

Academic Staff Resume

Name: Liang-Liang Yu
Title: Assistant Professor
Dept. SKLplanet



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Academic Qualification:

Ph.D. in Macau University of Science and Technology, 2015.09-2018.08
Master in University of Chinese Academy of Sciences, 2010.09-2013.06
Bachelor in Nanjing University, 2006.09-2010.06

Teaching Area

The principle and application of remote sensing

Research Area

Thermal infrared radiometry, thermophysical and dynamical modelling of Small Bodies in the solar
Thermal Sublimation Activity of Comets, Main-Belt Comets and other Icy Small Bodies
Protoplanetary disk, Circumstellar disk

Working Experience

2020.12-Today, State Key Laboratory of Lunar and Planetary Science, Macau University of
Science and Technology, Assistant Professor
2018.12-2020.11, State Key Laboratory of Lunar and Planetary Science, Macau University of
Science and Technology, Postdoctoral Researcher
2017.09.31-10.31, Institute of Planetary Research, German Aerospace Center (DLR, Berlin), visitor
2017.03.15-04.15, Institute of Astronomy, National Central University, Taiwan, visitor
2013.07-2015.11, Key Laboratory of Planetary Sciences, Purple Mountain Observatory, Chinese
Academy of Sciences, Research assistant

Research Projects

2015.1-2017.12 Surface thermophysical properties investigation of asteroids, National Natural
Science Foundation of China (No. 11403105), PI

Professional Certification and Awards

Professional Society Membership

Member of Chinese Astronomical Society
Member of AOGS, EPSC, LPSC

Academic Publication

Journal Articles:

First-author Paper

1. Yu L. L., Hsia Chih Hao, Ip Wing-Huen, 2020. Low-activity main belt comet 133P/Elst-Pizarro: New constraints on its Albedo, Temperature and Active Mechanism from a thermophysical perspective,, AJ, 159, 66
2. Yu L. L., Ip Wing-Huen, Spohn Tilmn, 2019. What mechanisms dominate the activity of Geminid Parent (3200) Phaethon?, MNRAS, 482, 4233
3. Yu L. L., Yang Bin, Ji J.H., Ip W.H., 2017. Thermophysical characteristics of the large main-belt asteroid (349) Dembowska, MNRAS, 472, 2388
4. Yu L. L., Ji J. H., Ip W. H., 2017. Surface thermophysical properties on the potentially hazardous asteroid (99942) Apophis, RAA, 17, 70
5. Yu L. L., Ji J.H., 2015. Surface thermophysical properties determination of OSIRIS-REx target asteroid (101955) Bennu, MNRAS, 452: 368–375
6. Yu L. L., Ji J.H., & Wang Su, 2014. Shape, thermal, surface properties determination of a candidate spacecraft target (175706) 1996 FG3, MNRAS, 439: 3357
7. Yu L. L., Ji J. H., & Wang Su, 2014. Investigation of Thermal Inertia and Surface Properties for Near-earth Asteroid (162173) 1999 JU3, ChAA, 38, 317–329

Co-author Paper

8. Jiang H. X., Ji J. H., & Yu L. L., 2020, AJ, 159, 264
9. Jiang H. X., Yu L. L., & Ji J. H., 2019, AJ , 158, 205

Books & Book Chapters:

Conference Papers:

1. Yu L. L., Hsia C. H., & Ip W. H., 2019. Constraints on the activity of MBC 133P/Elst-Pizarro from a thermophysical perspective, EPSC-DPS2019 Joint Meeting, Geneva, Switzerland. (Oral Talk)
2. Yu L. L., Ip W. H., & Spohn T., 2019. Can a cometary mechanism explain the activity of the Geminids? EPSC-DPS2019 Joint Meeting, Geneva, Switzerland. (Oral Talk)
3. Yu L. L., Ip W. H., & Spohn T., 2019. Dust-ice two layer model for volatile Sublimation and Condensation on Icy Small Bodies, EPSC-DPS2019 Joint Meeting, Geneva, Switzerland. (Poster)

4. Yu L.L., Ip W.H., & Spohn T., 2019. On the active mechanism of the Geminids parent (3200) Phaethon, 50th LPSC, LPI Contrib. No. 2132. (Oral Talk)
5. Yu L.L., Ip W.H., 2018. Numerical Modeling the diurnal Cycle of Water Sublimation and Condensation on Icy Small Bodies, International Workshop on Solar System Small Bodies Exploration, Beijing. (Oral Talk)
6. Yu L.L., Ji J.H., Ip W.H., 2017. Surface Thermophysical Properties Investigation of the Potentially Hazardous Asteroid (99942) Apophis, 14th Annual Meeting of Asia Oceania Geosciences Society, Suntec, Singapore. (Poster)
7. Yu L.L., Yang B., Ji, J.H., Ip W.H., 2017. Thermophysical characteristics of the large main-belt asteroid (349) Dembowska, Asia-Pacific Regional IAU Meeting, Taipei, Taiwan. (Poster)