillation-Modulated Pulsations" Moon, D.-S., & Eikenberry, S. S. 2001, ApJ, 549, L225

"The High-Velocity Molecular Stream in W51B: a Ring Structure with Compact HII Regions" Moon, D.-S., & Park, Y.-S. 1998, MNRAS, 296, 863

"Interaction between the W51C Supernova Remnant and a Molecular Cloud. II. Discovery of Shocked CO and HCO+" Koo, B.-C., & **Moon, D.-S.** 1997, ApJ, 485, 263

"Interaction between the W51C Supernova Remnant and a Molecular Cloud. I. H I 21 Centimeter Line Observations " Koo, B.-C., & **Moon, D.-S.** 1997, ApJ, 475, 194

"Thermal and Non-Thermal Radio Continuum Sources in the W51 Complex" Moon, D.-S., & Koo, B.-C. 1994, JKAS, 27, 81

[B. SPIE Conference Proceedings on Astronomical Instrumentation]

"The optical design of wide integral-field infrared spectrograph" Chou, C., **Moon, Dae-Sik**, & Eikenberry, S. S. 2010, SPIE, 7735, 223

"The science calibration system for the TMT NFIRAOS and client instruments: requirements and design studies" Moon, Dae-Sik, et al. (15 authors) 2010, SPIE, 7735, 186

"The Performance of TripleSpec at Palomar" Herter, T. L., ..., **Moon, Dae-Sik**, et al. (15 authors) 2008, SPIE, 7014, 30

"An infrared photon-counting photometer based on the edge-illuminated solid-state photomultiplier" Moon, Dae-Sik, Eikenberry, Stephen S., & Fazio, Giovanni G. 2006, SPIE, 6276, 26

"Mass producing an efficient NIR spectrograph" Wilson, J. C., ..., **Moon, D.-S.**, et al. (16 authors) 2004, SPIE, 5492, 1295

[C. Non-referred Publications]

"A Near-Infrared Narrow-band Imaging Survey to Search for Massive Stars in CI 1806-20" Edwards, M. L., Bandyopadhyay, R. M., Eikenberry, S. S., Mikles, V. J., & **Moon, D.-S.** 2010, BSRSN, in press

"Infrared Hunting for New Hidden Hard X-ray Sources: Observations and Instrumentation" Moon, D.-S. 2007, RMxAC, 28, 134

"GRB 060204b: Keck/LRIS afterglow confirmation" Moon, D.-S., & Cenko, S. B. 2006, GRB Coordinates Network, Circular Service, 4667, 1

"GRB 060202: UKIRT/WFCAM k-band and KeckI/LRIS i-band observation" Wang, W.-H., Kakazu, Y., Schmidt, B. P., Cowie, L. L., Cenko, S. B., & **Moon, D.-S.** 2006, GRB Coordinates Network Circular Service, 4653, 1

"GRB 060202: optical afterglow candidate from Keck/LRIS" Cenko, S. B., **Moon, D.-S.**, & Schmidt, B. P. 2006, GRB 060202: optical afterglow candidate from Keck/LRIS

"Supernova 2005az in NGC 4961" Li, W., Puckett, T., & **Moon, D.** 2005, IAU Circ., 8507, 2

"GRB 050827: P200 NIR observations" Moon, D.-S., & Cenko, S. B. 2005, GRB Coordinates Network, Circular Service, 3902, 1

"Supernova 2004eb in NGC 6387" Leonard, D. C., Soderberg, A., Gal-Yam, A., Cenko, B., Fox, D. B., **Moon, D.-S.**, & Sand, D. J. 2004, IAU Circ., 8405, 3

"Instrument development for high-speed infrared and optical photometry and observational studies of pulsars" Moon, Dae-Sik 2004, Thesis (PhD). CORNELL UNIVERSITY, Source DAI-B 64/12, p. 6120, Jun 2004, 164 pages.

"GRB041219: continued NIR observations" Moon, D.-S., Cenko, S. B., & Adams, J. 2004, GRB Coordinates Network, Circular Service, 2884, 1

"GRB041219: confirmed NIR afterglow" Moon, D.-S., Cenko, S. B., & Adams, J. 2004, GRB Coordinates Network, Circular Service, 2876, 1

"GRB040924 (H3564): optical afterglow candidate" Fox, D. B., & **Moon, D.-S.** 2004, GRB Coordinates Network, Circular Service, 2597, 1

[D. Other Conference Proceedings]

"A Near-Infrared Narrow-band Imaging Survey for Massive Stars in Cl 1806-20" Edwards, M. L., Bandyopadhyay, R. M., Eikenberry, S. S., **Moon, D.-S.**, & Mikles, V. J. 2010, AAS Meeting #215, #455.04; BAAS, 41, 473

"Infrared Observations of Shock-Cloud Interactions around Supernova Remnants" Shinn, J.-H., Koo, B.-C., Burton, M. G., Lee, H.-G., & **Moon, D.-S.** 2009, ASPC, 418, 471

"Supernova Remnants in the Large Magellanic Cloud with AKARI Observation" Seok, J. Y., ..., **Moon, D.-S.**, et al. (11 authors) 2009, ASPC, 418, 467

"Mid-Infrared Spectroscopy of Highly-Obscured Massive X-ray Binaries and Mass Losses of Massive Stars" Moon, D.-S. 2009, ASPC, 418, 191

"AKARI Observations of O-rich SNR G292.0+1.8" Lee, H. G., Koo, B.-C., **Moon, D.-S.**, et al. (9 authors) 2009, ASPC, 418, 191

"Type II Supernova Light Curves from the Caltech Core Collapse Project" Arcavi, I., ..., **Moon, D.-S.**, et al. (9 authors) 2009, AAS Meeting #214, #604.01

"Dense Iron Ejecta and Core-collapse Supernova Explosion in the Young Supernova Remnant G11.2–0.3" Moon, D.-S., et al. (8 authors) 2009, AAS Meeting #214, #316.06; BAAS, 41, 762

"Distances to Type II-P Supernovae from the Caltech Core-Collapse Project" Enriquez, E. J., Leonard, D. C., Gal-Yam, A., Cenko, S. B., Fox, D. B., **Moon, D.-S.**, Sand, D. & Soderberg, A. 2009, AAS Meeting #213, #490.07; BAAS, 41, 466

"Detailed Infrared views of the shock-cloud interactions in the supernova remnant HB 21" Shinn, J.-H., Koo, B.-C., Burton, M. G., Lee, H.-G., & **Moon, D.-S.** 2008, COSPAR Scientific Assembly #37, 2866

"Space Mid-Infrared Spectroscopy for Understanding the Evolution of Highly-Obscured Neutron Star X-ray Binaries" Moon, D.-S., Kaplan, D. L., & Koo, B.-C. 2008, COSPAR Scientific Assembly #37, 2094

"Dense Supernova Iron Ejecta Swept-up by Reverse Shocks in the Young Supernova Remnant G11.2-0.3" Moon, D.-S., et al. 2008, COSPAR Scientific Assembly #37, 2093

"AKARI Observations of Supernova Remnants" Koo, B.-C., **Moon, D.-S.**, et al. 2008, COSPAR Scientific Assembly #37, 1578

"Preliminary Results from the Caltech Core-Collapse Project (CCCP)" Gal-Yam, A., Cenko, S. B., Fox, D. B., Leonard, D. C., **Moon, D.-S.**, Sand, D. J.. & Soderberg, A. M. 2007, THE MULTICOLORED LANDSCAPE OF COMPACT OBJECTS AND THEIR EXPLOSIVE ORIGINS. AIP Conference Proceedings, Volume 924, pp. 297-303

"SPITZER IRS Spectroscopy of Highly-Obscured X-ray Binaries" Moon, Dae-Sik, Kaplan, D. L., Reach, W. T., Harrison, F. A., & Lee, J. 2007, AAS/AAPT Joint Meeting, AAS Meeting 209, #131.05; BAAS, 38, 1078

"Shocked Presupernova Wind in G11.2-0.3" Koo, B.-C., **Moon, D.-S.**, Lee, H.-G., Lee, J.-J., & Matthews, K. 2006, COSP, 36, 2630

"The Caltech Core-Collapse Project (CCCP)" Gal-Yam, A., Cenko, S. B., Fox, D. B., Leonard, D. C., **Moon, D.-S.**, Sand, D. J.. & Soderberg, A. M. 2005, 1604-2004: Supernovae as Cosmological Lighthouses, ASP Conference Series, Vol. 342, Proceedings of the conference held 15-19 June, 2004 in Padua, Italy. Edited by M. Turatto, S. Benetti, L. Zampieri, and W. Shea. San Francisco: Astronomical Society of the Pacific, 2005., p.305

"The Hunt for Supernova Progenitors: A New Windew Opened with Keck LGS" Gal-Yam, A., Fox, D. B., Kulkarni, S. R., Matthews, K. Leonard, D. C., Sand, D. J., **Moon, D.-S.**, Cenko, S. B., & Soderberg, A. M. 2005, AAS Meeting 207, #78.01; BAAS, 37, 1292

"Phototyping of Young Supernovae with the Robotic P60" Rajala, A., Fox, D. B., Gal-Yam, A., Leonard, D. C., **Moon, D.-S.**, Cenko, S. B. 2004, AAS Meeting 205, #71.03; BAAS, 36, 1464

"The Caltech Core-Collapse Project (CCCP)" Gal-Yam, A., Cenko, S. B., Fox, D. B., Leonard, D. C., **Moon, D.-S.**, Sand, D. J.. & Soderberg, A. M. 2004, AAS 205, #40.06; BAAS, 36, 1408

"Discovery of an X-ray pulsar with 36 sec period in the supernova remnant W63" Rho, J., **Moon, D.-S.**, Gotthelf, E., Pannuti, T., & Cobert, R. 2004, AAS, HEAD meeting #8, #17.30; BAAS, 36, 1200

"PSR B1951+32: A Bow Shock-Confined X-ray Nebula, a Synchrotron Knot and an Optical Counterpart Candidate" Moon, D.-S., et al. 2004, AAS, HEAD meeting #8, #08.15; BAAS, 36, 919

"Pluto's Atmospheric Figure from the P131.1 Stellar Occultation" Person, M. J., ..., **Moon, D.-S.**, et al. 2003, AAS, DPS meeting #35, #23.01; BAAS, 35, 957

"Absolute Timing Calibration of the USA Experiment Using Pulsar Observations" Ray, P. S., ..., **Moon, D.-S.**, et al. 2003, AAS, HEAD meeting #7, #22.13; BAAS, 35, 641

"Absolute Timing of the Crab Pulsar: X-ray, Radio, and Optical Observations" Ray, P. S., ..., **Moon, D.-S.**, et al. 2002, AAS Meeting, #201, #118.06; BAAS, 34, 1298

"Examination of Pluto's Atmospheric Figure with the P131.1 Stellar Occultation" Person, M. J., ..., **Moon, D.-S.**, et al. 2002, AAS Meeting, #201, #61.03; BAAS, 34, 1211

"Pluto Occultation of P131.1 in 2002 August: Overview of Observations and Infrared Results" Elliot, J. L., ..., **Moon, D.-S.**, et al. 2002, AAS Meeting, #201, #61.01; BAAS, 34, 1211

"SMC X-1: A Flaring X-ray Pulsar" Moon, Dae-Sik, & Eikenberry, Stephen S. 2002, American Physical Society, April Meeting, Jointly Sponsored with the High Energy Astrophysics Division (HEAD) of the American Astronomical Society April 20 - 23, 2002 Albuquerque Convention Center Albuquerque, New Mexico Meeting ID: APR02, abstract #N17.067

"QPO-Amplitude-Modulated Sidebands around Pulsational Frequency of LMC X-4 and Her X-1: Coupling between Periodic and Aperiodic Variability" Moon, Dae-Sik, & Eikenberry, Stephen S. 2000, AAS Meeting, #197, #83.22; BAAS, 32, 1546

"A Galactic Plane ^{13}CO Survey" Lee, Y., Kim, H. G., **Moon, D.-S.**, & Stark, A. A. 2000, Imaging at Radio through Submillimeter Wavelengths, ASP Conference Proceedings, Vol. 217, edited by Jeffrey G. Mangum and Simon J. E. Radford. Astronomical Society of the Pacific, ISBN 1-58381-049-8, 2000., p.80

"A Galactic Plane ^{13}CO Survey" Lee, Y., Stark, A. A., Kim, H. G., & **Moon, D.-S.** 1999, AAS Meeting, #194, #84.10; BAAS, 31, 971

"Comparison of Arm and Interarm Molecular Clouds" Lee, Y., Kim, H. G., **Moon, D.-S.**, & Stark, A. A. 1999, AAS Meeting, #193, #65.26; BAAS, 31, 662