

Henrik Svensmark

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,614
citations

257357

24
h-index

223716

46
g-index

60
all docs

60
docs citations

60
times ranked

1667
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Variation of cosmic ray flux and global cloud coverage—a missing link in solar-climate relationships. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1997, 59, 1225-1232. | 0.6 | 919 |
| 2 | Low Cloud Properties Influenced by Cosmic Rays. <i>Physical Review Letters</i> , 2000, 85, 5004-5007. | 2.9 | 387 |
| 3 | Influence of Cosmic Rays on Earth's Climate. <i>Physical Review Letters</i> , 1998, 81, 5027-5030. | 2.9 | 295 |
| 4 | Cosmic Rays, Clouds, and Climate. <i>Space Science Reviews</i> , 2000, 94, 215-230. | 3.7 | 180 |
| 5 | Cosmoclimate: a new theory emerges. <i>Astronomy and Geophysics</i> , 2007, 48, 1.18-1.24. | 0.1 | 176 |
| 6 | Cosmic ray decreases affect atmospheric aerosols and clouds. <i>Geophysical Research Letters</i> , 2009, 36, . | 1.5 | 172 |
| 7 | Experimental evidence for the role of ions in particle nucleation under atmospheric conditions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007, 463, 385-396. | 1.0 | 140 |
| 8 | Contrasting atmospheric and climate dynamics of the last-glacial and Holocene periods. <i>Nature</i> , 1996, 379, 810-812. | 13.7 | 137 |
| 9 | The role of atmospheric ions in aerosol nucleation — a review. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4911-4923. | 1.9 | 97 |
| 10 | Results from the CERN pilot CLOUD experiment. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1635-1647. | 1.9 | 96 |
| 11 | Increased ionization supports growth of aerosols into cloud condensation nuclei. <i>Nature Communications</i> , 2017, 8, 2199. | 5.8 | 77 |
| 12 | Cosmic Rays and Earth's Climate. <i>Space Science Reviews</i> , 2000, 93, 175-185. | 3.7 | 73 |
| 13 | Galactic cosmic ray and El Niño/Southern Oscillation trends in International Satellite Cloud Climatology Project D2 low-level cloud properties. <i>Journal of Geophysical Research</i> , 2003, 108, . | 3.3 | 72 |
| 14 | Solar Influence on Earth's Climate. <i>Space Science Reviews</i> , 2003, 107, 317-325. | 3.7 | 64 |
| 15 | Cosmic rays and the biosphere over 4 billion years. <i>Astronomische Nachrichten</i> , 2006, 327, 871-875. | 0.6 | 59 |
| 16 | Imprint of Galactic dynamics on Earth's climate. <i>Astronomische Nachrichten</i> , 2006, 327, 866-870. | 0.6 | 56 |
| 17 | Aerosol nucleation induced by a high energy particle beam. <i>Geophysical Research Letters</i> , 2011, 38, . | 1.5 | 56 |
| 18 | Response of cloud condensation nuclei (T_j ETQq0 0 0 rgBT /Overlock 10 Tf 50 77 Td (xmlns:mml="http://www.w3.org/1998 and Solid State Physics, 2013, 377, 2343-2347. | 0.9 | 55 |

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Evidence of nearby supernovae affecting life on Earth. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1234-1253. | 1.6 | 52 |
| 20 | The response of clouds and aerosols to cosmic ray decreases. Journal of Geophysical Research: Space Physics, 2016, 121, 8152-8181. | 0.8 | 52 |
| 21 | Ab initio studies of O ₂ and O ₃ anionic molecular clusters. Atmospheric Chemistry and Physics, 2011, 11, 7133-7142. | 1.9 | 43 |
| 22 | What do we really know about the Sun-climate connection?. Advances in Space Research, 1997, 20, 913-921. | 1.2 | 41 |
| 23 | Comment on "Solar influences on cosmic rays and cloud formation: A reassessment" by Bomin Sun and Raymond S. Bradley. Journal of Geophysical Research, 2004, 109, . | 3.3 | 33 |
| 24 | Forecast of atmospheric boundary-layer height utilised for ETEX real-time dispersion modelling. Physics and Chemistry of the Earth, 1996, 21, 435-439. | 0.3 | 32 |
| 25 | Evidence for the Role of Ions in Aerosol Nucleation. Journal of Physical Chemistry A, 2008, 112, 10305-10309. | 1.1 | 24 |
| 26 | Structures and reaction rates of the gaseous oxidation of SO ₂ by an O ₃ cluster " a density functional theory investigation. Atmospheric Chemistry and Physics, 2012, 12, 3639-3652. | 1.9 | 24 |
| 27 | Cosmic Rays and Earth's Climate. Space Sciences Series of ISSI, 2000, , 175-185. | 0.0 | 23 |
| 28 | Cosmic Rays, Clouds, and Climate. Space Sciences Series of ISSI, 2000, , 215-230. | 0.0 | 16 |
| 29 | Model of optical response of marine aerosols to Forbush decreases. Atmospheric Chemistry and Physics, 2010, 10, 2765-2776. | 1.9 | 15 |
| 30 | An isotopic analysis of ionising radiation as a source of sulphuric acid. Atmospheric Chemistry and Physics, 2012, 12, 5319-5327. | 1.9 | 14 |
| 31 | Reply to comments on "Variation of cosmic ray flux and global cloud coverage" a missing link in solar-climate relationships. Journal of Atmospheric and Solar-Terrestrial Physics, 2000, 62, 79-80. | 0.6 | 12 |
| 32 | Experimental study of H ₂ SO ₄ aerosol nucleation at high ionization levels. Atmospheric Chemistry and Physics, 2018, 18, 5921-5930. | 1.9 | 11 |
| 33 | Atmospheric ionization and cloud radiative forcing. Scientific Reports, 2021, 11, 19668. | 1.6 | 11 |
| 34 | Cosmic rays, clouds and climate. Europhysics News, 2015, 46, 26-29. | 0.1 | 8 |
| 35 | Solar Influence on Earth's Climate. , 2003, , 317-325. | | 7 |
| 36 | Supernova Rates and Burial of Organic Matter. Geophysical Research Letters, 2022, 49, . | 1.5 | 7 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | A 3D particle Monte Carlo approach to studying nucleation. <i>Journal of Computational Physics</i> , 2018, 363, 30-38. | 1.9 | 6 |
| 38 | Aerosol nucleation in an ultra-low ion density environment. <i>Journal of Aerosol Science</i> , 2012, 50, 75-85. | 1.8 | 5 |
| 39 | The IONâ€CAGE Code: A Numerical Model for the Growth of Charged and Neutral Aerosols. <i>Earth and Space Science</i> , 2020, 7, e2020EA001142. | 1.1 | 5 |
| 40 | The solar and Southern Oscillation components in the satellite altimetry data. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3297-3306. | 0.8 | 3 |
| 41 | Effects of Forbush decreases on clouds determined from PATMOS-x. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2022, 230, 105845. | 0.6 | 3 |
| 42 | Oneâ€third (period three) harmonic generation in microwaveâ€driven Josephson tunnel junctions. <i>Applied Physics Letters</i> , 1986, 49, 1744-1746. | 1.5 | 2 |
| 43 | Period three generation on microwave-induced constant-voltage steps of Josephson tunnel junctions. <i>IEEE Transactions on Magnetics</i> , 1987, 23, 1061-1063. | 1.2 | 2 |
| 44 | Correlations in sea-level elevations. <i>Physical Review E</i> , 1997, 56, 2605-2614. | 0.8 | 2 |
| 45 | Stochastic effects in $H_{2}SO_{4}$ - $H_{2}O$ cluster growth. <i>Aerosol Science and Technology</i> , 2020, 54, 1007-1018. | 1.5 | 2 |
| 46 | Approximate analytical solutions to the condensation-coagulation equation of aerosols. <i>Aerosol Science and Technology</i> , 2016, 50, 578-590. | 1.5 | 1 |
| 47 | Diffuse sunlight and cosmic rays: Missing pieces of the forest growth change attribution puzzle?. <i>Science of the Total Environment</i> , 2022, 806, 150469. | 3.9 | 1 |
| 48 | Measurements of the high frequency loss near the plasma resonance in Josephson tunnel junctions. <i>IEEE Transactions on Magnetics</i> , 1987, 23, 1118-1121. | 1.2 | 0 |
| 49 | Dynamic stabilization of a microwave-driven Josephson tunnel junction against a period-doubling bifurcation. <i>IEEE Transactions on Magnetics</i> , 1989, 25, 1408-1411. | 1.2 | 0 |
| 50 | Possible Mechanisms of Solar Activity Modulation of Earth Climate. <i>Energy and Environment</i> , 1998, 9, 721-725. | 2.7 | 0 |
| 51 | Sulphuric acid aerosols in low oxygen environments. <i>Journal of Aerosol Science</i> , 2022, 162, 105956. | 1.8 | 0 |