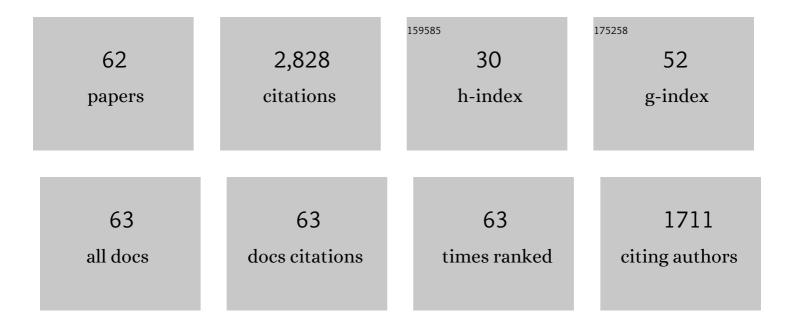
## Sean P Matt

List of Publications by Year in descending order

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**SEAN D ΜΑΤΤ** 

#	Article	IF	CITATIONS
1	Accretion-powered Stellar Winds as a Solution to the Stellar Angular Momentum Problem. Astrophysical Journal, 2005, 632, L135-L138.	4.5	266
2	THE MASS-DEPENDENCE OF ANGULAR MOMENTUM EVOLUTION IN SUN-LIKE STARS. Astrophysical Journal Letters, 2015, 799, L23.	8.3	230
3	MAGNETIC BRAKING FORMULATION FOR SUN-LIKE STARS: DEPENDENCE ON DIPOLE FIELD STRENGTH AND ROTATION RATE. Astrophysical Journal Letters, 2012, 754, L26.	8.3	175
4	THE EFFECT OF MAGNETIC TOPOLOGY ON THERMALLY DRIVEN WIND: TOWARD A GENERAL FORMULATION OF THE BRAKING LAW. Astrophysical Journal, 2015, 798, 116.	4.5	166
5	Accretionâ€powered Stellar Winds. II. Numerical Solutions for Stellar Wind Torques. Astrophysical Journal, 2008, 678, 1109-1118.	4.5	148
6	The spin of accreting stars: dependence on magnetic coupling to the disc. Monthly Notices of the Royal Astronomical Society, 2005, 356, 167-182.	4.4	115
7	On Differential Rotation and Overshooting in Solar-like Stars. Astrophysical Journal, 2017, 836, 192.	4.5	101
8	When Do Stalled Stars Resume Spinning Down? Advancing Gyrochronology with Ruprecht 147. Astrophysical Journal, 2020, 904, 140.	4.5	89
9	MASS LOSS IN PRE-MAIN-SEQUENCE STARS VIA CORONAL MASS EJECTIONS AND IMPLICATIONS FOR ANGULAR MOMENTUM LOSS. Astrophysical Journal, 2012, 760, 9.	4.5	88
10	ON THE DIVERSITY OF MAGNETIC INTERACTIONS IN CLOSE-IN STAR-PLANET SYSTEMS. Astrophysical Journal, 2014, 795, 86.	4.5	87
11	MAGNETIC GAMES BETWEEN A PLANET AND ITS HOST STAR: THE KEY ROLE OF TOPOLOGY. Astrophysical Journal, 2015, 815, 111.	4.5	78
12	Accretionâ€powered Stellar Winds. III. Spinâ€Equilibrium Solutions. Astrophysical Journal, 2008, 681, 391-399.	4.5	69
13	Disk Formation by Asymptotic Giant Branch Winds in Dipole Magnetic Fields. Astrophysical Journal, 2000, 545, 965-973.	4.5	67
14	SPIN EVOLUTION OF ACCRETING YOUNG STARS. II. EFFECT OF ACCRETION-POWERED STELLAR WINDS. Astrophysical Journal, 2012, 745, 101.	4.5	65
15	A path towards understanding the rotation–activity relation of M dwarfs with K2 mission, X-ray and UV data. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1844-1864.	4.4	65
16	Simulationâ€based Investigation of a Model for the Interaction between Stellar Magnetospheres and Circumstellar Accretion Disks. Astrophysical Journal, 2002, 574, 232-245.	4.5	62
17	SPIN EVOLUTION OF ACCRETING YOUNG STARS. I. EFFECT OF MAGNETIC STAR-DISK COUPLING. Astrophysical Journal, 2010, 714, 989-1000.	4.5	61
18	Estimating Magnetic Filling Factors from Zeeman–Doppler Magnetograms. Astrophysical Journal, 2019, 876, 118.	4.5	59

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19	The Effect of Combined Magnetic Geometries on Thermally Driven Winds. II. Dipolar, Quadrupolar, and Octupolar Topologies. Astrophysical Journal, 2018, 854, 78.	4.5	58
20	FROM SOLAR TO STELLAR CORONA: THE ROLE OF WIND, ROTATION, AND MAGNETISM. Astrophysical Journal, 2015, 814, 99.	4.5	57
21	The non-dipolar magnetic fields of accreting T Tauri stars. Monthly Notices of the Royal Astronomical Society, 2008, 389, 1839-1850.	4.4	52
22	Do Non-dipolar Magnetic Fields Contribute to Spin-down Torques?. Astrophysical Journal, 2019, 886, 120.	4.5	45
23	Simultaneous Production of Disk and Lobes: A Singleâ€Wind MHD Model for the η Carinae Nebula. Astrophysical Journal, 2004, 615, 921-933.	4.5	38
24	Astrophysical Explosions Driven by a Rotating, Magnetized, Gravitating Sphere. Astrophysical Journal, 2006, 647, L45-L48.	4.5	38
25	The Impact of Metallicity on the Evolution of the Rotation and Magnetic Activity of Sun-like Stars. Astrophysical Journal, 2020, 889, 108.	4.5	37
26	Magnetic Braking of Sun-like and Low-mass Stars: Dependence on Coronal Temperature. Astrophysical Journal, 2017, 849, 83.	4.5	35
27	The Effect of Magnetic Variability on Stellar Angular Momentum Loss. I. The Solar Wind Torque during Sunspot Cycles 23 and 24. Astrophysical Journal, 2018, 864, 125.	4.5	35
28	Does Disk Locking Solve the Stellar Angular Momentum Problem?. Astrophysical Journal, 2004, 607, L43-L46.	4.5	34
29	The Effect of Combined Magnetic Geometries on Thermally Driven Winds. I. Interaction of Dipolar and Quadrupolar Fields. Astrophysical Journal, 2017, 845, 46.	4.5	33
30	Physical Conditions of Accreting Gas in T Tauri Star Systems. Astrophysical Journal, 2008, 687, 376-388.	4.5	32
31	Alfvén-wave-driven Magnetic Rotator Winds from Low-mass Stars. I. Rotation Dependences of Magnetic Braking and Mass-loss Rate. Astrophysical Journal, 2020, 896, 123.	4.5	30
32	Collimation of a central wind by a disc-associated magnetic field. Monthly Notices of the Royal Astronomical Society, 2003, 345, 660-670.	4.4	29
33	A SEARCH FOR STAR-DISK INTERACTION AMONG THE STRONGEST X-RAY FLARING STARS IN THE ORION NEBULA CLUSTER. Astrophysical Journal, 2010, 717, 93-106.	4.5	23
34	Evidence for metallicity-dependent spin evolution in the Kepler field. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3481-3493.	4.4	23
35	Photometric Variability as a Proxy for Magnetic Activity and Its Dependence on Metallicity. Astrophysical Journal, 2021, 912, 127.	4.5	23
36	The nature of stellar winds in the star-disk interaction. Proceedings of the International Astronomical Union, 2007, 3, 299-306.	0.0	22

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37	Magnetic Braking of Accreting T Tauri Stars: Effects of Mass Accretion Rate, Rotation, and Dipolar Field Strength. Astrophysical Journal, 2021, 906, 4.	4.5	21
38	Direct Detection of Solar Angular Momentum Loss with the Wind Spacecraft. Astrophysical Journal Letters, 2019, 885, L30.	8.3	20
39	On the origin of the bimodal rotational velocity distribution in stellar clusters: rotation on the pre-main sequence. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1978-1983.	4.4	19
40	An Approximate Determination of the Casâ€Phase Metal Abundance in Herbigâ€Haro Outflows and Their Shocks. Publications of the Astronomical Society of the Pacific, 2001, 113, 158-164.	3.1	17
41	Solar Angular Momentum Loss over the Past Several Millennia. Astrophysical Journal, 2019, 883, 67.	4.5	13
42	The Effect of Magnetic Variability on Stellar Angular Momentum Loss. II. The Sun, 61 Cygni A, ϵ Eridani, ξ Bootis A, and Ï,, Bootis A. Astrophysical Journal, 2019, 876, 44.	4.5	13
43	The contribution of alpha particles to the solar wind angular momentum flux in the inner heliosphere. Astronomy and Astrophysics, 2021, 650, A17.	5.1	11
44	The Solar Wind Angular Momentum Flux as Observed by Parker Solar Probe. Astrophysical Journal Letters, 2020, 902, L4.	8.3	11
45	A statistical evaluation of ballistic backmapping for the slow solar wind: The interplay of solar wind acceleration and corotation. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	9
46	Statistical Fitting of Evolutionary Models to Rotation Rates of Sun-like Stars. Astrophysical Journal, 2021, 913, 75.	4.5	8
47	How Much Do Underestimated Field Strengths from Zeeman–Doppler Imaging Affect Spin-down Torque Estimates?. Astrophysical Journal, 2020, 894, 69.	4.5	7
48	Magnetic Braking of Accreting T Tauri Stars II: Torque Formulation Spanning Spin-up and Spin-down Regimes. Astrophysical Journal, 2022, 929, 65.	4.5	7
49	Collimation of a Central Wind by a Disk-Associated Magnetic Field. Astrophysics and Space Science, 2003, 287, 65-68.	1.4	5
50	Effect of Differential Rotation on the Magnetic Braking of Low-mass and Solar-like Stars: A Proof-of-concept Study. Astrophysical Journal, 2022, 925, 100.	4.5	5
51	The Enigmatic HH 255. Publications of the Astronomical Society of the Pacific, 2003, 115, 334-341.	3.1	4
52	T Tauri Angular Momentum Loss via Large Scale Eruptive Flaring Events. , 2009, , .		3
53	Coronal Mass Ejections and Angular Momentum Loss in Young Stars. Proceedings of the International Astronomical Union, 2013, 8, 318-321.	0.0	2
54	Modeling magnetized star-planet interactions: boundary conditions effects. Proceedings of the International Astronomical Union, 2013, 8, 330-334.	0.0	2

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#	Article	IF	CITATIONS
55	New Calculations of Stellar Wind Torques. , 2009, , .		1
56	The rotation-magnetic field relation. , 2009, , .		1
57	The Early History of Stellar Spin: the Theory of Accretion onto Young Stellar Objects. EPJ Web of Conferences, 2014, 64, 04001.	0.3	1
58	Measuring the physical conditions of accreting gas in T Tauri systems. Proceedings of the International Astronomical Union, 2007, 3, 95-102.	0.0	0
59	The role of complex magnetic topologies on stellar spin-down. Proceedings of the International Astronomical Union, 2015, 11, 297-302.	0.0	0
60	Erratum "The Effect of Combined Magnetic Geometries on Thermally Driven Winds. II. Dipolar, Quadrupolar, and Octupolar Topologies―(2018, ApJ, 854, 78). Astrophysical Journal, 2018, 857, 147.	4.5	0
61	Collimation of a Central Wind By a Disk-Associated Magnetic Field. , 2003, , 65-68.		0
62	Soft X-rays from DG Tau: A physical Jet Model. Thirty Years of Astronomical Discovery With UKIRT, 2009, , 543-545.	0.3	0