Nicholeen M Viall

List of Publications by Year
in descending order

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36	1,436	279798	330143
papers	citations	23 h-index	37 g-index

47	47	47	1100
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On Differentiating Multiple Types of ULF Magnetospheric Waves in Response to Solar Wind Periodic Density Structures. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	13
2	Periodic Solar Wind Structures Observed in Measurements of Elemental and Ionic Composition in situ at L1. Astrophysical Journal, 2022, 933, 198.	4.5	6
3	Power Spectral Density Background Estimate and Signal Detection via the Multitaper Method. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028748.	2.4	16
4	Mesoscale Structure in the Solar Wind. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	23
5	Connecting the Low to the High Corona: A Method to Isolate Transients in STEREO/COR1 Images. Astrophysical Journal, 2021, 919, 98.	4.5	8
6	Understanding Heating in Active Region Cores through Machine Learning. II. Classifying Observations. Astrophysical Journal, 2021, 919, 132.	4.5	4
7	An Analysis of Spikes in Atmospheric Imaging Assembly (AIA) Data. Solar Physics, 2021, 296, 1.	2.5	3
8	Inherent Length Scales of Periodic Mesoscale Density Structures in the Solar Wind Over Two Solar Cycles. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028037.	2.4	18
9	The Heliospheric Current Sheet and Plasma Sheet during Parker Solar Probeâ€™s First Orbit. Astrophysical Journal Letters, 2020, 894, L19.	8.3	39
10	Nine Outstanding Questions of Solar Wind Physics. Journal of Geophysical Research: Space Physics, 2020, 125, e2018JA026005.	2.4	77
11	Relating Streamer Flows to Density and Magnetic Structures at the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 37.	7.7	52
12	On the Relationship between Magnetic Expansion Factor and Observed Speed of the Solar Wind from Coronal Pseudostreamers. Astrophysical Journal, 2020, 898, 78.	4.5	9
13	Using SDO/AIA to Understand the Thermal Evolution of Solar Prominence Formation. Astrophysical Journal, 2020, 905, 15.	4.5	3
14	Understanding Heating in Active Region Cores through Machine Learning. I. Numerical Modeling and Predicted Observables. Astrophysical Journal, 2019, 880, 56.	4.5	19
15	The Source, Significance, and Magnetospheric Impact of Periodic Density Structures Within Stream Interaction Regions. Journal of Geophysical Research: Space Physics, 2019, 124, 7722-7743.	2.4	26
16	Observations of Solar Coronal Rain in Null Point Topologies. Astrophysical Journal Letters, 2019, 874, L33.	8.3	42
17	Helios Observations of Quasiperiodic Density Structures in the Slow Solar Wind at 0.3, 0.4, and 0.6ÂAU. Journal of Geophysical Research: Space Physics, 2019, 124, 837-860.	2.4	28
18	Near-Sun observations of an F-corona decrease and K-corona fine structure. Nature, 2019, 576, 232-236.	27.8	84

#	Article	IF	Citations
19	Dressing the Coronal Magnetic Extrapolations of Active Regions with a Parameterized Thermal Structure. Astrophysical Journal, 2018, 853, 66.	4.5	26
20	The Highly Structured Outer Solar Corona. Astrophysical Journal, 2018, 862, 18.	4.5	101
21	A Survey of Nanoflare Properties in Active Regions Observed with the Solar Dynamics Observatory. Astrophysical Journal, 2017, 842, 108.	4.5	29
22	Understanding Space Weather: Part III: The Sunâ€™s Domain. Bulletin of the American Meteorological Society, 2017, 98, 2593-2602.	3.3	3
23	Implications of L1 observations for slow solar wind formation by solar reconnection. Geophysical Research Letters, 2016, 43, 4089-4097.	4.0	60
24	FADING CORONAL STRUCTURE AND THE ONSET OF TURBULENCE IN THE YOUNG SOLAR WIND. Astrophysical Journal, 2016, 828, 66.	4.5	69
25	PATTERNS OF ACTIVITY IN A GLOBAL MODEL OF A SOLAR ACTIVE REGION. Astrophysical Journal, 2016, 821, 63.	4.5	28
26	SIGNATURES OF STEADY HEATING IN TIME LAG ANALYSIS OF CORONAL EMISSION. Astrophysical Journal, 2016, 828, 76.	4.5	19
27	THE TRANSITION REGION RESPONSE TO A CORONAL NANOFLARE: FORWARD MODELING AND OBSERVATIONS INSDO/AIA. Astrophysical Journal, 2015, 799, 58.	4.5	26
28	PERIODIC DENSITY STRUCTURES AND THE ORIGIN OF THE SLOW SOLAR WIND. Astrophysical Journal, 2015, 807, 176.	4.5	87
29	The effect of magnetopause motion on fast mode resonance. Journal of Geophysical Research: Space Physics, 2014, 119, 8212-8227.	2.4	29
30	MODELING THE LINE-OF-SIGHT INTEGRATED EMISSION IN THE CORONA: IMPLICATIONS FOR CORONAL HEATING. Astrophysical Journal, 2013, 771, 115.	4.5	54
31	EVIDENCE FOR WIDESPREAD COOLING IN AN ACTIVE REGION OBSERVED WITH THESDOATMOSPHERIC IMAGING ASSEMBLY. Astrophysical Journal, 2012, 753, 35.	4.5	110
32	PATTERNS OF NANOFLARE STORM HEATING EXHIBITED BY AN ACTIVE REGION OBSERVED WITHSOLAR DYNAMICS OBSERVATORY/ATMOSPHERIC IMAGING ASSEMBLY. Astrophysical Journal, 2011, 738, 24.	4.5	98
33	Examining Periodic Solar-Wind Density Structures Observed in the SECCHI Heliospheric Imagers. Solar Physics, 2010, 267, 175-202.	2.5	56
34	Are periodic solar wind number density structures formed in the solar corona?. Geophysical Research Letters, 2009, 36, .	4.0	36
35	Relative occurrence rates and connection of discrete frequency oscillations in the solar wind density and dayside magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	82
36	Inherent lengthâ€scales of periodic solar wind number density structures. Journal of Geophysical Research, 2008, 113, .	3.3	40