

Stacey L Sorensen

List of Publications by Year in descending order

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89
papers

2,018
citations

218677

26
h-index

276875

41
g-index

91
all docs

91
docs citations

91
times ranked

1697
citing authors

#	ARTICLE	IF	CITATIONS
1	Doppler Splitting of In-Flight Auger Decay of Dissociating Oxygen Molecules: The Localization of Delocalized Core Holes. <i>Physical Review Letters</i> , 2000, 84, 2826-2829.	7.8	123
2	Evidence for ultra-fast dissociation of molecular water from resonant Auger spectroscopy. <i>Chemical Physics Letters</i> , 2001, 334, 151-158.	2.6	114
3	Vibrational structure in the carbon 1s ionization of hydrocarbons: Calculation using electronic structure theory and the equivalent-cores approximation. <i>Journal of Chemical Physics</i> , 1998, 109, 1041-1051.	3.0	86
4	The size of neutral free clusters as manifested in the relative bulk-to-surface intensity in core level photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2004, 120, 345-356.	3.0	82
5	The electronic structure of free water clusters probed by Auger electron spectroscopy. <i>Journal of Chemical Physics</i> , 2005, 123, 054310.	3.0	80
6	Double ionization probed on the attosecond timescale. <i>Nature Physics</i> , 2014, 10, 207-211.	16.7	74
7	Orbital-specific dynamic charge transfer from Fe(II)-tetraphenylporphyrin molecules to molybdenum disulfide substrates. <i>Physical Review B</i> , 2005, 72, .	3.2	67
8	Variable surface composition and radial interface formation in self-assembled free, mixed Ar•Xe clusters. <i>Physical Review A</i> , 2004, 69, .	2.5	66
9	Selective probing of the electronic structure of free clusters using resonant core-level spectroscopy. <i>Chemical Physics</i> , 2003, 289, 3-13.	1.9	58
10	The surface core-level shift of the Pd(100) single-crystal surface. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 277-283.	1.8	47
11	Bond-distance-dependent decay probability of the N 1s σ^*_{1s} core-excited state in N ₂ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 1819-1826.	1.5	47
12	Description and performance of an electron-ion coincidence TOF spectrometer used at the Brazilian synchrotron facility LNLS. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 180, 6-13.	1.7	47
13	Core excitations of naphthalene: Vibrational structure versus chemical shifts. <i>Journal of Chemical Physics</i> , 2004, 121, 5733-5739.	3.0	45
14	L-shell Coster-Kronig transition probabilities in Ni, Cu, and Mo measured with synchrotron radiation. <i>Physical Review A</i> , 1991, 44, 350-357.	2.5	44
15	Observation of elastic scattering effects on photoelectron angular distributions in free Xe clusters. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 3937-3949.	1.5	42
16	Radial surface segregation in free heterogeneous argon/krypton clusters. <i>Chemical Physics Letters</i> , 2004, 392, 433-438.	2.6	41
17	From localised to delocalised electronic states in free Ar, Kr and Xe clusters. <i>European Physical Journal D</i> , 2004, 30, 343-351.	1.3	40
18	Core level ionization dynamics in small molecules studied by x-ray-emission threshold-electron coincidence spectroscopy. <i>Physical Review A</i> , 2005, 71, .	2.5	36

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37	Rapid bond rearrangement in core-excited molecular water. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19322.	2.8	18
38	The predissociation of highly excited states in acetylene by time-resolved photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2003, 119, 3763-3773.	3.0	17
39	Molecular alignment of ammonia studied by electron-ion-ion coincidence spectroscopy. <i>Journal of Chemical Physics</i> , 2005, 122, 114306.	3.0	17
40	Development and characterization of a multiple-coincidence ion-momentum imaging spectrometer. <i>Review of Scientific Instruments</i> , 2013, 84, 123113.	1.3	17
41	Nuclear motion in carbonyl sulfide induced by resonant core electron excitation. <i>Journal of Chemical Physics</i> , 2010, 133, 144314.	3.0	16
42	Role of the Renner-Teller effect after core hole excitation in the dissociation dynamics of carbon dioxide dication. <i>Journal of Chemical Physics</i> , 2012, 136, 104303.	3.0	16
43	Application of an atomic relaxation model for the interpretation of O1s to Rydberg excited Auger electron spectra of molecular oxygen. <i>Chemical Physics Letters</i> , 2004, 398, 168-174.	2.6	15
44	Photon energy dependence of fragmentation of small argon clusters. <i>Journal of Chemical Physics</i> , 2005, 123, 194301.	3.0	15
45	Specific production of very long-lived core-excited sulfur atoms by $2p\pi^*1\tilde{I}f^*$ excitation of the OCS molecule followed by ultrafast dissociation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, L269-L275.	1.5	15
46	Auger decay of core-excited higher Rydberg states of carbon monoxide. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 4267-4278.	1.5	14
47	Resonant x-ray Raman Scattering involving avoided crossings in the final-state potential-energy curves. <i>Physical Review A</i> , 2000, 62, .	2.5	14
48	Site-specific electronic structure of an oligo-ethylenedioxythiophene derivative probed by resonant photoemission. <i>New Journal of Physics</i> , 2005, 7, 104-104.	2.9	14
49	Influence of chemical bonds on the lifetime of the molecular-field-split levels in H ₂ S. <i>Physical Review A</i> , 2003, 67, .	2.5	12
50	Ionlike energy structure of neutral core-excited states in free Kr clusters. <i>Physical Review A</i> , 2005, 72, .	2.5	11
51	Femtosecond Charge Transfer in Assemblies of Discotic Liquid Crystals. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15784-15790.	3.1	11
52	Plasmon single- and multi-quantum excitation in free metal clusters as seen by photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2011, 134, 094511.	3.0	11
53	Resonant Auger spectroscopy of argon clusters at the threshold. <i>Physical Review A</i> , 2005, 71, .	2.5	10
54	Resonant Auger decay study of core-excited OCS. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 174, 100-106.	1.7	10

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55	Dissociative double-photoionization of butadiene in the 25-45 eV energy range using 3-D multi-coincidence ion momentum imaging spectrometry. <i>Journal of Chemical Physics</i> , 2015, 143, 114309.	3.0	10
56	Molecular dynamics of NH ₃ induced by core-electron excitation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18944-18952.	2.8	10
57	Breaking inversion symmetry by protonation: experimental and theoretical NEXAFS study of the diazynium ion, N ₂ H ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17166-17176.	2.8	10
58	X-ray-emission-threshold-electron coincidence spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 141, 161-170.	1.7	9
59	Photon-energy-sensitive SiL _{2,3} VV Auger satellite. <i>Physical Review B</i> , 1989, 39, 6048-6051.	3.2	8
60	Valence photoionization and resonant core excitation of ozone – experimental and theoretical study of the Clf-state of O ₃ ⁺ . <i>Chemical Physics Letters</i> , 2003, 375, 76-83.	2.6	8
61	The role of charge and proton transfer in fragmentation of hydrogen-bonded nanosystems: the breakup of ammonia clusters upon single photon multi-ionization. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 932-940.	2.8	8
62	Electronic structure of conjugated polymers and interfaces in polymer-based electronics. <i>Synthetic Metals</i> , 2003, 135-136, 275-277.	3.9	7
63	Role of stray light in the formation of high-resolution resonant photoelectron spectra: an experimental and theoretical study of N ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 134, 49-65.	1.7	7
64	Fission of charged nano-hydrated ammonia clusters – microscopic insights into the nucleation processes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25749-25762.	2.8	7
65	From synchrotrons for XFELs: the soft x-ray near-edge spectrum of the ESCA molecule. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 244011.	1.5	7
66	Vibrationally selective resonant Auger spectroscopy in CO: evidence of the valence character of the 3s 'Rydberg level'. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 267-275.	1.5	6
67	Carbon dioxide ion dissociations after inner shell excitation and ionization: The origin of site-specific effects. <i>Journal of Chemical Physics</i> , 2014, 140, 184305.	3.0	6
68	Dissociation of cyclopropane in double ionization continuum. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19631-19639.	2.8	6
69	Line sharpening by PCI in the Auger decay spectrum of CO. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, L851-L856.	1.5	5
70	Core localization and delocalization in the O 1s core-excited sulfur dioxide molecule. <i>Journal of Chemical Physics</i> , 2008, 128, 114311.	3.0	5
71	Selective hydrogen bond disruption in adenine monolayer films by reaction with water. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 174, 107-109.	1.7	5
72	Rapid bond rearrangement in molecules after core-electron excitation. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012006.	0.4	5

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73	Preparing the MAX IV storage rings for timing-based experiments. AIP Conference Proceedings, 2016, , .	0.4	5
74	A study of the inner-valence ionization region in HCl and DCl. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 1173-1183.	1.5	4
75	Profile of resonant photoelectron spectra versus the spectral function width and photon frequency detuning. Physical Review A, 2004, 70, .	2.5	3
76	Core excitation in O ₃ localized to one of two symmetry-equivalent chemical bonds: Molecular alignment through vibronic coupling. Journal of Chemical Physics, 2005, 122, 154303.	3.0	3
77	Fast fragmentation in core-excited molecules. European Physical Journal: Special Topics, 2009, 169, 79-84.	2.6	3
78	Multi-purpose two- and three-dimensional momentum imaging of charged particles for attosecond experiments at 1 kHz repetition rate. Review of Scientific Instruments, 2014, 85, 123304.	1.3	3
79	Bringing physics, synchrotron light and probing neutrons to the public: a collaborative outreach. Physics Education, 2014, 49, 221-230.	0.5	3
80	Tin Oxides: Insights into Chemical States from a Nanoparticle Study. Journal of Physical Chemistry C, 2017, 121, 19414-19419.	3.1	3
81	The origin of enhanced O^+ production from photoionized CO ₂ clusters. Communications Chemistry, 2022, 5, .	4.5	3
82	Size dependent fragmentation of argon clusters in the soft x-ray ionization regime. Journal of Chemical Physics, 2008, 128, 044317.	3.0	2
83	Non-radiative decay and fragmentation in water molecules after 1a ₁ excitation and core ionization studied by electron-energy-resolved electron-ion coincidence spectroscopy. Journal of Chemical Physics, 2020, 152, 074302.	3.0	2
84	Resonant processes in the gas-phase photoemission of neopentane with variable photon energy. Journal of Electron Spectroscopy and Related Phenomena, 1996, 79, 457-461.	1.7	1
85	VUV oscillator strengths for iron lines of astrophysical importance. Journal of Physics: Conference Series, 2008, 130, 012010.	0.4	1
86	Summary of the Situation for Women in Physics in Sweden. AIP Conference Proceedings, 2005, , .	0.4	0
87	Charge migration and decay of doubly charged ammonia clusters. Journal of Physics: Conference Series, 2012, 388, 022112.	0.4	0
88	Dynamics of dissociation in inner-valence excited 1,3-trans-Butadiene probed by 3-D multiple ion momentum imaging. Journal of Physics: Conference Series, 2015, 635, 112009.	0.4	0
89	Attosecond time delays in C ₆₀ valence photoemissions at the giant plasmon. Journal of Physics: Conference Series, 2015, 635, 112074.	0.4	0