

# Andr © Mysyrowicz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1499210/publications.pdf>

Version: 2024-02-01

18  
papers

3,359  
citations

687363

13  
h-index

839539

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

1752  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Femtosecond filamentation in transparent media. <i>Physics Reports</i> , 2007, 441, 47-189.   | 25.6 | 2,462     |
| 2  | Determination of the time dependence of $n_2$ in air. <i>Optics Communications</i> , 1997, 135, 310-314.  | 2.1  | 139       |
| 3  | Recollision-Induced Superradiance of Ionized Nitrogen Molecules. <i>Physical Review Letters</i> , 2015, 115, 133203.  | 7.8  | 131       |
| 4  | Femtosecond laser-guided electric discharge in air. <i>Physical Review E</i> , 2001, 64, 057401.  | 2.1  | 119       |
| 5  | Self-seeded lasing in ionized air pumped by 800 nm femtosecond laser pulses. <i>Optics Express</i> , 2013, 21, 22791.   | 3.4  | 115       |
| 6  | Lasing of ambient air with microjoule pulse energy pumped by a multi-terawatt infrared femtosecond laser. <i>Optics Letters</i> , 2014, 39, 1725.   | 3.3  | 56        |
| 7  | Lasing without population inversion in $N_2^+$ . <i>APL Photonics</i> , 2019, 4, .  | 5.7  | 55        |
| 8  | Revival of femtosecond laser plasma filaments in air by a nanosecond laser. <i>Optics Express</i> , 2009, 17, 11450.  | 3.4  | 51        |
| 9  | Generation of long-lived underdense channels using femtosecond filamentation in air. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 094009.                         | 1.5  | 51        |
| 10 | Unexpected Sensitivity of Nitrogen Ions Superradiant Emission on Pump Laser Wavelength and Duration. <i>Physical Review Letters</i> , 2017, 119, 203205.  | 7.8  | 47        |
| 11 | Study of filamentation with a high power high repetition rate ps laser at $103 \hat{\mu}m$ . <i>Optics Express</i> , 2016, 24, 7437.  | 3.4  | 46        |
| 12 | The laser lightning rod project. <i>EPJ Applied Physics</i> , 2021, 93, 10504.  | 0.7  | 26        |
| 13 | Large scale Tesla coil guided discharges initiated by femtosecond laser filamentation in air. <i>Journal of Applied Physics</i> , 2014, 116, .  | 2.5  | 15        |
| 14 | Cumulative air density depletion during high repetition rate filamentation of femtosecond laser pulses: Application to electric discharge triggering. <i>Applied Physics Letters</i> , 2021, 119, . | 3.3  | 13        |
| 15 | Theory of femtosecond strong field ion excitation and subsequent lasing in $N_2^+$ . <i>New Journal of Physics</i> , 2021, 23, 023035.  | 2.9  | 10        |
| 16 | Quantum erasing of laser emission in $N_2^+$ . <i>Optics Letters</i> , 2020, 45, 4670.  | 3.3  | 9         |
| 17 | Excitation of nitrogen molecular ions in a strong laser field by electron recollisions. <i>European Physical Journal D</i> , 2017, 71, 1.   | 1.3  | 7         |
| 18 | Modeling of the processes of ionization and excitation of nitrogen molecules by short and intense laser pulses. <i>Physical Review A</i> , 2021, 104, .   | 2.5  | 7         |