Michele Di Fraia

List of Publications by Year
in descending order

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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	Light-Induced Magnetization at the Nanoscale. Physical Review Letters, 2022, 128, 157205.	7.8	9
2	Time-Resolved Ultrafast Interatomic Coulombic Decay in Superexcited Sodium-Doped Helium Nanodroplets. Journal of Physical Chemistry Letters, 2022, 13, 4470-4478.	4.6	8
3	Unravelling the full relaxation dynamics of superexcited helium nanodroplets. Physical Chemistry Chemical Physics, 2021, 23, 15138-15149.	2.8	12
4	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
5	Time-resolved photoelectron imaging of complex resonances in molecular nitrogen. Journal of Chemical Physics, 2021, 154, 144305.	3.0	8
6	Ultrafast Resonant Interatomic Coulombic Decay Induced by Quantum Fluid Dynamics. Physical Review X, 2021, 11, .	8.9	10
7	Generation and measurement of intense few-femtosecond superradiant extreme-ultraviolet free-electron laser pulses. Nature Photonics, 2021, 15, 523-529.	31.4	20
8	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
9	Enhancement of Above Threshold Ionization in Resonantly Excited Helium Nanodroplets. Physical Review Letters, 2021, 127, 093201.	7.8	9
10	Ultrafast relaxation of photoexcited superfluid He nanodroplets. Nature Communications, 2020, 11, 112.	12.8	34
11	Tracking the ultraviolet-induced photochemistry of thiophenone during and after ultrafast ring opening. Nature Chemistry, 2020, 12, 795-800.	13.6	44
12	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
13	Photoelectric effect with a twist. Nature Photonics, 2020, 14, 554-558.	31.4	39
14	Attosecond delays in photoionization studied with coherent-controlled FEL. Journal of Physics: Conference Series, 2020, 1412, 112006.	0.4	0
15	Tracking attosecond electronic coherences using phase-manipulated extreme ultraviolet pulses. Nature Communications, 2020, 11, 883.	12.8	50
16	Attosecond pulse shaping using a seeded free-electron laser. Nature, 2020, 578, 386-391.	27.8	116
17	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
18	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

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19	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
20	Autoionization dynamics of helium nanodroplets resonantly excited by intense XUV laser pulses. New Journal of Physics, 2020, 22, 083043.	2.9	15
21	Characterizing crystalline defects in single nanoparticles from angular correlations of single-shot diffracted X-rays. IUCrJ, 2020, 7, 276-286.	2.2	4
22	High-gain harmonic generation with temporally overlapping seed pulses and application to ultrafast spectroscopy. Optics Express, 2020, 28, 29976.	3.4	5
23	Deep neural networks for classifying complex features in diffraction images. Physical Review E, 2019, 99, 063309.	2.1	26
24	A detailed investigation of single-photon laser enabled Auger decay in neon. New Journal of Physics, 2019, 21, 113036.	2.9	12
25	Ultrafast Structural Dynamics of Nanoparticles in Intense Laser Fields. Physical Review Letters, 2019, 123, 123201.	7.8	14
26	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
27	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
28	Complete Characterization of Phase and Amplitude of Bichromatic Extreme Ultraviolet Light. Physical Review Letters, 2019, 123, 213904.	7.8	21
29	Velocity-Map Imaging for Emittance Characterization of Multiphoton Electron Emission from a Gold Surface. Physical Review Applied, 2018, 9, .	3.8	6
30	Acetylacetone photodynamics at a seeded free-electron laser. Nature Communications, 2018, 9, 63.	12.8	72
31	Three-Dimensional Shapes of Spinning Helium Nanodroplets. Physical Review Letters, 2018, 121, 255301.	7.8	49
32	Control of <mml:math 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></mml:msub></mml:mrow></mml: Dissociative Ionization in the Nonlinear Regime Using Vacuum Ultraviolet Free-Electron Laser Pulses. Physical Review Letters, 2018, 121, 103002.	7.8	10
33	Photophysics of indole upon X-ray absorption. Physical Chemistry Chemical Physics, 2018, 20, 20205-20216.	2.8	9
34	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><mml:mo>+</mml:mo></mml:mr Physical Review Letters, 2017, 118, 013002.	7.8	58
35	Impulsive laser-induced alignment of OCS molecules at FERMI. Physical Chemistry Chemical Physics, 2017, 19, 19733-19739.	2.8	5
36	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

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37	Pulse Duration of Seeded Free-Electron Lasers. Physical Review X, 2017, 7, .	8.9	47
38	Circular Dichroism in the Multi-Photon Ionization of Oriented Helium Ions. Journal of Physics: Conference Series, 2017, 875, 022029.	0.4	0
39	Velocity Map Imaging for Photocathode Characterization. , 2017, , .		0
40	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
41	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
42	High Photon Flux 70 eV HHG Source for Applications in Molecular and Solid State Physics. , 2016, , .		2
43	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
44	The Low Density Matter (LDM) beamline at FERMI: optical layout and first commissioning. Journal of Synchrotron Radiation, 2015, 22, 538-543.	2.4	46
45	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
46	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
47	Experimental investigation of the interatomic Coulombic decay in NeAr dimers. Physical Review A, 2014, 90, .	2.5	6
48	Novel Collective Autoionization Process Observed in Electron Spectra of He Clusters. Physical Review Letters, 2014, 112, 073401.	7.8	70
49	Determining the polarization state of an extreme ultraviolet free-electron laser beam using atomic circular dichroism. Nature Communications, 2014, 5, 3648.	12.8	69
50	High Resolution Multiphoton Spectroscopy by a Tunable Free-Electron-Laser Light. Physical Review Letters, 2014, 113, 193201.	7.8	31
51	Collective Autoionization in Multiply-Excited Systems: A novel ionization process observed in Helium Nanodroplets. Scientific Reports, 2014, 4, 3621.	3.3	54
52	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
53	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
54	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

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55	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
56	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
57	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
58	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
59	Tunability experiments at the FERMI@Elettra free-electron laser. New Journal of Physics, 2012, 14, 113009.	2.9	81
60	Bunch by bunch beam monitoring in 3rdand 4thgeneration light sources by means of single crystal diamond detectors and quantum well devices. Proceedings of SPIE, 2012, , .	0.8	5