

Rudi Komm

List of Publications by Year in descending order

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49
papers

1,372
citations

236925

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50
times ranked

418
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Divergence and Vorticity of Subsurface Flows During Solar Cycles 23 and 24. Solar Physics, 2021, 296, 1. | 2.5 | 3 |
| 2 | Subsurface Horizontal Flows During Solar Cycles 24 and 25 with Large-Tile Ring-Diagram Analysis. Solar Physics, 2021, 296, 1. | 2.5 | 4 |
| 3 | Solar-Cycle Variation of the Subsurface Flows of Active- and Quiet-Region Subsets. Solar Physics, 2020, 295, 1. | 2.5 | 13 |
| 4 | Kinetic Helicity and Lifetime of Activity Complexes During Solar Cycle 24. Astrophysical Journal, 2019, 887, 192. | 4.5 | 7 |
| 5 | GONG p-Mode Parameters Through Two Solar Cycles. Solar Physics, 2018, 293, 151. | 2.5 | 9 |
| 6 | 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 |
| 7 | Subsurface Zonal and Meridional Flow During Cycles 23 and 24. Solar Physics, 2018, 293, 1. | 2.5 | 32 |
| 8 | Signatures of Solar Cycle 25 in Subsurface Zonal Flows. Astrophysical Journal Letters, 2018, 862, L5. | 8.3 | 27 |
| 9 | Solar-Cycle Variation of Subsurface-Flow Divergence: A Proxy of Magnetic Activity?. Solar Physics, 2017, 292, 1. | 2.5 | 10 |
| 10 | Sub-photosphere to Solar Atmosphere Connection. Space Sciences Series of ISSI, 2017, , 173-205. | 0.0 | 0 |
| 11 | HORIZONTAL FLOWS IN ACTIVE REGIONS FROM RING-DIAGRAM AND LOCAL CORRELATION TRACKING METHODS. Astrophysical Journal, 2016, 816, 5. | 4.5 | 4 |
| 12 | Solar-Cycle Variation of Subsurface Meridional Flow Derived with Ring-Diagram Analysis. Solar Physics, 2015, 290, 3113-3136. | 2.5 | 35 |
| 13 | Subsurface Zonal and Meridional Flow Derived from GONG and SDO/HMI: A Comparison of Systematics. Solar Physics, 2015, 290, 1081-1104. | 2.5 | 26 |
| 14 | CURRENT AND KINETIC HELICITY OF LONG-LIVED ACTIVITY COMPLEXES. Astrophysical Journal, 2015, 798, 20. | 4.5 | 17 |
| 15 | Sub-photosphere to Solar Atmosphere Connection. Space Science Reviews, 2015, 196, 167-199. | 8.1 | 15 |
| 16 | A COMBINED STUDY OF PHOTOSPHERIC MAGNETIC AND CURRENT HELICITIES AND SUBSURFACE KINETIC HELICITIES OF SOLAR ACTIVE REGIONS DURING 2006-2013. Astrophysical Journal, 2014, 795, 113. | 4.5 | 13 |
| 17 | Active Regions with Superpenumbral Whirls and Their Subsurface Kinetic Helicity. Solar Physics, 2014, 289, 475-492. | 2.5 | 12 |
| 18 | Solar-Cycle Variation of Subsurface Zonal Flow. Solar Physics, 2014, 289, 3435-3455. | 2.5 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Hemispheric Distribution of Subsurface Kinetic Helicity and Its Variation with Magnetic Activity. Solar Physics, 2014, 289, 2399-2418. | 2.5 | 12 |
| 20 | Subsurface Meridional Flow from HMI Using the Ring-Diagram Pipeline. Solar Physics, 2013, 287, 85-106. | 2.5 | 31 |
| 21 | THE HIGH-LATITUDE BRANCH OF THE SOLAR TORSIONAL OSCILLATION IN THE RISING PHASE OF CYCLE 24. Astrophysical Journal Letters, 2013, 767, L20. | 8.3 | 70 |
| 22 | Subsurface flows associated with non-Joy oriented active regions: a case study. Journal of Physics: Conference Series, 2013, 440, 012050. | 0.4 | 5 |
| 23 | Active Regions with Superpenumbral Whirls and Their Subsurface Kinetic Helicity. , 2013, , 39-56. | | 0 |
| 24 | Vorticity of Subsurface Flows of Emerging and Decaying Active Regions. Solar Physics, 2012, 277, 205-226. | 2.5 | 13 |
| 25 | A search for coherent structures in subsurface flows. Journal of Physics: Conference Series, 2011, 271, 012065. | 0.4 | 2 |
| 26 | Ring-diagram parameter comparisons for GONG, MDI and HMI. Journal of Physics: Conference Series, 2011, 271, 012015. | 0.4 | 4 |
| 27 | The torsional oscillation and the new solar cycle. Journal of Physics: Conference Series, 2011, 271, 012074. | 0.4 | 50 |
| 28 | Solar-cycle variation of zonal and meridional flow. Journal of Physics: Conference Series, 2011, 271, 012077. | 0.4 | 12 |
| 29 | Subsurface Vorticity of Flaring versus Flare-Quiet Active Regions. Solar Physics, 2011, 268, 389-406. | 2.5 | 26 |
| 30 | Subsurface Velocity of Emerging and Decaying Active Regions. Solar Physics, 2011, 268, 407-428. | 2.5 | 25 |
| 31 | Solar subsurface flows of active regions: flux emergence and flare activity. Proceedings of the International Astronomical Union, 2010, 6, 148-152. | 0.0 | 1 |
| 32 | Modeling the Subsurface Structure of Sunspots. Solar Physics, 2010, 267, 1-62. | 2.5 | 88 |
| 33 | MERIDIONAL CIRCULATION DURING THE EXTENDED SOLAR MINIMUM: ANOTHER COMPONENT OF THE TORSIONAL OSCILLATION?. Astrophysical Journal Letters, 2010, 713, L16-L20. | 8.3 | 56 |
| 34 | EVIDENCE THAT TEMPORAL CHANGES IN SOLAR SUBSURFACE HELICITY PRECEDE ACTIVE REGION FLARING. Astrophysical Journal Letters, 2010, 710, L121-L125. | 8.3 | 44 |
| 35 | A NOTE ON THE TORSIONAL OSCILLATION AT SOLAR MINIMUM. Astrophysical Journal, 2009, 701, L87-L90. | 4.5 | 70 |
| 36 | Subsurface Zonal Flows. Solar Physics, 2009, 254, 1-15. | 2.5 | 14 |

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|----|--|-----|-----------|
| 37 | Emerging and Decaying Magnetic Flux and Subsurface Flows. <i>Solar Physics</i> , 2009, 258, 13-30. | 2.5 | 32 |
| 38 | Solar flares and solar subphotospheric vorticity. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 11 |
| 39 | Subsurface Meridional Circulation in the Active Belts. <i>Solar Physics</i> , 2008, 252, 235-245. | 2.5 | 60 |
| 40 | Emerging Active Regions Studied with Ringâ€Diagram Analysis. <i>Astrophysical Journal</i> , 2008, 672, 1254-1265. | 4.5 | 28 |
| 41 | Divergence and Vorticity of Solar Subsurface Flows Derived from Ringâ€Diagram Analysis of MDI and GONG Data. <i>Astrophysical Journal</i> , 2007, 667, 571-584. | 4.5 | 54 |
| 42 | Flares, Magnetic Fields, and Subsurface Vorticity: A Survey of GONG and MDI Data. <i>Astrophysical Journal</i> , 2006, 645, 1543-1553. | 4.5 | 31 |
| 43 | Meridional Circulation Variability from Largeâ€Aperture Ringâ€Diagram Analysis of Global Oscillation Network Group and Michelson Doppler Imager Data. <i>Astrophysical Journal</i> , 2006, 638, 576-583. | 4.5 | 70 |
| 44 | North â€ 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 |
| 45 | Large-Scale Zonal Flows Near the Solar Surface. <i>Solar Physics</i> , 2006, 235, 1-15. | 2.5 | 42 |
| 46 | Solar Convectionâ€Zone Dynamics, 1995â€2004. <i>Astrophysical Journal</i> , 2005, 634, 1405-1415. | 4.5 | 76 |
| 47 | Ring Analysis of Solar Subsurface Flows and Their Relation to Surface Magnetic Activity. <i>Astrophysical Journal</i> , 2005, 631, 636-646. | 4.5 | 40 |
| 48 | 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 |
| 49 | A Comparison of Lowâ€Degree Solarpâ€Mode Parameters from BiSON and GONG: Underlying Values and Temporal Variations. <i>Astrophysical Journal</i> , 2003, 588, 1204-1212. | 4.5 | 19 |