

# D H Barnak

## List of Publications by Year in descending order

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23  
papers

559  
citations

687363

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h-index

642732

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docs citations

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times ranked

695  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Reconnection between Colliding Magnetized Laser-Produced Plasma Plumes. <i>Physical Review Letters</i> , 2014, 113, 105003.	7.8	97
2	Generation and Evolution of High-Mach-Number Laser-Driven Magnetized Collisionless Shocks in the Laboratory. <i>Physical Review Letters</i> , 2017, 119, 025001.	7.8	66
3	Note: Experimental platform for magnetized high-energy-density plasma studies at the omega laser facility. <i>Review of Scientific Instruments</i> , 2015, 86, 016105.	1.3	50
4	Laser-driven magnetized liner inertial fusion. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	49
5	Use of external magnetic fields in hohlraum plasmas to improve laser-coupling. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	45
6	Magnetic collimation of relativistic positrons and electrons from high intensity laser-matter interactions. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	37
7	Laser-driven magnetized liner inertial fusion on OMEGA. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	33
8	High-Mach number, laser-driven magnetized collisionless shocks. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	23
9	Diagnosing laser-preheated magnetized plasmas relevant to magnetized liner inertial fusion. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	21
10	Target material dependence of positron generation from high intensity laser-matter interactions. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	18
11	Axial proton probing of magnetic and electric fields inside laser-driven coils. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	16
12	Neutron yield enhancement and suppression by magnetization in laser-driven cylindrical implosions. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	15
13	Measuring implosion velocities in experiments and simulations of laser-driven cylindrical implosions on the OMEGA laser. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 054014.	2.1	14
14	Optimization of laser-driven cylindrical implosions on the OMEGA laser. <i>Physics of Plasmas</i> , 2018, 25, 122701.	1.9	12
15	Inductively coupled 30 T magnetic field platform for magnetized high-energy-density plasma studies. <i>Review of Scientific Instruments</i> , 2018, 89, 084703.	1.3	11
16	Inferring fuel areal density from secondary neutron yields in laser-driven magnetized liner inertial fusion. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	11
17	Increasing the magnetic-field capability of the magneto-inertial fusion electrical discharge system using an inductively coupled coil. <i>Review of Scientific Instruments</i> , 2018, 89, 033501.	1.3	10
18	Laser entrance window transmission and reflection measurements for preheating in magnetized liner inertial fusion. <i>Physics of Plasmas</i> , 2018, 25, 062704.	1.9	9

#	ARTICLE	IF	CITATIONS
19	Modeling hydrodynamics, magnetic fields, and synthetic radiographs for high-energy-density plasma flows in shock-shear targets. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	5
20	Characterizing laser preheat for laser-driven magnetized liner inertial fusion using soft x-ray emission. <i>Physics of Plasmas</i> , 2020, 27, 112709.	1.9	5
21	Diagnosing magnetic fields in cylindrical implosions with oblique proton radiography. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	5
22	Soft x-ray spectrum unfold of K-edge filtered x-ray diode arrays using cubic splines. <i>Review of Scientific Instruments</i> , 2020, 91, 073102.	1.3	4
23	Effect of laser preheat in magnetized liner inertial fusion at OMEGA. <i>Physics of Plasmas</i> , 2022, 29, 042703.	1.9	3