

For the ten most relevant publications of key senior researchers of ScaRT, please see:

<http://wiki.helsinki.fi/display/PSR/ScaRT>

The ten most relevant publications by Karri Muinonen follow:

1. Muinonen, K. O., Sihvola, A. H., Lindell, I. V., and Lumme, K. A. (1991). Scattering by a small object close to an interface. II: Study of backscattering. *Journal of the Optical Society of America A* **8**, 477–482.
2. Muinonen, K., and Bowell, E. (1993). Asteroid orbit determination using Bayesian probabilities. *Icarus* **104**, 255–279.
3. Muinonen, K., Nousiainen, T., Fast, P., Lumme, K., and Peltoniemi, J. I. (1996). Light scattering by Gaussian random particles: ray optics approximation. *Journal of Quantitative Spectroscopy and Radiative Transfer* **55**, 577–601.
4. Sasse, C., Muinonen, K., Piironen, J., and Dröse, G. (1996). Albedo measurements on single particles. *Journal of Quantitative Spectroscopy and Radiative Transfer* **55**, 673–681.
5. Kaasalainen, M., Torppa, J., and Muinonen, K. (2001). Optimization methods for asteroid lightcurve inversion. II. The complete inverse problem. *Icarus* **153**, 37–51.
6. Muinonen, K. (2004). Coherent backscattering of light by complex random media of spherical scatterers: Numerical solution. *Waves in Random Media* **14**(3), 365–388.
7. Muinonen, K., Mishchenko, M. I., Dlugach, J. M., Zubko, E., Penttilä, A., and Videen, G. (2012). Coherent backscattering numerically verified for a finite volume of spherical particles. *Astrophysical Journal* **760**, 118, 11 p. (doi:10.1088/0004-637X/760/2/118).
8. Kohout, T., Gritsevich, M., Grokhovsky, V. I., Grigoriy, G. A., Yakovlev, A., Haloda, J., Halodova, P., Michallick, R. M., Penttilä, A., and Muinonen, K. (2014). Mineralogy, reflectance spectra, and physical properties of the Chelyabinsk LL5 chondrite - insight into shock induced changes in asteroid regoliths. *Icarus* **228**, 78–85.
9. Herranen, J., Markkanen, J., and Muinonen, K. (2016). Dynamics of interstellar dust particles in electromagnetic radiation fields. In *Electromagnetic Theory Symposium EMTS'16*, in press.
10. Muinonen, K., Markkanen, J., Penttilä, A., Väisänen, T., and Peltoniemi, J. (2016). Multiple scattering by dense random media: Numerical solution. In *Electromagnetic Theory Symposium EMTS'16*, in press.