

# Vernon Chaplin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2274957/publications.pdf>

Version: 2024-02-01

16  
papers

143  
citations

1478505

6  
h-index

1199594

12  
g-index

21  
all docs

21  
docs citations

21  
times ranked

155  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Impact of low-frequency oscillations on ion energy in a high-power magnetically shielded Hall thruster. <i>Journal of Applied Physics</i> , 2022, 131, 033301.                               | 2.5 | 3         |
| 2  | Experimental Characterization of Wave-Induced Azimuthal Ion Velocities in a Hollow Cathode Plume. , 2022, , .  |     | 2         |
| 3  | Demonstration of 13,011-h of operation of a proto-flight compact heaterless lanthanum hexaboride hollow cathode. <i>Acta Astronautica</i> , 2022, 197, 53-59.                                | 3.2 | 7         |
| 4  | Insights from Collisional-Radiative Models of Neutral and Singly Ionized Xenon in Hall Thrusters. <i>Journal of Propulsion and Power</i> , 2022, 38, 866-879.                                | 2.2 | 3         |
| 5  | Insights from Collisional-Radiative Models of Neutral and Singly-Ionized Xenon in Hall Thrusters. , 2021, , .  |     | 3         |
| 6  | Anomalous Ion Heating and Pole Erosion in the 12.5-kW Hall Effect Rocket with Magnetic Shielding (HERMeS). , 2020, , .   |     | 12        |
| 7  | Time-resolved ion velocity measurements in a high-power Hall thruster using laser-induced fluorescence with transfer function averaging. <i>Applied Physics Letters</i> , 2020, 116, .       | 3.3 | 26        |
| 8  | 10.1063/5.0007161.2. , 2020, , .   |     | 0         |
| 9  | Laser-induced fluorescence measurements of acceleration zone scaling in the 12.5 kW HERMeS Hall thruster. <i>Journal of Applied Physics</i> , 2018, 124, .                                   | 2.5 | 33        |
| 10 | Particle-in-cell simulations of Hall thruster acceleration and near plume regions. <i>Physics of Plasmas</i> , 2018, 25, 123504.   | 1.9 | 18        |
| 11 | Center conductor diagnostic for multipactor detection in inaccessible geometries. <i>Review of Scientific Instruments</i> , 2017, 88, 014706.  | 1.3 | 6         |
| 12 | Multipactor Breakdown Threshold Reduction Due to Magnetic Confinement in Parallel Fields. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 1726-1730.                                  | 1.3 | 12        |
| 13 | Emission and afterglow properties of an expanding RF plasma with nonuniform neutral gas density. <i>Physics of Plasmas</i> , 2016, 23, 083506.   | 1.9 | 2         |
| 14 | One-dimensional time-dependent fluid model of a very high density low-pressure inductively coupled plasma. <i>Journal of Applied Physics</i> , 2015, 118, .                                  | 2.5 | 5         |
| 15 | Battery-powered pulsed high density inductively coupled plasma source for pre-ionization in laboratory astrophysics experiments. <i>Review of Scientific Instruments</i> , 2015, 86, 073506. | 1.3 | 4         |
| 16 | Fast Ignitron Trigger Circuit Using Insulated Gate Bipolar Transistors. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 975-979.  | 1.3 | 7         |