# Jose Milovich

List of Publications by Year
in descending order



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|---|---|---|---|
| 52 papers | 4,332 citations | 126907 33 h-index | 155660 55 g-index |
| 55 all docs | 55 docs citations | 55 times ranked | 1519 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fuel gain exceeding unity in an inertially confined fusion implosion. Nature, 2014, 506, 343-348. | 27.8 | 742 |
| 2 | Point design targets, specifications, and requirements for the 2010 ignition campaign on the National Ignition Facility. Physics of Plasmas, 2011, 18, . | 1.9 | 534 |
| 3 | Burning plasma achieved in inertial fusion. Nature, 2022, 601, 542-548. | 27.8 | 233 |
| 4 | Fusion Energy Output Greater than the Kinetic Energy of an Imploding Shell at the National Ignition Facility. Physical Review Letters, 2018, 120, 245003. | 7.8 | 205 |
| 5 | The high-foot implosion campaign on the National Ignition Facility. Physics of Plasmas, 2014, 21, . | 1.9 | 149 |
| 6 | Inertially confined fusion plasmas dominated by alpha-particle self-heating. Nature Physics, 2016, 12, 800-806. | 16.7 | 144 |
| 7 | Capsule implosion optimization during the indirect-drive National Ignition Campaign. Physics of Plasmas, 2011, 18, . | 1.9 | 131 |
| 8 | Detailed implosion modeling of deuterium-tritium layered experiments on the National Ignition Facility. Physics of Plasmas, 2013, 20, 056318. | 1.9 | 128 |
| 9 | Radiation hydrodynamics modeling of the highest compression inertial confinement fusion ignition experiment from the National Ignition Campaign. Physics of Plasmas, 2015, 22, . | 1.9 | 120 |
| 10 | First High-Convergence Cryogenic Implosion in a Near-Vacuum Hohlraum. Physical Review Letters, 2015, 114, 175001. | 7.8 | 117 |
| 11 | High-density carbon ablator experiments on the National Ignition Facility. Physics of Plasmas, 2014, 21, . | 1.9 | 116 |
| 12 | Shock timing experiments on the National Ignition Facility: Initial results and comparison with simulation. Physics of Plasmas, 2012, 19, . | 1.9 | 115 |
| 13 | A high-resolution integrated model of the National Ignition Campaign cryogenic layered experiments. Physics of Plasmas, 2012, 19, . | 1.9 | 108 |
| 14 | The high velocity, high adiabat, â€œBigfootâ€•campaign and tests of indirect-drive implosion scaling. Physics of Plasmas, 2018, 25, . | 1.9 | 90 |
| 15 | Design of inertial fusion implosions reaching the burning plasma regime. Nature Physics, 2022, 18, 251-258. | 16.7 | 87 |
| 16 | High-Performance Indirect-Drive Cryogenic Implosions at High Adiabat on the National Ignition Facility. Physical Review Letters, 2018, 121, 135001. | 7.8 | 86 |
| 17 | Precision Shock Tuning on the National Ignition Facility. Physical Review Letters, 2012, 108, 215004. | 7.8 | 83 |
| 18 | Three-dimensional modeling and hydrodynamic scaling of National Ignition Facility implosions. Physics of Plasmas, 2019, 26, . | 1.9 | 70 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Nuclear imaging of the fuel assembly in ignition experiments. Physics of Plasmas, 2013, 20, 056320. | 1.9 | 65 |
| 20 | Cryogenic tritium-hydrogen-deuterium and deuterium-tritium layer implosions with high density carbon ablators in near-vacuum hohlraums. Physics of Plasmas, 2015, 22, 062703. | 1.9 | 62 |
| 21 | Integrated modeling of cryogenic layered highfoot experiments at the NIF. Physics of Plasmas, 2016, 23, . | 1.9 | 59 |
| 22 | X-ray driven implosions at ignition relevant velocities on the National Ignition Facility. Physics of Plasmas, 2013, 20, . | 1.9 | 54 |
| 23 | Improving ICF implosion performance with alternative capsule supports. Physics of Plasmas, 2017, 24, . | 1.9 | 54 |
| 24 | Toward a burning plasma state using diamond ablator inertially confined fusion (ICF) implosions on the National Ignition Facility (NIF). Plasma Physics and Controlled Fusion, 2019, 61, 014023. | 2.1 | 53 |
| 25 | Hotspot conditions achieved in inertial confinement fusion experiments on the National Ignition Facility. Physics of Plasmas, 2020, 27, . | 1.9 | 50 |
| 26 | 2015, 22, 056314. | 1.9 | 49 |
| 27 | The I-Raum: A new shaped hohlraum for improved inner beam propagation in indirectly-driven ICF implosions on the National Ignition Facility. Physics of Plasmas, 2018, 25, . | 1.9 | 43 |
| 28 | Capsule modeling of high foot implosion experiments on the National Ignition Facility. Plasma Physics and Controlled Fusion, 2017, 59, 055006. | 2.1 | 40 |
| 29 | Evidence of Three-Dimensional Asymmetries Seeded by High-Density Carbon-Ablator Nonuniformity in Experiments at the National Ignition Facility. Physical Review Letters, 2021, 126, 025002. | 7.8 | 40 |
| 30 | Progress in the indirect-drive National Ignition Campaign. Plasma Physics and Controlled Fusion, 2012, 54, 124026. | 2.1 | 38 |
| 31 | Performance of indirectly driven capsule implosions on the National Ignition Facility using adiabat-shaping. Physics of Plasmas, 2016, 23, 056303. | 1.9 | 38 |
| 32 | First beryllium capsule implosions on the National Ignition Facility. Physics of Plasmas, 2016, 23, 056310. | 1.9 | 37 |
| 33 | Adiabat-shaping in indirect drive inertial confinement fusion. Physics of Plasmas, 2015, 22, 052702. | 1.9 | 31 |
| 34 | Review of hydrodynamic instability experiments in inertially confined fusion implosions on National Ignition Facility. Plasma Physics and Controlled Fusion, 2020, 62, 014007. | 2.1 | 31 |
| 35 | Symmetric fielding of the largest diamond capsule implosions on the NIF. Physics of Plasmas, 2020, 27, . | 1.9 | 28 |
| 36 | Time-Resolved Fuel Density Profiles of the Stagnation Phase of Indirect-Drive Inertial Confinement Implosions. Physical Review Letters, 2020, 125, 155003. | 7.8 | 27 |

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|---|---|---|---|
| 37 | Hydrodynamic instabilities seeded by the X-ray shadow of ICF capsule fill-tubes. Physics of Plasmas, 2018, 25, . | 1.9 | 25 |
| 38 | Hotspot parameter scaling with velocity and yield for high-adiabat layered implosions at the National Ignition Facility. Physical Review E, 2020, 102, 023210. | 2.1 | 25 |
| 39 | Integrated performance of large HDC-capsule implosions on the National Ignition Facility. Physics of Plasmas, 2020, 27, . | 1.9 | 22 |
| 40 | Achieving 280 Gbar hot spot pressure in DT-layered CH capsule implosions at the National Ignition Facility. Physics of Plasmas, 2020, 27, . | 1.9 | 20 |
| 41 | The size and structure of the laser entrance hole in gas-filled hohlraums at the National Ignition Facility. Physics of Plasmas, 2015, 22, . | 1.9 | 19 |
| 42 | Exploring implosion designs for increased compression on the National Ignition Facility using high density carbon ablators. Physics of Plasmas, 2022, 29, . | 1.9 | 15 |
| 43 | Understanding asymmetries using integrated simulations of capsule implosions in low gas-fill hohlraums at the National Ignition Facility. Plasma Physics and Controlled Fusion, 2021, 63, 025012. | 2.1 | 14 |
| 44 | Laser propagation in a subcritical foam: Subgrid model. Physics of Plasmas, 2020, 27, 112710. | 1.9 | 13 |
| 45 | Indirect-drive ablative Richtmyer Meshkov node scaling. Journal of Physics: Conference Series, 2016, 717, 012034. | 0.4 | 12 |
| 46 | Deficiencies in compression and yield in x-ray-driven implosions. Physics of Plasmas, 2020, 27, . | 1.9 | 12 |
| 47 | Fill tube dynamics in inertial confinement fusion implosions with high density carbon ablators. Physics of Plasmas, 2020, 27, . | 1.9 | 11 |
| 48 | Fuel convergence sensitivity in indirect drive implosions. Physics of Plasmas, 2021, 28, 042705. | 1.9 | 11 |
| 49 | Experimental and calculational investigation of laser-heated additive manufactured foams. Physics of Plasmas, 2021, 28, . | 1.9 | 9 |
| 50 | Simulation studies of the interaction of laser radiation with additively manufactured foams. Plasma Physics and Controlled Fusion, 2021, 63, 055009. | 2.1 | 5 |
| 51 | Hydroscaling indirect-drive implosions on the National Ignition Facility. Physics of Plasmas, 2022, 29, . | 1.9 | 4 |
| 52 | Foam-lined hohlraum, inertial confinement fusion experiments on the National Ignition Facility. Physical Review E, 2020, 102, 051201. | 2.1 | 2 |