# Francois LÃ©garÃ©

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3863544/publications.pdf

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| 46 | 2,282 | 394421 | 377865 |
|---|---|---|---|
| papers | citations | 19 h-index | 34 g-index |

| 47 | 47 | 47 | 2126 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 1 | Linking high harmonics from gases and solids. Nature, 2015, 522, 462-464. | 27.8 | 567 |
| 2 | Probing molecular chirality on a sub-femtosecondÂtimescale. Nature Physics, 2015, 11, 654-658. | 16.7 | 219 |
| 3 | Petahertz optical oscilloscope. Nature Photonics, 2013, 7, 958-962. | 31.4 | 163 |
| 4 | Photoexcitation circular dichroism in chiral molecules. Nature Physics, 2018, 14, 484-489. | 16.7 | 145 |
| 5 | Compression of 1.8â€‚Î¼m laser pulses to sub two optical cycles with bulk material. Applied Physics Letters, 2010, 96, . | 3.3 | 126 |
| 6 | Time-Resolved Double Ionization with Few Cycle Laser Pulses. Physical Review Letters, 2003, 91, 093002. | 7.8 | 103 |
| 7 | 0.42â€‰TW 2-cycle pulses at 1.8â€‰Î¼m via hollow-core fiber compression. Applied Physics Letters, 2015, 107, . | 3.3 | 92 |
| 8 | Relaxation Dynamics in Photoexcited Chiral Molecules Studied by Time-Resolved Photoelectron Circular Dichroism: Toward Chiral Femtochemistry. Journal of Physical Chemistry Letters, 2016, 7, 4514-4519. | 4.6 | 81 |
| 9 | Strong-field optoelectronics in solids. Nature Photonics, 2018, 12, 465-468. | 31.4 | 80 |
| 10 | Direct compression of 170-fs 50-cycle pulses down to 1.5 cycles with 70% transmission. Scientific Reports, 2018, 8, 11794. | 3.3 | 78 |
| 11 | Highly stable, 54mJ Yb-InnoSlab laser platform at 05kW average power. Optics Express, 2017, 25, 17549. | 3.4 | 71 |
| 12 | Hollow-core-waveguide compression of multi-millijoule CEP-stable 32â€‰â€‰Î¼m pulses. Optica, 2016, 3, 1308. | 9.3 | 67 |
| 13 | High-energy multidimensional solitary states in hollow-core fibres. Nature Photonics, 2020, 14, 733-739. | 31.4 | 64 |
| 14 | H<sub>2</sub>: the benchmark molecule for ultrafast science and technologies. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 042002. | 1.5 | 63 |
| 15 | Capturing roaming molecular fragments in real time. Science, 2020, 370, 1072-1077. | 12.6 | 61 |
| 16 | Mechanism of hollow-core-fiber infrared-supercontinuum compression with bulk material. Physical Review A, 2010, 81, . | 2.5 | 41 |
| 17 | 70 mJ nonlinear compression and scaling route for an Yb amplifier using large-core hollow fibers. Optics Letters, 2021, 46, 896. | 3.3 | 40 |
| 18 | Real-time observation of a correlation-driven sub 3â€‰fs charge migration in ionised adenine. Communications Chemistry, 2021, 4, . | 4.5 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Intense few-cycle visible pulses directly generated via nonlinear fibre mode mixing. Nature Photonics, 0, , . | 31.4 | 20 |
| 20 | Decoupling Frequencies, Amplitudes and Phases in Nonlinear Optics. Scientific Reports, 2017, 7, 7861. | 3.3 | 19 |
| 21 | Molecular gases for pulse compression in hollow core fibers. Optics Express, 2018, 26, 25426. | 3.4 | 17 |
| 22 | Extremely broadband terahertz generation via pulse compression of an Ytterbium laser amplifier. Optics Express, 2019, 27, 32659. | 3.4 | 17 |
| 23 | High energy redshifted and enhanced spectral broadening by molecular alignment. Optics Letters, 2020, 45, 3013. | 3.3 | 16 |
| 24 | Coherent Tabletop EUV Ptychography of Nanopatterns. Scientific Reports, 2018, 8, 16693. | 3.3 | 13 |
| 25 | Multiphoton photoelectron circular dichroism of limonene with independent polarization state control of the bound-bound and bound-continuum transitions. Journal of Chemical Physics, 2018, 149, 134301. | 3.0 | 13 |
| 26 | A coincidence detection algorithm for improving detection rates in coulomb explosion imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 667, 11-15. | 1.6 | 9 |
| 27 | Few-cycle Yb laser source at 20 kHz using multidimensional solitary states in hollow-core fibers. Optics Letters, 2022, 47, 3612. | 3.3 | 9 |
| 28 | Temporal characterization of two-octave infrared pulses by frequency resolved optical switching. JPhys Photonics, 2021, 3, 045002. | 4.6 | 8 |
| 29 | Post-Ionization Dynamics of the Polar Molecule OCS in Asymmetric Laser Fields. Frontiers in Chemistry, 2022, 10, 859750. | 3.6 | 8 |
| 30 | Ultrafast magnetic scattering on ferrimagnets enabled by a bright Yb-based soft x-ray source. Optica, 2022, 9, 399. | 9.3 | 8 |
| 31 | Low energy pulse compression in hollow core fibers using hydrofluorocarbon molecular gas. OSA Continuum, 2019, 2, 1488. | 1.8 | 6 |
| 32 | Femtosecond Laser Mass Spectrometry and High Harmonic Spectroscopy of Xylene Isomers. Scientific Reports, 2018, 8, 3789. | 3.3 | 5 |
| 33 | Raman Redâ€Shift Compressor: A Simple Approach for Scaling the High Harmonic Generation Cutâ€Off. Advanced Photonics Research, 2021, 2, 2100113. | 3.6 | 5 |
| 34 | Electronic relaxation and dissociation dynamics in formaldehyde: pump wavelength dependence. Physical Chemistry Chemical Physics, 2022, 24, 1779-1786. | 2.8 | 5 |
| 35 | Raman effect in the spectral broadening of ultrashort laser pulses in saturated versus unsaturated hydrocarbon molecules. Optics Express, 2020, 28, 980. | 3.4 | 3 |
| 36 | Ultrafast dynamics of adenine following XUV ionization. JPhys Photonics, 0, , . | 4.6 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | On the measurement of statistical dynamics using the method of Coulomb explosion imaging. AIP Conference Proceedings, 2021, , . | 0.4 | 0 |
| 38 | Guiding of Laser Pulses at the Theoretical Limit â€“ 97% Throughput Hollow-Core Fibers. , 2021, , . | | 0 |
| 39 | Raman Red-shift Compressor: A Simple Approach for Scaling the High Harmonic Generation Cut-off. , 2021, , . | | 0 |
| 40 | High-energy multidimensional solitary states in hollow-core fibres. , 2021, , . | | 0 |
| 41 | High-energy multidimensional solitary states in hollow-core fibers. , 2021, , . | | 0 |
| 42 | Guiding of Laser Pulses at the Theoretical Limit â€“ 97% Throughput Hollow-Core Fibers. , 2020, , . | | 0 |
| 43 | Capturing Roaming Fragments in Real Time: A Molecular Road Movie. , 2020, , . | | 0 |
| 44 | High Harmonic Generation Driven by Raman Multidimensional Solitary States. , 2021, , . | | 0 |
| 45 | Guiding of Laser Pulses at the Theoretical Limit â€“ 97% Throughput Hollow-Core Fibers. , 2021, , . | | 0 |
| 46 | Few-Cycle Visible Light Generation in a Hollow-Core Fiber. , 2021, , . | | 0 |