

# Basil Jb Crowley

## List of Publications by Year in descending order

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16  
papers

350  
citations

933447

10  
h-index

940533

16  
g-index

16  
all docs

16  
docs citations

16  
times ranked

277  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of plasmas in an average-atom local density approximation: the CASSANDRA code. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 71, 257-272.	2.3	77
2	Continuum lowering – A new perspective. <i>High Energy Density Physics</i> , 2014, 13, 84-102.	1.5	72
3	Opacity measurements: Extending the range and filling in the gaps. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1997, 58, 415-425.	2.3	55
4	Measurements of emission spectra from hot, dense germanium plasma in short pulse laser experiments. <i>High Energy Density Physics</i> , 2010, 6, 105-108.	1.5	25
5	Heating of buried layer targets by 1f and 2f pulses using the HELEN CPA laser. <i>High Energy Density Physics</i> , 2007, 3, 115-119.	1.5	21
6	Quantum theory of Thomson scattering. <i>High Energy Density Physics</i> , 2014, 13, 55-83.	1.5	18
7	A semiclassical theory of elastic scattering and direct-reactions: Time-independent formulation in three spatial dimensions with complex trajectories. <i>Physics Reports</i> , 1980, 57, 47-149.	25.6	17
8	The effect of line-broadening on the overall width of transition arrays in dense plasmas. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 99, 283-294.	2.3	15
9	Measurements of niobium absorption spectra in plasmas with nearly full M-shell configurations. <i>High Energy Density Physics</i> , 2007, 3, 325-334.	1.5	14
10	A comparison of theory and experiment for high density, high temperature germanium spectra. <i>High Energy Density Physics</i> , 2010, 6, 95-98.	1.5	11
11	Nuclear fusion in high density matter. <i>Nuclear Fusion</i> , 1989, 29, 2199-2216.	3.5	7
12	On the theory of nuclear heavy-ion direct transfer reactions. <i>Annals of Physics</i> , 1979, 117, 323-359.	2.8	5
13	On the global nature of the semiclassical wavefunction describing elastic scattering in several coordinate dimensions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1979, 71, 186-190.	2.1	5
14	The calculation of free electron density in Cassandra. <i>High Energy Density Physics</i> , 2010, 6, 66-69.	1.5	5
15	A unified semiclassical description of elastic scattering by a central field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1980, 75, 183-188.	2.1	2
16	High-order multipole transitions in radiative opacities. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 99, 627-635.	2.3	1