

Nicholeen M Viall

List of Publications by Year in descending order

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36
papers

1,436
citations

279798

23
h-index

330143

37
g-index

47
all docs

47
docs citations

47
times ranked

1100
citing authors

#	ARTICLE	IF	CITATIONS
1	EVIDENCE FOR WIDESPREAD COOLING IN AN ACTIVE REGION OBSERVED WITH THE SDO ATMOSPHERIC IMAGING ASSEMBLY. <i>Astrophysical Journal</i> , 2012, 753, 35.	4.5	110
2	The Highly Structured Outer Solar Corona. <i>Astrophysical Journal</i> , 2018, 862, 18.	4.5	101
3	PATTERNS OF NANOFLARE STORM HEATING EXHIBITED BY AN ACTIVE REGION OBSERVED WITH SOLAR DYNAMICS OBSERVATORY ATMOSPHERIC IMAGING ASSEMBLY. <i>Astrophysical Journal</i> , 2011, 738, 24.	4.5	98
4	PERIODIC DENSITY STRUCTURES AND THE ORIGIN OF THE SLOW SOLAR WIND. <i>Astrophysical Journal</i> , 2015, 807, 176.	4.5	87
5	Near-Sun observations of an F-corona decrease and K-corona fine structure. <i>Nature</i> , 2019, 576, 232-236.	27.8	84
6	Relative occurrence rates and connection of discrete frequency oscillations in the solar wind density and dayside magnetosphere. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	82
7	Nine Outstanding Questions of Solar Wind Physics. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2018JA026005.	2.4	77
8	FADING CORONAL STRUCTURE AND THE ONSET OF TURBULENCE IN THE YOUNG SOLAR WIND. <i>Astrophysical Journal</i> , 2016, 828, 66.	4.5	69
9	Implications of L1 observations for slow solar wind formation by solar reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 4089-4097.	4.0	60
10	Examining Periodic Solar-Wind Density Structures Observed in the SECCHI Heliospheric Imagers. <i>Solar Physics</i> , 2010, 267, 175-202.	2.5	56
11	MODELING THE LINE-OF-SIGHT INTEGRATED EMISSION IN THE CORONA: IMPLICATIONS FOR CORONAL HEATING. <i>Astrophysical Journal</i> , 2013, 771, 115.	4.5	54
12	Relating Streamer Flows to Density and Magnetic Structures at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 37.	7.7	52
13	Observations of Solar Coronal Rain in Null Point Topologies. <i>Astrophysical Journal Letters</i> , 2019, 874, L33.	8.3	42
14	Inherent length scales of periodic solar wind number density structures. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	40
15	The Heliospheric Current Sheet and Plasma Sheet during Parker Solar Probe's First Orbit. <i>Astrophysical Journal Letters</i> , 2020, 894, L19.	8.3	39
16	Are periodic solar wind number density structures formed in the solar corona?. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	36
17	The effect of magnetopause motion on fast mode resonance. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8212-8227.	2.4	29
18	A Survey of Nanoflare Properties in Active Regions Observed with the Solar Dynamics Observatory. <i>Astrophysical Journal</i> , 2017, 842, 108.	4.5	29

#	ARTICLE	IF	CITATIONS
19	PATTERNS OF ACTIVITY IN A GLOBAL MODEL OF A SOLAR ACTIVE REGION. <i>Astrophysical Journal</i> , 2016, 821, 63.	4.5	28
20	Helios Observations of Quasiperiodic Density Structures in the Slow Solar Wind at 0.3, 0.4, and 0.6 AU. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 837-860.	2.4	28
21	THE TRANSITION REGION RESPONSE TO A CORONAL NANOFLARE: FORWARD MODELING AND OBSERVATIONS IN SDO/AIA. <i>Astrophysical Journal</i> , 2015, 799, 58.	4.5	26
22	Dressing the Coronal Magnetic Extrapolations of Active Regions with a Parameterized Thermal Structure. <i>Astrophysical Journal</i> , 2018, 853, 66.	4.5	26
23	The Source, Significance, and Magnetospheric Impact of Periodic Density Structures Within Stream Interaction Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7722-7743.	2.4	26
24	Mesoscale Structure in the Solar Wind. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	23
25	SIGNATURES OF STEADY HEATING IN TIME LAG ANALYSIS OF CORONAL EMISSION. <i>Astrophysical Journal</i> , 2016, 828, 76.	4.5	19
26	Understanding Heating in Active Region Cores through Machine Learning. I. Numerical Modeling and Predicted Observables. <i>Astrophysical Journal</i> , 2019, 880, 56.	4.5	19
27	Inherent Length Scales of Periodic Mesoscale Density Structures in the Solar Wind Over Two Solar Cycles. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028037.	2.4	18
28	Power Spectral Density Background Estimate and Signal Detection via the Multitaper Method. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028748.	2.4	16
29	On Differentiating Multiple Types of ULF Magnetospheric Waves in Response to Solar Wind Periodic Density Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	13
30	On the Relationship between Magnetic Expansion Factor and Observed Speed of the Solar Wind from Coronal Pseudostreamers. <i>Astrophysical Journal</i> , 2020, 898, 78.	4.5	9
31	Connecting the Low to the High Corona: A Method to Isolate Transients in STEREO/COR1 Images. <i>Astrophysical Journal</i> , 2021, 919, 98.	4.5	8
32	Periodic Solar Wind Structures Observed in Measurements of Elemental and Ionic Composition in situ at L1. <i>Astrophysical Journal</i> , 2022, 933, 198.	4.5	6
33	Understanding Heating in Active Region Cores through Machine Learning. II. Classifying Observations. <i>Astrophysical Journal</i> , 2021, 919, 132.	4.5	4
34	Understanding Space Weather: Part III: The Sun's Domain. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 2593-2602.	3.3	3
35	Using SDO/AIA to Understand the Thermal Evolution of Solar Prominence Formation. <i>Astrophysical Journal</i> , 2020, 905, 15.	4.5	3
36	An Analysis of Spikes in Atmospheric Imaging Assembly (AIA) Data. <i>Solar Physics</i> , 2021, 296, 1.	2.5	3