

M A Berger

List of Publications by Year in descending order

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22
papers

795
citations

687363

13
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

506
citing authors

#	ARTICLE	IF	CITATIONS
1	Photospheric flux density of magnetic helicity. <i>Astronomy and Astrophysics</i> , 2005, 439, 1191-1203.	5.1	130
2	The writhe of helical structures in the solar corona. <i>Astronomy and Astrophysics</i> , 2010, 516, A49.	5.1	109
3	Structure and stability of constant-alpha force-free fields. <i>Astrophysical Journal, Supplement Series</i> , 1985, 59, 433.	7.7	94
4	Energy-crossing number relations for braided magnetic fields. <i>Physical Review Letters</i> , 1993, 70, 705-708.	7.8	68
5	ON THE RELATIONSHIP BETWEEN PHOTOSPHERIC FOOTPOINT MOTIONS AND CORONAL HEATING IN SOLAR ACTIVE REGIONS. <i>Astrophysical Journal</i> , 2014, 787, 87.	4.5	61
6	A Morphological Study of Helical Coronal Magnetic Structures. <i>Astrophysical Journal</i> , 2003, 589, 644-657.	4.5	56
7	Magnetic helicity in a periodic domain. <i>Journal of Geophysical Research</i> , 1997, 102, 2637-2644.	3.3	55
8	Basic Properties of Mutual Magnetic Helicity. <i>Solar Physics</i> , 2006, 233, 3-27.	2.5	47
9	Third-order link integrals. <i>Journal of Physics A</i> , 1990, 23, 2787-2793.	1.6	38
10	On the relationship between the topology of magnetic field lines and flux surfaces. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1989, 48, 251-271.	1.2	23
11	Third-order braid invariants. <i>Journal of Physics A</i> , 1991, 24, 4027-4036.	1.6	23
12	A generalized poloidal-toroidal decomposition and an absolute measure of helicity. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 495501.	2.1	19
13	Minimum crossing numbers for 3-braids. <i>Journal of Physics A</i> , 1994, 27, 6205-6213.	1.6	18
14	On the Shape of Force-Free Field Lines in the Solar Corona. <i>Solar Physics</i> , 2012, 278, 323-345.	2.5	14
15	The random walk winding number problem: convergence to a diffusion process with excluded area. <i>Journal of Physics A</i> , 1987, 20, 5949-5960.	1.6	11
16	In search of minimal random braid configurations. <i>Journal of Physics A</i> , 2002, 35, 43-59.	1.6	10
17	Self-organized braiding in solar coronal loops. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	7
18	Spatial scales and locality of magnetic helicity. <i>Astronomy and Astrophysics</i> , 2020, 635, A95.	5.1	5

#	ARTICLE	IF	CITATIONS
19	On the winding number problem with finite steps. <i>Advances in Applied Probability</i> , 1988, 20, 261-274.	0.7	3
20	Helicity, linking, and writhe in a spherical geometry. <i>Journal of Physics: Conference Series</i> , 2014, 544, 012001.	0.4	3
21	Topological methods in astrophysics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2001, 359, 1439-1448.	3.4	1
22	The Small-Scale Structure of Coronal Loops. <i>International Astronomical Union Colloquium</i> , 1994, 144, 189-193.	0.1	0