Stefano M Cavaletto

List of Publications by Year
in descending order

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Version: 2024-02-01

31 papers	452 citations	840119 11 h-index	713013 21 g-index
31 all docs	31 docs citations	31 times ranked	495 citing authors

#	Article	IF	Citations
1	Electronic coherences in nonadiabatic molecular photophysics revealed by time-resolved photoelectron spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2121383119.	3.3	6
2	Transient measurement of phononic states with covariance-based stochastic spectroscopy. Light: Science and Applications, 2022, 11, 44.	7.7	2
3	Time-Resolved Optical Pump-Resonant X-ray Probe Spectroscopy of 4-Thiouracil: A Simulation Study. Journal of Chemical Theory and Computation, 2022, 18, 3075-3088.	2.3	7
4	Probing Delocalized Current Densities in Selenophene by Resonant X-ray Sum-Frequency Generation. Journal of Chemical Theory and Computation, 2021, 17, 367-375.	2.3	2
5	Ultrafast X-ray science: general discussion. Faraday Discussions, 2021, 228, 597-621.	1.6	0
6	Measuring the frequency chirp of extreme-ultraviolet free-electron laser pulses by transient absorption spectroscopy. Nature Communications, 2021, 12, 643.	5.8	14
7	High Temporal and Spectral Resolution of Stimulated X-Ray Raman Signals with Stochastic Free-Electron-Laser Pulses. Physical Review X, 2021, 11, .	2.8	8
8	Unveiling the spatial distribution of molecular coherences at conical intersections by covariance X-ray diffraction signals. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
9	Resonant Stimulated X-ray Raman Spectroscopy of Mixed-Valence Manganese Complexes. Journal of Physical Chemistry Letters, 2021, 12, 5925-5931.	2.1	7
10	Manipulating valence and core electronic excitations of a transition-metal complex using UV/Vis and X-ray cavities. Chemical Science, 2021, 12, 8088-8095.	3.7	9
11	Ultrafast Valence-Electron Dynamics in Oxazole Monitored by X-ray Diffraction Following a Stimulated X-ray Raman Excitation. Journal of Physical Chemistry Letters, 2021, 12, 9800-9806.	2.1	12
12	Monitoring Molecular Coherences at Conical Intersections via X-ray Raman Spectroscopy and Diffraction with Stochastic Free-Electron-Laser Pulses. , 2021, , .		0
13	Interrogating the Temporal Coherence of EUV Frequency Combs with Highly Charged Ions. Physical Review Letters, 2020, 125, 093201.	2.9	10
14	Narrow-band hard-x-ray lasing with highly charged ions. Scientific Reports, 2020, 10, 9439.	1.6	9
15	Resonant X-ray Sum-Frequency-Generation Spectroscopy of K-Edges in Acetyl Fluoride. Journal of Chemical Theory and Computation, 2019, 15, 6832-6839.	2.3	5
16	Nonlinear Coherence Effects in Transient-Absorption Ion Spectroscopy with Stochastic Extreme-Ultraviolet Free-Electron Laser Pulses. Physical Review Letters, 2019, 123, 103001.	2.9	24
17	Light-induced states in the transient-absorption spectrum of a periodically pumped strong-field-excited system. Physical Review A, 2019, 99, .	1.0	0
18	Transient-absorption phases with strong probe and pump pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 035501.	0.6	3

#	Article	IF	Citations
19	Real-Time Reconstruction of the Strong-Field-Driven Dipole Response. Physical Review Letters, 2018, 121, 173005.	2.9	37
20	Observation and quantification of the quantum dynamics of a strong-field excited multi-level system. Scientific Reports, 2017, 7, 39993.	1.6	5
21	Hyperfine splitting in simple ions for the search of the variation of fundamental constants. Physical Review A, 2017, 96, .	1.0	10
22	Deterministic strong-field quantum control. Physical Review A, 2017, 95, .	1.0	5
23	X-ray fluorescence spectrum of highly charged Fe ions driven by strong free-electron-laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 094003.	0.6	7
24	Phase Reconstruction of Strong-Field Excited Systems by Transient-Absorption Spectroscopy. Physical Review Letters, 2015, 115, 033003.	2.9	20
25	Generation of high-frequency combs locked to atomic resonances by quantum phase modulation. New Journal of Physics, 2014, 16, 093005.	1.2	5
26	Astrophysical Line Diagnosis Requires Nonlinear Dynamical Atomic Modeling. Physical Review Letters, 2014, 113, 143001.	2.9	25
27	Broadband high-resolution X-ray frequency combs. Nature Photonics, 2014, 8, 520-523.	15.6	34
28	X-ray quantum optics. Journal of Modern Optics, 2013, 60, 2-21.	0.6	120
29	X-ray frequency combs from optically controlled resonance fluorescence. Physical Review A, 2013, 88, .	1.0	12
30	Resonance fluorescence in ultrafast and intense x-ray free-electron-laser pulses. Physical Review A, 2012, 86, .	1.0	34
31	Spectral properties of attractive bosons in a ring lattice including a single-site potential. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 115308.	0.6	5