

# Roger K Ulrich

## List of Publications by Year in descending order

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72  
papers

4,440  
citations

117625

34  
h-index

102487

66  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1861  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Solar models, neutrino experiments, and helioseismology. <i>Reviews of Modern Physics</i> , 1988, 60, 297-372.   | 45.6 | 812       |
| 2  | Standard solar models and the uncertainties in predicted capture rates of solar neutrinos. <i>Reviews of Modern Physics</i> , 1982, 54, 767-799.   | 45.6 | 453       |
| 3  | The Five-Minute Oscillations on the Solar Surface. <i>Astrophysical Journal</i> , 1970, 162, 993.  | 4.5  | 312       |
| 4  | Rotation of Doppler features in the solar photosphere. <i>Astrophysical Journal</i> , 1990, 351, 309.  | 4.5  | 212       |
| 5  | Thermohaline Convection in Stellar Interiors.. <i>Astrophysical Journal</i> , 1972, 172, 165.  | 4.5  | 173       |
| 6  | A Multi-Observatory Inter-Comparison of Line-of-Sight Synoptic Solar Magnetograms. <i>Solar Physics</i> , 2014, 289, 769-792.  | 2.5  | 123       |
| 7  | SOLAR MERIDIONAL CIRCULATION FROM DOPPLER SHIFTS OF THE Fe I LINE AT 5250 Å... AS MEASURED BY THE 150-FOOT SOLAR TOWER TELESCOPE AT THE MT. WILSON OBSERVATORY. <i>Astrophysical Journal</i> , 2010, 725, 658-669.                           | 4.5  | 116       |
| 8  | Solar rotation measurements at Mount Wilson. <i>Solar Physics</i> , 1988, 117, 291-328.  | 2.5  | 114       |
| 9  | Looking for Gravityâ€™Mode Multiplets with the GOLF Experiment aboardSOHO. <i>Astrophysical Journal</i> , 2004, 604, 455-468.  | 4.5  | 98        |
| 10 | The solar magnetic activity band interaction and instabilities that shape quasi-periodic variability. <i>Nature Communications</i> , 2015, 6, 6491.  | 12.8 | 97        |
| 11 | Mount Wilson Synoptic Magnetic Fields: Improved Instrumentation, Calibration, and Analysis Applied to the 2000 July 14 Flare and to the Evolution of the Dipole Field. <i>Astrophysical Journal, Supplement Series</i> , 2002, 139, 259-279. | 7.7  | 83        |
| 12 | Solar Neutrinos. III. Composition and Magnetic-Field Effects and Related Inferences. <i>Astrophysical Journal</i> , 1971, 170, 593.  | 4.5  | 76        |
| 13 | New Solar-Neutrino Flux Calculations and Implications Regarding Neutrino Oscillations. <i>Physical Review Letters</i> , 1980, 45, 945-948.   | 7.8  | 74        |
| 14 | Sensitivity of the Solar-Neutrino Fluxes. <i>Astrophysical Journal</i> , 1969, 156, 559.   | 4.5  | 73        |
| 15 | Solar-cycle dependence of the Sun's apparent radius in the neutral iron spectral line at 525 nm. <i>Nature</i> , 1995, 377, 214-215.   | 27.8 | 71        |
| 16 | The Solar Surface Toroidal Magnetic Field. <i>Astrophysical Journal</i> , 2005, 620, L123-L127.  | 4.5  | 71        |
| 17 | A Century of Solar Ca ii Measurements and Their Implication for Solar UV Driving of Climate. <i>Solar Physics</i> , 2009, 255, 229-238.  | 2.5  | 70        |
| 18 | Very Long Lived Wave Patterns Detected in the Solar Surface Velocity Signal. <i>Astrophysical Journal</i> , 2001, 560, 466-475.  | 4.5  | 69        |

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|----|---|-----|-----------|
| 19 | Performance and Early Results from the Golf Instrument Flown on the Soho Mission. Solar Physics, 1997, 175, 207-226.                                  | 2.5 | 65        |
| 20 | LONG-TERM MEASUREMENTS OF SUNSPOT MAGNETIC TILT ANGLES. Astrophysical Journal, 2012, 758, 115.  | 4.5 | 64        |
| 21 | Low-Degree Low-Order Solar p Modes As Seen By GOLF On board SOHO. Solar Physics, 2001, 200, 361-379.  | 2.5 | 60        |
| 22 | The Mount Wilson Ca II H&K Plage Index Time Series. Solar Physics, 2010, 264, 31-44.  | 2.5 | 55        |
| 23 | Depth and latitude dependence of the solar internal angular velocity. Astrophysical Journal, 1990, 351, 687.  | 4.5 | 54        |
| 24 | Long-Term Variations in Solar Differential Rotation and Sunspot Activity. Solar Physics, 2005, 232, 25-40.  | 2.5 | 50        |
| 25 | First Results on its p Modes from GOLF Experiment. Solar Physics, 1997, 175, 227-246.   | 2.5 | 48        |
| 26 | Identification of Solar Acoustic Modes of Low Angular Degree and Low Radial Order. Astrophysical Journal, 2000, 537, L143-L146.                       | 4.5 | 45        |
| 27 | Solar Neutrinos.IV. Effect of Radiative Opacities on Calculated Neutrino Fluxes. Astrophysical Journal, 1973, 184, 1.                                 | 4.5 | 44        |
| 28 | Impact of changes in the Sun's conveyorâ€belt on recent solar cycles. Geophysical Research Letters, 2010, 37, .                                      | 4.0 | 40        |
| 29 | Magnetic Fields from SOHO MDI Converted to the Mount Wilson 150 Foot Solar Tower Scale. Astrophysical Journal, Supplement Series, 2005, 156, 295-310. | 7.7 | 39        |
| 30 | Interpretation of Solar Magnetic Field Strength Observations. Solar Physics, 2009, 255, 53-78.  | 2.5 | 39        |
| 31 | A co-ordinated and synergistic analysis strategy for future ground-based and space helioseismology. Advances in Space Research, 1991, 11, 217-228.    | 2.6 | 37        |
| 32 | Solar-Cycle-Related Variations in the Solar Differential Rotation and Meridional Flow: A Comparison. Solar Physics, 2006, 237, 245-265.               | 2.5 | 37        |
| 33 | On the correlation of solar surface magnetic flux with solar neutrino capture rate. Astrophysical Journal, 1994, 437, L63.                            | 4.5 | 36        |
| 34 | Search for Short-Term Periodicities in the Sun's Surface Rotation: A Revisit. Solar Physics, 2009, 257, 61-69.  | 2.5 | 34        |
| 35 | Seismic analysis of the solar interior. I - Can opacity changes improve the theoretical frequencies?. Astrophysical Journal, 1989, 339, 1144.         | 4.5 | 34        |
| 36 | Solar Models with Low Neutrino Fluxes. Astrophysical Journal, 1974, 188, 369.   | 4.5 | 33        |

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|----|---|-----|-----------|
| 37 | An Interpretation of the Differences in the Solar Differential Rotation during Even and Odd Sunspot Cycles. <i>Astrophysical Journal</i> , 2005, 626, 579-584.                                      | 4.5 | 32        |
| 38 | Comparison of Frequencies and Rotational Splittings of Solar Acoustic Modes of Low Angular Degree from Simultaneous MDI and GOLF Observations. <i>Astrophysical Journal</i> , 2000, 535, 1066-1077. | 4.5 | 31        |
| 39 | Convective energy transport in stellar atmospheres. <i>Astrophysics and Space Science</i> , 1970, 7, 183-200.   | 1.4 | 30        |
| 40 | Carrington Coordinates and Solar Maps. <i>Solar Physics</i> , 2006, 235, 17-29.   | 2.5 | 29        |
| 41 | PHYSICAL ORIGIN OF DIFFERENCES AMONG VARIOUS MEASURES OF SOLAR MERIDIONAL CIRCULATION. <i>Astrophysical Journal</i> , 2010, 722, 774-778.   | 4.5 | 27        |
| 42 | OBSERVING EVOLUTION IN THE SUPERGRANULAR NETWORK LENGTH SCALE DURING PERIODS OF LOW SOLAR ACTIVITY. <i>Astrophysical Journal Letters</i> , 2011, 730, L3.   | 8.3 | 26        |
| 43 | Confirmation of solar cycle-dependent intermediate-degree p-mode frequency shifts. <i>Astrophysical Journal</i> , 1993, 406, 714.   | 4.5 | 24        |
| 44 | Solar Radius Measurements at Mount Wilson Observatory. <i>Astrophysical Journal</i> , 2006, 649, 444-451.   | 4.5 | 22        |
| 45 | Searching for Signal in Noise by Random Lag Singular Spectrum Analysis. <i>Astrophysical Journal</i> , 1999, 526, 1052-1061.  | 4.5 | 21        |
| 46 | A Nonlocal Mixing-Length Theory of Convection for Use in Numerical Calculations. <i>Astrophysical Journal</i> , 1976, 207, 564.   | 4.5 | 20        |
| 47 | 70 Years of Chromospheric Solar Activity and Dynamics. <i>Astrophysical Journal</i> , 2020, 897, 181.   | 4.5 | 20        |
| 48 | Helioseismology. <i>Scientific American</i> , 1985, 253, 48-57.   | 1.0 | 19        |
| 49 | A system for line profile studies at the 150-foot tower on Mount Wilson. <i>Solar Physics</i> , 1991, 135, 211-241.   | 2.5 | 18        |
| 50 | Solar Rotation Measurements at Mount Wilson over the Period 1990–1995. <i>Astrophysical Journal</i> , 1996, 465, L65-L68.   | 4.5 | 18        |
| 51 | Evolution of Stars Containing $^3\text{He}$ . <i>Astrophysical Journal</i> , 1971, 168, 57.   | 4.5 | 18        |
| 52 | On the constancy of intermediate-degree p-mode frequencies during the declining phase of solar cycle 21. <i>Astrophysical Journal</i> , 1988, 326, 479.   | 4.5 | 18        |
| 53 | Solar-Neutrino Fluxes with Recent Corrections to Opacity. <i>Astrophysical Journal</i> , 1970, 160, L57.  | 4.5 | 17        |
| 54 | A Model for the Chemical Evolution of S and N Star Envelopes. <i>Astrophysical Journal</i> , 1972, 176, L37.  | 4.5 | 17        |

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|----|---|-----|-----------|
| 55 | Reconstructing solar magnetic fields from historical observations. <i>Astronomy and Astrophysics</i> , 2019, 628, A103.   | 5.1 | 15        |
| 56 | The 1984 Solar Oscillation Program of the Mt. Wilson 60-Foot Tower. , 1986, , 309-332.  |     | 14        |
| 57 | The Effect of Composition Changes on Evolutionary Tracks of Double-Shell Models. <i>Astrophysical Journal</i> , 1975, 200, 682.   | 4.5 | 14        |
| 58 | Convective energy transport in stellar atmospheres. <i>Astrophysics and Space Science</i> , 1970, 9, 80-96.   | 1.4 | 11        |
| 59 | A Rapidly Rotating Core and Solar Neutrinos. <i>Astrophysical Journal</i> , 1969, 158, 427.   | 4.5 | 10        |
| 60 | Acoustic wave propagation in the solar atmosphere 1. Rediscussion of the linearized theory including nonstationary solutions. <i>Astrophysical Journal</i> , 1995, 444, 879.              | 4.5 | 10        |
| 61 | Studies in Stellar Evolution. I. Hydrostatic Adjustment. <i>Astrophysical Journal</i> , 1972, 173, 109.   | 4.5 | 9         |
| 62 | A new system for observing solar oscillations at the Mount Wilson Observatory. <i>Solar Physics</i> , 1983, 82, 245-258.  | 2.5 | 8         |
| 63 | Modeling Total Solar Irradiance Variations Using Automated Classification Software on Mount Wilson Data. <i>Solar Physics</i> , 2010, 261, 11-34.   | 2.5 | 8         |
| 64 | Evidence for $^3\text{He}$ in Young Open Clusters. <i>Astrophysical Journal</i> , 1971, 165, L95.   | 4.5 | 6         |
| 65 | Results from the GOLF instrument on SOHO. <i>Advances in Space Research</i> , 1999, 24, 147-155.  | 2.6 | 4         |
| 66 | Generation of a North/South Magnetic Field Component from Variations in the Photospheric Magnetic Field. <i>Solar Physics</i> , 2016, 291, 1059-1076.                                     | 2.5 | 4         |
| 67 | The Controversial Sun. <i>International Astronomical Union Colloquium</i> , 1993, 137, 25-42.   | 0.1 | 1         |
| 68 | Solar Internal Stresses: Rotation and Magnetic Fields. , 1986, , 161-175.   |     | 1         |
| 69 | Further evidence for radial variations in the solar equatorial angular velocity profile. <i>Lecture Notes in Physics</i> , 1991, , 285-292.   | 0.7 | 1         |
| 70 | A New System for Observing Solar Oscillations at the Mount Wilson Observatory. I: System Design and Installation. <i>International Astronomical Union Colloquium</i> , 1983, 66, 245-258. | 0.1 | 0         |
| 71 | Can stellar mass be measured by asteroseismology?. <i>Symposium - International Astronomical Union</i> , 1988, 123, 299-302.  | 0.1 | 0         |
| 72 | Solar Sources of Interplanetary Magnetic Clouds Leading to Helicity Prediction. <i>Space Weather</i> , 2018, 16, 1668-1685.   | 3.7 | 0         |