

# Simon Groth

## List of Publications by Year in descending order

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12  
papers

876  
citations

759233

12  
h-index

1199594

12  
g-index

12  
all docs

12  
docs citations

12  
times ranked

224  
citing authors

#	ARTICLE	IF	CITATIONS
1	The uniform electron gas at warm dense matter conditions. <i>Physics Reports</i> , 2018, 744, 1-86.	25.6	177
2	<i>Ab Initio</i> Exchange-Correlation Free Energy of the Uniform Electron Gas at Warm Dense Matter Conditions. <i>Physical Review Letters</i> , 2017, 119, 135001.	7.8	139
3	<i>Ab Initio</i> Quantum Monte Carlo Simulation of the Warm Dense Electron Gas in the Thermodynamic Limit. <i>Physical Review Letters</i> , 2016, 117, 156403.	7.8	136
4	Permutation blocking path integral Monte Carlo: a highly efficient approach to the simulation of strongly degenerate non-ideal fermions. <i>New Journal of Physics</i> , 2015, 17, 073017.	2.9	92
5	Permutation blocking path integral Monte Carlo approach to the uniform electron gas at finite temperature. <i>Journal of Chemical Physics</i> , 2015, 143, 204101.	3.0	61
6	<i>Ab initio</i> quantum Monte Carlo simulation of the warm dense electron gas. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	59
7	Configuration path integral Monte Carlo approach to the static density response of the warm dense electron gas. <i>Journal of Chemical Physics</i> , 2017, 147, 164108.	3.0	49
8	Permutation-blocking path-integral Monte Carlo approach to the static density response of the warm dense electron gas. <i>Physical Review E</i> , 2017, 96, 023203.	2.1	43
9	<i>Ab initio</i> results for the static structure factor of the warm dense electron gas. <i>Contributions To Plasma Physics</i> , 2017, 57, 468-478.	1.1	37
10	Permutation blocking path integral Monte Carlo simulations of degenerate electrons at finite temperature. <i>Contributions To Plasma Physics</i> , 2019, 59, e201800157.	1.1	30
11	<i>Ab initio</i> path integral monte carlo simulation of the uniform electron gas in the high energy density regime. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 075003.	2.1	28
12	Free energy of the uniform electron gas: Testing analytical models against first-principles results. <i>Contributions To Plasma Physics</i> , 2017, 57, 137-146.	1.1	25