

Sebastian Eckart

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6819636/publications.pdf>

Version: 2024-02-01

49
papers

1,289
citations

394286

19
h-index

360920

35
g-index

50
all docs

50
docs citations

50
times ranked

985
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Direct sampling of electric-field vacuum fluctuations. <i>Science</i> , 2015, 350, 420-423. | 6.0 | 173 |
| 2 | Nonsequential Double Ionization by Counterrotating Circularly Polarized Two-Color Laser Fields. <i>Physical Review Letters</i> , 2016, 117, 133202. | 2.9 | 111 |
| 3 | Ultrafast preparation and detection of ring currents in single atoms. <i>Nature Physics</i> , 2018, 14, 701-704. | 6.5 | 93 |
| 4 | Magnetic fields alter strong-field ionization. <i>Nature Physics</i> , 2019, 15, 1222-1226. | 6.5 | 69 |
| 5 | Zeptosecond birth time delay in molecular photoionization. <i>Science</i> , 2020, 370, 339-341. | 6.0 | 62 |
| 6 | Spin and Angular Momentum in Strong-Field Ionization. <i>Physical Review Letters</i> , 2018, 120, 043202. | 2.9 | 54 |
| 7 | Direct Experimental Access to the Nonadiabatic Initial Momentum Offset upon Tunnel Ionization. <i>Physical Review Letters</i> , 2018, 121, 163202. | 2.9 | 52 |
| 8 | X-ray multiphoton-induced Coulomb explosion images complex single molecules. <i>Nature Physics</i> , 2022, 18, 423-428. | 6.5 | 48 |
| 9 | Keldysh-Rutherford Model for the Attoclock. <i>Physical Review Letters</i> , 2018, 121, 123201. | 2.9 | 43 |
| 10 | Subcycle interference upon tunnel ionization by counter-rotating two-color fields. <i>Physical Review A</i> , 2018, 97, . | 1.0 | 37 |
| 11 | Photoelectron Diffraction Imaging of a Molecular Breakup Using an X-Ray Free-Electron Laser. <i>Physical Review X</i> , 2020, 10, . | 2.8 | 31 |
| 12 | Electric Nondipole Effect in Strong-Field Ionization. <i>Physical Review Letters</i> , 2021, 126, 053202. | 2.9 | 29 |
| 13 | Enantioselective fragmentation of an achiral molecule in a strong laser field. <i>Science Advances</i> , 2019, 5, eaau7923. | 4.7 | 27 |
| 14 | Angular dependence of the Wigner time delay upon tunnel ionization of H ₂ . <i>Nature Communications</i> , 2021, 12, 1697. | 5.8 | 27 |
| 15 | Kinematically complete experimental study of Compton scattering at helium atoms near the threshold. <i>Nature Physics</i> , 2020, 16, 756-760. | 6.5 | 25 |
| 16 | Measuring the photoelectron emission delay in the molecular frame. <i>Nature Communications</i> , 2021, 12, 6657. | 5.8 | 24 |
| 17 | Double Core-Hole Generation in O_2 Molecules Using an X-Ray Free-Electron Laser: Molecular-Frame Photoelectron Angular Distributions. <i>Physical Review Letters</i> , 2020, 125, 163201. | 2.9 | 23 |
| 18 | Timing Recollision in Nonsequential Double Ionization by Intense Elliptically Polarized Laser Pulses. <i>Physical Review Letters</i> , 2018, 120, 223204. | 2.9 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Inner-Shell-Ionization-Induced Femtosecond Structural Dynamics of Water Molecules Imaged at an X-Ray Free-Electron Laser. <i>Physical Review X</i> , 2021, 11, . | 2.8 | 10 |
| 38 | Double ionization of neon in elliptically polarized femtosecond laser fields. <i>Physical Review A</i> , 2018, 97, . | 1.0 | 9 |
| 39 | Correlation enhancement of high-order harmonic generation in Xe. <i>Physical Review A</i> , 2019, 100, . | 1.0 | 8 |
| 40 | Quantum interference and imaging using intense laser fields. <i>European Physical Journal D</i> , 2021, 75, 1. | 0.6 | 8 |
| 41 | Magnetic-Field Effect as a Tool to Investigate Electron Correlation in Strong-Field Ionization. <i>Physical Review Letters</i> , 2022, 128, 113201. | 2.9 | 8 |
| 42 | Experimental evidence for selection rules in multiphoton double ionization of helium and neon. <i>Physical Review A</i> , 2018, 97, . | 1.0 | 7 |
| 43 | Attoclock with bicircular laser fields as a probe of velocity-dependent tunnel-exit positions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 164001. | 0.6 | 7 |
| 44 | Resonance-enhanced x-ray multiple ionization of a polyatomic molecule. <i>Physical Review A</i> , 2022, 105, . | 1.0 | 5 |
| 45 | Single ionization of Helium at 0.5 - 2 MeV proton impact: On the quest for projectile coherence effects. <i>Journal of Physics: Conference Series</i> , 2017, 875, 092006. | 0.3 | 3 |
| 46 | High-Resolution Momentum Imaging – From Stern’s Molecular Beam Method to the COLTRIMS Reaction Microscope. , 2021, , 375-441. | | 3 |
| 47 | Influence of the emission site on the photoelectron circular dichroism in trifluoromethoxyirane. <i>Physical Chemistry Chemical Physics</i> , 0, , . | 1.3 | 2 |
| 48 | Photoelectron Circular Dichroism at the Few-cycle Limit. <i>EPJ Web of Conferences</i> , 2019, 205, 09033. | 0.1 | 0 |
| 49 | Molecular-frame angular distributions of spectator resonant interatomic coulombic decay electrons in neon dimers. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 132035. | 0.3 | 0 |