

Stacey L Sorensen

List of Publications by Year in descending order

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89
papers

2,018
citations

218677

26
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276875

41
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91
all docs

91
docs citations

91
times ranked

1697
citing authors

#	ARTICLE	IF	CITATIONS
1	The origin of enhanced CO_2 production from photoionized CO_2 clusters. Communications Chemistry, 2022, 5, .	4.5	3
2	Breaking inversion symmetry by protonation: experimental and theoretical NEXAFS study of the diazynium ion, N_2H^+ . Physical Chemistry Chemical Physics, 2021, 23, 17166-17176.	2.8	10
3	The carbon and oxygen K-edge NEXAFS spectra of CO . Physical Chemistry Chemical Physics, 2020, 22, 16215-16223.	2.8	26
4	Non-radiative decay and fragmentation in water molecules after $1a_1 \rightarrow 14a_1$ excitation and core ionization studied by electron-energy-resolved electron-ion coincidence spectroscopy. Journal of Chemical Physics, 2020, 152, 074302.	3.0	2
5	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
6	X-Ray Absorption Spectrum of the N_2 Molecular Ion. Physical Review Letters, 2020, 124, 203001.	7.8	36
7	Fission of charged nano-hydrated ammonia clusters – microscopic insights into the nucleation processes. Physical Chemistry Chemical Physics, 2019, 21, 25749-25762.	2.8	7
8	Chemical Understanding of the Limited Site-Specificity in Molecular Inner-Shell Photofragmentation. Journal of Physical Chemistry Letters, 2018, 9, 1156-1163.	4.6	31
9	The role of charge and proton transfer in fragmentation of hydrogen-bonded nanosystems: the breakup of ammonia clusters upon single photon multi-ionization. Physical Chemistry Chemical Physics, 2018, 20, 932-940.	2.8	8
10	Dissociation of cyclopropane in double ionization continuum. Physical Chemistry Chemical Physics, 2017, 19, 19631-19639.	2.8	6
11	Tin Oxides: Insights into Chemical States from a Nanoparticle Study. Journal of Physical Chemistry C, 2017, 121, 19414-19419.	3.1	3
12	Preparing the MAX IV storage rings for timing-based experiments. AIP Conference Proceedings, 2016, , .	0.4	5
13	Dissociative double-photoionization of butadiene in the 25-45 eV energy range using 3-D multi-coincidence ion momentum imaging spectrometry. Journal of Chemical Physics, 2015, 143, 114309.	3.0	10
14	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
15	Attosecond time delays in C_{60} valence photoemissions at the giant plasmon. Journal of Physics: Conference Series, 2015, 635, 112074.	0.4	0
16	Molecular dynamics of NH_3 induced by core-electron excitation. Physical Chemistry Chemical Physics, 2015, 17, 18944-18952.	2.8	10
17	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
18	Rapid bond rearrangement in molecules after core-electron excitation. Journal of Physics: Conference Series, 2014, 488, 012006.	0.4	5

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19	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
20	Double ionization probed on the attosecond timescale. <i>Nature Physics</i> , 2014, 10, 207-211.	16.7	74
21	Bringing physics, synchrotron light and probing neutrons to the public: a collaborative outreach. <i>Physics Education</i> , 2014, 49, 221-230.	0.5	3
22	Rapid bond rearrangement in core-excited molecular water. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19322.	2.8	18
23	Development and characterization of a multiple-coincidence ion-momentum imaging spectrometer. <i>Review of Scientific Instruments</i> , 2013, 84, 123113.	1.3	17
24	Charge migration and decay of doubly charged ammonia clusters. <i>Journal of Physics: Conference Series</i> , 2012, 388, 022112.	0.4	0
25	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
26	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
27	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
28	Nuclear motion in carbonyl sulfide induced by resonant core electron excitation. <i>Journal of Chemical Physics</i> , 2010, 133, 144314.	3.0	16
29	Dynamics of proton migration and dissociation in core-excited ethyne probed by multiple ion momentum imaging. <i>Journal of Chemical Physics</i> , 2009, 131, 244305.	3.0	18
30	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
31	Resonant Auger decay study of core-excited OCS. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 174, 100-106.	1.7	10
32	Fast fragmentation in core-excited molecules. <i>European Physical Journal: Special Topics</i> , 2009, 169, 79-84.	2.6	3
33	Femtosecond Charge Transfer in Assemblies of Discotic Liquid Crystals. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15784-15790.	3.1	11
34	Core localization and π -delocalization in the O 1s core-excited sulfur dioxide molecule. <i>Journal of Chemical Physics</i> , 2008, 128, 114311.	3.0	5
35	Size dependent fragmentation of argon clusters in the soft x-ray ionization regime. <i>Journal of Chemical Physics</i> , 2008, 128, 044317.	3.0	2
36	VUV oscillator strengths for iron lines of astrophysical importance. <i>Journal of Physics: Conference Series</i> , 2008, 130, 012010.	0.4	1

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37	Site selective dissociation upon core ionization of ozone. <i>Chemical Physics Letters</i> , 2007, 435, 214-218.	2.6	22
38	Specific production of very long-lived core-excited sulfur atoms by $2p\pi^*1\tilde{f}^*$ 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
39	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
40	Summary of the Situation for Women in Physics in Sweden. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
41	Photon energy dependence of fragmentation of small argon clusters. <i>Journal of Chemical Physics</i> , 2005, 123, 194301.	3.0	15
42	Orbital-specific dynamic charge transfer from Fe(II)-tetraphenylporphyrin molecules to molybdenum disulfide substrates. <i>Physical Review B</i> , 2005, 72, .	3.2	67
43	Core excitation in O ₃ localized to one of two symmetry-equivalent chemical bonds: Molecular alignment through vibronic coupling. <i>Journal of Chemical Physics</i> , 2005, 122, 154303.	3.0	3
44	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
45	Resonant Auger spectroscopy of argon clusters at the $2p$ threshold. <i>Physical Review A</i> , 2005, 71, .	2.5	10
46	Ionic-like energy structure of neutral core-excited states in free Kr clusters. <i>Physical Review A</i> , 2005, 72, .	2.5	11
47	Molecular alignment of ammonia studied by electron-ion-ion coincidence spectroscopy. <i>Journal of Chemical Physics</i> , 2005, 122, 114306.	3.0	17
48	The electronic structure of free water clusters probed by Auger electron spectroscopy. <i>Journal of Chemical Physics</i> , 2005, 123, 054310.	3.0	80
49	A study of the inner-valence ionization region in HCl and DCl. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 1173-1183.	1.5	4
50	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
51	Core excitations of naphthalene: Vibrational structure versus chemical shifts. <i>Journal of Chemical Physics</i> , 2004, 121, 5733-5739.	3.0	45
52	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
53	Profile of resonant photoelectron spectra versus the spectral function width and photon frequency detuning. <i>Physical Review A</i> , 2004, 70, .	2.5	3
54	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

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55	X-ray-emission-threshold-electron coincidence spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2004, 141, 161-170.	1.7	9
56	Role of stray light in the formation of high-resolution resonant photoelectron spectra: an experimental and theoretical study of N ₂ . Journal of Electron Spectroscopy and Related Phenomena, 2004, 134, 49-65.	1.7	7
57	Radial surface segregation in free heterogeneous argon/krypton clusters. Chemical Physics Letters, 2004, 392, 433-438.	2.6	41
58	Application of an atomic relaxation model for the interpretation of O 1s to Rydberg excited Auger electron spectra of molecular oxygen. Chemical Physics Letters, 2004, 398, 168-174.	2.6	15
59	Vibronic coupling in the ground and excited states of the naphthalene cation. Chemical Communications, 2004, , 1702-1703.	4.1	30
60	Evidence of ultra-fast dissociation in ammonia observed by resonant Auger electron spectroscopy. Chemical Physics Letters, 2003, 370, 781-788.	2.6	33
61	Valence photoionization and resonant core excitation of ozone " experimental and theoretical study of the Clf-state of O ₃ ⁺ . Chemical Physics Letters, 2003, 375, 76-83.	2.6	8
62	Selective probing of the electronic structure of free clusters using resonant core-level spectroscopy. Chemical Physics, 2003, 289, 3-13.	1.9	58
63	Is there interference in the resonant Auger electron spectra of N 1s and O 1s core excited NO?. Chemical Physics, 2003, 289, 31-44.	1.9	20
64	Nuclear motion and symmetry breaking of the B 1s-excited BF ₃ molecule. Chemical Physics, 2003, 289, 135-147.	1.9	19
65	Influence of chemical bonds on the lifetime of the molecular-field-split levels in H ₂ S. Physical Review A, 2003, 67, .	2.5	12
66	Electronic structure of conjugated polymers and interfaces in polymer-based electronics. Synthetic Metals, 2003, 135-136, 275-277.	3.9	7
67	The predissociation of highly excited states in acetylene by time-resolved photoelectron spectroscopy. Journal of Chemical Physics, 2003, 119, 3763-3773.	3.0	17
68	Observation of elastic scattering effects on photoelectron angular distributions in free Xe clusters. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 3937-3949.	1.5	42
69	The dynamic Auger "Doppler effect in HF and DF: control of fragment velocities in femtosecond dissociation through photon energy detuning. Chemical Physics Letters, 2002, 354, 382-388.	2.6	26
70	Mapping potential energy surfaces by core electron excitation: the resonant Auger decay spectrum of BF ₃ . Chemical Physics Letters, 2002, 359, 48-54.	2.6	26
71	Resonant photoemission and Auger emission from molecules. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 1-14.	1.7	28
72	Evidence for ultra-fast dissociation of molecular water from resonant Auger spectroscopy. Chemical Physics Letters, 2001, 334, 151-158.	2.6	114

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73	Bond-distance-dependent decay probability of the N 1s π^* core-excited state in N ₂ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 1819-1826.	1.5	47
74	The resonant Auger electron spectrum of C $1s^{-1}\pi^*$ excited ethene: A combined theoretical and experimental investigation. Journal of Chemical Physics, 2000, 112, 6666-6677.	3.0	28
75	Resonant x-ray Raman Scattering involving avoided crossings in the final-state potential-energy curves. Physical Review A, 2000, 62, .	2.5	14
76	Doppler Splitting of In-Flight Auger Decay of Dissociating Oxygen Molecules: The Localization of Delocalized Core Holes. Physical Review Letters, 2000, 84, 2826-2829.	7.8	123
77	Vibrationally selective resonant Auger spectroscopy in CO: evidence of the valence character of the 3s 'Rydberg level'. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 267-275.	1.5	6
78	Vibrational structure in the carbon 1s ionization of hydrocarbons: Calculation using electronic structure theory and the equivalent-cores approximation. Journal of Chemical Physics, 1998, 109, 1041-1051.	3.0	86
79	Line sharpening by PCI in the Auger decay spectrum of CO. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, L851-L856.	1.5	5
80	Auger decay of core-excited higher Rydberg states of carbon monoxide. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 4267-4278.	1.5	14
81	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
82	Dissociative photoexcitation of CH ₄ and CD ₄ . Chemical Physics Letters, 1995, 232, 554-560.	2.6	18
83	Studies of fluorescence from photoionization and photodissociation of N ₂ induced by 16-40 eV synchrotron radiation. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 4483-4490.	1.5	19
84	The surface core-level shift of the Pd(100) single-crystal surface. Journal of Physics Condensed Matter, 1992, 4, 277-283.	1.8	47
85	L-shell Coster-Kronig transition probabilities in Ni, Cu, and Mo measured with synchrotron radiation. Physical Review A, 1991, 44, 350-357.	2.5	44
86	Coster-Kronig yields in silver measured with synchrotron radiation. Physical Review A, 1989, 39, 6241-6246.	2.5	35
87	Photon-energy-sensitive Si L _{2,3} VV Auger satellite. Physical Review B, 1989, 39, 6048-6051.	3.2	8
88	Vanishing effect in post-collision interaction during photon-excited Coster-Kronig decay. Physical Review A, 1987, 35, 3966-3969.	2.5	19
89	Krypton L-MM Auger spectra: New measurements and analysis. Physical Review A, 1986, 33, 968-976.	2.5	26