

Janna M Dlugach

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1737442/publications.pdf>

Version: 2024-02-01

45
papers

1,462
citations

430874

18
h-index

315739

38
g-index

45
all docs

45
docs citations

45
times ranked

1113
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Applying orbital multi-angle photopolarimetric observations to study properties of aerosols in the Earth's atmosphere: Implications of measurements in the 1.378 Åµm spectral channel to retrieve microphysical characteristics and composition of stratospheric aerosols. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 261, 107483. | 2.3 | 2 |
| 2 | Multiple scattering of polarized light by particles in an absorbing medium. <i>Applied Optics</i> , 2019, 58, 4871. | 1.8 | 8 |
| 3 | Retrieval of volcanic and man-made stratospheric aerosols from orbital polarimetric measurements. <i>Optics Express</i> , 2019, 27, A158. | 3.4 | 3 |
| 4 | Plasmon resonances of metal nanoparticles in an absorbing medium. <i>OSA Continuum</i> , 2019, 2, 3415. | 1.8 | 12 |
| 5 | Scattering and extinction by spherical particles immersed in an absorbing host medium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 211, 179-187. | 2.3 | 24 |
| 6 | Retrieval of microphysical characteristics of particles in atmospheres of distant comets from ground-based polarimetry. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 205, 80-90. | 2.3 | 18 |
| 7 | Far-field Lorenzâ€™Mie scattering in an absorbing host medium. II: Improved stability of the numerical algorithm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 217, 274-277. | 2.3 | 16 |
| 8 | Electromagnetic scattering by spheroidal volumes of discrete random medium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 200, 244-248. | 2.3 | 1 |
| 9 | Linear depolarization of lidar returns by aged smoke particles. <i>Applied Optics</i> , 2016, 55, 9968. | 2.1 | 42 |
| 10 | Demonstration of numerical equivalence of ensemble and spectral averaging in electromagnetic scattering by random particulate media. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 618. | 1.5 | 5 |
| 11 | Noctilucent cloud polarimetry: Twilight measurements in a wide range of scattering angles. <i>Planetary and Space Science</i> , 2016, 125, 105-113. | 1.7 | 14 |
| 12 | Scattering of Gaussian beams by disordered particulate media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 183, 85-89. | 2.3 | 6 |
| 13 | Numerical simulations of electromagnetic scattering by Solar system objects. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 183, 38-55. | 2.3 | 2 |
| 14 | First-principles modeling of electromagnetic scattering by discrete and discretely heterogeneous random media. <i>Physics Reports</i> , 2016, 632, 1-75. | 25.6 | 104 |
| 15 | Applicability of the effective-medium approximation to heterogeneous aerosol particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 178, 284-294. | 2.3 | 45 |
| 16 | Electromagnetic scattering by fully ordered and quasi-random rigid particulate samples. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 2144. | 1.5 | 4 |
| 17 | CCD polarimetry of distant comets C/2010 S1 (LINEAR) and C/2010 R1 (LINEAR) at the 6-m telescope of the SAO RAS. <i>Planetary and Space Science</i> , 2015, 118, 199-210. | 1.7 | 16 |
| 18 | Scattering properties of heterogeneous mineral particles with absorbing inclusions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 162, 89-94. | 2.3 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Polarized bidirectional reflectance of optically thick sparse particulate layers: An efficient numerically exact radiative-transfer solution. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 156, 97-108. | 2.3 | 25 |
| 20 | Effects of nonsphericity on the behavior of Lorenzâ€“Mie resonances in scattering characteristics of liquid-cloud droplets. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 227-234. | 2.3 | 9 |
| 21 | Direct demonstration of the concept of unrestricted effective-medium approximation. <i>Optics Letters</i> , 2014, 39, 3935. | 3.3 | 32 |
| 22 | COHERENT BACKSCATTERING VERIFIED NUMERICALLY FOR A FINITE VOLUME OF SPHERICAL PARTICLES. <i>Astrophysical Journal</i> , 2012, 760, 118. | 4.5 | 81 |
| 23 | Adhesion of mineral and soot aerosols can strongly affect their scattering and absorption properties. <i>Optics Letters</i> , 2012, 37, 704. | 3.3 | 23 |
| 24 | Scattering and absorption properties of polydisperse wavelength-sized particles covered with much smaller grains. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2351-2355. | 2.3 | 17 |
| 25 | Light scattering by wavelength-sized particles â€œdustedâ€•with subwavelength-sized grains. <i>Optics Letters</i> , 2011, 36, 337. | 3.3 | 16 |
| 26 | Coherent backscattering by polydisperse discrete random media: exact T-matrix results. <i>Optics Letters</i> , 2011, 36, 4350. | 3.3 | 6 |
| 27 | Numerically exact computer simulations of light scattering by densely packed, random particulate media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2068-2078. | 2.3 | 59 |
| 28 | Electromagnetic scattering by a morphologically complex object: Fundamental concepts and common misconceptions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 671-692. | 2.3 | 71 |
| 29 | Numerical simulations of single and multiple scattering by fractal ice clusters. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1864-1870. | 2.3 | 12 |
| 30 | DIRECT SOLUTIONS OF THE MAXWELL EQUATIONS EXPLAIN OPPOSITION PHENOMENA OBSERVED FOR HIGH-ALBEDO SOLAR SYSTEM OBJECTS. <i>Astrophysical Journal</i> , 2009, 705, L118-L122. | 4.5 | 77 |
| 31 | Radar polarimetry of Saturn's rings: Modeling ring particles as fractal aggregates built of small ice monomers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 1706-1712. | 2.3 | 9 |
| 32 | Azimuthal asymmetry of the coherent backscattering cone: Theoretical results. <i>Physical Review A</i> , 2009, 80, . | 2.5 | 30 |
| 33 | Photopolarimetry of planetary atmospheres: what observational data are essential for a unique retrieval of aerosol microphysics?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 384, 64-70. | 4.4 | 22 |
| 34 | Weak localization of electromagnetic waves and radar polarimetry of Saturn's rings. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 389, 1665-1674. | 4.4 | 8 |
| 35 | Accuracy of the scalar approximation in computations of diffuse and coherent backscattering by discrete random media. <i>Physical Review A</i> , 2008, 78, . | 2.5 | 9 |
| 36 | Diffuse and coherent backscattering of polarized light: Polarization ratios for a discrete random medium composed of nonspherical particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 106, 21-32. | 2.3 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Enhanced backscattering of polarized light: Effect of particle nonsphericity on the helicity-preserving enhancement factor. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 100, 115-121. | 2.3 | 5 |
| 38 | The effect of aerosol shape in retrieving optical properties of cloud particles in the planetary atmospheres from the photopolarimetric data. <i>Jupiter. Solar System Research</i> , 2005, 39, 102-111. | 0.7 | 20 |
| 39 | The effect of particle shape on microphysical properties of Jovian aerosols retrieved from ground-based spectropolarimetric observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 88, 37-46. | 2.3 | 5 |
| 40 | Title is missing!. <i>Solar System Research</i> , 2003, 37, 1-19. | 0.7 | 23 |
| 41 | Bidirectional reflectance of flat, optically thick particulate layers: an efficient radiative transfer solution and applications to snow and soil surfaces. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1999, 63, 409-432. | 2.3 | 327 |
| 42 | Coherent backscatter and the opposition effect for E-type asteroids. <i>Planetary and Space Science</i> , 1993, 41, 173-181. | 1.7 | 78 |
| 43 | Can weak localization of photons explain the opposition effect of Saturn's rings?. <i>Monthly Notices of the Royal Astronomical Society</i> , 1992, 254, 15P-18P. | 4.4 | 52 |
| 44 | Investigations of the optical properties of Saturn's atmosphere carried out at the main astronomical observatory of the Ukrainian Academy of Sciences. <i>Icarus</i> , 1983, 54, 319-336. | 2.5 | 18 |
| 45 | The optical properties of Venus and the Jovian planets. II. Methods and results of calculations of the intensity of radiation diffusely reflected from semi-infinite homogeneous atmospheres. <i>Icarus</i> , 1974, 22, 66-81. | 2.5 | 83 |