

- Lucey, P., Blewett, D., Hawke, B., 1998. FeO and TiO₂ concentrations in the south Pole-Aitken basin: Implication for mantle composition and basin formation. *J. Geophys. Res. (Planets)* 103, 3701–3708.
- Melosh, H.J., 1989. *Impact Cratering: A Geological Process*. Oxford Univ. Press. 288pp.
- Opanasenko, N., Shkuratov, Y., 2004. The Reiner gamma formation as characterized by Earth-based photometry at large phase angles. *Lunar Planet. Sci.* 35. Abstract #1493.
- Opanasenko, N.V., Shkuratov, Yu.G., Velikodsky, Yu.I., Korokhin, V.V., Kaydash, V.G., Gerasimenko, S.Yu., 2009a. Phase ratio mapping of polarimetric characteristics of south west portion of the lunar nearside at large phase angles. In: *Abstr. of Pap. 50th Int. Microsymp. on Planetology*, 12–14 October 2009, Moscow (Abstract #M50_40).
- Opanasenko, N.V., Opanasenko, A.N., Shkuratov, Yu.G., Kaidash, V.G., Velikodskii, Yu.I., Korokhin, V.V., 2009b. The negative polarization parameters of the light scattered by the lunar surface: Mapping. *Solar Syst. Res.* 43, 210–214.
- Pinet, P., Shevchenko, V., Chevrel, S., Daydou, Y., Rosemberg, C., 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.
- Richmond, N., Hood, L., Halekas, J., Mitchell, D., Lin, R., Acuna, M., Binder, A., 2003. Correlation of a strong lunar magnetic anomaly with a high-albedo region of the Descartes mountains. *Geophys. Res. Lett.* 30 (7), 48.1–48.4.
- Rougier, G., 1933. Photometrie photoelectrique global de la Lune. *Ann. Obs. Strasburg* 2, 205–399.
- Schultz, P., 1976. *Moon Morphology: Interpretations based on Lunar Orbiter Photography*. Univ. of Texas Press, Austin. 641pp.
- Schultz, P.H., Srnka, L.J., 1980. Cometary collisions on the Moon and Mercury. *Nature* 284, 22–26.
- Schultz, P., Staid, M., Pieters, C., 2006. Lunar activity from recent gas release. *Nature* 444, 184–186. doi:10.1038/nature05303.
- Shepard, M., Brackett, R., Arvidson, R., 1995. Self-affine (fractal) topography: Surface parametrization and radar scattering. *J. Geophys. Res.* 100 (E6), 11709–11718.
- Shkuratov, Y., 1981. Connection between the albedo and polarization properties of the Moon. *Fresnel component of reflected light. Sov. Astron.* 25 (4), 490–494.
- Shkuratov, Yu.G., Basilevsky, A.T., 1981. An attempt at mapping the parameter of surface microporosity of lunar regolith: Correlation between albedo and polarization properties of the Moon. *Lunar Planet. Sci.* XII, 981–983 (abstract).
- Shkuratov, Y.G., Helfenstein, P., 2001. The opposition effect and the quasi-fractal structure of regolith: I. Theory. *Icarus* 152, 96–116.
- Shkuratov, Yu.G., Opanasenko, N.V., 1992. Polarimetric and photometric properties of the Moon: Telescope observation and laboratory simulation. 2. The positive polarization. *Icarus* 99, 468–484.
- Shkuratov, Yu.G., Red'kin, S.P., Bitanova, N.V., Il'insky, A.V., 1980. The relationship between albedo and polarimetric properties of the Moon. *New optical parameters. Astron. Circ.* #1112, 3–5 (in Russian).
- Shkuratov, Y., Starukhina, L., Kreslavsky, M., Opanasenko, N., Stankevich, D., Shevchenko, V., 1994. Principle of undulatory invariance in photometry of atmosphereless celestial bodies. *Icarus* 109, 168–190.
- Shkuratov, Y., Kreslavsky, M., Ovcharenko, A., Stankevich, D., Zubko, E., Pieters, C., Arnold, G., 1999a. Opposition effect from Clementine data and mechanisms of backscatter. *Icarus* 141, 132–155.
- Shkuratov, Yu.G., Kaydash, V.G., Opanasenko, N.V., 1999b. Iron and titanium abundance and maturity degree distribution on the lunar nearside. *Icarus* 137, 222–234.
- Shkuratov, Yu.G., Petrov, D.V., Videen, G., 2003. Classical photometry of pre-fractal surfaces. *J. Opt. Soc. Am.* 20 (11), 2081–2092.
- Shkuratov, Yu.G., Kaydash, V.G., Starukhina, L.V., Pieters, C., 2007a. Lunar surface agglutinates: Mapping composition anomalies. *Solar Syst. Res.* 41, 177–185.
- Shkuratov, Yu., Opanasenko, N., Zubko, E., Grynko, Ye., Korokhin, V., Pieters, C., Videen, G., Mall, U., Opanasenko, A., 2007b. Multispectral polarimetry as a tool to investigate texture and chemistry of lunar regolith particles. *Icarus* 187, 406–416.
- Shkuratov, Yu., Opanasenko, N., Opanasenko, A., Zubko, E., Bondarenko, Yu., Kaydash, V., Videen, G., Velikodsky, Yu., Korokhin, V., 2008. Polarimetric mapping of the Moon at a phase angle nearby minimum of polarization degree. *Icarus* 198, 1–6.
- Shorthill, R.W., 1973. Infrared atlas charts of the eclipsed Moon. *Moon* 7, 22–45.
- Starukhina, L.V., Shkuratov, Yu.G., 2004. Swirls on the Moon and Mercury: Meteoroid swarm encounters as a formation mechanism. *Icarus* 167, 136–147.
- van Diggelen, J., 1964. The radiance of lunar objects near opposition. *Planet. Space Sci.* 13, 271–279.
- Wichman, R.W., Wood, C.A., 1994. Comet disruption and crater chain formation in the Earth–Moon system. *Lunar Planet. Sci.* 25. Abstract #1746, 1491–1492.
- Willey, R.L., 1978. The Moon in Heiligenschein. *Science* 200, 1265–1266.
- Zisk, S.H., Pettengill, G.H., Catuna, G.W., 1974. High-resolution radar maps of the lunar surface at 3.8-cm wavelength. *The Moon* 10, 17–50.