

# Tommaso Mazza

## List of Publications by Year in descending order

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71  
papers

2,529  
citations

218677

26  
h-index

189892

50  
g-index

71  
all docs

71  
docs citations

71  
times ranked

3208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman spectroscopy characterization of titania nanoparticles produced by flame pyrolysis: The influence of size and stoichiometry. <i>Journal of Applied Physics</i> , 2005, 98, 074305.	2.5	272
2	Raman spectroscopy characterization of TiO <sub>2</sub> rutile nanocrystals. <i>Physical Review B</i> , 2007, 75, .	3.2	229
3	Coherent control with a short-wavelength free-electron laser. <i>Nature Photonics</i> , 2016, 10, 176-179.	31.4	197
4	Ultrafast X-ray pulse characterization at free-electron lasers. <i>Nature Photonics</i> , 2012, 6, 852-857.	31.4	189
5	Femtosecond all-optical synchronization of an X-ray free-electron laser. <i>Nature Communications</i> , 2015, 6, 5938.	12.8	171
6	Attosecond pulse shaping using a seeded free-electron laser. <i>Nature</i> , 2020, 578, 386-391.	27.8	116
7	Control of the Polarization of a Vacuum-Ultraviolet, High-Gain, Free-Electron Laser. <i>Physical Review X</i> , 2014, 4, .	8.9	80
8	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
9	Electron-Transfer-Mediated Decay and Interatomic Coulombic Decay from the Triply Ionized States in Argon Dimers. <i>Physical Review Letters</i> , 2011, 106, 033401.	7.8	70
10	Novel Collective Autoionization Process Observed in Electron Spectra of He Clusters. <i>Physical Review Letters</i> , 2014, 112, 073401.	7.8	70
11	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
12	Circular Dichroism in Multiphoton Ionization of Resonantly Excited $\text{He}^+$ . <i>Physical Review Letters</i> , 2017, 118, 013002.	7.8	58
13	Collective Autoionization in Multiply-Excited Systems: A novel ionization process observed in Helium Nanodroplets. <i>Scientific Reports</i> , 2014, 4, 3621.	3.3	54
14	Libraries of cluster-assembled titania films for chemical sensing. <i>Applied Physics Letters</i> , 2005, 87, 103108.	3.3	52
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	Chirped pulse amplification in an extreme-ultraviolet free-electron laser. <i>Nature Communications</i> , 2016, 7, 13688.	12.8	43
17	Symmetry breakdown of electron emission in extreme ultraviolet photoionization of argon. <i>Nature Communications</i> , 2018, 9, 4659.	12.8	36
18	Interatomic Coulombic decay following Ne $1s$ Auger decay in NeAr. <i>Physical Review A</i> , 2011, 83, .	2.5	34

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19	Core level spectroscopy of free titanium clusters in supersonic beams. <i>New Journal of Physics</i> , 2006, 8, 136-136.	2.9	31
20	High Resolution Multiphoton Spectroscopy by a Tunable Free-Electron-Laser Light. <i>Physical Review Letters</i> , 2014, 113, 193201.	7.8	31
21	Sensitivity of nonlinear photoionization to resonance substructure in collective excitation. <i>Nature Communications</i> , 2015, 6, 6799.	12.8	31
22	Electronic structure of cluster assembled nanostructured TiO <sub>2</sub> by resonant photoemission at the Ti L <sub>2,3</sub> edge. <i>Journal of Chemical Physics</i> , 2008, 128, 094704.	3.0	30
23	Ultrashort Free-Electron Laser X-ray Pulses. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 915.	2.5	30
24	Circular dichroism measurements at an x-ray free-electron laser with polarization control. <i>Review of Scientific Instruments</i> , 2016, 87, 083113.	1.3	29
25	Observation and Control of Laser-Enabled Auger Decay. <i>Physical Review Letters</i> , 2017, 119, 073203.	7.8	29
26	Photoelectron spectroscopy of sequential three-photon double ionization of Ar irradiated by EUV free-electron laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 111001.	1.5	27
27	Opportunities for Two-Color Experiments in the Soft X-ray Regime at the European XFEL. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2728.	2.5	27
28	Clocking Auger electrons. <i>Nature Physics</i> , 2021, 17, 512-518.	16.7	25
29	New Method for Measuring Angle-Resolved Phases in Photoemission. <i>Physical Review X</i> , 2020, 10, .	8.9	23
30	sp hybridization in free carbon nanoparticlesâ€™ presence and stability observed by near edge X-ray absorption fine structure spectroscopy. <i>Chemical Communications</i> , 2011, 47, 2952.	4.1	22
31	Complete Characterization of Phase and Amplitude of Bichromatic Extreme Ultraviolet Light. <i>Physical Review Letters</i> , 2019, 123, 213904.	7.8	21
32	Time-resolved electron spectroscopy for chemical analysis of photodissociation: Photoelectron spectra of Fe(CO) <sub>5</sub> , Fe(CO) <sub>4</sub> , and Fe(CO) <sub>3</sub> . <i>Journal of Chemical Physics</i> , 2018, 149, 044307.	3.0	20
33	Generation and measurement of intense few-femtosecond superradiant extreme-ultraviolet free-electron laser pulses. <i>Nature Photonics</i> , 2021, 15, 523-529.	31.4	20
34	Photon-recoil imaging: Expanding the view of nonlinear x-ray physics. <i>Science</i> , 2020, 369, 1630-1633.	12.6	19
35	Controlling core hole relaxation dynamics via intense optical fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 141001.	1.5	18
36	Mapping Resonance Structures in Transient Core-Ionized Atoms. <i>Physical Review X</i> , 2020, 10, .	8.9	17

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37	Femtosecond profiling of shaped x-ray pulses. <i>New Journal of Physics</i> , 2018, 20, 033008.	2.9	15
38	Angular distribution and circular dichroism in the two-colour XUV+NIR above-threshold ionization of helium. <i>Journal of Modern Optics</i> , 2016, 63, 367-382.	1.3	14
39	Communication: Direct evidence for sequential dissociation of gas-phase Fe(CO) <sub>5</sub> via a singlet pathway upon excitation at 266 nm. <i>Journal of Chemical Physics</i> , 2017, 146, 211103.	3.0	14
40	Angle resolved photoelectron spectroscopy of two-color XUV+NIR ionization with polarization control. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 165003.	1.5	13
41	Probing the chemical reactivity of free titanium clusters by x-ray absorption spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 463-471.	2.3	12
42	Nanoscale electrical properties of cluster-assembled palladium oxide thin films. <i>Physical Review B</i> , 2009, 79, .	3.2	12
43	A velocity map imaging apparatus for gas phase studies at FERMI@Elettra. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2012, 284, 69-73.	1.4	11
44	High-temporal-resolution X-ray spectroscopy with free-electron and optical lasers. <i>Optica</i> , 2022, 9, 429.	9.3	11
45	Ultrafast dynamics of 2-thiouracil investigated by time-resolved Auger spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 54, 014002.	1.5	10
46	Two-electron processes in multiple ionization under strong soft-x-ray radiation. <i>Physical Review A</i> , 2016, 94, .	2.5	9
47	Accessing the fractal dimension of free clusters in supersonic beams. <i>New Journal of Physics</i> , 2011, 13, 023009.	2.9	8
48	Two-color XUV+NIR femtosecond photoionization of neon in the near-threshold region. <i>New Journal of Physics</i> , 2019, 21, 063034.	2.9	8
49	Timing and X-ray pulse characterization at the Small Quantum Systems instrument of the European X-ray Free Electron Laser. <i>Optics Express</i> , 2021, 29, 37429.	3.4	8
50	Photoemission investigations on nanostructured TiO <sub>2</sub> grown by cluster assembling. <i>Surface Science</i> , 2007, 601, 2688-2691.	1.9	7
51	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
52	Comment on "Size-dependent modifications of the Raman spectrum of rutile TiO <sub>2</sub> ". [ <i>Appl. Phys. Lett.</i> 89, 163118 (2006)]. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	6
53	Free small nanoclusters of titanium: XANES study. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 575, 165-167.	1.6	5
54	CESyRa: A versatile setup for core-level absorption experiments on free metallic clusters using synchrotron radiation. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2008, 166-167, 28-37.	1.7	5

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55	Dichroism in the photoionisation of atoms at XUV free-electron lasers. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 204, 313-321.	1.7	5
56	Complex Attosecond Waveform Synthesis at FEL FERMI. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9791.	2.5	5
57	Resonance-enhanced x-ray multiple ionization of a polyatomic molecule. <i>Physical Review A</i> , 2022, 105, .	2.5	5
58	Vibrational properties of nanometric AB <sub>2</sub> ionic clusters. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 3787-3806.	1.8	4
59	Polarization measurement of free electron laser pulses in the VUV generated by the variable polarization source FERMI. , 2014, , .		4
60	Ion pair formation in the NeAr dimer irradiated by monochromatic soft X-rays. <i>Chemical Physics</i> , 2017, 482, 178-184.	1.9	4
61	Analysis of two-color photoelectron spectroscopy for attosecond metrology at seeded free-electron lasers. <i>New Journal of Physics</i> , 2021, 23, 043046.	2.9	4
62	Interatomic Coulombic decay and electron-transfer-mediated decay following triple ionization of Ne <sub>2</sub> and NeAr. <i>Chemical Physics</i> , 2017, 482, 244-248.	1.9	3
63	Near-threshold two-photon double ionization of Kr in the vacuum ultraviolet. <i>Physical Review A</i> , 2021, 103, .	2.5	3
64	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
65	Coulomb frustration of the multiphoton ionization of metallic clusters under intense EUV FEL evidenced by ion spectrometry. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 234001.	1.5	1
66	Interatomic Coulombic decay and electron-transfer-mediated decay following triple ionization in Ne <sub>2</sub> , NeAr, and Ar <sub>2</sub> . <i>Journal of Physics: Conference Series</i> , 2012, 388, 022043.	0.4	0
67	Circular Dichroism in the Multi-Photon Ionization of Oriented Helium Ions. <i>Journal of Physics: Conference Series</i> , 2017, 875, 022029.	0.4	0
68	Intensity-dependent near-threshold ionization of Kr in the vacuum-uv. <i>Journal of Physics: Conference Series</i> , 2019, 1289, 012030.	0.4	0
69	Attosecond delays in photoionization studied with coherent-controlled FEL. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 112006.	0.4	0
70	Ultrafast ion- and electron-spectroscopy with soft X-rays at the European XFEL. , 2020, , .		0
71	A Novel Attosecond Timing Tool for Free-Electron Laser Experiment. , 2020, , .		0