

Stephen H Southworth

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,830
citations

430874

18
h-index

477307

29
g-index

31
all docs

31
docs citations

31
times ranked

2739
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond electronic response of atoms to ultra-intense X-rays. <i>Nature</i> , 2010, 466, 56-61.	27.8	711
2	Observation of the fastest chemical processes in the radiolysis of water. <i>Science</i> , 2020, 367, 179-182.	12.6	149
3	Unveiling and Driving Hidden Resonances with High-Fluence, High-Intensity X-Ray Pulses. <i>Physical Review Letters</i> , 2011, 107, 233001.	7.8	131
4	Guest-Host Interactions Investigated by Time-Resolved X-ray Spectroscopies and Scattering at MHz Rates: Solvation Dynamics and Photoinduced Spin Transition in Aqueous Fe(bipy) ₃ ²⁺ . <i>Journal of Physical Chemistry A</i> , 2012, 116, 9878-9887.	2.5	112
5	Development of high-repetition-rate laser pump/x-ray probe methodologies for synchrotron facilities. <i>Review of Scientific Instruments</i> , 2011, 82, 073110.	1.3	84
6	Tracking the Structural and Electronic Configurations of a Cobalt Proton Reduction Catalyst in Water. <i>Journal of the American Chemical Society</i> , 2016, 138, 10586-10596.	13.7	77
7	Detailed Characterization of a Nanosecond-Lived Excited State: X-ray and Theoretical Investigation of the Quintet State in Photoexcited [Fe(terpy) ₂] ²⁺ . <i>Journal of Physical Chemistry C</i> , 2015, 119, 5888-5902.	3.1	72
8	X-Ray Microprobe of Orbital Alignment in Strong-Field Ionized Atoms. <i>Physical Review Letters</i> , 2006, 97, 083601.	7.8	71
9	Hetero-site-specific X-ray pump-probe spectroscopy for femtosecond intramolecular dynamics. <i>Nature Communications</i> , 2016, 7, 11652.	12.8	70
10	Direct observation of coherent femtosecond solvent reorganization coupled to intramolecular electron transfer. <i>Nature Chemistry</i> , 2021, 13, 343-349.	13.6	59
11	Comprehensive Experimental and Computational Spectroscopic Study of Hexacyanoferrate Complexes in Water: From Infrared to X-ray Wavelengths. <i>Journal of Physical Chemistry B</i> , 2018, 122, 5075-5086.	2.6	40
12	Chemical Understanding of the Limited Site-Specificity in Molecular Inner-Shell Photofragmentation. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1156-1163.	4.6	31
13	Using Ultrafast X-ray Spectroscopy To Address Questions in Ligand-Field Theory: The Excited State Spin and Structure of [Fe(dcpp) ₂] ²⁺ . <i>Inorganic Chemistry</i> , 2019, 58, 9341-9350.	4.0	29
14	Resonant Inelastic X-Ray Scattering Reveals Hidden Local Transitions of the Aqueous OH Radical. <i>Physical Review Letters</i> , 2020, 124, 236001.	7.8	28
15	Probing Transient Valence Orbital Changes with Picosecond Valence-to-Core X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2620-2626.	3.1	27
16	The role of transient resonances for ultra-fast imaging of single sucrose nanoclusters. <i>Nature Communications</i> , 2020, 11, 167.	12.8	27
17	Mechanistic Evaluation of a Nickel Proton Reduction Catalyst Using Time-Resolved X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20049-20057.	3.1	21
18	Three-dimensional optical trapping and orientation of microparticles for coherent X-ray diffraction imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4018-4024.	7.1	18

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19	Inner-shell photoionization and core-hole decay of Xe and XeF ₂ . Journal of Chemical Physics, 2015, 142, 224302.	3.0	15
20	Observing pre-edge resonances in Kr, Xe, and XeF ₂ . Physical Review A, 2019, 100, .	2.5	11
21	Femtosecond X-ray Spectroscopy Directly Quantifies Transient Excited-State Mixed Valency. Journal of Physical Chemistry Letters, 2022, 13, 378-386.	4.6	9
22	From synchrotrons for XFELs: the soft x-ray near-edge spectrum of the ESCA molecule. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 244011.	1.5	7
23	Micro-focused MHz pink beam for time-resolved X-ray emission spectroscopy. Journal of Synchrotron Radiation, 2019, 26, 1956-1966.	2.4	7
24	Pulse Energy and Pulse Duration Effects in the Ionization and Fragmentation of Iodomethane by Ultraintense Hard X Rays. Physical Review Letters, 2021, 127, 093202.	7.8	6
25	Site-Selective Real-Time Observation of Bimolecular Electron Transfer in a Photocatalytic System Using Edge X-ray Absorption Spectroscopy**. ChemPhysChem, 2021, 22, 693-700.	2.1	5
26	High intensity x-ray interaction with a model bio-molecule system: double-core-hole states and fragmentation of formamide. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 244005.	1.5	5
27	Resonant x-ray absorption of strong-field-ionized CF ₃ Br. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 244009.	1.5	4
28	Benchmark Relativistic Delta-Coupled-Cluster Calculations of K-Edge Core-Ionization Energies for Third-Row Elements. Physical Chemistry Chemical Physics, 0, , .	2.8	2
29	Photon-In/Photon-Out X-ray Free-Electron Laser Studies of Radiolysis. Applied Sciences (Switzerland), 2021, 11, 701.	2.5	1
30	Perspectives on UV and x-ray photoelectron spectroscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 043002.	2.1	0