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Forskningsoutput

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Light scattering in random media with wavelength-scale structures: astronomical and industrial applications

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Optimal cubature on the sphere and other orientation averaging schemes

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Polarization of light backscattered by wavelength-scale particles

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Asteroid photometric and polarimetric phase curves: Joint linear-exponential modeling

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Spectral properties and surface uniformity of black glass gloss references

Juuti, M., Tuononen, H., Penttilä, A., Myller, K., Lumme, K. & Peiponen, K. -E., 2009, I: *Optical Engineering*. 48, s. 033603 5 s.

Statistical analysis of the polarization of asteroids and comets

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Comparison between discrete dipole implementations and exact techniques

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Asteroid taxonomy and polarization

Penttilä, A., 2006, *9th conference on electromagnetic and light scattering by nonspherical particles: theory, measurements, and applications*.

Comparison between discrete dipole and exact techniques

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Light scattering efficiency of starch acetate pigments as a function of size and packing density

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Penttilä, A. & Lumme, K., 2005, *Proceedings of the 8th Conference on Electromagnetic and Light Scattering by Nonspherical Particles: Theory, Measurements, and Applications : 2005*.

Statistical analysis of asteroidal and cometary polarization phase curves

Penttilä, A., Lumme, K., Hadamchik, E. & Lvasseur-Regourd, A. -C., 2005, I: *Astronomy & Astrophysics*. 432, 3, s. 1081-1090 10 s.

The effect of particle shape on scattering - A study with a collection of axisymmetric particles and sphere clusters

Penttilä, A. & Lumme, K., 2004, I: *Journal of Quantitative Spectroscopy & Radiative Transfer*. 89, 1-4, s. 303-310 8 s.

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Lumme, K., Green, K., Muinonen, K. & Penttilä, A., 2003, *Electromagnetic and Light Scattering - Theory and Applications VII: Proceedings of the 7th Conference on electromagnetic and Light Scattering by Nonspherical Particles: Theory, Measurements and Applications*. Bremen, Germany, s. 220-223 4 s.

The effect of particle shape on scattering - A study with a collection of axisymmetric particles and sphere clusters

Penttilä, A. & Lumme, K., 2003, *Electromagnetic and Light Scattering - Theory and Applications VII*. Wriedt, T. (red.). Bremen, Germany, s. 289-292 4 s.

Theoretical analysis of the particle properties and polarization measurements made in microgravity

Penttilä, A., Lumme, K., Worms, J. C., Hadamchik, E., Renard, J. B. & Lvasseur-Regourd, A. C., 2003, I: *Journal of Quantitative Spectroscopy & Radiative Transfer*. 79, s. 1043-1049 7 s.

Light scattering by cometary dust - A review of the codes, constraints and results

Lumme, K. & Penttilä, A., 2002, *Proceedings of the 6th Conference on Electromagnetic and Light Scattering by Nonspherical Particles: Theory, Measurements and Applications*. Florida, USA, s. 195-198 4 s.

Partikkelien muodon mallintaminen niiden 2D-satunnaisprojektiosta

Penttilä, A., 2002, 53 s.

Aktiviteter

Earth and Planetary Science Letters (Tidskrift)

Antti Penttilä (Referentgranskare)
2022

Frontiers in Physics (Tidskrift)

Antti Penttilä (Referentgranskare)
2022

Icarus (Tidskrift)

Antti Penttilä (Referentgranskare)
2022 → ...

Remote Sensing (Tidskrift)

Antti Penttilä (Referentgranskare)
2022

The Planetary Science Journal (Tidskrift)

Antti Penttilä (Referentgranskare)
2022

Journal of Quantitative Spectroscopy & Radiative Transfer (Tidskrift)

Antti Penttilä (Referentgranskare)
2021

Journal of Quantitative Spectroscopy & Radiative Transfer (Tidskrift)

Antti Penttilä (Referentgranskare)
2021

Optics Letters (Tidskrift)

Antti Penttilä (Referentgranskare)
2021

Remote Sensing (Tidskrift)

Antti Penttilä (Referentgranskare)
2021

Tähtienväliset vierailijat aurinkokunnassamme

Antti Penttilä (!!Speaker)
3 mars 2020

Remote Sensing (Tidskrift)

Antti Penttilä (Referentgranskare)
2020

Remote Sensing (Tidskrift)

Antti Penttilä (Referentgranskare)
2020

Science (Tidskrift)

Antti Penttilä (Referentgranskare)
2020

Astronomy & Astrophysics (Tidskrift)

Antti Penttilä (Referentgranskare)
2019

Astrophysical Journal Supplement Series (Tidskrift)

Antti Penttilä (Referentgranskare)
2019

Icarus (Tidskrift)

Antti Penttilä (Referentgranskare)
2019

Journal of Quantitative Spectroscopy & Radiative Transfer (Tidskrift)

Antti Penttilä (Referentgranskare)
2019

Journal of Quantitative Spectroscopy & Radiative Transfer (Tidskrift)

Antti Penttilä (Referentgranskare)
2019

Remote Sensing (Tidskrift)

Antti Penttilä (Referentgranskare)
2019

Astronomy & Astrophysics (Tidskrift)

Antti Penttilä (Referentgranskare)
2018

Monthly Notices of the Royal Astronomical Society (Tidskrift)

Antti Penttilä (Referentgranskare)
2018

Remote Sensing (Tidskrift)

Antti Penttilä (Referentgranskare)
2018

Research in astronomy and astrophysics (Tidskrift)

Antti Penttilä (Referentgranskare)
2018

Laboratory Measurements of Single-Particle Polarimetric Spectrum

Antti Penttilä (!!Invited speaker)
11 dec. 2017

WORKSHOP ON SPECTROSCOPY, PHOTOMETRY, AND POLARIMETRY OF AIRLESS SOLAR SYSTEM OBJECTS

Karri Olavi Muinonen (Ordförande), Maria Gritsevich (Ordförande i organisationskommitté) & Antti Penttilä (Sekreterare i organisationskommitté)
14 sep. 2017 → 15 sep. 2017

FINNISH URSI CONVENTION ON RADIO SCIENCE

Karri Olavi Muinonen (Ordförande), Antti Penttilä (Ordförande i organisationskommitté) & Maria Gritsevich (Sekreterare i organisationskommitté)
8 sep. 2017 → 9 sep. 2017

Europlanet Consortium (Extern organisation)

Antti Penttilä (Styrelsemedlem)
2017 → ...

Journal of Laser Applications (Tidskrift)

Antti Penttilä (Referentgranskare)
2017

Journal of Quantitative Spectroscopy & Radiative Transfer (Tidskrift)

Antti Penttilä (Referentgranskare)
2017

Journal of Quantitative Spectroscopy & Radiative Transfer (Tidskrift)

Antti Penttilä (Referentgranskare)
2017

Journal of Quantitative Spectroscopy & Radiative Transfer (Tidskrift)

Antti Penttilä (Referentgranskare)

2017

BigSkyEarth WG2 and 4 Meeting in Finland

Maria Gritsevich (Ordförande i organisationskommitté), Antti Ilmari Penttilä (Medlem i organisationskommitté), Jouni Ilmari Peltoniemi (Medlem i organisationskommitté), Nataliya Zubko (Medlem i organisationskommitté), Jarkko Koskinen (Medlem i organisationskommitté) & Karri Muinonen (Medlem i organisationskommitté)

10 okt. 2016 → 11 okt. 2016

Planetary and Space Science (Tidskrift)

Antti Penttilä (Referentgranskare)

2015

Laser-light and Interactions with Particles

Antti Penttilä (Poster presentation)

25 aug. 2014 → 29 aug. 2014

Asteroids, Comets, Meteors

Antti Penttilä (Ordförande i organisationskommitté)

30 juni 2014 → 4 juli 2014

Conference on Electromagnetic and Light Scattering

Antti Penttilä (Närvarande)

17 maj 2013 → 21 maj 2013

Journal of Quantitative Spectroscopy & Radiative Transfer (Tidskrift)

Antti Penttilä (Referentgranskare)

2012

Journal of Laser Applications (Tidskrift)

Antti Penttilä (Referentgranskare)

2011

Journal of Quantitative Spectroscopy & Radiative Transfer (Tidskrift)

Antti Penttilä (Referentgranskare)

2011

Brazilian Journal of Chemical Engineering (Tidskrift)

Antti Penttilä (Referentgranskare)

2010

Conference on Electromagnetic and Light Scattering

Antti Penttilä (Ordförande i organisationskommitté)

2010

Conference on Electromagnetic and Light Scattering XII

Antti Penttilä (Närvarande)

2010

International Conference on Electromagnetic and Light Scattering (Tidskrift)

Antti Penttilä (Redaktör)

2010

International Conference on Electromagnetic and Light Scattering (Tidskrift)

Antti Penttilä (Redaktör)
2010

Journal of Quantitative Spectroscopy & Radiative Transfer (Tidskrift)

Antti Penttilä (Referentgranskare)
2010

Unknown

Antti Penttilä (Besökande föreläsare)
1 dec. 2008 → 6 dec. 2008

Conference on Electromagnetic and Light Scattering by Nonspherical Particles

Antti Penttilä (Poster presentation)
17 juni 2007

DDA-workshop

Antti Penttilä (Talare: Presentation)
23 mars 2007

International Space Science Institute (Extern organisation)

Antti Penttilä (Expert)
2007 → 2008

Journal of Quantitative Spectroscopy & Radiative Transfer (Tidskrift)

Antti Penttilä (Referentgranskare)
2007

Conference on Electromagnetic and Light Scattering by Nonspherical Particles

Antti Penttilä (Talare: Presentation)
5 juni 2006 → 10 juni 2006

Conference on Electromagnetic and Light Scattering by Nonspherical Particles

Antti Penttilä (Poster presentation)
5 juni 2006 → 10 juni 2006

Finnish-Estonian vegetation remote sensing seminar

Antti Penttilä (Talare: Presentation)
18 apr. 2006

International Conference on Electromagnetic and Light Scattering (Tidskrift)

Antti Penttilä (Referentgranskare)
2006

Conference on Electromagnetic and Light Scattering by Nonspherical Particles

Antti Penttilä (Talare: Presentation)
15 maj 2005 → 23 maj 2005

TEKES C-Coat seminar

Antti Penttilä (Poster presentation)
16 feb. 2005

International Conference on Electromagnetic and Light Scattering (Tidskrift)

Antti Penttilä (Referentgranskare)
2005

Conference on Electromagnetic and Light Scattering by Nonspherical Particles

Antti Penttilä (Talare: Presentation)
6 sep. 2003 → 14 sep. 2003

Tartu Conference on Multivariate Statistics-konferenssi

Antti Penttilä (Närvarande)
8 aug. 2003 → 12 aug. 2003

Suomen avaruustutkijoiden COSPAR kokous

Antti Penttilä (Poster presentation)
30 okt. 2002

Unknown

Antti Penttilä (Besökande föreläsare)
1 aug. 2002 → 31 aug. 2002

Priser

JQSRT Peter C. Waterman Award: Scattering & Remote Sensing

Penttilä, Antti (!!Recipient), 2012

Press/media

Coating the synergy, yield and sequel

Antti Penttilä
01/03/2006
1 Mediabidrag

Painopaperin kirkkaus kiinnostaa tähtitieteilijöitä

Antti Penttilä
01/06/2007
1 Mediabidrag