

- Campbell, B.A.C.L.M., Campbell, D.B., Hawke, B.R., Ghent, R.R., Margot, J.L., 2006. 20-m resolution radar studies of the Aristarchus Plateau and Reiner Gamma formation. *Lunar Planet. Sci.* XXXVII. Abstract 1717.
- Charles, C., 2007. A review of recent laboratory double layer experiments. *Plasma Sources Sci. Technol.* 16, R1–R25.
- Chevrel, S.P. et al., 2006. Surface physical properties of the lunar regolith at Reiner Gamma: Characterization and distribution using Hapke model inversion. *Lunar Planet. Sci.* XXXVII. Abstract 1173.
- Clay, D.R., Goldstein, B.E., Neugebauer, M., Snyder, C.W., 1975. Lunar surface solar wind observations at Apollo 12 and Apollo 15 sites. *J. Geophys. Res.* 80, 1751–1760.
- Collinson, D.W., 1983. *Methods in Rock Magnetism and Palaeomagnetism: Techniques and Instrumentations*. Chapman and Hall, New York. 503 pp.
- Colwell, J.E. et al., 2007. Lunar surface: Dust dynamics and regolith mechanics. *Rev. Geophys.* 45, RG2006.
- Colwell, J.E. et al., 2009. Lunar dust levitation. *J. Aeros. Eng.* 22, 2–9.
- Criswell, D.R., 1972. Lunar dust motion. *Proc. Lunar Sci. Conf.* 3, 2671–2680.
- Criswell, D.R., De, B.R., 1977. Intense localized photoelectric charging in the lunar sunset terminator region: 2. Supercharging at the progression of sunset. *J. Geophys. Res.* 82, 1005–1007.
- Denevi, B.W., Robinson, M.S., 2009. Albedo of immature mercurian crustal materials: Evidence for the presence of ferrous iron. *Lunar Planet. Sci.* XXXIX. Abstract 1750.
- Dyal, P.C.W., Sonett, C.P., 1970. Apollo 12 magnetometer: Measurements of a steady magnetic field on the surface of the Moon. *Science* 196, 762–764.
- El-Baz, F., 1972. The Alhazen to Abul Wafa swirl belt: An extensive field of light-colored, sinuous markings. In: *Apollo 16 Preliminary Science Report*, NASA SP-315, 29–97.
- Ergun, R.E., Andersson, L., Main, D., Su, Y.-J., Newman, D.L., Goldman, M.V., Carlson, C.W., Hull, A.J., McFadden, J.P., Mozer, F.S., 2004. Auroral particle acceleration by strong double layers: Upward current region. *J. Geophys. Res.* 109, A12220.
- Farrell, W.M. et al., 2007. Complex electric fields near the lunar terminator: The near-surface wake and accelerated dust. *Geophys. Res. Lett.* 34, L14201.
- Ferraro, V.C.A., 1952. On the theory of the first phase of a geomagnetic storm: A new illustrative calculation based on an idealized (plane not cylindrical) model field distribution. *J. Geophys. Res.* 57, 15–49.
- Fuller, M., Cisowski, S.M., 1987. Lunar paleomagnetism. *Geomagnetism* 2, 307–455.
- Gault, D.E., Horz, F., Brownlee, D.E., Hartung, J.B., 1974. Mixing of the lunar regolith. *Proc. Lunar Sci. Conf.* 5, 2365–2386.
- Goertz, C.K., 1989. Dusty plasmas in the Solar System. *Rev. Geophys.* 27, 271–292.
- Goldstein, B., 1974. Observations of electrons at the lunar surface. *J. Geophys. Res.* 79, 23–35.
- Halekas, J.S. et al., 2001. Mapping of crustal magnetic anomalies on the lunar near side by the Lunar Prospector electron reflectometer. *J. Geophys. Res.* 106, 27841–27852.
- Halekas, J.S., Lin, R.P., Mitchell, D.L., 2005. Large negative lunar surface potentials in sunlight and shadow. *Geophys. Res. Lett.* 32, L09102.
- Halekas, J.S. et al., 2008. Lunar Prospector observations of the electrostatic potential of the lunar surface and its response to incident currents. *J. Geophys. Res.* 113, A09102.
- Hapke, B., 2001. Space weathering from Mercury to the Asteroid Belt. *J. Geophys. Res.* 106, 10039–10073.
- Hood, L.L., 1980. Bulk magnetization properties of the Fra Mauro and Reiner Gamma formations. *Proc. Lunar Sci. Conf.* 11, 1879–1896.
- Hood, L.L., Artemieva, N.A., 2008. Antipodal effects of lunar basin-forming impacts: Initial 3-D simulations and comparisons with observations. *Icarus* 193, 485–502.
- Hood, L.L., Schubert, G., 1980. Lunar magnetic anomalies and surface optical properties. *Science* 208, 49–51.
- Hood, L.L., Williams, C.R., 1989. The lunar swirls: Distribution and possible origins. *Proc. Lunar Sci. Conf.* 19, 99–113.
- Hood, L.L., Coleman, P.J., Wilhelms, D.E., 1979. Lunar nearside magnetic anomalies. *Proc. Lunar Sci. Conf.* 10, 2235–2257.
- Hood, L.L. et al., 2001. Initial mapping and interpretation of lunar crustal magnetic anomalies using Lunar Prospector magnetometer data. *J. Geophys. Res.* 106, 27825–27839.
- Hughes, A.L.H., Colwell, J.E., DeWolfe, A.W., 2008. Electrostatic dust transport on Eros: 3-D simulations of pond formation. *Icarus* 195, 630–648.
- Hull, A.J., Bonnell, J.W., Mozer, F.S., Scudder, J.D., Chaston, C.C., 2003. Large parallel electric fields in the upward current region of the aurora: Evidence for ambipolar effects. *J. Geophys. Res.* 108, 1265.
- Kaydash, V. et al., 2009. Photometric anomalies of the lunar surface studied with SMART-1 AMIE data. *Icarus* 202, 393–413.
- Kreslavsky, M.A., Shkuratov, Y.G., 2003. Photometric anomalies of the lunar surface: Results from Clementine data. *J. Geophys. Res.* 108, 5015.
- Kurata, M. et al., 2005. Mini-magnetosphere over the Reiner Gamma magnetic anomaly region on the Moon. *Geophys. Res. Lett.* 32, L24205.
- Lazarus, A.J. et al., 1995. Recent observations of the solar wind in the outer heliosphere. *Adv. Space Res.* 16, 77–84.
- Lin, R.P., 1979. Constraints on the origins of lunar magnetism from electron reflectometer measurements of surface magnetic fields. *Phys. Earth Planet. Inter.* 20, 271–280.
- Lin, R.P. et al., 1998. Lunar surface magnetic fields and their interaction with the solar wind: Results from Lunar Prospector. *Science* 281, 1480–1484.
- Lucey, P.G., Blewett, D.T., Taylor, G.J., Hawke, B.R., 2000. Imaging of lunar surface maturity. *J. Geophys. Res.* 105, 20377–20386.
- Lucey, P. et al., 2006. Understanding the lunar surface and space–Moon interactions. *Rev. Mineral. Geochem.* 60, 83–219.
- Lundin, R. et al., 2006. Plasma acceleration above martian magnetic anomalies. *Science* 311, 890–893.
- Manka, R.H., 1973. Plasma and potential at the lunar surface. In: *Photon and Particle Interactions with Surfaces in Space*, Proceedings of the 6th ESLAB Symposium, Noordwijk, pp. 347–361.
- McCoy, J.E., 1976. Photometric studies of light scattering above the lunar terminator from Apollo solar corona photography. *Proc. Lunar Sci. Conf.* 7, 1087–1112.
- McKay, D.S., Fruland, R.M., Heiken, G.H., 1974. Grain size and evolution of the lunar soil. *Proc. Lunar Sci. Conf.* 5, 887–906.
- Murphy, T.W. et al., 2010. Long-term degradation of optical devices on the Moon. *Icarus* 208, 31–35.
- Neugebauer, M., Snyder, C.W., Clay, D.R., Goldstein, B.E., 1972. Solar wind observations on the lunar surface with the Apollo-12 ALSEP. *Planet. Space Sci.* 20, 1577–1591.
- Nicholas, J.B., Purucker, M.E., Sabaka, T.J., 2007. Age spot or youthful marking: Origin of Reiner Gamma. *Geophys. Res. Lett.* 34, L02205.
- Nitter, T., Havnes, O., Melandso, F., 1998. Levitation and dynamics of charged dust in the photoelectron sheath above surfaces in space. *J. Geophys. Res.* 103, 6605–6620.
- Noble, S.K., Pieters, C.M., 2003. Space weathering on Mercury: Implications for remote sensing. *Solar Syst. Res.* 37, 34–39.
- Noble, S.K. et al., 2001. The optical properties of the finest fraction of lunar soil: Implications for space weathering. *Meteorit. Planet. Sci.* 36, 31–42.
- Page, T.T., Carruthers, G.R., 1978. Far ultraviolet atlas of the large Magellanic Cloud. *Naval Research Laboratory Report* 8206, 1–131.
- Pelizzari, M.A., Criswell, D.R., 1978. Lunar dust transport by photoelectric charging at sunset. *Proc. Lunar Sci. Conf.* 9, 3225–3237.
- Pieters, C.M., Taylor, L.A., 2003. Systematic global mixing and melting in lunar soil evolution. *Geophys. Res. Lett.* 98, 2048.
- Pieters, C.M., Fischer, E.M., Rode, O.A.B., 1993. Optical effects of space weathering: The role of the finest fraction. *J. Geophys. Res.* 98, 20817–20824.
- Pinet, C.P. et al., 2000. Local and regional lunar regolith characteristics at Reiner Gamma Formation: Optical and spectroscopic properties from Clementine and Earth-based data. *J. Geophys. Res.* 105, 9457–9475.
- Pinet, P.C., Cord, A., Chevrel, S., Daydou, Y., 2004. Optical response and surface physical properties of the lunar regolith at Reiner Gamma formation from Clementine orbital photometry: Derivation of the Hapke parameters at local scale. *Lunar Planet. Sci.* XXXV. Abstract 1660.
- Raadu, M.A., 1989. The physics of double layers and their role in astrophysics. *Phys. Rep.* 178, 25–97.
- Reasoner, D.L., Burke, W.J., 1972. Characteristics of the lunar photoelectron layer in the geomagnetic tail. *J. Geophys. Res.* 77, 6671–6687.
- Reiff, P.H., 1975. Modification of particle fluxes at the lunar surface by electric and magnetic fields. *Physics, Astronomy and Astrophysics*. Houston, Rice University. Ph.D.
- Reiff, P.H., Burke, W.J., 1976. Interactions of the plasma sheet with the lunar surface at the Apollo 14 site. *J. Geophys. Res.* 81, 4761–4764.
- Rennilson, J.J., Criswell, D.R., 1974. Survey observations of lunar horizon-glow. *Moon* 10, 121–142.
- Richmond, N.C., Hood, L.L., 2008. A preliminary global map of the vector lunar crustal magnetic field based on Lunar Prospector magnetometer data. *J. Geophys. Res.* 113, E02010.
- Richmond, N.C. et al., 2003. Correlation of a strong lunar magnetic anomaly with a high-albedo region of the Descartes mountains. *Geophys. Res. Lett.* 30, 1395.
- Richmond, N.C. et al., 2005. Correlations between magnetic anomalies and surface geology. *J. Geophys. Res.* 110, E05011.
- Riner, M.A., Robinson, M.S., Eckart, J.M., Desch, S.J., 2008. Global survey of color variations on 433 Eros: Implications for regolith processes and asteroid environments. *Icarus* 198, 67–76.
- Robertson, S., Gulbis, A.A.S., Colwell, J., Horányi, M., 2003. Dust grain charging and levitation in a weakly collisional sheath. *Phys. Plasmas* 10, 3874–3880.
- Robinson, M.S., Thomas, P.C., Veveřka, J., Murchie, S., Carcich, B., 2001. The nature of ponded deposits on Eros. *Nature* 413, 396–400.
- Russell, C.T., Lichtenstein, B.R., 1975. On the source of lunar limb compressions. *J. Geophys. Res.* 80, 4700–4711.
- Saito, Y. et al., 2009. Solar wind proton reflection at the lunar surface: Low energy ion measurement by MAP-PACE onboard SELENE (KAGUYA). *Geophys. Res. Lett.* 35, L24205.
- Sasaki, S. et al., 2001. Production of iron nanoparticles by laser irradiation in a simulation of lunar-like space weathering. *Nature* 410, 555–557.
- Sasaki, S., Kurahashi, E., Yamanaka, C., Nakamura, K., 2003. Laboratory simulation of space weathering: Changes of optical properties and TEM/ESR confirmation of nanophase metallic iron. *Adv. Space Res.* 31, 2537–2542.
- Schamel, H., 1986. Electron holes, ion holes and double layers. *Phys. Rep.* 140, 161–191.
- Schultz, P., 1976. *Moon Morphology: Interpretations Based on Lunar Orbiter Photography*. University of Texas Press. 626 pp.
- Schultz, P., Srnka, L., 1980. Cometary collisions on the Moon and Mercury. *Nature* 284, 22–26.
- Severnyi, A.B., Terez, E.I., Zvereva, A.M., 1973. Preliminary results obtained from an astrophotometer installed on Lunokhod-II. *COSPAR-Konstanz*, 25 May–2 June.
- Severnyi, A.B., Terez, E.I., Zvereva, A.M., 1975. The measurements of sky brightness on Lunokhod-2. *Moon* 14, 123–128.