

# Erdal YiÄit

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

2,535  
citations

218381

26  
h-index

197535

49  
g-index

92  
all docs

92  
docs citations

92  
times ranked

1480  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Martian Dust Storms and Gravity Waves: Disentangling Water Transport to the Upper Atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .  | 1.5 | 10        |
| 2  | Editorial: Coupling Processes in Terrestrial and Planetary Atmospheres. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .   | 1.1 | 0         |
| 3  | A Brief Overview of Gravity Wave Retrieval Techniques From Observations. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .  | 1.1 | 2         |
| 4  | Comparative Study of Equatorial and High-Latitude Over-The-Horizon Radar Parameters Using Ray-Tracing Simulations. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021, 18, 53-57.   | 1.4 | 2         |
| 5  | Effects of Latitude-Dependent Gravity Wave Source Variations on the Middle and Upper Atmosphere. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 7, .  | 1.1 | 14        |
| 6  | Dust Stormâ€Enhanced Gravity Wave Activity in the Martian Thermosphere Observed by MAVEN and Implication for Atmospheric Escape. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092095.   | 1.5 | 33        |
| 7  | Role Of the Sun and the Middle atmosphere/thermosphere/ionosphere In Climate (ROSMIC): a retrospective and prospective view. <i>Progress in Earth and Planetary Science</i> , 2021, 8, .  | 1.1 | 13        |
| 8  | Gravity Wave Activity in the Martian Atmosphere at Altitudes 20â€160Åkm From ACS/TGO Occultation Measurements. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006899.  | 1.5 | 22        |
| 9  | Variations of the Martian Thermospheric Gravity-wave Activity during the Recent Solar Minimum as Observed by MAVEN. <i>Astrophysical Journal</i> , 2021, 920, 69.   | 1.6 | 8         |
| 10 | Martian water escape and internal waves. <i>Science</i> , 2021, 374, 1323-1324.   | 6.0 | 7         |
| 11 | High frequency sky wave propagation during geomagnetic field reversals. <i>Studia Geophysica Et Geodaetica</i> , 2020, 64, 130-142.   | 0.3 | 3         |
| 12 | Gravity Wave Activity in the Atmosphere of Mars During the 2018 Global Dust Storm: Simulations With a Highâ€Resolution Model. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006556.   | 1.5 | 27        |
| 13 | Variability of Gravity Wave Effects on the Zonal Mean Circulation and Migrating Terdiurnal Tide as Studied With the Middle and Upper Atmosphere Model (MUAM2019) Using a Nonlinear Gravity Wave Scheme. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, . | 1.1 | 8         |
| 14 | Gravity Waves in Planetary Atmospheres: Their Effects and Parameterization in Global Circulation Models. <i>Atmosphere</i> , 2019, 10, 531.   | 1.0 | 41        |
| 15 | Ionospheric high frequency wave propagation using different IRI hmF2 and foF2 models. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 196, 105141.  | 0.6 | 10        |
| 16 | Variation of Smallâ€Scale Gravity Wave Activity in the Ionosphere During the Major Sudden Stratospheric Warming Event of 2009. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 470-488.  | 0.8 | 16        |
| 17 | Obscure waves in planetary atmospheres. <i>Physics Today</i> , 2019, 72, 40-46.   | 0.3 | 20        |
| 18 | Annual Cycle of Gravity Wave Activity Derived From a Highâ€Resolution Martian General Circulation Model. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1618-1632.  | 1.5 | 21        |

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|----|--|-----|-----------|
| 19 | Impact of gravity wave drag on the thermospheric circulation: implementation of a nonlinear gravity wave parameterization in a whole-atmosphere model. <i>Annales Geophysicae</i> , 2019, 37, 955-969.   | 0.6 | 14        |
| 20 | Density Fluctuations in the Lower Thermosphere of Mars Retrieved From the ExoMars Trace Gas Orbiter (TGO) Aerobraking. <i>Atmosphere</i> , 2019, 10, 620.  | 1.0 | 16        |
| 21 | Global circulation of Mars's upper atmosphere. <i>Science</i> , 2019, 366, 1363-1366.  | 6.0 | 20        |
| 22 | Critical frequencies of the ionospheric layers during the last four solar cycles: Sunspot group type dependencies. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 171, 131-136.   | 0.6 | 8         |
| 23 | Signature of a possible relationship between the maximum CME speed index and the critical frequencies of the F1 and F2 ionospheric layers: Data analysis for a mid-latitude ionospheric station during the solar cycles 23 and 24. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 171, 131-136. | 0.6 | 2         |
| 24 | Dynamics of the Atmosphere-Ionosphere System. <i>SpringerBriefs in Earth Sciences</i> , 2018, , 103-133.   | 0.5 | 1         |
| 25 | Ionosonde-based indices for improved representation of solar cycle variation in the International Reference Ionosphere model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 171, 137-146.  | 0.6 | 21        |
| 26 | GPS-TEC Observation of Gravity Waves Generated in the Ionosphere During 21 August 2017 Total Solar Eclipse. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 725-738.  | 0.8 | 40        |
| 27 | Atmospheric and Space Sciences: Ionospheres and Plasma Environments. <i>SpringerBriefs in Earth Sciences</i> , 2018, , .   | 0.5 | 6         |
| 28 | Planetary Ionospheres. <i>SpringerBriefs in Earth Sciences</i> , 2018, , 67-102.   | 0.5 | 2         |
| 29 | Influence of gravity waves on the climatology of high-altitude Martian carbon dioxide ice clouds. <i>Annales Geophysicae</i> , 2018, 36, 1631-1646.  | 0.6 | 22        |
| 30 | Meteorology, Dynamic (Stratosphere). , 2018, , .   |     | 0         |
| 31 | Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. <i>Icarus</i> , 2018, 315, 146-157.   | 1.1 | 216       |
| 32 | Atomic Oxygen Retrieved From the SABER 2.0- and 1.6- $\mu$ m Radiances Using New First-Principles Nighttime OH( $\nu=1$ ) Model. <i>Geophysical Research Letters</i> , 2018, 45, 5798-5803.  | 1.5 | 25        |
| 33 | Transport Processes in Plasma. <i>SpringerBriefs in Earth Sciences</i> , 2018, , 41-66.  | 0.5 | 1         |
| 34 | Introduction to Plasma. <i>SpringerBriefs in Earth Sciences</i> , 2018, , 1-19.  | 0.5 | 11        |
| 35 | Basic Electromagnetic Theory. <i>SpringerBriefs in Earth Sciences</i> , 2018, , 21-40.   | 0.5 | 0         |
| 36 | Influence of parameterized small-scale gravity waves on the migrating diurnal tide in Earth's thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4846-4864.  | 0.8 | 49        |

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|----|--|-----|-----------|
| 37 | MAVEN NGIMS observations of atmospheric gravity waves in the Martian thermosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 2310-2335.   | 0.8 | 88        |
| 38 | Earth's magnetic field effect on MUF calculation and consequences for hmF2 trend estimates. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 163, 114-119.  | 0.6 | 9         |
| 39 | Ion Friction and Quantification of the Geomagnetic Influence on Gravity Wave Propagation and Dissipation in the Thermosphere-Ionosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 12,464.                        | 0.8 | 8         |
| 40 | Global distribution and parameter dependences of gravity wave activity in the Martian upper thermosphere derived from MAVEN/NGIMS observations. Journal of Geophysical Research: Space Physics, 2017, 122, 2374-2397.              | 0.8 | 66        |
| 41 | Resolving the mesospheric nighttime 4.3- $\mu\text{m}$ emission puzzle; comparison of the CO <sub>2</sub> and OH( $\nu_2$ ) emission models. Atmospheric Chemistry and Physics, 2017, 17, 9751-9760.                               | 1.9 | 19        |
| 42 | Simultaneous observations of atmospheric tides from combined in situ and remote observations at Mars from the MAVEN spacecraft. Journal of Geophysical Research E: Planets, 2016, 121, 594-607.                                    | 1.5 | 48        |
| 43 | Global Distribution of Gravity Wave Sources and Fields in the Martian Atmosphere during Equinox and Solstice Inferred from a High-Resolution General Circulation Model. Journals of the Atmospheric Sciences, 2016, 73, 4895-4909. | 0.6 | 20        |
| 44 | Role of gravity waves in vertical coupling during sudden stratospheric warmings. Geoscience Letters, 2016, 3, .  | 1.3 | 36        |
| 45 | Comparison of the Martian thermospheric density and temperature from IUVS/MAVEN data and general circulation modeling. Geophysical Research Letters, 2016, 43, 3095-3104.  | 1.5 | 34        |
| 46 | A review of vertical coupling in the Atmosphere-Ionosphere system: Effects of waves, sudden stratospheric warmings, space weather, and of solar activity. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 141, 1-12.   | 0.6 | 131       |
| 47 | Hemispheric differences in the response of the upper atmosphere to the August 2011 geomagnetic storm: A simulation study. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 141, 13-26.                                  | 0.6 | 12        |
| 48 | Cooling of the Martian thermosphere by CO <sub>2</sub> radiation and gravity waves: An intercomparison study with two general circulation models. Journal of Geophysical Research E: Planets, 2015, 120, 913-927.                  | 1.5 | 51        |
| 49 | Gravity waves and high-altitude CO <sub>2</sub> ice cloud formation in the Martian atmosphere. Geophysical Research Letters, 2015, 42, 4294-4300.  | 1.5 | 39        |
| 50 | A global view of gravity waves in the Martian atmosphere inferred from a high-resolution general circulation model. Geophysical Research Letters, 2015, 42, 9213-9222.   | 1.5 | 24        |
| 51 | High-altitude gravity waves in the Martian thermosphere observed by MAVEN/NGIMS and modeled by a gravity wave scheme. Geophysical Research Letters, 2015, 42, 8993-9000.   | 1.5 | 79        |
| 52 | Atmospheric and Space Sciences: Neutral Atmospheres. SpringerBriefs in Earth Sciences, 2015, , .   | 0.5 | 6         |
| 53 | Earth's Atmosphere and Geospace Environment. SpringerBriefs in Earth Sciences, 2015, , 41-51.  | 0.5 | 2         |
| 54 | Internal wave coupling processes in Earth's atmosphere. Advances in Space Research, 2015, 55, 983-1003.  | 1.2 | 192       |

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|----|---|-----|-----------|
| 55 | Atmospheric Circulation and Dynamical Processes. SpringerBriefs in Earth Sciences, 2015, , 81-99.   | 0.5 | 1         |
| 56 | Waves in Terrestrial and Planetary Atmospheres. SpringerBriefs in Earth Sciences, 2015, , 53-79.  | 0.5 | 0         |
| 57 | Simulated variability of the high-latitude thermosphere induced by small-scale gravity waves during a sudden stratospheric warming. Journal of Geophysical Research: Space Physics, 2014, 119, 357-365.           | 0.8 | 44        |
| 58 | General circulation modeling of the Martian upper atmosphere during global dust storms. Journal of Geophysical Research E: Planets, 2013, 118, 2234-2246.   | 1.5 | 49        |
| 59 | General circulation modeling of the Martian upper atmosphere during global dust storms. Journal of Geophysical Research E: Planets, 2013, 118, n/a-n/a.   | 1.5 | 10        |
| 60 | Extending the Parameterization of Gravity Waves into the Thermosphere and Modeling Their Effects. Springer Atmospheric Sciences, 2013, , 467-480.   | 0.4 | 9         |
| 61 | Gravity waves in the thermosphere during a sudden stratospheric warming. Geophysical Research Letters, 2012, 39, .  | 1.5 | 52        |
| 62 | Dynamical effects of internal gravity waves in the equinoctial thermosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 90-91, 104-116.  | 0.6 | 49        |
| 63 | Thermal effects of internal gravity waves in the Martian upper atmosphere. Geophysical Research Letters, 2012, 39, .  | 1.5 | 70        |
| 64 | Importance of capturing heliospheric variability for studies of thermospheric vertical winds. Journal of Geophysical Research, 2012, 117, .   | 3.3 | 16        |
| 65 | Quiet-time low latitude ionospheric electrodynamics in the non-hydrostatic Global Ionosphere-Thermosphere Model. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 80, 161-172.                         | 0.6 | 22        |
| 66 | Role of variability in determining the vertical wind speeds and structure. Journal of Geophysical Research, 2011, 116, n/a-n/a.   | 3.3 | 11        |
| 67 | Influence of gravity waves on the Martian atmosphere: General circulation modeling. Journal of Geophysical Research, 2011, 116, .   | 3.3 | 89        |
| 68 | Estimates of gravity wave drag on Mars: Indication of a possible lower thermospheric wind reversal. Icarus, 2011, 211, 909-912.   | 1.1 | 48        |
| 69 | Effects of high-latitude thermosphere heating at various scale sizes simulated by a nonhydrostatic global thermosphere-ionosphere model. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 592-600. | 0.6 | 17        |
| 70 | Internal gravity waves in the thermosphere during low and high solar activity: Simulation study. Journal of Geophysical Research, 2010, 115, .  | 3.3 | 80        |
| 71 | Modelled effect of changes in the CO2 concentration on the middle and upper atmosphere: Sensitivity to gravity wave parameterization. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1484-1496.  | 0.6 | 8         |
| 72 | Heating and cooling of the thermosphere by internal gravity waves. Geophysical Research Letters, 2009, 36, .  | 1.5 | 98        |

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|----|---|-----|-----------|
| 73 | Modeling the effects of gravity wave momentum deposition on the general circulation above the turbopause. <i>Journal of Geophysical Research</i> , 2009, 114, .                               | 3.3 | 119       |
| 74 | Parameterization of the effects of vertically propagating gravity waves for thermosphere general circulation models: Sensitivity study. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 157       |