

# 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	70 Years of Chromospheric Solar Activity and Dynamics. <i>Astrophysical Journal</i> , 2020, 897, 181.	4.5	20
2	Reconstructing solar magnetic fields from historical observations. <i>Astronomy and Astrophysics</i> , 2019, 628, A103.	5.1	15
3	Solar Sources of Interplanetary Magnetic Clouds Leading to Helicity Prediction. <i>Space Weather</i> , 2018, 16, 1668-1685.	3.7	0
4	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
5	The solar magnetic activity band interaction and instabilities that shape quasi-periodic variability. <i>Nature Communications</i> , 2015, 6, 6491.	12.8	97
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	LONG-TERM MEASUREMENTS OF SUNSPOT MAGNETIC TILT ANGLES. <i>Astrophysical Journal</i> , 2012, 758, 115.	4.5	64
8	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
9	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
10	Modeling Total Solar Irradiance Variations Using Automated Classification Software on Mount Wilson Data. <i>Solar Physics</i> , 2010, 261, 11-34.	2.5	8
11	The Mount Wilson Ca ii H Plage Index Time Series. <i>Solar Physics</i> , 2010, 264, 31-44.	2.5	55
12	PHYSICAL ORIGIN OF DIFFERENCES AMONG VARIOUS MEASURES OF SOLAR MERIDIONAL CIRCULATION. <i>Astrophysical Journal</i> , 2010, 722, 774-778.	4.5	27
13	Impact of changes in the Sun's conveyor belt on recent solar cycles. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	40
14	Interpretation of Solar Magnetic Field Strength Observations. <i>Solar Physics</i> , 2009, 255, 53-78.	2.5	39
15	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
16	Search for Short-Term Periodicities in the Sun's Surface Rotation: A Revisit. <i>Solar Physics</i> , 2009, 257, 61-69.	2.5	34
17	Solar Radius Measurements at Mount Wilson Observatory. <i>Astrophysical Journal</i> , 2006, 649, 444-451.	4.5	22
18	Carrington Coordinates and Solar Maps. <i>Solar Physics</i> , 2006, 235, 17-29.	2.5	29

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19	Solar-Cycle-Related Variations in the Solar Differential Rotation and Meridional Flow: A Comparison. Solar Physics, 2006, 237, 245-265.	2.5	37
20	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
21	The Solar Surface Toroidal Magnetic Field. Astrophysical Journal, 2005, 620, L123-L127.	4.5	71
22	Long-Term Variations in Solar Differential Rotation and Sunspot Activity. Solar Physics, 2005, 232, 25-40.	2.5	50
23	An Interpretation of the Differences in the Solar Differential Rotation during Even and Odd Sunspot Cycles. Astrophysical Journal, 2005, 626, 579-584.	4.5	32
24	Looking for Gravityâ€Mode Multiplets with the GOLF Experiment aboard SOHO. Astrophysical Journal, 2004, 604, 455-468.	4.5	98
25	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. Astrophysical Journal, Supplement Series, 2002, 139, 259-279.	7.7	83
26	Low-Degree Low-Order Solar p Modes As Seen By GOLF On board SOHO. Solar Physics, 2001, 200, 361-379.	2.5	60
27	Very Long Lived Wave Patterns Detected in the Solar Surface Velocity Signal. Astrophysical Journal, 2001, 560, 466-475.	4.5	69
28	Identification of Solar Acoustic Modes of Low Angular Degree and Low Radial Order. Astrophysical Journal, 2000, 537, L143-L146.	4.5	45
29	Comparison of Frequencies and Rotational Splittings of Solar Acoustic Modes of Low Angular Degree from Simultaneous MDI and GOLF Observations. Astrophysical Journal, 2000, 535, 1066-1077.	4.5	31
30	Results from the GOLF instrument on SOHO. Advances in Space Research, 1999, 24, 147-155.	2.6	4
31	Searching for Signal in Noise by Randomâ€Lag Singular Spectrum Analysis. Astrophysical Journal, 1999, 526, 1052-1061.	4.5	21
32	Performance and Early Results from the Golf Instrument Flown on the Soho Mission. Solar Physics, 1997, 175, 207-226.	2.5	65
33	First Results on it p Modes from GOLF Experiment. Solar Physics, 1997, 175, 227-246.	2.5	48
34	Solar Rotation Measurements at Mount Wilson over the Period 1990â€1995. Astrophysical Journal, 1996, 465, L65-L68.	4.5	18
35	Solar-cycle dependence of the Sun's apparent radius in the neutral iron spectral line at 525 nm. Nature, 1995, 377, 214-215.	27.8	71
36	Acoustic wave propagation in the solar atmosphere 1. Rediscovery of the linearized theory including nonstationary solutions. Astrophysical Journal, 1995, 444, 879.	4.5	10

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37	On the correlation of solar surface magnetic flux with solar neutrino capture rate. <i>Astrophysical Journal</i> , 1994, 437, L63.	4.5	36
38	The Controversial Sun. <i>International Astronomical Union Colloquium</i> , 1993, 137, 25-42.	0.1	1
39	Confirmation of solar cycle-dependent intermediate-degree p-mode frequency shifts. <i>Astrophysical Journal</i> , 1993, 406, 714.	4.5	24
40	A co-ordinated and synergistic analysis strategy for future ground-based and space helioseismology. <i>Advances in Space Research</i> , 1991, 11, 217-228.	2.6	37
41	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
42	Further evidence for radial variations in the solar equatorial angular velocity profile. <i>Lecture Notes in Physics</i> , 1991, , 285-292.	0.7	1
43	Rotation of Doppler features in the solar photosphere. <i>Astrophysical Journal</i> , 1990, 351, 309.	4.5	212
44	Depth and latitude dependence of the solar internal angular velocity. <i>Astrophysical Journal</i> , 1990, 351, 687.	4.5	54
45	Seismic analysis of the solar interior. I - Can opacity changes improve the theoretical frequencies?. <i>Astrophysical Journal</i> , 1989, 339, 1144.	4.5	34
46	Solar rotation measurements at Mount Wilson. <i>Solar Physics</i> , 1988, 117, 291-328.	2.5	114
47	Solar models, neutrino experiments, and helioseismology. <i>Reviews of Modern Physics</i> , 1988, 60, 297-372.	45.6	812
48	Can stellar mass be measured by asteroseismology?. <i>Symposium - International Astronomical Union</i> , 1988, 123, 299-302.	0.1	0
49	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
50	The 1984 Solar Oscillation Program of the Mt. Wilson 60-Foot Tower. , 1986, , 309-332.		14
51	Solar Internal Stresses: Rotation and Magnetic Fields. , 1986, , 161-175.		1
52	Helioseismology. <i>Scientific American</i> , 1985, 253, 48-57.	1.0	19
53	A new system for observing solar oscillations at the Mount Wilson Observatory. <i>Solar Physics</i> , 1983, 82, 245-258.	2.5	8
54	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

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55	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
56	New Solar-Neutrino Flux Calculations and Implications Regarding Neutrino Oscillations. <i>Physical Review Letters</i> , 1980, 45, 945-948.	7.8	74
57	A Nonlocal Mixing-Length Theory of Convection for Use in Numerical Calculations. <i>Astrophysical Journal</i> , 1976, 207, 564.	4.5	20
58	The Effect of Composition Changes on Evolutionary Tracks of Double-Shell Models. <i>Astrophysical Journal</i> , 1975, 200, 682.	4.5	14
59	Solar Models with Low Neutrino Fluxes. <i>Astrophysical Journal</i> , 1974, 188, 369.	4.5	33
60	Solar Neutrinos.IV. Effect of Radiative Opacities on Calculated Neutrino Fluxes. <i>Astrophysical Journal</i> , 1973, 184, 1.	4.5	44
61	Thermohaline Convection in Stellar Interiors.. <i>Astrophysical Journal</i> , 1972, 172, 165.	4.5	173
62	Studies in Stellar Evolution. I§. Hydrostatic Adjustment. <i>Astrophysical Journal</i> , 1972, 173, 109.	4.5	9
63	A Model for the Chemical Evolution of S and N Star Envelopes. <i>Astrophysical Journal</i> , 1972, 176, L37.	4.5	17
64	Evolution of Stars Containing $^3\text{He}$ . <i>Astrophysical Journal</i> , 1971, 168, 57.	4.5	18
65	Solar Neutrinos. III. Composition and Magnetic-Field Effects and Related Inferences. <i>Astrophysical Journal</i> , 1971, 170, 593.	4.5	76
66	Evidence for $^3\text{He}$ in Young Open Clusters. <i>Astrophysical Journal</i> , 1971, 165, L95.	4.5	6
67	Convective energy transport in stellar atmospheres. <i>Astrophysics and Space Science</i> , 1970, 9, 80-96.	1.4	11
68	Convective energy transport in stellar atmospheres. <i>Astrophysics and Space Science</i> , 1970, 7, 183-200.	1.4	30
69	The Five-Minute Oscillations on the Solar Surface. <i>Astrophysical Journal</i> , 1970, 162, 993.	4.5	312
70	Solar-Neutrino Fluxes with Recent Corrections to Opacity. <i>Astrophysical Journal</i> , 1970, 160, L57.	4.5	17
71	Sensitivity of the Solar-Neutrino Fluxes. <i>Astrophysical Journal</i> , 1969, 156, 559.	4.5	73
72	A Rapidly Rotating Core and Solar Neutrinos. <i>Astrophysical Journal</i> , 1969, 158, 427.	4.5	10