

Donald B Melrose

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364
papers

8,014
citations

46
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73
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378
ext. papers

8,456
ext. citations

3.6
avg, IF

6.3
L-index

#	Paper	IF	Citations
364	Instabilities in Space and Laboratory Plasmas 1986 ,		401
363	Electron-cyclotron masers as the source of certain solar and stellar radio bursts. <i>Astrophysical Journal</i> , 1982 , 259, 844	4.7	351
362	Production of a collisionless conduction front by rapid coronal heating and its role in solar hard X-ray bursts. <i>Astrophysical Journal</i> , 1979 , 228, 592	4.7	168
361	The Origin of Cosmic Rays above 10 ^{18.5} eV. <i>Astrophysical Journal</i> , 1995 , 454, 60	4.7	168
360	The emission mechanisms for solar radio bursts. <i>Space Science Reviews</i> , 1980 , 26, 3-38	7.5	155
359	Precipitation in Trap Models for Solar Hard X-ray Bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 1976 , 176, 15-30	4.3	139
358	Reduction of feynman diagrams 1965 , 40, 181-213		122
357	Electron-cyclotron maser emission: Relative growth and damping rates for different modes and harmonics. <i>Journal of Geophysical Research</i> , 1984 , 89, 897		121
356	An interpretation of Jupiter's decametric radiation and the terrestrial kilometric radiation as direct amplified gyroemission. <i>Astrophysical Journal</i> , 1976 , 207, 651	4.7	118
355	Electromagnetic Processes in Dispersive Media 1991 ,		117
354	Terrestrial kilometric radiation: The cyclotron theory. <i>Journal of Geophysical Research</i> , 1982 , 87, 5140-5150		111
353	Coherent emission mechanisms in astrophysical plasmas. <i>Reviews of Modern Plasma Physics</i> , 2017 , 1, 1	5.6	107
352	The Loss-cone Driven Electron-cyclotron Maser. <i>Australian Journal of Physics</i> , 1982 , 35, 447		99
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349	Relativistic Plasma Emission and Pulsar Radio Emission: A Critique. <i>Astrophysical Journal</i> , 1999 , 521, 351-361	4.7	82
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- 346 Quantum Plasmadynamics. *Lecture Notes in Physics*, **2008**, 611, 1-10 0.8 79
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- 341 Interpretation of parabolic arcs in pulsar secondary spectra. *Monthly Notices of the Royal Astronomical Society*, **2004**, 354, 43-54 4.3 76
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- 338 Stellar wind and stellar disc models of dispersion and rotation measure variations in the PSR B1259-63/SS2883 binary system. *Monthly Notices of the Royal Astronomical Society*, **1995**, 275, 381-397 4.3 72
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- 312 Microstructures in type III events in the solar wind. *Solar Physics*, **1987**, 107, 329-350 2.6 44

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305	Dispersion in an intrinsically relativistic, one-dimensional, strongly magnetized pair plasma. <i>Journal of Plasma Physics</i> , 1999 , 62, 233-248	2.7	38
304	'Plasma Emission' without Langmuir Waves. <i>Australian Journal of Physics</i> , 1982 , 35, 67		38
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300	Pulsar radiation belts and transient radio emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007 , 378, 1481-1490	4.3	34
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298	Nonlinear dynamics of an ordinary electromagnetic mode in a pair plasma. <i>Physical Review E</i> , 1999 , 59, 4552-4558	2.4	33
297	Curvature maser emission due to field line torsion in pulsar magnetospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 1995 , 276, 372-382	4.3	33
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