

# Anthony R Yeates

## List of Publications by Year in descending order

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78  
papers

2,185  
citations

172457

29  
h-index

233421

45  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the Physical Basis of Solar Cycle Predictions: Flux Transport Dynamics and Persistence of Memory in Advectionâ€versus Diffusionâ€dominated Solar Convection Zones. <i>Astrophysical Journal</i> , 2008, 673, 544-556.	4.5	155
2	The Sun's Global Photospheric and Coronal Magnetic Fields: Observations and Models. <i>Living Reviews in Solar Physics</i> , 2012, 9, 1.	22.0	152
3	The Open Flux Problem. <i>Astrophysical Journal</i> , 2017, 848, 70.	4.5	135
4	Modelling the Global Solar Corona II: Coronal Evolution and Filament Chirality Comparison. <i>Solar Physics</i> , 2008, 247, 103-121.	2.5	89
5	Modelling the Global Solar Corona: Filament Chirality Observations and Surface Simulations. <i>Solar Physics</i> , 2007, 245, 87-107.	2.5	83
6	A DOUBLE-RING ALGORITHM FOR MODELING SOLAR ACTIVE REGIONS: UNIFYING KINEMATIC DYNAMO MODELS AND SURFACE FLUX-TRANSPORT SIMULATIONS. <i>Astrophysical Journal Letters</i> , 2010, 720, L20-L25.	8.3	61
7	Coronal Magnetic Field Evolution from 1996 to 2012: Continuous Non-potential Simulations. <i>Solar Physics</i> , 2014, 289, 631-648.	2.5	58
8	SMALL-SCALE AND GLOBAL DYNAMOS AND THE AREA AND FLUX DISTRIBUTIONS OF ACTIVE REGIONS, SUNSPOT GROUPS, AND SUNSPOTS: A MULTI-DATABASE STUDY. <i>Astrophysical Journal</i> , 2015, 800, 48.	4.5	58
9	Topological Constraints on Magnetic Relaxation. <i>Physical Review Letters</i> , 2010, 105, 085002.	7.8	57
10	INITIATION OF CORONAL MASS EJECTIONS IN A GLOBAL EVOLUTION MODEL. <i>Astrophysical Journal</i> , 2009, 699, 1024-1037.	4.5	54
11	Kinematic active region formation in a three-dimensional solar dynamo model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 3366-3379.	4.4	52
12	PATHWAYS OF LARGE-SCALE MAGNETIC COUPLINGS BETWEEN SOLAR CORONAL EVENTS. <i>Astrophysical Journal</i> , 2013, 773, 93.	4.5	50
13	Where Do Solar Filaments Form?: Consequences for Theoretical Models. <i>Solar Physics</i> , 2008, 248, 51-65.	2.5	48
14	ON THE HELICITY OF OPEN MAGNETIC FIELDS. <i>Astrophysical Journal</i> , 2014, 787, 100.	4.5	47
15	Global Non-Potential Magnetic Models of the Solar Corona During the March 2015 Eclipse. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	45
16	pfsspy: A Python package for potential field source surface modelling. <i>Journal of Open Source Software</i> , 2020, 5, 2732.	4.6	45
17	A nonpotential model for the Sun's open magnetic flux. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	44
18	CHIRALITY OF HIGH-LATITUDE FILAMENTS OVER SOLAR CYCLE 23. <i>Astrophysical Journal Letters</i> , 2012, 753, L34.	8.3	44

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19	Evolution of field line helicity during magnetic reconnection. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	44
20	Source of a Prominent Poleward Surge During Solar Cycle 24. <i>Solar Physics</i> , 2015, 290, 3189-3201.	2.5	42
21	Heating of braided coronal loops. <i>Astronomy and Astrophysics</i> , 2011, 536, A67.	5.1	40
22	Modelling the Global Solar Corona: III. Origin of the Hemispheric Pattern of Filaments. <i>Solar Physics</i> , 2009, 254, 77-88.	2.5	39
23	The global distribution of magnetic helicity in the solar corona. <i>Astronomy and Astrophysics</i> , 2016, 594, A98.	5.1	32
24	DETECTION OF COHERENT STRUCTURES IN PHOTOSPHERIC TURBULENT FLOWS. <i>Astrophysical Journal</i> , 2014, 786, 51.	4.5	31
25	Evolution and Distribution of Current Helicity in Full-Sun Simulations. <i>Astrophysical Journal</i> , 2008, 680, L165-L168.	4.5	30
26	COMPARISON OF A GLOBAL MAGNETIC EVOLUTION MODEL WITH OBSERVATIONS OF CORONAL MASS EJECTIONS. <i>Astrophysical Journal</i> , 2010, 709, 1238-1248.	4.5	30
27	OBSERVATIONS OF A HYBRID DOUBLE-STREAMER/PSEUDOSTREAMER IN THE SOLAR CORONA. <i>Astrophysical Journal Letters</i> , 2014, 787, L3.	8.3	30
28	A generalized flux function for three-dimensional magnetic reconnection. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	29
29	Unique topological characterization of braided magnetic fields. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	29
30	Parameter optimization for surface flux transport models. <i>Astronomy and Astrophysics</i> , 2017, 607, A76.	5.1	28
31	Lagrangian coherent structures in photospheric flows and their implications for coronal magnetic structure. <i>Astronomy and Astrophysics</i> , 2012, 539, A1.	5.1	26
32	A NEW TECHNIQUE FOR THE PHOTOSPHERIC DRIVING OF NON-POTENTIAL SOLAR CORONAL MAGNETIC FIELD SIMULATIONS. <i>Astrophysical Journal</i> , 2016, 823, 55.	4.5	24
33	A Model for Coronal Hole Bright Points and Jets Due to Moving Magnetic Elements. <i>Astrophysical Journal</i> , 2018, 864, 165.	4.5	22
34	How Many Active Regions Are Necessary to Predict the Solar Dipole Moment?. <i>Astrophysical Journal</i> , 2018, 863, 116.	4.5	22
35	IMPACT OF AN L5 MAGNETOGRAPH ON NONPOTENTIAL SOLAR GLOBAL MAGNETIC FIELD MODELING. <i>Astrophysical Journal</i> , 2016, 825, 131.	4.5	21
36	Magnetic Flux Rope Identification and Characterization from Observationally Driven Solar Coronal Models. <i>Astrophysical Journal</i> , 2017, 846, 106.	4.5	21

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37	The coronal energy input from magnetic braiding. <i>Astronomy and Astrophysics</i> , 2014, 564, A131.	5.1	19
38	Stellar coronal response to differential rotation and flux emergence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 3624-3637.	4.4	19
39	Towards an algebraic method of solar cycle prediction. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 50.	3.3	19
40	Dynamical constraints from field line topology in magnetic flux tubes. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 265501.	2.1	18
41	Magnetic Structures at the Boundary of the Closed Corona: Interpretation of S-Web Arcs. <i>Astrophysical Journal</i> , 2018, 869, 60.	4.5	18
42	How Good Is the Bipolar Approximation of Active Regions for Surface Flux Transport?. <i>Solar Physics</i> , 2020, 295, 1.	2.5	18
43	Physical role of topological constraints in localized magnetic relaxation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150012.	2.1	17
44	Magnetic Helicity Condensation and the Solar Cycle. <i>Astrophysical Journal</i> , 2018, 869, 62.	4.5	17
45	THE POSSIBLE IMPACT OF L5 MAGNETOGRAMS ON NON-POTENTIAL SOLAR CORONAL MAGNETIC FIELD SIMULATIONS. <i>Astrophysical Journal</i> , 2016, 828, 102.	4.5	15
46	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. <i>Astrophysical Journal</i> , 2018, 853, 72.	4.5	15
47	Relative field-line helicity in bounded domains. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	15
48	Impact of Inner Heliospheric Boundary Conditions on Solar Wind Predictions at Earth. <i>Space Weather</i> , 2021, 19, e2020SW002499.	3.7	15
49	A complete topological invariant for braided magnetic fields. <i>Journal of Physics: Conference Series</i> , 2014, 544, 012002.	0.4	13
50	Influence of Non-Potential Coronal Magnetic Topology on Solar-Wind Models. <i>Solar Physics</i> , 2015, 290, 2791-2808.	2.5	13
51	Twisted versus braided magnetic flux ropes in coronal geometry. <i>Astronomy and Astrophysics</i> , 2016, 591, A16.	5.1	13
52	Twisted versus braided magnetic flux ropes in coronal geometry. <i>Astronomy and Astrophysics</i> , 2016, 587, A125.	5.1	12
53	Quantifying reconnective activity in braided vector fields. <i>Physical Review E</i> , 2018, 98, 013204.	2.1	11
54	Two Classes of Eruptive Events During Solar Minimum. <i>Solar Physics</i> , 2021, 296, 1.	2.5	10

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55	Sparse Reconstruction of Electric Fields from Radial Magnetic Data. <i>Astrophysical Journal</i> , 2017, 836, 131.	4.5	9
56	Estimating the Rate of Field Line Braiding in the Solar Corona by Photospheric Flows. <i>Astrophysical Journal</i> , 2018, 864, 157.	4.5	9
57	Global Coronal Equilibria with Solar Wind Outflow. <i>Astrophysical Journal</i> , 2021, 923, 57.	4.5	9
58	The need for active region disconnection in 3D kinematic dynamo simulations. <i>Astronomy and Astrophysics</i> , 2019, 627, A168.	5.1	8
59	Solar Cycle Variation of Magnetic Flux Ropes in a Quasi-Static Coronal Evolution Model. <i>Solar Physics</i> , 2010, 263, 121-134.	2.5	7
60	Using topology to locate the position where fully three-dimensional reconnection occurs. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	6
61	The Minimal Helicity of Solar Coronal Magnetic Fields. <i>Astrophysical Journal Letters</i> , 2020, 898, L49.	8.3	6
62	Hemispheric injection of magnetic helicity by surface flux transport. <i>Astronomy and Astrophysics</i> , 2019, 631, A138.	5.1	5
63	On the limitations of magneto-frictional relaxation. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2022, 116, 305-320.	1.2	5
64	Magnetohydrodynamic Relaxation Theory. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2020, , 117-143.	0.6	4
65	Eruptivity Criteria for Two-Dimensional Magnetic Flux Ropes in the Solar Corona. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	2.8	4
66	Evolution of field line helicity in magnetic relaxation. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	3
67	Additivity of relative magnetic helicity in finite volumes. <i>Astronomy and Astrophysics</i> , 2020, 643, A26.	5.1	3
68	Where Do Solar Filaments Form?. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 445-446.	0.0	2
69	Magnetic reconnection now and in the future. <i>Astronomy and Geophysics</i> , 2015, 56, 6.18-6.23.	0.2	2
70	Optimal unstirred state of a passive scalar. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	2
71	Coronal Magnetic Field Evolution from 1996 to 2012: Continuous Non-potential Simulations. , 2013, , 195-212.		2
72	Exploring the Origin of Stealth Coronal Mass Ejections with Magnetofrictional Simulations. <i>Solar Physics</i> , 2022, 297, 1.	2.5	2

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73	A Comparison of Sparse and Non-sparse Techniques for Electric-Field Inversion from Normal-Component Magnetograms. <i>Solar Physics</i> , 2021, 296, 1.	2.5	2
74	Hemispheric Patterns in Filament Chirality and Sigmoid Shape over the Solar Cycle. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 135-138.	0.0	1
75	A Prominence Puzzle Explained?. , 2009, , .		0
76	Evolution of Current Helicity in Full-Sun Simulations. , 2009, , .		0
77	Explaining the Hemispheric Pattern of Filament Chirality. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 172-175.	0.0	0
78	The global distribution of magnetic helicity in the solar corona <i>(Corrigendum)</i>. <i>Astronomy and Astrophysics</i> , 2017, 603, C2.	5.1	0