

Stefano M Cavaletto

List of Publications by Year in descending order

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31
papers

452
citations

840119

11
h-index

713013

21
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31
all docs

31
docs citations

31
times ranked

495
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray quantum optics. <i>Journal of Modern Optics</i> , 2013, 60, 2-21.	0.6	120
2	Real-Time Reconstruction of the Strong-Field-Driven Dipole Response. <i>Physical Review Letters</i> , 2018, 121, 173005.	2.9	37
3	Resonance fluorescence in ultrafast and intense x-ray free-electron-laser pulses. <i>Physical Review A</i> , 2012, 86, .	1.0	34
4	Broadband high-resolution X-ray frequency combs. <i>Nature Photonics</i> , 2014, 8, 520-523.	15.6	34
5	Astrophysical Line Diagnosis Requires Nonlinear Dynamical Atomic Modeling. <i>Physical Review Letters</i> , 2014, 113, 143001.	2.9	25
6	Nonlinear Coherence Effects in Transient-Absorption Ion Spectroscopy with Stochastic Extreme-Ultraviolet Free-Electron Laser Pulses. <i>Physical Review Letters</i> , 2019, 123, 103001.	2.9	24
7	Phase Reconstruction of Strong-Field Excited Systems by Transient-Absorption Spectroscopy. <i>Physical Review Letters</i> , 2015, 115, 033003.	2.9	20
8	Unveiling the spatial distribution of molecular coherences at conical intersections by covariance X-ray diffraction signals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	15
9	Measuring the frequency chirp of extreme-ultraviolet free-electron laser pulses by transient absorption spectroscopy. <i>Nature Communications</i> , 2021, 12, 643.	5.8	14
10	X-ray frequency combs from optically controlled resonance fluorescence. <i>Physical Review A</i> , 2013, 88, .	1.0	12
11	Ultrafast Valence-Electron Dynamics in Oxazole Monitored by X-ray Diffraction Following a Stimulated X-ray Raman Excitation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9800-9806.	2.1	12
12	Hyperfine splitting in simple ions for the search of the variation of fundamental constants. <i>Physical Review A</i> , 2017, 96, .	1.0	10
13	Interrogating the Temporal Coherence of EUV Frequency Combs with Highly Charged Ions. <i>Physical Review Letters</i> , 2020, 125, 093201.	2.9	10
14	Narrow-band hard-x-ray lasing with highly charged ions. <i>Scientific Reports</i> , 2020, 10, 9439.	1.6	9
15	Manipulating valence and core electronic excitations of a transition-metal complex using UV/Vis and X-ray cavities. <i>Chemical Science</i> , 2021, 12, 8088-8095.	3.7	9
16	High Temporal and Spectral Resolution of Stimulated X-Ray Raman Signals with Stochastic Free-Electron-Laser Pulses. <i>Physical Review X</i> , 2021, 11, .	2.8	8
17	X-ray fluorescence spectrum of highly charged Fe ions driven by strong free-electron-laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 094003.	0.6	7
18	Resonant Stimulated X-ray Raman Spectroscopy of Mixed-Valence Manganese Complexes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5925-5931.	2.1	7

#	ARTICLE	IF	CITATIONS
19	Time-Resolved Optical Pump-Resonant X-ray Probe Spectroscopy of 4-Thiouracil: A Simulation Study. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 3075-3088.	2.3	7
20	Electronic coherences in nonadiabatic molecular photophysics revealed by time-resolved photoelectron spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2121383119.	3.3	6
21	Spectral properties of attractive bosons in a ring lattice including a single-site potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 115308.	0.6	5
22	Generation of high-frequency combs locked to atomic resonances by quantum phase modulation. <i>New Journal of Physics</i> , 2014, 16, 093005.	1.2	5
23	Observation and quantification of the quantum dynamics of a strong-field excited multi-level system. <i>Scientific Reports</i> , 2017, 7, 39993.	1.6	5
24	Deterministic strong-field quantum control. <i>Physical Review A</i> , 2017, 95, .	1.0	5
25	Resonant X-ray Sum-Frequency-Generation Spectroscopy of K-Edges in Acetyl Fluoride. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6832-6839.	2.3	5
26	Transient-absorption phases with strong probe and pump pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 035501.	0.6	3
27	Probing Delocalized Current Densities in Selenophene by Resonant X-ray Sum-Frequency Generation. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 367-375.	2.3	2
28	Transient measurement of phononic states with covariance-based stochastic spectroscopy. <i>Light: Science and Applications</i> , 2022, 11, 44.	7.7	2
29	Light-induced states in the transient-absorption spectrum of a periodically pumped strong-field-excited system. <i>Physical Review A</i> , 2019, 99, .	1.0	0
30	Ultrafast X-ray science: general discussion. <i>Faraday Discussions</i> , 2021, 228, 597-621.	1.6	0
31	Monitoring Molecular Coherences at Conical Intersections via X-ray Raman Spectroscopy and Diffraction with Stochastic Free-Electron-Laser Pulses. , 2021, , .		0