# C S Goyon

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8993620/publications.pdf

Version: 2024-02-01

| 53 | 1,840 | 236925 | 254184 |
|---|---|---|---|
| papers | citations | 25 h-index | 43 g-index |

| 54 | 54 | 54 | 1561 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | Fusion reactions initiated by laser-accelerated particle beams in a laser-produced plasma. Nature Communications, 2013, 4, 2506. | 12.8 | 153 |
| 3 | Laser-direct-drive program: Promise, challenge, and path forward. Matter and Radiation at Extremes, 2017, 2, 37-54. | 3.9 | 117 |
| 4 | Symmetry control of an indirectly driven high-density-carbon implosion at high convergence and high velocity. Physics of Plasmas, 2017, 24, . | 1.9 | 106 |
| 5 | Origins and Scaling of Hot-Electron Preheat in Ignition-Scale Direct-Drive Inertial Confinement Fusion Experiments. Physical Review Letters, 2018, 120, 055001. | 7.8 | 104 |
| 6 | The high velocity, high adiabat, â€œBigfootâ€•campaign and tests of indirect-drive implosion scaling. Physics of Plasmas, 2018, 25, . | 1.9 | 90 |
| 7 | High-Performance Indirect-Drive Cryogenic Implosions at High Adiabat on the National Ignition Facility. Physical Review Letters, 2018, 121, 135001. | 7.8 | 86 |
| 8 | Development of Improved Radiation Drive Environment for High Foot Implosions at the National Ignition Facility. Physical Review Letters, 2016, 117, 225002. | 7.8 | 61 |
| 9 | High Power Dynamic Polarization Control Using Plasma Photonics. Physical Review Letters, 2016, 116, 205001. | 7.8 | 55 |
| 10 | 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 |
| 11 | Ultrafast probing of magnetic field growth inside a laser-driven solenoid. Physical Review E, 2017, 95, 033208. | 2.1 | 49 |
| 12 | Refractive Index Seen by a Probe Beam Interacting with a Laser-Plasma System. Physical Review Letters, 2017, 118, 015001. | 7.8 | 48 |
| 13 | Observation of Betatron X-Ray Radiation in a Self-Modulated Laser Wakefield Accelerator Driven with Picosecond Laser Pulses. Physical Review Letters, 2017, 118, 134801. | 7.8 | 45 |
| 14 | Unraveling the Solid-Liquid-Vapor Phase Transition Dynamics at the Atomic Level with Ultrafast X-Ray Absorption Near-Edge Spectroscopy. Physical Review Letters, 2011, 107, 245006. | 7.8 | 44 |
| 15 | Increasing stagnation pressure and thermonuclear performance of inertial confinement fusion capsules by the introduction of a high-Z dopant. Physics of Plasmas, 2018, 25, . | 1.9 | 42 |
| 16 | Ultrafast Short-Range Disordering of Femtosecond-Laser-Heated Warm Dense Aluminum. Physical Review Letters, 2013, 111, 245004. | 7.8 | 41 |
| 17 | Stimulated Raman scattering mechanisms and scaling behavior in planar direct-drive experiments at the National Ignition Facility. Physics of Plasmas, 2020, 27, . | 1.9 | 38 |
| 18 | Theory and measurements of convective Raman side scatter in inertial confinement fusion experiments. Physical Review E, 2019, 99, 033203. | 2.1 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | High-intensity laser-accelerated ion beam produced from cryogenic micro-jet target. Review of Scientific Instruments, 2016, 87, 11D827. | 1.3 | 32 |
| 20 | New scheme to produce aneutronic fusion reactions by laser-accelerated ions. Laser and Particle Beams, 2015, 33, 117-122. | 1.0 | 29 |
| 21 | Laser light triggers increased Raman amplification in the regime of nonlinear Landau damping. Nature Communications, 2014, 5, 4158. | 12.8 | 28 |
| 22 | Stimulated backscatter of laser light from BigFoot hohlraums on the National Ignition Facility. Physics of Plasmas, 2019, 26, . | 1.9 | 28 |
| 23 | CR-39 track detector calibration for H, He, and C ions from 0.1-0.5 MeV up to 5 MeV for laser-induced nuclear fusion product identification. Review of Scientific Instruments, 2015, 86, 083307. | 1.3 | 27 |
| 24 | Experimental results of radiation-driven, layered deuterium-tritium implosions with adiabat-shaped drives at the National Ignition Facility. Physics of Plasmas, 2016, 23, . | 1.9 | 27 |
| 25 | Energy transfer between lasers in low-gas-fill-density hohlraums. Physical Review E, 2018, 98, . | 2.1 | 27 |
| 26 | 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 |
| 27 | X-ray sources using a picosecond laser driven plasma accelerator. Physics of Plasmas, 2019, 26, . | 1.9 | 22 |
| 28 | 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 |
| 29 | Experimental investigation of the stimulated Brillouin scattering growth and saturation at 526 and 351â€‰nm for direct drive and shock ignition. Physics of Plasmas, 2012, 19, 012705. | 1.9 | 18 |
| 30 | Experimental Approach to Interaction Physics Challenges of the Shock Ignition Scheme Using Short Pulse Lasers. Physical Review Letters, 2013, 111, 235006. | 7.8 | 17 |
| 31 | Crossed-beam energy transfer: polarization effects and evidence of saturation. Plasma Physics and Controlled Fusion, 2018, 60, 054017. | 2.1 | 17 |
| 32 | Betatron x-ray radiation in the self-modulated laser wakefield acceleration regime: prospects for a novel probe at large scale laser facilities. Nuclear Fusion, 2019, 59, 032003. | 3.5 | 17 |
| 33 | Interaction physics for the shock ignition scheme of inertial confinement fusion targets. Plasma Physics and Controlled Fusion, 2011, 53, 124034. | 2.1 | 16 |
| 34 | Implosion shape control of high-velocity, large case-to-capsule ratio beryllium ablators at the National Ignition Facility. Physics of Plasmas, 2018, 25, 072708. | 1.9 | 16 |
| 35 | Reduction of stimulated Brillouin backscattering with plasma beam smoothing. Physics of Plasmas, 2015, 22, . | 1.9 | 11 |
| 36 | Laser intensity scaling of the magnetic field from a laser-driven coil target. Journal of Applied Physics, 2020, 127, . | 2.5 | 11 |

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|---|---|---|---|
| 37 | Strong suppression of heat conduction in a laboratory replica of galaxy-cluster turbulent plasmas. Science Advances, 2022, 8, eabj6799. | 10.3 | 11 |
| 38 | Maximizing neutron yields by scaling hollow diameter of a dense plasma focus anode. Journal of Applied Physics, 2018, 124, 233301. | 2.5 | 10 |
| 39 | Betatron x-ray radiation from laser-plasma accelerators driven by femtosecond and picosecond laser systems. Physics of Plasmas, 2018, 25, 056706. | 1.9 | 10 |
| 40 | The National Direct-Drive Inertial Confinement Fusion Program. Nuclear Fusion, 2019, 59, 032007. | 3.5 | 10 |
| 41 | Study on a compact and adaptable Thomson Spectrometer for laser-initiated<sup>11</sup>B(p,Î±)<sup>8</sup>Be reactions and low-medium energy particle detection. Journal of Instrumentation, 2016, 11, C05010-C05010. | 1.2 | 7 |
| 42 | Dynamics of laser-generated magnetic fields using long laser pulses. Physical Review E, 2021, 103, 033201. | 2.1 | 7 |
| 43 | Laser transport and backscatter in low-density SiO2 and Ta2O5 foams. Physics of Plasmas, 2021, 28, . | 1.9 | 6 |
| 44 | First Experiments and Radiographs on the MegaJOuLe Neutron Imaging Radiography (MJOLNIR) Dense Plasma Focus. IEEE Transactions on Plasma Science, 2021, 49, 3299-3306. | 1.3 | 6 |
| 45 | An analytical study of non-resonant transient cross-beam power transfer relevant to recent progress in plasma photonics. Physics of Plasmas, 2019, 26, . | 1.9 | 4 |
| 46 | Slow and Fast Light in Plasma Using Optical Wave Mixing. Physical Review Letters, 2021, 126, 205001. | 7.8 | 4 |
| 47 | Laser-plasma interaction physics for shock ignition. EPJ Web of Conferences, 2013, 59, 05006. | 0.3 | 3 |
| 48 | Laser plasma interaction physics on the LIL facility. EPJ Web of Conferences, 2013, 59, 05003. | 0.3 | 2 |
| 49 | Effects of hydrodynamics on Stimulated Brillouin Scattering in multiple plasma interaction. EPJ Web of Conferences, 2013, 59, 05004. | 0.3 | 0 |
| 50 | Time resolved detection of two-plasmon decay using three-halves harmonic emission on the National Ignition Facility. Review of Scientific Instruments, 2018, 89, 083504. | 1.3 | 0 |
| 51 | Dynamique ultra-rapide de la transition de phase solide-liquide-vapeur par spectroscopie XANES rÃ©solue en temps. , 2013, , . | | 0 |
| 52 | X-ray Sources from Self-modulated Laser Wakefield Acceleration: Applications in High Energy Density Sciences. , 2020, , . | | 0 |
| 53 | Measuring characteristic differences between high- and low-performing discharges on the MegaJOuLe Neutron Imaging Radiography (MJOLNIR) DPF. Physics of Plasmas, 2022, 29, 062708. | 1.9 | 0 |