

# Dieter H H Hoffmann

## List of Publications by Citations

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25  
papers

1,045  
citations

15  
h-index

26  
g-index

26  
ext. papers

1,136  
ext. citations

3.5  
avg, IF

3.2  
L-index

#	Paper	IF	Citations
25	Energy loss of heavy ions in a plasma target. <i>Physical Review A</i> , <b>1990</b> , 42, 2313-2321	2.6	149
24	Proposal for the study of thermophysical properties of high-energy-density matter using current and future heavy-ion accelerator facilities at GSI Darmstadt. <i>Physical Review Letters</i> , <b>2005</b> , 95, 035001	7.4	146
23	Commissioning and early experiments of the PHELIX facility. <i>Applied Physics B: Lasers and Optics</i> , <b>2010</b> , 100, 137-150	1.9	141
22	Stopping of heavy ions in a hydrogen plasma. <i>Physical Review Letters</i> , <b>1995</b> , 74, 1550-1553	7.4	110
21	Unique capabilities of an intense heavy ion beam as a tool for equation-of-state studies. <i>Physics of Plasmas</i> , <b>2002</b> , 9, 3651-3654	2.1	87
20	Symmetry analysis of cylindrical implosions driven by high-frequency rotating ion beams. <i>Plasma Physics and Controlled Fusion</i> , <b>2003</b> , 45, 1733-1745	2	66
19	High energy density physics with intense ion beams. <i>Matter and Radiation at Extremes</i> , <b>2016</b> , 1, 28-47	4.7	62
18	Energy loss and charge transfer of argon in a laser-generated carbon plasma. <i>Physical Review Letters</i> , <b>2013</b> , 110, 115001	7.4	46
17	Dense plasma diagnostics by fast proton beams. <i>Physical Review E</i> , <b>1998</b> , 57, 3363-3367	2.4	43
16	Heavy-ion-beam-induced hydrodynamic effects in solid targets. <i>Physical Review E</i> , <b>1999</b> , 60, 4715-24	2.4	43
15	Measurement of the Coulomb energy loss by fast protons in a plasma target. <i>Physical Review E</i> , <b>1996</b> , 53, 2701-2707	2.4	41
14	Dynamic confinement of targets heated quasi-isochorically with heavy ion beams. <i>Physical Review E</i> , <b>2003</b> , 68, 056406	2.4	18
13	Heavy ion hollow beam formation at the energy of 1 AGeV for implosion experiments using an original RF system for fast rotation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 620, 99-104	1.2	17
12	Observation of a high degree of stopping for laser-accelerated intense proton beams in dense ionized matter. <i>Nature Communications</i> , <b>2020</b> , 11, 5157	17.4	16
11	Commissioning of the PRIOR proton microscope. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 023303	1.7	16
10	High Energy Density physics and Laboratory Planetary Science using intense heavy ion beams at FAIR facility at Darmstadt: the HEDgeHOB collaboration. <i>Astrophysics and Space Science</i> , <b>2009</b> , 322, 179-188	1.6	11
9	Benchmark Experiment to Prove the Role of Projectile Excited States Upon the Ion Stopping in Plasmas. <i>Physical Review Letters</i> , <b>2021</b> , 126, 115001	7.4	10

8	High-energy-density-science capabilities at the Facility for Antiproton and Ion Research. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 043103	2.1	9
7	Transport of intense particle beams in large-scale plasmas. <i>Physical Review E</i> , <b>2020</b> , 101, 051203	2.4	5
6	Experimental study of residual activity induced in aluminum targets irradiated by high-energy heavy-ion beams: A comparison of experimental data and FLUKA simulations. <i>Matter and Radiation at Extremes</i> , <b>2019</b> , 4, 055403	4.7	4
5	Two dimensional hydrodynamic simulations of metal targets under irradiation of intense proton beams: Effects of target materials. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 113108	2.1	4
4	Quadrupole lenses on the basis of permanent magnets for a PRIOR proton microscope prototype. <i>Instruments and Experimental Techniques</i> , <b>2016</b> , 59, 712-723	0.5	1
3	High energy proton induced radiation damage of rare earth permanent magnet quadrupoles. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 125103	1.7	0
2	Laboratory Observation of C and O Emission Lines of the White Dwarf H1504+65-like Atmosphere Model. <i>Astrophysical Journal</i> , <b>2021</b> , 920, 106	4.7	0
1	Possible studies of explosively driven non-ideal plasma using a proton microscope at the Facility for Antiprotons and Ion Research. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1556, 012013	0.3	