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Research outputs

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Penttilä, A., Lumme, K. & Kuutti, L., 2006, In: *Applied Optics*. 45, 15, p. 3501-3509 9 p.

Coherent backscattering by aggregates of spherical constituents

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

Numerical solution to the first-order scattering by rough surfaces

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, In: *Astronomy & Astrophysics*. 432, 3, p. 1081-1090 10 p.

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

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

Light scattering by large densely-packed aggregates: A wave-optical approach

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, p. 220-223 4 p.

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. (ed.). Bremen, Germany, p. 289-292 4 p.

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

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

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, p. 195-198 4 p.

Partikkelien muodon mallintaminen niiden 2D-satunnaisprojektiosta

Penttilä, A., 2002, 53 p.

Activities

Nature Astronomy (Journal)

Penttilä, A. (Reviewer)

2025

NEO absolute magnitudes with H,G1,G2 photometric function

Penttilä, A. (Speaker)

11 Nov 2024

Advances in Space Research (Journal)

Penttilä, A. (Reviewer)

2024

Astronomical Journal (Journal)

Penttilä, A. (Reviewer)

2024

Astronomy & Astrophysics (Journal)

Penttilä, A. (Reviewer)

2024

Astronomy and Astrophysics Review (Journal)

Penttilä, A. (Reviewer)

2024

Icarus (Journal)

Penttilä, A. (Reviewer)

2024

International Journal of Remote Sensing (Journal)

Penttilä, A. (Reviewer)

2024

Journal of Astronomical Telescopes, Instruments, and Systems (Journal)

Penttilä, A. (Reviewer)

2024

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)

Penttilä, A. (Reviewer)

2024

New Astronomy (Journal)

Penttilä, A. (Reviewer)

2024

Remote Sensing (Journal)

Penttilä, A. (Reviewer)

2024

The Planetary Science Journal (Journal)

Penttilä, A. (Reviewer)

2024

Applied Optics (Journal)

Penttilä, A. (Reviewer)

2023

Astronomical Journal (Journal)

Penttilä, A. (Reviewer)
2023

Geo-spatial information science (Journal)

Penttilä, A. (Reviewer)
2023

Icarus (Journal)

Penttilä, A. (Reviewer)
2023

Icarus (Journal)

Penttilä, A. (Reviewer)
2023

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)

Penttilä, A. (Reviewer)
2023

Modeling the asteroid polarization of the DART mission impact ejecta

Penttilä, A. (Speaker)
2023

Nature Communications (Journal)

Penttilä, A. (Reviewer)
2023

Nature Communications (Journal)

Penttilä, A. (Reviewer)
2023

Remote Sensing (Journal)

Penttilä, A. (Reviewer)
2023

Scientific Reports (Journal)

Penttilä, A. (Reviewer)
2023

Earth and Planetary Science Letters (Journal)

Penttilä, A. (Reviewer)
2022

Frontiers in Physics (Journal)

Penttilä, A. (Reviewer)
2022

Icarus (Journal)

Penttilä, A. (Reviewer)
2022 → ...

Remote Sensing (Journal)

Penttilä, A. (Reviewer)
2022

Remote Sensing (Journal)

Penttilä, A. (Reviewer)
2022

Remote Sensing (Journal)

Penttilä, A. (Reviewer)
2022

The Planetary Science Journal (Journal)

Penttilä, A. (Reviewer)
2022

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)

Penttilä, A. (Reviewer)
2021

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)

Penttilä, A. (Reviewer)
2021

Optics Letters (Journal)

Penttilä, A. (Reviewer)
2021

Remote Sensing (Journal)

Penttilä, A. (Reviewer)
2021

Tähtienväliset vierailijat aurinkokunnassamme

Penttilä, A. (Speaker)
3 Mar 2020

Remote Sensing (Journal)

Penttilä, A. (Reviewer)
2020

Remote Sensing (Journal)

Penttilä, A. (Reviewer)
2020

Science (Journal)

Penttilä, A. (Reviewer)
2020

Astronomy & Astrophysics (Journal)

Penttilä, A. (Reviewer)
2019

Astrophysical Journal Supplement Series (Journal)

Penttilä, A. (Reviewer)
2019

Icarus (Journal)
Penttilä, A. (Reviewer)
2019

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)
Penttilä, A. (Reviewer)
2019

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)
Penttilä, A. (Reviewer)
2019

Remote Sensing (Journal)
Penttilä, A. (Reviewer)
2019

Astronomy & Astrophysics (Journal)
Penttilä, A. (Reviewer)
2018

Monthly Notices of the Royal Astronomical Society (Journal)
Penttilä, A. (Reviewer)
2018

Remote Sensing (Journal)
Penttilä, A. (Reviewer)
2018

Research in astronomy and astrophysics (Journal)
Penttilä, A. (Reviewer)
2018

Laboratory Measurements of Single-Particle Polarimetric Spectrum
Penttilä, A. (Invited speaker)
11 Dec 2017

WORKSHOP ON SPECTROSCOPY, PHOTOMETRY, AND POLARIMETRY OF AIRLESS SOLAR SYSTEM OBJECTS
Muinonen, K. O. (Chair), Gritsevich, M. (Chair of organizing committee) & Penttilä, A. (Secretary of organizing committee)
14 Sept 2017 → 15 Sept 2017

FINNISH URSI CONVENTION ON RADIO SCIENCE
Muinonen, K. O. (Chair), Penttilä, A. (Chair of organizing committee) & Gritsevich, M. (Secretary of organizing committee)
8 Sept 2017 → 9 Sept 2017

Europlanet Consortium (External organisation)
Penttilä, A. (Board member)
2017 → ...

Journal of Laser Applications (Journal)
Penttilä, A. (Reviewer)
2017

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)

Penttilä, A. (Reviewer)

2017

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)

Penttilä, A. (Reviewer)

2017

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)

Penttilä, A. (Reviewer)

2017

BigSkyEarth WG2 and 4 Meeting in Finland

Gritsevich, M. (Chair of organizing committee), Penttilä, A. I. (Member of organizing committee), Peltoniemi, J. I. (Member of organizing committee), Zubko, N. (Member of organizing committee), Koskinen, J. (Member of organizing committee) & Muinonen, K. (Member of organizing committee)

10 Oct 2016 → 11 Oct 2016

Planetary and Space Science (Journal)

Penttilä, A. (Reviewer)

2015

Laser-light and Interactions with Particles

Penttilä, A. (Poster Presentation)

25 Aug 2014 → 29 Aug 2014

Asteroids, Comets, Meteors

Penttilä, A. (Chair of organizing committee)

30 Jun 2014 → 4 Jul 2014

Conference on Electromagnetic and Light Scattering

Penttilä, A. (Attendee)

17 May 2013 → 21 May 2013

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)

Penttilä, A. (Reviewer)

2012

Journal of Laser Applications (Journal)

Penttilä, A. (Reviewer)

2011

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)

Penttilä, A. (Reviewer)

2011

Brazilian Journal of Chemical Engineering (Journal)

Penttilä, A. (Reviewer)

2010

Conference on Electromagnetic and Light Scattering

Penttilä, A. (Chair of organizing committee)

2010

Conference on Electromagnetic and Light Scattering XII

Penttilä, A. (Attendee)
2010

International Conference on Electromagnetic and Light Scattering (Journal)

Penttilä, A. (Editor)
2010

International Conference on Electromagnetic and Light Scattering (Journal)

Penttilä, A. (Editor)
2010

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)

Penttilä, A. (Reviewer)
2010

Unknown

Penttilä, A. (Visiting lecturer)
1 Dec 2008 → 6 Dec 2008

Conference on Electromagnetic and Light Scattering by Nonspherical Particles

Penttilä, A. (Poster Presentation)
17 Jun 2007

DDA-workshop

Penttilä, A. (Speaker: Presenter)
23 Mar 2007

International Space Science Institute (External organisation)

Penttilä, A. (Expert member)
2007 → 2008

Journal of Quantitative Spectroscopy & Radiative Transfer (Journal)

Penttilä, A. (Reviewer)
2007

Conference on Electromagnetic and Light Scattering by Nonspherical Particles

Penttilä, A. (Speaker: Presenter)
5 Jun 2006 → 10 Jun 2006

Conference on Electromagnetic and Light Scattering by Nonspherical Particles

Penttilä, A. (Poster Presentation)
5 Jun 2006 → 10 Jun 2006

Finnish-Estonian vegetation remote sensing seminar

Penttilä, A. (Speaker: Presenter)
18 Apr 2006

International Conference on Electromagnetic and Light Scattering (Journal)

Penttilä, A. (Reviewer)
2006

Conference on Electromagnetic and Light Scattering by Nonspherical Particles

Penttilä, A. (Speaker: Presenter)
15 May 2005 → 23 May 2005

TEKES C-Coat seminar

Penttilä, A. (Poster Presentation)
16 Feb 2005

International Conference on Electromagnetic and Light Scattering (Journal)

Penttilä, A. (Reviewer)
2005

Conference on Electromagnetic and Light Scattering by Nonspherical Particles

Penttilä, A. (Speaker: Presenter)
6 Sept 2003 → 14 Sept 2003

Tartu Conference on Multivariate Statistics-konferenssi

Penttilä, A. (Attendee)
8 Aug 2003 → 12 Aug 2003

Suomen avaruustutkijoiden COSPAR kokous

Penttilä, A. (Poster Presentation)
30 Oct 2002

Unknown

Penttilä, A. (Visiting lecturer)
1 Aug 2002 → 31 Aug 2002

Prizes**JQSRT Peter C. Waterman Award: Scattering & Remote Sensing**

Penttilä, A. (Recipient), 2012

Lancelot M. Berkeley – New York Community Trust Prize for Meritorious Work in Astronomy

Muinonen, K. (Recipient), Granvik, M. (Recipient), Penttilä, A. (Recipient), Fedorets, G. (Recipient), Siltala, L. (Recipient) & Collaboration, G. (Recipient), 12 Jan 2023

Press/Media**Coating the synergy, yield and sequel**

Penttilä, A.
01/03/2006
1 Media contribution

NASAn luotain iskeytyi voimalla kaukaiseen asteroidiin – miksi koe tehtiin?

Penttilä, A. & Kohout, T.
11/10/2022
1 Media contribution

Painopaperin kirkkaus kiinnostaa tähtitieteilijöitä

Penttilä, A.
01/06/2007
1 Media contribution