Tommaso Mazza

List of Publications by Year
in descending order

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71	2,529	218677	189892
papers	citations	26 h-index	50 g-index

71	71	71	3208
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-temporal-resolution X-ray spectroscopy with free-electron and optical lasers. Optica, 2022, 9, 429.	9.3	11
2	Resonance-enhanced x-ray multiple ionization of a polyatomic molecule. Physical Review A, 2022, 105, .	2.5	5
3	Clocking Auger electrons. Nature Physics, 2021, 17, 512-518.	16.7	25
4	Near-threshold two-photon double ionization of Kr in the vacuum ultraviolet. Physical Review A, 2021, 103, .	2.5	3
5	Analysis of two-color photoelectron spectroscopy for attosecond metrology at seeded free-electron lasers. New Journal of Physics, 2021, 23, 043046.	2.9	4
6	Generation and measurement of intense few-femtosecond superradiant extreme-ultraviolet free-electron laser pulses. Nature Photonics, 2021, 15, 523-529.	31.4	20
7	Complex Attosecond Waveform Synthesis at FEL FERMI. Applied Sciences (Switzerland), 2021, 11, 9791.	2.5	5
8	Timing and X-ray pulse characterization at the Small Quantum Systems instrument of the European X-ray Free Electron Laser. Optics Express, 2021, 29, 37429.	3.4	8
9	Photon-recoil imaging: Expanding the view of nonlinear x-ray physics. Science, 2020, 369, 1630-1633.	12.6	19
10	Mapping Resonance Structures in Transient Core-Ionized Atoms. Physical Review X, 2020, 10, .	8.9	17
11	Opportunities for Two-Color Experiments in the Soft X-ray Regime at the European XFEL. Applied Sciences (Switzerland), 2020, 10, 2728.	2.5	27
12	Attosecond delays in photoionization studied with coherent-controlled FEL. Journal of Physics: Conference Series, 2020, 1412, 112006.	0.4	0
13	Attosecond pulse shaping using a seeded free-electron laser. Nature, 2020, 578, 386-391.	27.8	116
14	Ultrafast dynamics of 2-thiouracil investigated by time-resolved Auger spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 54, 014002.	1.5	10
15	New Method for Measuring Angle-Resolved Phases in Photoemission. Physical Review X, 2020, 10, .	8.9	23
16	Ultrafast ion- and electron-spectroscopy with soft X-rays at the European XFEL. , 2020, , .		0
17	A Novel Attosecond Timing Tool for Free-Electron Laser Experiment. , 2020, , .		0
18	Two-color XUV+NIR femtosecond photoionization of neon in the near-threshold region. New Journal of Physics, 2019, 21, 063034.	2.9	8

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19	Intensity-dependent near-threshold ionization of Kr in the vacuum-uv. Journal of Physics: Conference Series, 2019, 1289, 012030.	0.4	0
20	Complete Characterization of Phase and Amplitude of Bichromatic Extreme Ultraviolet Light. Physical Review Letters, 2019, 123, 213904.	7.8	21
21	Femtosecond profiling of shaped x-ray pulses. New Journal of Physics, 2018, 20, 033008.	2.9	15
22	Symmetry breakdown of electron emission in extreme ultraviolet photoionization of argon. Nature Communications, 2018, 9, 4659.	12.8	36
23	Time-resolved electron spectroscopy for chemical analysis of photodissociation: Photoelectron spectra of Fe(CO)5, Fe(CO)4, and Fe(CO)3. Journal of Chemical Physics, 2018, 149, 044307.	3.0	20
24	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></mr Physical Review Letters, 2017, 118, 013002.	7.8	58
25	Communication: Direct evidence for sequential dissociation of gas-phase Fe(CO)5 via a singlet pathway upon excitation at 266 nm. Journal of Chemical Physics, 2017, 146, 211103.	3.0	14
26	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
27	Observation and Control of Laser-Enabled Auger Decay. Physical Review Letters, 2017, 119, 073203.	7.8	29
28	Interatomic Coulombic decay and electron-transfer-mediated decay following triple ionization of Ne2 and NeAr. Chemical Physics, 2017, 482, 244-248.	1.9	3
29	Ion pair formation in the NeAr dimer irradiated by monochromatic soft X-rays. Chemical Physics, 2017, 482, 178-184.	1.9	4
30	Ultrashort Free-Electron Laser X-ray Pulses. Applied Sciences (Switzerland), 2017, 7, 915.	2.5	30
31	Circular Dichroism in the Multi-Photon Ionization of Oriented Helium Ions. Journal of Physics: Conference Series, 2017, 875, 022029.	0.4	0
32	Chirped pulse amplification in an extreme-ultraviolet free-electron laser. Nature Communications, 2016, 7, 13688.	12.8	43
33	Circular dichroism measurements at an x-ray free-electron laser with polarization control. Review of Scientific Instruments, 2016, 87, 083113.	1.3	29
34	Angle resolved photoelectron spectroscopy of two-color XUVâ€“NIR ionization with polarization control. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 165003.	1.5	13
35	Two-electron processes in multiple ionization under strong soft-x-ray radiation. Physical Review A, 2016, 94, .	2.5	9
36	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

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37	Coherent control with a short-wavelength free-electron laser. Nature Photonics, 2016, 10, 176-179.	31.4	197
38	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
39	The Low Density Matter (LDM) beamline at FERMI: optical layout and first commissioning. Journal of Synchrotron Radiation, 2015, 22, 538-543.	2.4	46
40	Femtosecond all-optical synchronization of an X-ray free-electron laser. Nature Communications, 2015, 6, 5938.	12.8	171
41	Sensitivity of nonlinear photoionization to resonance substructure in collective excitation. Nature Communications, 2015, 6, 6799.	12.8	31
42	Dichroism in the photoionisation of atoms at XUV free-electron lasers. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 313-321.	1.7	5
43	Coulomb frustration of the multiphoton ionization of metallic clusters under intense EUV FEL evidenced by ion spectrometry. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 234001.	1.5	1
44	Control of the Polarization of a Vacuum-Ultraviolet, High-Gain, Free-Electron Laser. Physical Review X, 2014, 4, .	8.9	80
45	Novel Collective Autoionization Process Observed in Electron Spectra of He Clusters. Physical Review Letters, 2014, 112, 073401.	7.8	70
46	Determining the polarization state of an extreme ultraviolet free-electron laser beam using atomic circular dichroism. Nature Communications, 2014, 5, 3648.	12.8	69
47	High Resolution Multiphoton Spectroscopy by a Tunable Free-Electron-Laser Light. Physical Review Letters, 2014, 113, 193201.	7.8	31
48	Polarization measurement of free electron laser pulses in the VUV generated by the variable polarization source FERMI. , 2014, , .		4
49	Collective Autoionization in Multiply-Excited Systems: A novel ionization process observed in Helium Nanodroplets. Scientific Reports, 2014, 4, 3621.	3.3	54
50	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
51	Controlling core hole relaxation dynamics via intense optical fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 141001.	1.5	18
52	Interatomic Coulombic decay and electron-transfer-mediated decay following triple ionization in Ne₂, NeAr, and Ar₂. Journal of Physics: Conference Series, 2012, 388, 022043.	0.4	0
53	Ultrafast X-ray pulse characterization at free-electron lasers. Nature Photonics, 2012, 6, 852-857.	31.4	189
54	A velocity map imaging apparatus for gas phase studies at FERMI@Elettra. Nuclear Instruments & Methods in Physics Research B, 2012, 284, 69-73.	1.4	11

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55	sp hybridization in free carbon nanoparticlesâ€"presence and stability observed by near edge X-ray absorption fine structure spectroscopy. Chemical Communications, 2011, 47, 2952.	4.1	22
56	Accessing the fractal dimension of free clusters in supersonic beams. New Journal of Physics, 2011, 13, 023009.	2.9	8
57	Interatomic Coulombic decay following Ne<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mi>s</mml:mi></mml:mrow></mml:math>Auger decay in NeAr. Physical Review A, 2011, 83, .	2.5	34
58	Electron-Transfer-Mediated Decay and Interatomic Coulombic Decay from the Triply Ionized States in Argon Dimers. Physical Review Letters, 2011, 106, 033401.	7.8	70
59	Photoelectron spectroscopy of sequential three-photon double ionization of Ar irradiated by EUV free-electron laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 111001.	1.5	27
60	Nanoscale electrical properties of cluster-assembled palladium oxide thin films. Physical Review B, 2009, 79, .	3.2	12
61	Probing the chemical reactivity of free titanium clusters by x-ray absorption spectroscopy. Applied Physics A: Materials Science and Processing, 2008, 92, 463-471.	2.3	12
62	CESyRa: A versatile setup for core-level absorption experiments on free metallic clusters using synchrotron radiation. Journal of Electron Spectroscopy and Related Phenomena, 2008, 166-167, 28-37.	1.7	5
63	Electronic structure of cluster assembled nanostructured TiO2 by resonant photoemission at the Ti L2,3 edge. Journal of Chemical Physics, 2008, 128, 094704.	3.0	30
64	Comment on â€œSize-dependent modifications of the Raman spectrum of rutile TiO2â€•[Appl. Phys. Lett. 89, 163118 (2006)]. Applied Physics Letters, 2007, 91, .	3.3	6
65	Raman spectroscopy characterization ofTiO2rutile nanocrystals. Physical Review B, 2007, 75, .	3.2	229
66	Free small nanoclusters of titanium: XANES study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 575, 165-167.	1.6	5
67	Photoemission investigations on nanostructured TiO2 grown by cluster assembling. Surface Science, 2007, 601, 2688-2691.	1.9	7
68	Core level spectroscopy of free titanium clusters in supersonic beams. New Journal of Physics, 2006, 8, 136-136.	2.9	31
69	Vibrational properties of nanometric AB2ionic clusters. Journal of Physics Condensed Matter, 2005, 17, 3787-3806.	1.8	4
70	Raman spectroscopy characterization of titania nanoparticles produced by flame pyrolysis: The influence of size and stoichiometry. Journal of Applied Physics, 2005, 98, 074305.	2.5	272
71	Libraries of cluster-assembled titania films for chemical sensing. Applied Physics Letters, 2005, 87, 103108.	3.3	52