

Sean P Matt

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,828
citations

159585

30
h-index

175258

52
g-index

63
all docs

63
docs citations

63
times ranked

1711
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Differential Rotation on the Magnetic Braking of Low-mass and Solar-like Stars: A Proof-of-concept Study. <i>Astrophysical Journal</i> , 2022, 925, 100.	4.5	5
2	Magnetic Braking of Accreting T Tauri Stars II: Torque Formulation Spanning Spin-up and Spin-down Regimes. <i>Astrophysical Journal</i> , 2022, 929, 65.	4.5	7
3	Statistical Fitting of Evolutionary Models to Rotation Rates of Sun-like Stars. <i>Astrophysical Journal</i> , 2021, 913, 75.	4.5	8
4	Photometric Variability as a Proxy for Magnetic Activity and Its Dependence on Metallicity. <i>Astrophysical Journal</i> , 2021, 912, 127.	4.5	23
5	The contribution of alpha particles to the solar wind angular momentum flux in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, A17.	5.1	11
6	Magnetic Braking of Accreting T Tauri Stars: Effects of Mass Accretion Rate, Rotation, and Dipolar Field Strength. <i>Astrophysical Journal</i> , 2021, 906, 4.	4.5	21
7	Evidence for metallicity-dependent spin evolution in the Kepler field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 3481-3493.	4.4	23
8	On the origin of the bimodal rotational velocity distribution in stellar clusters: rotation on the pre-main sequence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 1978-1983.	4.4	19
9	The Impact of Metallicity on the Evolution of the Rotation and Magnetic Activity of Sun-like Stars. <i>Astrophysical Journal</i> , 2020, 889, 108.	4.5	37
10	How Much Do Underestimated Field Strengths from Zeeman-Doppler Imaging Affect Spin-down Torque Estimates?. <i>Astrophysical Journal</i> , 2020, 894, 69.	4.5	7
11	Alfvén-wave-driven Magnetic Rotator Winds from Low-mass Stars. I. Rotation Dependences of Magnetic Braking and Mass-loss Rate. <i>Astrophysical Journal</i> , 2020, 896, 123.	4.5	30
12	When Do Stalled Stars Resume Spinning Down? Advancing Gyrochronology with Ruprecht 147. <i>Astrophysical Journal</i> , 2020, 904, 140.	4.5	89
13	The Solar Wind Angular Momentum Flux as Observed by Parker Solar Probe. <i>Astrophysical Journal Letters</i> , 2020, 902, L4.	8.3	11
14	Direct Detection of Solar Angular Momentum Loss with the Wind Spacecraft. <i>Astrophysical Journal Letters</i> , 2019, 885, L30.	8.3	20
15	Estimating Magnetic Filling Factors from Zeeman-Doppler Magnetograms. <i>Astrophysical Journal</i> , 2019, 876, 118.	4.5	59
16	Solar Angular Momentum Loss over the Past Several Millennia. <i>Astrophysical Journal</i> , 2019, 883, 67.	4.5	13
17	Do Non-dipolar Magnetic Fields Contribute to Spin-down Torques?. <i>Astrophysical Journal</i> , 2019, 886, 120.	4.5	45
18	The Effect of Magnetic Variability on Stellar Angular Momentum Loss. II. The Sun, 61 Cygni A, μ Eridani, $\frac{1}{4}$ Bootis A, and $\dot{\iota}$, Bootis A. <i>Astrophysical Journal</i> , 2019, 876, 44.	4.5	13

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19	The Effect of Combined Magnetic Geometries on Thermally Driven Winds. II. Dipolar, Quadrupolar, and Octupolar Topologies. <i>Astrophysical Journal</i> , 2018, 854, 78.	4.5	58
20	Erratum –The Effect of Combined Magnetic Geometries on Thermally Driven Winds. II. Dipolar, Quadrupolar, and Octupolar Topologies–(2018, ApJ, 854, 78). <i>Astrophysical Journal</i> , 2018, 857, 147.	4.5	0
21	The Effect of Magnetic Variability on Stellar Angular Momentum Loss. I. The Solar Wind Torque during Sunspot Cycles 23 and 24. <i>Astrophysical Journal</i> , 2018, 864, 125.	4.5	35
22	On Differential Rotation and Overshooting in Solar-like Stars. <i>Astrophysical Journal</i> , 2017, 836, 192.	4.5	101
23	The Effect of Combined Magnetic Geometries on Thermally Driven Winds. I. Interaction of Dipolar and Quadrupolar Fields. <i>Astrophysical Journal</i> , 2017, 845, 46.	4.5	33
24	Magnetic Braking of Sun-like and Low-mass Stars: Dependence on Coronal Temperature. <i>Astrophysical Journal</i> , 2017, 849, 83.	4.5	35
25	A path towards understanding the rotation–activity relation of M dwarfs with K2 mission, X-ray and UV data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 1844-1864.	4.4	65
26	MAGNETIC GAMES BETWEEN A PLANET AND ITS HOST STAR: THE KEY ROLE OF TOPOLOGY. <i>Astrophysical Journal</i> , 2015, 815, 111.	4.5	78
27	The role of complex magnetic topologies on stellar spin-down. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 297-302.	0.0	0
28	FROM SOLAR TO STELLAR CORONA: THE ROLE OF WIND, ROTATION, AND MAGNETISM. <i>Astrophysical Journal</i> , 2015, 814, 99.	4.5	57
29	THE EFFECT OF MAGNETIC TOPOLOGY ON THERMALLY DRIVEN WIND: TOWARD A GENERAL FORMULATION OF THE BRAKING LAW. <i>Astrophysical Journal</i> , 2015, 798, 116.	4.5	166
30	THE MASS-DEPENDENCE OF ANGULAR MOMENTUM EVOLUTION IN SUN-LIKE STARS. <i>Astrophysical Journal Letters</i> , 2015, 799, L23.	8.3	230
31	ON THE DIVERSITY OF MAGNETIC INTERACTIONS IN CLOSE-IN STAR-PLANET SYSTEMS. <i>Astrophysical Journal</i> , 2014, 795, 86.	4.5	87
32	The Early History of Stellar Spin: the Theory of Accretion onto Young Stellar Objects. <i>EPJ Web of Conferences</i> , 2014, 64, 04001.	0.3	1
33	Coronal Mass Ejections and Angular Momentum Loss in Young Stars. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 318-321.	0.0	2
34	Modeling magnetized star-planet interactions: boundary conditions effects. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 330-334.	0.0	2
35	SPIN EVOLUTION OF ACCRETING YOUNG STARS. II. EFFECT OF ACCRETION-POWERED STELLAR WINDS. <i>Astrophysical Journal</i> , 2012, 745, 101.	4.5	65
36	MASS LOSS IN PRE-MAIN-SEQUENCE STARS VIA CORONAL MASS EJECTIONS AND IMPLICATIONS FOR ANGULAR MOMENTUM LOSS. <i>Astrophysical Journal</i> , 2012, 760, 9.	4.5	88

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37	MAGNETIC BRAKING FORMULATION FOR SUN-LIKE STARS: DEPENDENCE ON DIPOLE FIELD STRENGTH AND ROTATION RATE. <i>Astrophysical Journal Letters</i> , 2012, 754, L26.	8.3	175
38	A SEARCH FOR STAR-DISK INTERACTION AMONG THE STRONGEST X-RAY FLARING STARS IN THE ORION NEBULA CLUSTER. <i>Astrophysical Journal</i> , 2010, 717, 93-106.	4.5	23
39	SPIN EVOLUTION OF ACCRETING YOUNG STARS. I. EFFECT OF MAGNETIC STAR-DISK COUPLING. <i>Astrophysical Journal</i> , 2010, 714, 989-1000.	4.5	61
40	New Calculations of Stellar Wind Torques. , 2009, , .		1
41	The rotation-magnetic field relation. , 2009, , .		1
42	T Tauri Angular Momentum Loss via Large Scale Eruptive Flaring Events. , 2009, , .		3
43	Soft X-rays from DG Tau: A physical Jet Model. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2009, , 543-545.	0.3	0
44	The non-dipolar magnetic fields of accreting T Tauri stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 389, 1839-1850.	4.4	52
45	Accretion-powered Stellar Winds. II. Numerical Solutions for Stellar Wind Torques. <i>Astrophysical Journal</i> , 2008, 678, 1109-1118.	4.5	148
46	Accretion-powered Stellar Winds. III. Spin-Equilibrium Solutions. <i>Astrophysical Journal</i> , 2008, 681, 391-399.	4.5	69
47	Physical Conditions of Accreting Gas in T Tauri Star Systems. <i>Astrophysical Journal</i> , 2008, 687, 376-388.	4.5	32
48	The nature of stellar winds in the star-disk interaction. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 299-306.	0.0	22
49	Measuring the physical conditions of accreting gas in T Tauri systems. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 95-102.	0.0	0
50	Astrophysical Explosions Driven by a Rotating, Magnetized, Gravitating Sphere. <i>Astrophysical Journal</i> , 2006, 647, L45-L48.	4.5	38
51	Accretion-powered Stellar Winds as a Solution to the Stellar Angular Momentum Problem. <i>Astrophysical Journal</i> , 2005, 632, L135-L138.	4.5	266
52	The spin of accreting stars: dependence on magnetic coupling to the disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 356, 167-182.	4.4	115
53	Simultaneous Production of Disk and Lobes: A Single-Wind MHD Model for the $\hat{\iota}$ Carinae Nebula. <i>Astrophysical Journal</i> , 2004, 615, 921-933.	4.5	38
54	Does Disk Locking Solve the Stellar Angular Momentum Problem?. <i>Astrophysical Journal</i> , 2004, 607, L43-L46.	4.5	34

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55	Collimation of a Central Wind by a Disk-Associated Magnetic Field. <i>Astrophysics and Space Science</i> , 2003, 287, 65-68.	1.4	5
56	Collimation of a central wind by a disc-associated magnetic field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 345, 660-670.	4.4	29
57	The Enigmatic HH 255. <i>Publications of the Astronomical Society of the Pacific</i> , 2003, 115, 334-341.	3.1	4
58	Collimation of a Central Wind By a Disk-Associated Magnetic Field. , 2003, , 65-68.		0
59	Simulation-based Investigation of a Model for the Interaction between Stellar Magnetospheres and Circumstellar Accretion Disks. <i>Astrophysical Journal</i> , 2002, 574, 232-245.	4.5	62
60	An Approximate Determination of the Gas-Phase Metal Abundance in Herbig-Haro Outflows and Their Shocks. <i>Publications of the Astronomical Society of the Pacific</i> , 2001, 113, 158-164.	3.1	17
61	Disk Formation by Asymptotic Giant Branch Winds in Dipole Magnetic Fields. <i>Astrophysical Journal</i> , 2000, 545, 965-973.	4.5	67
62	A statistical evaluation of ballistic backmapping for the slow solar wind: The interplay of solar wind acceleration and corotation. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	9