Anthony R Yeates

List of Publications by Year
in descending order

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		172457	233421
78	2,185	29	45
papers	citations	h-index	g-index

78	78	78	1153
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the limitations of magneto-frictional relaxation. Geophysical and Astrophysical Fluid Dynamics, 2022, 116, 305-320.	1.2	5
2	Exploring the Origin of Stealth Coronal Mass Ejections with Magnetofrictional Simulations. Solar Physics, 2022, 297, 1.	2.5	2
3	Eruptivity Criteria for Two-Dimensional Magnetic Flux Ropes in the Solar Corona. Frontiers in Astronomy and Space Sciences, 2022, 9, .	2.8	4
4	Impact of Inner Heliospheric Boundary Conditions on Solar Wind Predictions at Earth. Space Weather, 2021, 19, e2020SW002499.	3.7	15
5	Optimal unstirred state of a passive scalar. Journal of Fluid Mechanics, 2021, 911, .	3.4	2
6	Two Classes of Eruptive Events During Solar Minimum. Solar Physics, 2021, 296, 1.	2.5	10
7	Evolution of field line helicity in magnetic relaxation. Physics of Plasmas, 2021, 28, .	1.9	3
8	Global Coronal Equilibria with Solar Wind Outflow. Astrophysical Journal, 2021, 923, 57.	4.5	9
9	A Comparison of Sparse and Non-sparse Techniques for Electric-Field Inversion from Normal-Component Magnetograms. Solar Physics, 2021, 296, 1.	2.5	2
10	Towards an algebraic method of solar cycle prediction. Journal of Space Weather and Space Climate, 2020, 10, 50.	3.3	19
11	How Good Is the Bipolar Approximation of Active Regions for Surface Flux Transport?. Solar Physics, 2020, 295, 1.	2.5	18
12	Using topology to locate the position where fully three-dimensional reconnection occurs. SN Applied Sciences, 2020, 2, 1.	2.9	6
13	Magnetohydrodynamic Relaxation Theory. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2020, , 117-143.	0.6	4
14	Additivity of relative magnetic helicity in finite volumes. Astronomy and Astrophysics, 2020, 643, A26.	5.1	3
15	pfsspy: A Python package for potential field source surface modelling. Journal of Open Source Software, 2020, 5, 2732.	4.6	45
16	The Minimal Helicity of Solar Coronal Magnetic Fields. Astrophysical Journal Letters, 2020, 898, L49.	8.3	6
17	The need for active region disconnection in 3D kinematic dynamo simulations. Astronomy and Astrophysics, 2019, 627, A168.	5.1	8
18	Hemispheric injection of magnetic helicity by surface flux transport. Astronomy and Astrophysics, 2019, 631, A138.	5.1	5

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19	The Large-scale Coronal Structure of the 2017 August 21 Great American Eclipse: An Assessment of Solar Surface Flux Transport Model Enabled Predictions and Observations. Astrophysical Journal, 2018, 853, 72.	4.5	15
20	Estimating the Rate of Field Line Braiding in the Solar Corona by Photospheric Flows. Astrophysical Journal, 2018, 864, 157.	4.5	9
21	Relative field-line helicity in bounded domains. Journal of Plasma Physics, 2018, 84, .	2.1	15
22	Magnetic Helicity Condensation and the Solar Cycle. Astrophysical Journal, 2018, 869, 62.	4.5	17
23	Magnetic Structures at the Boundary of the Closed Corona: Interpretation of S-Web Arcs. Astrophysical Journal, 2018, 869, 60.	4.5	18
24	Global Non-Potential Magnetic Models of the Solar Corona During the March 2015 Eclipse. Space Science Reviews, 2018, 214, 1.	8.1	45
25	A Model for Coronal Hole Bright Points and Jets Due to Moving Magnetic Elements. Astrophysical Journal, 2018, 864, 165.	4.5	22
26	Quantifying reconnective activity in braided vector fields. Physical Review E, 2018, 98, 013204.	2.1	11
27	How Many Active Regions Are Necessary to Predict the Solar Dipole Moment?. Astrophysical Journal, 2018, 863, 116.	4.5	22
28	The Open Flux Problem. Astrophysical Journal, 2017, 848, 70.	4.5	135
29	Magnetic Flux Rope Identification and Characterization from Observationally Driven Solar Coronal Models. Astrophysical Journal, 2017, 846, 106.	4.5	21
30	Sparse Reconstruction of Electric Fields from Radial Magnetic Data. Astrophysical Journal, 2017, 836, 131.	4.5	9
31	The global distribution of magnetic helicity in the solar corona (Corrigendum). Astronomy and Astrophysics, 2017, 603, C2.	5.1	0
32	Parameter optimization for surface flux transport models. Astronomy and Astrophysics, 2017, 607, A76.	5.1	28
33	IMPACT OF AN L5 MAGNETOGRAPH ON NONPOTENTIAL SOLAR GLOBAL MAGNETIC FIELD MODELING. Astrophysical Journal, 2016, 825, 131.	4.5	21
34	Twisted versus braided magnetic flux ropes in coronal geometry. Astronomy and Astrophysics, 2016, 591, A16.	5.1	13
35	The global distribution of magnetic helicity in the solar corona. Astronomy and Astrophysics, 2016, 594, A98.	5.1	32
36	A NEW TECHNIQUE FOR THE PHOTOSPHERIC DRIVING OF NON-POTENTIAL SOLAR CORONAL MAGNETIC FIELD SIMULATIONS. Astrophysical Journal, 2016, 823, 55.	4.5	24

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37	THE POSSIBLE IMPACT OF L5 MAGNETOGRAMS ON NON-POTENTIAL SOLAR CORONAL MAGNETIC FIELD SIMULATIONS. Astrophysical Journal, 2016, 828, 102.	4.5	15
38	Stellar coronal response to differential rotation and flux emergence. Monthly Notices of the Royal Astronomical Society, 2016, 456, 3624-3637.	4.4	19
39	Twisted versus braided magnetic flux ropes in coronal geometry. Astronomy and Astrophysics, 2016, 587, A125.	5.1	12
40	Physical role of topological constraints in localized magnetic relaxation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150012.	2.1	17
41	Magnetic reconnection now and in the future. Astronomy and Geophysics, 2015, 56, 6.18-6.23.	0.2	2
42	Influence of Non-Potential Coronal Magnetic Topology on Solar-Wind Models. Solar Physics, 2015, 290, 2791-2808.	2.5	13
43	SMALL-SCALE AND GLOBAL DYNAMOS AND THE AREA AND FLUX DISTRIBUTIONS OF ACTIVE REGIONS, SUNSPOT GROUPS, AND SUNSPOTS: A MULTI-DATABASE STUDY. Astrophysical Journal, 2015, 800, 48.	4.5	58
44	Source of a Prominent Poleward Surge During Solar Cycle 24. Solar Physics, 2015, 290, 3189-3201.	2.5	42
45	Evolution of field line helicity during magnetic reconnection. Physics of Plasmas, 2015, 22, .	1.9	44
46	The coronal energy input from magnetic braiding. Astronomy and Astrophysics, 2014, 564, A131.	5.1	19
47	OBSERVATIONS OF A HYBRID DOUBLE-STREAMER/PSEUDOSTREAMER IN THE SOLAR CORONA. Astrophysical Journal Letters, 2014, 787, L3.	8.3	30
48	ON THE HELICITY OF OPEN MAGNETIC FIELDS. Astrophysical Journal, 2014, 787, 100.	4.5	47
49	DETECTION OF COHERENT STRUCTURES IN PHOTOSPHERIC TURBULENT FLOWS. Astrophysical Journal, 2014, 786, 51.	4.5	31
50	Coronal Magnetic Field Evolution from 1996 to 2012: Continuous Non-potential Simulations. Solar Physics, 2014, 289, 631-648.	2.5	58
51	A complete topological invariant for braided magnetic fields. Journal of Physics: Conference Series, 2014, 544, 012002.	0.4	13
52	Kinematic active region formation in a three-dimensional solar dynamo model. Monthly Notices of the Royal Astronomical Society, 2013, 436, 3366-3379.	4.4	52
53	Unique topological characterization of braided magnetic fields. Physics of Plasmas, 2013, 20, .	1.9	29
54	PATHWAYS OF LARGE-SCALE MAGNETIC COUPLINGS BETWEEN SOLAR CORONAL EVENTS. Astrophysical Journal, 2013, 773, 93.	4.5	50

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55	Hemispheric Patterns in Filament Chirality and Sigmoid Shape over the Solar Cycle. Proceedings of the International Astronomical Union, 2013, 8, 135-138.	0.0	1
56	Explaining the Hemispheric Pattern of Filament Chirality. Proceedings of the International Astronomical Union, 2013, 8, 172-175.	0.0	0
57	Where Do Solar Filaments Form?. Proceedings of the International Astronomical Union, 2013, 8, 445-446.	0.0	2
58	Coronal Magnetic Field Evolution from 1996 to 2012: Continuous Non-potential Simulations. , 2013, , 195-212.		2
59	The Sun's Global Photospheric and Coronal Magnetic Fields: Observations and Models. Living Reviews in Solar Physics, 2012, 9, 1.	22.0	152
60	Lagrangian coherent structures in photospheric flows and their implications for coronal magnetic structure. Astronomy and Astrophysics, 2012, 539, A1.	5.1	26
61	CHIRALITY OF HIGH-LATITUDE FILAMENTS OVER SOLAR CYCLE 23. Astrophysical Journal Letters, 2012, 753, L34.	8.3	44
62	Dynamical constraints from field line topology in magnetic flux tubes. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 265501.	2.1	18
63	A generalized flux function for three-dimensional magnetic reconnection. Physics of Plasmas, 2011, 18, .	1.9	29
64	Heating of braided coronal loops. Astronomy and Astrophysics, 2011, 536, A67.	5.1	40
65	A DOUBLE-RING ALGORITHM FOR MODELING SOLAR ACTIVE REGIONS: UNIFYING KINEMATIC DYNAMO MODELS AND SURFACE FLUX-TRANSPORT SIMULATIONS. Astrophysical Journal Letters, 2010, 720, L20-L25.	8.3	61
66	COMPARISON OF A GLOBAL MAGNETIC EVOLUTION MODEL WITH OBSERVATIONS OF CORONAL MASS EJECTIONS. Astrophysical Journal, 2010, 709, 1238-1248.	4.5	30
67	Solar Cycle Variation of Magnetic Flux Ropes inÂaÂQuasi-Static Coronal Evolution Model. Solar Physics, 2010, 263, 121-134.	2.5	7
68	Topological Constraints on Magnetic Relaxation. Physical Review Letters, 2010, 105, 085002.	7.8	57
69	A nonpotential model for the Sun's open magnetic flux. Journal of Geophysical Research, 2010, 115, .	3.3	44
70	INITIATION OF CORONAL MASS EJECTIONS IN A GLOBAL EVOLUTION MODEL. Astrophysical Journal, 2009, 699, 1024-1037.	4.5	54
71	A Prominence Puzzle Explained?. , 2009, , .		0
72	Evolution of Current Helicity in Full-Sun Simulations. , 2009, , .		0

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73	Modelling the Global Solar Corona: III. Origin ofÂtheÂHemispheric Pattern of Filaments. Solar Physics, 2009, 254, 77-88.	2.5	39
74	Modelling the Global Solar Corona II: Coronal Evolution and Filament Chirality Comparison. Solar Physics, 2008, 247, 103-121.	2.5	89
75	Where Do Solar Filaments Form?: Consequences forÂTheoretical Models. Solar Physics, 2008, 248, 51-65.	2.5	48
76	Exploring the Physical Basis of Solar Cycle Predictions: Flux Transport Dynamics and Persistence of Memory in Advectionâ€•versus Diffusionâ€dominated Solar Convection Zones. Astrophysical Journal, 2008, 673, 544-556.	4.5	155
77	Evolution and Distribution of Current Helicity in Full-Sun Simulations. Astrophysical Journal, 2008, 680, L165-L168.	4.5	30
78	Modelling the Global Solar Corona: Filament Chirality Observations and Surface Simulations. Solar Physics, 2007, 245, 87-107.	2.5	83