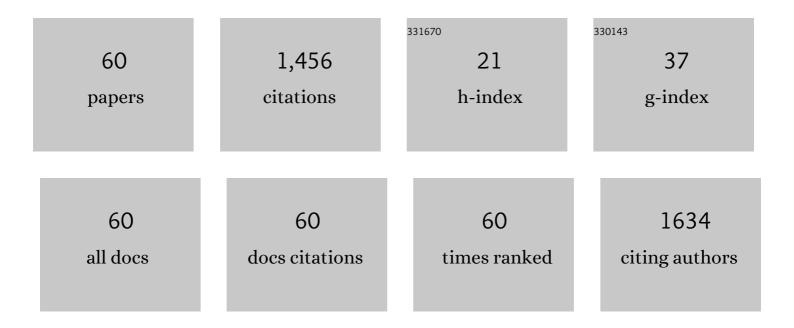
Michele Di Fraia

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1486235/publications.pdf Version: 2024-02-01



MICHELE DI EDAIA

| # | Article | IF | CITATIONS |
|----|--|-----------------------------|-----------|
| 1 | Attosecond pulse shaping using a seeded free-electron laser. Nature, 2020, 578, 386-391. | 27.8 | 116 |
| 2 | Tunability experiments at the FERMI@Elettra free-electron laser. New Journal of Physics, 2012, 14, 113009. | 2.9 | 81 |
| 3 | A modular end-station for atomic, molecular, and cluster science at the low density matter beamline of FERMI@Elettra. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164007. | 1.5 | 78 |
| 4 | Acetylacetone photodynamics at a seeded free-electron laser. Nature Communications, 2018, 9, 63. | 12.8 | 72 |
| 5 | Novel Collective Autoionization Process Observed in Electron Spectra of He Clusters. Physical Review Letters, 2014, 112, 073401. | 7.8 | 70 |
| 6 | Determining the polarization state of an extreme ultraviolet free-electron laser beam using atomic circular dichroism. Nature Communications, 2014, 5, 3648. | 12.8 | 69 |
| 7 | High-repetition-rate and high-photon-flux 70 eV high-harmonic source for coincidence ion imaging of gas-phase molecules. Optics Express, 2016, 24, 18133. | 3.4 | 60 |
| 8 | Circular Dichroism in Multiphoton Ionization of Resonantly Excited <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>He</mml:mi></mml:mrow><mml:mrow><mm Physical Review Letters, 2017, 118, 013002.</mm </mml:mrow></mml:msup></mml:mrow></mml:math | 11:mö>+ <td>nml:mo></td> | nml:mo> |
| 9 | Collective Autoionization in Multiply-Excited Systems: A novel ionization process observed in Helium Nanodroplets. Scientific Reports, 2014, 4, 3621. | 3.3 | 54 |
| 10 | Tracking attosecond electronic coherences using phase-manipulated extreme ultraviolet pulses. Nature Communications, 2020, 11, 883. | 12.8 | 50 |
| 11 | Three-Dimensional Shapes of Spinning Helium Nanodroplets. Physical Review Letters, 2018, 121, 255301. | 7.8 | 49 |
| 12 | Charge Transfer and Penning Ionization of Dopants in or on Helium Nanodroplets Exposed to EUV Radiation. Journal of Physical Chemistry A, 2013, 117, 4394-4403. | 2.5 | 48 |
| 13 | Extreme ultraviolet ionization of pure He nanodroplets: Mass-correlated photoelectron imaging, Penning ionization, and electron energy-loss spectra. Journal of Chemical Physics, 2013, 139, 084301. | 3.0 | 47 |
| 14 | Pulse Duration of Seeded Free-Electron Lasers. Physical Review X, 2017, 7, . | 8.9 | 47 |
| 15 | The Low Density Matter (LDM) beamline at FERMI: optical layout and first commissioning. Journal of Synchrotron Radiation, 2015, 22, 538-543. | 2.4 | 46 |
| 16 | Tracking the ultraviolet-induced photochemistry of thiophenone during and after ultrafast ring opening. Nature Chemistry, 2020, 12, 795-800. | 13.6 | 44 |
| 17 | The Role of the Partner Atom and Resonant Excitation Energy in Interatomic Coulombic Decay in Rare Gas Dimers. Journal of Physical Chemistry Letters, 2013, 4, 1797-1801. | 4.6 | 41 |
| 18 | Photoelectric effect with a twist. Nature Photonics, 2020, 14, 554-558. | 31.4 | 39 |

MICHELE DI FRAIA

| # | Article | IF | CITATIONS |
|----|--|----------------------|--------------------|
| 19 | Ultrafast relaxation of photoexcited superfluid He nanodroplets. Nature Communications, 2020, 11, 112. | 12.8 | 34 |
| 20 | High Resolution Multiphoton Spectroscopy by a Tunable Free-Electron-Laser Light. Physical Review Letters, 2014, 113, 193201. | 7.8 | 31 |
| 21 | Deep neural networks for classifying complex features in diffraction images. Physical Review E, 2019, 99, 063309. | 2.1 | 26 |
| 22 | Complete Characterization of Phase and Amplitude of Bichromatic Extreme Ultraviolet Light. Physical Review Letters, 2019, 123, 213904. | 7.8 | 21 |
| 23 | Generation and measurement of intense few-femtosecond superradiant extreme-ultraviolet free-electron laser pulses. Nature Photonics, 2021, 15, 523-529. | 31.4 | 20 |
| 24 | Experimental and Theoretical Photoemission Study of Indole and Its Derivatives in the Gas Phase. Journal of Physical Chemistry A, 2020, 124, 4115-4127. | 2.5 | 19 |
| 25 | Fast synchrotron and FEL beam monitors based on single-crystal diamond detectors and InGaAs/InAlAs quantum well devices. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 730, 164-167. | 1.6 | 16 |
| 26 | Real-Time Dynamics of the Formation of Hydrated Electrons upon Irradiation of Water Clusters with Extreme Ultraviolet Light. Physical Review Letters, 2019, 122, 133001. | 7.8 | 16 |
| 27 | Autoionization dynamics of helium nanodroplets resonantly excited by intense XUV laser pulses. New Journal of Physics, 2020, 22, 083043. | 2.9 | 15 |
| 28 | Angular distribution and circular dichroism in the two-colour XUV+NIR above-threshold ionization of helium. Journal of Modern Optics, 2016, 63, 367-382. | 1.3 | 14 |
| 29 | Ultrafast Structural Dynamics of Nanoparticles in Intense Laser Fields. Physical Review Letters, 2019, 123, 123201. | 7.8 | 14 |
| 30 | A detailed investigation of single-photon laser enabled Auger decay in neon. New Journal of Physics, 2019, 21, 113036. | 2.9 | 12 |
| 31 | Unravelling the full relaxation dynamics of superexcited helium nanodroplets. Physical Chemistry Chemical Physics, 2021, 23, 15138-15149. | 2.8 | 12 |
| 32 | Control of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">H</mml:mi </mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow>Dissociative Ionization in the Nonlinear Regime Using Vacuum Ultraviolet Free-Electron Laser Pulses. Physical Review Letters, 2018, 121, 103002.</mml:msub></mml:mrow></mml:math> | b> ¤./s nml:r | mr aø>l: |
| 33 | Ultrafast Resonant Interatomic Coulombic Decay Induced by Quantum Fluid Dynamics. Physical Review X, 2021, 11, . | 8.9 | 10 |
| 34 | Photophysics of indole upon X-ray absorption. Physical Chemistry Chemical Physics, 2018, 20, 20205-20216. | 2.8 | 9 |
| 35 | Enhancement of Above Threshold Ionization in Resonantly Excited Helium Nanodroplets. Physical Review Letters, 2021, 127, 093201. | 7.8 | 9 |
| 36 | Light-Induced Magnetization at the Nanoscale. Physical Review Letters, 2022, 128, 157205. | 7.8 | 9 |

MICHELE DI FRAIA

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Time-resolved photoelectron imaging of complex resonances in molecular nitrogen. Journal of Chemical Physics, 2021, 154, 144305. | 3.0 | 8 |
| 38 | Time-Resolved Ultrafast Interatomic Coulombic Decay in Superexcited Sodium-Doped Helium Nanodroplets. Journal of Physical Chemistry Letters, 2022, 13, 4470-4478. | 4.6 | 8 |
| 39 | Two-photon resonant excitation of interatomic coulombic decay in neon dimers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 204005. | 1.5 | 7 |
| 40 | Optical setup for two-colour experiments at the low density matter beamline of FERMI. Journal of Optics (United Kingdom), 2017, 19, 114010. | 2.2 | 7 |
| 41 | Experimental investigation of the interatomic Coulombic decay in NeAr dimers. Physical Review A, 2014, 90, . | 2.5 | 6 |
| 42 | Velocity-Map Imaging for Emittance Characterization of Multiphoton Electron Emission from a Gold Surface. Physical Review Applied, 2018, 9, . | 3.8 | 6 |
| 43 | Bunch by bunch beam monitoring in 3 rd and 4 th generation light sources by means of single crystal diamond detectors and quantum well devices. Proceedings of SPIE, 2012, , . | 0.8 | 5 |
| 44 | X-Ray Beam Position Monitor Based on a Single Crystal Diamond Performing Bunch by Bunch Detection. Journal of Physics: Conference Series, 2013, 425, 212001. | 0.4 | 5 |
| 45 | Impulsive laser-induced alignment of OCS molecules at FERMI. Physical Chemistry Chemical Physics, 2017, 19, 19733-19739. | 2.8 | 5 |
| 46 | High-gain harmonic generation with temporally overlapping seed pulses and application to ultrafast spectroscopy. Optics Express, 2020, 28, 29976. | 3.4 | 5 |
| 47 | X-ray micro beam analysis of the photoresponse of an enlarged CVD diamond single crystal. Diamond and Related Materials, 2013, 34, 36-40. | 3.9 | 4 |
| 48 | Carbon and Nitrogen K-Edge NEXAFS Spectra of Indole, 2,3-Dihydro-7-azaindole, and 3-Formylindole. Journal of Physical Chemistry A, 2021, 125, 4160-4172. | 2.5 | 4 |
| 49 | Time-resolved quantum beats in the fluorescence of helium resonantly excited by XUV radiation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 244012. | 1.5 | 4 |
| 50 | Characterizing crystalline defects in single nanoparticles from angular correlations of single-shot diffracted X-rays. IUCrJ, 2020, 7, 276-286. | 2.2 | 4 |
| 51 | Time-resolved formation of excited atomic and molecular states in XUV-induced nanoplasmas in ammonia clusters. Physical Chemistry Chemical Physics, 2020, 22, 7828-7834. | 2.8 | 3 |
| 52 | Migration of surface excitations in highly-excited nanosystems probed by intense resonant XUV radiation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 244011. | 1.5 | 2 |
| 53 | Fast beam monitor diamond-based devices for VUV and X-ray synchrotron radiation applications. Journal of Synchrotron Radiation, 2019, 26, 386-392. | 2.4 | 2 |
| 54 | Evolution and ion kinetics of a XUV-induced nanoplasma in ammonia clusters. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 024002. | 1.5 | 2 |

MICHELE DI FRAIA

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | High Photon Flux 70 eV HHG Source for Applications in Molecular and Solid State Physics. , 2016, , . | | 2 |
| 56 | Photoionization and Velocity Map Imaging spectroscopy of atoms, molecules and clusters with Synchrotron and Free Electron Laser radiation at Elettra. Nuclear Instruments & Methods in Physics Research B, 2015, 364, 16-19. | 1.4 | 1 |
| 57 | Circular Dichroism in the Multi-Photon Ionization of Oriented Helium Ions. Journal of Physics: Conference Series, 2017, 875, 022029. | 0.4 | Ο |
| 58 | Characterizing crystalline defects in single Xe nanoparticles from angular correlations of single-shot diffracted X-rays. Journal of Physics: Conference Series, 2020, 1412, 202028. | 0.4 | 0 |
| 59 | Attosecond delays in photoionization studied with coherent-controlled FEL. Journal of Physics: Conference Series, 2020, 1412, 112006. | 0.4 | 0 |
| 60 | Velocity Map Imaging for Photocathode Characterization. , 2017, , . | | 0 |