

Evelyn Hesse

List of Publications by Year in descending order

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37
papers

960
citations

516710

16
h-index

454955

30
g-index

37
all docs

37
docs citations

37
times ranked

893
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ observations of volcanic ash clouds from the FAAM aircraft during the eruption of Eyjafjallajökull in 2010. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	135
2	Light scattering by complex ice-analogue crystals. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 100, 382-392.	2.3	97
3	Incidence of rough and irregular atmospheric ice particles from Small Ice Detector 3 measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1649-1662.	4.9	79
4	Investigation by Surface-Enhanced Raman Spectroscopy of the Effect of Oxygen and Hydrogen Plasmas on Adsorbate-Covered Gold and Silver Island Films. <i>Langmuir</i> , 1999, 15, 3545-3550.	3.5	71
5	Polarized optical scattering signatures from biological materials. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 2444-2459.	2.3	63
6	Classifying atmospheric ice crystals by spatial light scattering. <i>Optics Letters</i> , 2008, 33, 1545.	3.3	58
7	Short-wave and long-wave radiative properties of Saharan dust aerosol. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 1149-1167.	2.7	52
8	Scattering of light from atmospheric ice analogues. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 79-80, 1091-1102.	2.3	43
9	Development of a cobalt liquid alloy ion source. <i>Journal Physics D: Applied Physics</i> , 1994, 27, 427-428.	2.8	30
10	First correlated measurements of the shape and light scattering properties of cloud particles using the new Particle Habit Imaging and Polar Scattering (PHIPS) probe. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 2125-2142.	3.1	27
11	Cloud chamber laboratory investigations into scattering properties of hollow ice particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 157, 106-118.	2.3	25
12	Writing implantation with a high current density focused ion beam. <i>Microelectronic Engineering</i> , 1994, 23, 115-118.	2.4	23
13	Modelling diffraction during ray tracing using the concept of energy flow lines. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 1374-1383.	2.3	22
14	Focused ion beam system with high current density. <i>Microelectronic Engineering</i> , 1991, 13, 367-370.	2.4	21
15	A 3D implementation of ray tracing combined with diffraction on facets: Verification and a potential application. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 100, 103-114.	2.3	20
16	Ice crystal habits from cloud chamber studies obtained by in-line holographic microscopy related to depolarization measurements. <i>Applied Optics</i> , 2009, 48, 5811.	2.1	20
17	Cobalt disilicide interconnects for micromechanical devices. <i>Journal of Micromechanics and Microengineering</i> , 1996, 6, 272-278.	2.6	17
18	Effects of surface roughness with two scales on light scattering by hexagonal ice crystals large compared to the wavelength: DDA results. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 182, 225-239.	2.3	17

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19	Modelling diffraction by faceted particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 342-347.	2.3	15
20	Scattering from long prisms computed using ray tracing combined with diffraction on facets. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 79-80, 721-732.	2.3	14
21	High current FIB system for micromechanics application. <i>Microelectronic Engineering</i> , 1993, 21, 197-200.	2.4	13
22	Parametric investigation of current pulses in a liquid metal ion emitter. <i>Journal Physics D: Applied Physics</i> , 1996, 29, 2193-2197.	2.8	13
23	Interconnection lines following the surface topography fabricated by writing focused ion beam implantation. <i>Microelectronic Engineering</i> , 1995, 27, 351-354.	2.4	12
24	High-sensitivity Stokes spectropolarimetry on cyanobacteria. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 170, 131-141.	2.3	9
25	The applicability of physical optics in the millimetre and sub-millimetre spectral region. Part II: Application to a three-component model of ice cloud and its evaluation against the bulk single-scattering properties of various other aggregate models. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 206, 83-100.	2.3	9
26	Stability characteristics of cylindrical fibres in an electrodynamic balance designed for single particle investigation. <i>Journal of Aerosol Science</i> , 2002, 33, 149-163.	3.8	8
27	The applicability of physical optics in the millimetre and sub-millimetre spectral region. Part I: The ray tracing with diffraction on facets method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 190, 13-25.	2.3	8
28	Measurement of the charge of airborne spherical dielectric particles charged in an AC unipolar charger. <i>Journal of Aerosol Science</i> , 2005, 36, 1194-1209.	3.8	6
29	Narrow angle emission from a lithium liquid metal ion source. <i>Journal Physics D: Applied Physics</i> , 1993, 26, 717-718.	2.8	5
30	Modelling light scattering by absorbing smooth and slightly rough faceted particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 157, 71-80.	2.3	5
31	Discussion of a physical optics method and its application to absorbing smooth and slightly rough hexagonal prisms. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 218, 54-67.	2.3	5
32	A lithium liquid metal ion source with a narrow angle emission for writing beam lithography. <i>Microelectronic Engineering</i> , 1994, 23, 111-114.	2.4	4
33	Angular distribution and energy spread of a lithium liquid metal ion source. <i>Journal Physics D: Applied Physics</i> , 1995, 28, 1707-1709.	2.8	4
34	Cluster beams from a Co-Nd liquid alloy ion source. <i>Microelectronic Engineering</i> , 1996, 30, 245-248.	2.4	3
35	Using laboratory and field measurements to constrain a single habit shortwave optical parameterization for cirrus. <i>Atmospheric Research</i> , 2016, 180, 226-240.	4.1	3
36	Applying machine learning methods for characterization of hexagonal prisms from their 2D scattering patterns – an investigation using modelled scattering data. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 201, 115-127.	2.3	3

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37	Using Machine Learning Techniques to Recover Prismatic Cirrus Ice Crystal Size from 2-Dimensional Light Scattering Patterns. Lecture Notes in Computer Science, 2016, , 372-379.	1.3	1