

# Rudi Komm

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,372  
citations

236925

25  
h-index

330143

37  
g-index

50  
all docs

50  
docs citations

50  
times ranked

418  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling the Subsurface Structure of Sunspots. <i>Solar Physics</i> , 2010, 267, 1-62.	2.5	88
2	Solar Convectionâ€ŽZone Dynamics, 1995â€Ž2004. <i>Astrophysical Journal</i> , 2005, 634, 1405-1415.	4.5	76
3	Solar Subsurface Fluid Dynamics Descriptors Derived from Global Oscillation Network Group and Michelson Doppler Imager Data. <i>Astrophysical Journal</i> , 2004, 605, 554-567.	4.5	72
4	Meridional Circulation Variability from Largeâ€ŽAperture Ringâ€ŽDiagram Analysis of Global Oscillation Network Group and Michelson Doppler Imager Data. <i>Astrophysical Journal</i> , 2006, 638, 576-583.	4.5	70
5	A NOTE ON THE TORSIONAL OSCILLATION AT SOLAR MINIMUM. <i>Astrophysical Journal</i> , 2009, 701, L87-L90.	4.5	70
6	THE HIGH-LATITUDE BRANCH OF THE SOLAR TORSIONAL OSCILLATION IN THE RISING PHASE OF CYCLE 24. <i>Astrophysical Journal Letters</i> , 2013, 767, L20.	8.3	70
7	Subsurface Meridional Circulation in the Active Belts. <i>Solar Physics</i> , 2008, 252, 235-245.	2.5	60
8	North â€Ž South Asymmetry of Zonal and Meridional Flows Determined From Ring Diagram Analysis of GONG ++ Data. <i>Solar Physics</i> , 2006, 236, 227-244.	2.5	57
9	MERIDIONAL CIRCULATION DURING THE EXTENDED SOLAR MINIMUM: ANOTHER COMPONENT OF THE TORSIONAL OSCILLATION?. <i>Astrophysical Journal Letters</i> , 2010, 713, L16-L20.	8.3	56
10	Divergence and Vorticity of Solar Subsurface Flows Derived from Ringâ€ŽDiagram Analysis of MDI and GONG Data. <i>Astrophysical Journal</i> , 2007, 667, 571-584.	4.5	54
11	The torsional oscillation and the new solar cycle. <i>Journal of Physics: Conference Series</i> , 2011, 271, 012074.	0.4	50
12	EVIDENCE THAT TEMPORAL CHANGES IN SOLAR SUBSURFACE HELICITY PRECEDE ACTIVE REGION FLARING. <i>Astrophysical Journal Letters</i> , 2010, 710, L121-L125.	8.3	44
13	Large-Scale Zonal Flows Near the Solar Surface. <i>Solar Physics</i> , 2006, 235, 1-15.	2.5	42
14	Ring Analysis of Solar Subsurface Flows and Their Relation to Surface Magnetic Activity. <i>Astrophysical Journal</i> , 2005, 631, 636-646.	4.5	40
15	Solar-Cycle Variation of Subsurface Meridional Flow Derived with Ring-Diagram Analysis. <i>Solar Physics</i> , 2015, 290, 3113-3136.	2.5	35
16	Emerging and Decaying Magnetic Flux and Subsurface Flows. <i>Solar Physics</i> , 2009, 258, 13-30.	2.5	32
17	Subsurface Zonal and Meridional Flow During Cycles 23 and 24. <i>Solar Physics</i> , 2018, 293, 1.	2.5	32
18	Flares, Magnetic Fields, and Subsurface Vorticity: A Survey of GONG and MDI Data. <i>Astrophysical Journal</i> , 2006, 645, 1543-1553.	4.5	31

#	ARTICLE	IF	CITATIONS
19	Subsurface Meridional Flow from HMI Using the Ring-Diagram Pipeline. <i>Solar Physics</i> , 2013, 287, 85-106.	2.5	31
20	Solar-Cycle Variation of Subsurface Zonal Flow. <i>Solar Physics</i> , 2014, 289, 3435-3455.	2.5	29
21	Emerging Active Regions Studied with Ring-Diagram Analysis. <i>Astrophysical Journal</i> , 2008, 672, 1254-1265.	4.5	28
22	Signatures of Solar Cycle 25 in Subsurface Zonal Flows. <i>Astrophysical Journal Letters</i> , 2018, 862, L5.	8.3	27
23	Subsurface Vorticity of Flaring versus Flare-Quiet Active Regions. <i>Solar Physics</i> , 2011, 268, 389-406.	2.5	26
24	Subsurface Zonal and Meridional Flow Derived from GONG and SDO/HMI: A Comparison of Systematics. <i>Solar Physics</i> , 2015, 290, 1081-1104.	2.5	26
25	Subsurface Velocity of Emerging and Decaying Active Regions. <i>Solar Physics</i> , 2011, 268, 407-428.	2.5	25
26	A Comparison of Low-Degree Solar-Mode Parameters from BiSON and GONG: Underlying Values and Temporal Variations. <i>Astrophysical Journal</i> , 2003, 588, 1204-1212.	4.5	19
27	CURRENT AND KINETIC HELICITY OF LONG-LIVED ACTIVITY COMPLEXES. <i>Astrophysical Journal</i> , 2015, 798, 20.	4.5	17
28	Sub-photosphere to Solar Atmosphere Connection. <i>Space Science Reviews</i> , 2015, 196, 167-199.	8.1	15
29	Subsurface Zonal Flows. <i>Solar Physics</i> , 2009, 254, 1-15.	2.5	14
30	Vorticity of Subsurface Flows of Emerging and Decaying Active Regions. <i>Solar Physics</i> , 2012, 277, 205-226.	2.5	13
31	A COMBINED STUDY OF PHOTOSPHERIC MAGNETIC AND CURRENT HELICITIES AND SUBSURFACE KINETIC HELICITIES OF SOLAR ACTIVE REGIONS DURING 2006-2013. <i>Astrophysical Journal</i> , 2014, 795, 113.	4.5	13
32	Solar-Cycle Variation of the Subsurface Flows of Active- and Quiet-Region Subsets. <i>Solar Physics</i> , 2020, 295, 1.	2.5	13
33	Solar-cycle variation of zonal and meridional flow. <i>Journal of Physics: Conference Series</i> , 2011, 271, 012077.	0.4	12
34	Active Regions with Superpenumbral Whirls and Their Subsurface Kinetic Helicity. <i>Solar Physics</i> , 2014, 289, 475-492.	2.5	12
35	Hemispheric Distribution of Subsurface Kinetic Helicity and Its Variation with Magnetic Activity. <i>Solar Physics</i> , 2014, 289, 2399-2418.	2.5	12
36	Solar flares and solar subphotospheric vorticity. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	11

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37	Solar-Cycle Variation of Subsurface-Flow Divergence: A Proxy of Magnetic Activity?. Solar Physics, 2017, 292, 1.	2.5	10
38	GONG p-Mode Parameters Through Two Solar Cycles. Solar Physics, 2018, 293, 151.	2.5	9
39	Kinetic Helicity and Lifetime of Activity Complexes During Solar Cycle 24. Astrophysical Journal, 2019, 887, 192.	4.5	7
40	Subsurface flows associated with non-Joy oriented active regions: a case study. Journal of Physics: Conference Series, 2013, 440, 012050.	0.4	5
41	Ring-diagram parameter comparisons for GONG, MDI and HMI. Journal of Physics: Conference Series, 2011, 271, 012015.	0.4	4
42	HORIZONTAL FLOWS IN ACTIVE REGIONS FROM RING-DIAGRAM AND LOCAL CORRELATION TRACKING METHODS. Astrophysical Journal, 2016, 816, 5.	4.5	4
43	Subsurface Horizontal Flows During Solar Cycles 24 and 25 with Large-Tile Ring-Diagram Analysis. Solar Physics, 2021, 296, 1.	2.5	4
44	Divergence and Vorticity of Subsurface Flows During Solar Cycles 23 and 24. Solar Physics, 2021, 296, 1.	2.5	3
45	A search for coherent structures in subsurface flows. Journal of Physics: Conference Series, 2011, 271, 012065.	0.4	2
46	Solar subsurface flows of active regions: flux emergence and flare activity. Proceedings of the International Astronomical Union, 2010, 6, 148-152.	0.0	1
47	22 Year Solar Magnetic Cycle and its relation to Convection Zone Dynamics. Proceedings of the International Astronomical Union, 2018, 13, 9-10.	0.0	1
48	Active Regions with Superpenumbral Whirls and Their Subsurface Kinetic Helicity. , 2013, , 39-56.		0
49	Sub-photosphere to Solar Atmosphere Connection. Space Sciences Series of ISSI, 2017, , 173-205.	0.0	0