

Michele Di Fraia

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,456
citations

331670

21
h-index

330143

37
g-index

60
all docs

60
docs citations

60
times ranked

1634
citing authors

#	ARTICLE	IF	CITATIONS
1	Attosecond pulse shaping using a seeded free-electron laser. <i>Nature</i> , 2020, 578, 386-391.	27.8	116
2	Tunability experiments at the FERMI@Elettra free-electron laser. <i>New Journal of Physics</i> , 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. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164007.	1.5	78
4	Acetylacetone photodynamics at a seeded free-electron laser. <i>Nature Communications</i> , 2018, 9, 63.	12.8	72
5	Novel Collective Autoionization Process Observed in Electron Spectra of He Clusters. <i>Physical Review Letters</i> , 2014, 112, 073401.	7.8	70
6	Determining the polarization state of an extreme ultraviolet free-electron laser beam using atomic circular dichroism. <i>Nature Communications</i> , 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. <i>Optics Express</i> , 2016, 24, 18133.	3.4	60
8	Circular Dichroism in Multiphoton Ionization of Resonantly Excited He^n . <i>Physical Review Letters</i> , 2017, 118, 013002.	7.8	58
9	Collective Autoionization in Multiply-Excited Systems: A novel ionization process observed in Helium Nanodroplets. <i>Scientific Reports</i> , 2014, 4, 3621.	3.3	54
10	Tracking attosecond electronic coherences using phase-manipulated extreme ultraviolet pulses. <i>Nature Communications</i> , 2020, 11, 883.	12.8	50
11	Three-Dimensional Shapes of Spinning Helium Nanodroplets. <i>Physical Review Letters</i> , 2018, 121, 255301.	7.8	49
12	Charge Transfer and Penning Ionization of Dopants in or on Helium Nanodroplets Exposed to EUV Radiation. <i>Journal of Physical Chemistry A</i> , 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. <i>Journal of Chemical Physics</i> , 2013, 139, 084301.	3.0	47
14	Pulse Duration of Seeded Free-Electron Lasers. <i>Physical Review X</i> , 2017, 7, .	8.9	47
15	The Low Density Matter (LDM) beamline at FERMI: optical layout and first commissioning. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 538-543.	2.4	46
16	Tracking the ultraviolet-induced photochemistry of thiophenone during and after ultrafast ring opening. <i>Nature Chemistry</i> , 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. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1797-1801.	4.6	41
18	Photoelectric effect with a twist. <i>Nature Photonics</i> , 2020, 14, 554-558.	31.4	39

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

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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	0
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