Joel

List of Publications by Year
in descending order

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22 papers	159 citations	1478505 6 h-index	1199594 12 g-index
23 all docs	23 docs citations	23 times ranked	81 citing authors

#	Article	IF	Citations
1	Stark broadening of hydrogen lines in low-density magnetized plasmas. Physical Review E, 2009, 79, 046408.	2.1	50
2	Influence of correlated collisions on Stark-broadened lines in plasmas. Physical Review E, 2012, 86, 046407.	2.1	17
3	A new table of Balmer line shapes for the diagnostic of magnetic fusion plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 333-337.	2.3	16
4	Quantifying the statistical noise in computer simulations of Stark broadening. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 249, 107002.	2.3	12
5	A table of Balmer Î³ line shapes for the diagnostic of magnetic fusion plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 165, 102-107.	2.3	8
6	Radiative transfer with partial coherence in optically thick plasmas. Physical Review E, 2013, 87, 043108.	2.1	7
7	An analytical model for the Ly Î± redistribution function in conditions of tokamak edge plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 165701.	1.5	6
8	Report on the third SLSP code comparison workshop. High Energy Density Physics, 2017, 22, 60-63.	1.5	6
9	New analysis of Balmer line shapes in magnetic white dwarf atmospheres. European Physical Journal D, 2021, 75, 1.	1.3	6
10	Development of a hybrid kinetic-fluid model for line radiation transport in magnetic fusion plasmas. High Energy Density Physics, 2017, 22, 73-76.	1.5	5
11	Stark broadening of Balmer lines with low and moderate quantum number in dense divertor plasmas. Contributions To Plasma Physics, 2018, 58, 578-582.	1.1	5
12	Modeling of Starkâ€Broadened Lines in a Fluctuating Edge Plasma. Contributions To Plasma Physics, 2014, 54, 565-569.	1.1	4
13	Retaining space and time coherence in radiative transfer models. Physical Review E, 2015, 91, 053103.	2.1	4
14	Hybrid Formulation of Radiation Transport in Optically Thick Divertor Plasmas. Contributions To Plasma Physics, 2016, 56, 663-668.	1.1	4
15	Divergence of the Stark collision operator at large impact parameters in plasma spectroscopy models. Physical Review E, 2013, 88, 035101.	2.1	3
16	Modeling of photon trapping effects in high-density divertor plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 247, 106949.	2.3	2
17	Stark broadening of low-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si13.svg"><mml:mi>n</mml:mi></mml:math> hydrogen lines in strongly magnetized hydrogen plasmas: Influence of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.svg"><mml:mi>l</mml:mi></mml:math>-degeneracy removal due to the quadratic Zeeman effect. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 278, 108014.	2.3	2
18	Modeling of Starkâ€“Zeeman Lines in Magnetized Hydrogen Plasmas. Journal of Astrophysics and Astronomy, 2015, 36, 581.	1.0	1

#	Article	IF	Citations
19	Derivation of a Transport Equation for Line Radiation Using the Wigner Phase Space Formalism. Journal of Computational and Theoretical Transport, 2018, 47, 18-27.	0.8	1
20	Radiative Transfer Reconsidered as a Quantum Kinetic Theory Problem. Journal of Astrophysics and Astronomy, 2015, 36, 605.	1.0	0
21	Design of a Hybrid Monte Carlo Method for Line Radiation Transport Simulations in Magnetic Fusion. Journal of Computational and Theoretical Transport, 2018, 47, 46-57.	0.8	0
22	Collisional redistribution of hydrogen line radiation in low- and moderate-density magnetized plasmas. Physical Review E, 2021, 103, 053209.	2.1	0