

Robin Santra

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3086204/publications.pdf>

Version: 2024-02-01

257
papers

12,038
citations

27035

58
h-index

35168

102
g-index

269
all docs

269
docs citations

269
times ranked

6513
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray multiphoton-induced Coulomb explosion images complex single molecules. <i>Nature Physics</i> , 2022, 18, 423-428.	6.5	48
2	Theoretical investigation of orbital alignment of x-ray-ionized atoms in exotic electronic configurations. <i>Physical Review A</i> , 2022, 105, .	1.0	6
3	Tree-Code Based Improvement of Computational Performance of the X-ray-Matter-Interaction Simulation Tool XMDYN. <i>Molecules</i> , 2022, 27, 4206.	1.7	1
4	Electron-ion coincidence measurements of molecular dynamics with intense X-ray pulses. <i>Scientific Reports</i> , 2021, 11, 505.	1.6	11
5	Suppression of thermal nanoplasma emission in clusters strongly ionized by hard x-rays. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 044001.	0.6	7
6	Transient ionization potential depression in nonthermal dense plasmas at high x-ray intensity. <i>Physical Review E</i> , 2021, 103, 023203.	0.8	7
7	Probing ultrafast coherent dynamics in core-excited xenon by using attosecond XUV-NIR transient absorption spectroscopy. <i>Physical Review A</i> , 2021, 103, .	1.0	2
8	A first encounter with the Hartree-Fock self-consistent-field method. <i>American Journal of Physics</i> , 2021, 89, 426-436.	0.3	1
9	Ultrafast time-resolved x-ray absorption spectroscopy of ionized urea and its dimer through $\langle i ab \text{ initio} \langle /i \rangle$ nonadiabatic dynamics. <i>Structural Dynamics</i> , 2021, 8, 034102.	0.9	3
10	Strategies for solving the excited-state self-consistent-field problem for highly excited and multiply ionized states. <i>Physical Review A</i> , 2021, 104, .	1.0	0
11	Pulse Energy and Pulse Duration Effects in the Ionization and Fragmentation of Iodomethane by Ultraintense Hard X Rays. <i>Physical Review Letters</i> , 2021, 127, 093202.	2.9	6
12	Effects of radiation damage and inelastic scattering on single-particle imaging of hydrated proteins with an X-ray Free-Electron Laser. <i>Scientific Reports</i> , 2021, 11, 17976.	1.6	7
13	Statistical analysis of correlations in the x-ray induced Coulomb explosion of iodopyridine. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 194001.	0.6	2
14	Few-fs resolution of a photoactive protein traversing a conical intersection. <i>Nature</i> , 2021, 599, 697-701.	13.7	33
15	Resonance-Enhanced Multiphoton Ionization in the X-Ray Regime. <i>Physical Review Letters</i> , 2021, 127, 213202.	2.9	11
16	Inner-Shell-Ionization-Induced Femtosecond Structural Dynamics of Water Molecules Imaged at an X-Ray Free-Electron Laser. <i>Physical Review X</i> , 2021, 11, .	2.8	10
17	Observation of the fastest chemical processes in the radiolysis of water. <i>Science</i> , 2020, 367, 179-182.	6.0	149
18	Choice of the electronic basis for field-induced surface hopping. <i>Physical Review A</i> , 2020, 102, .	1.0	3

#	ARTICLE	IF	CITATIONS
19	Simulation of time-resolved x-ray absorption spectroscopy of ultrafast dynamics in particle-hole-excited 4-(2-thienyl)-2,1,3-benzothiadiazole. <i>Structural Dynamics</i> , 2020, 7, 044101.	0.9	6
20	Analytical theory of attosecond transient absorption spectroscopy of perturbatively dressed systems. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 072007.	0.3	0
21	Field-enabled quantum interference in atomic Auger decay. <i>Physical Review A</i> , 2020, 102, .	1.0	0
22	Enormous enhancement of molecular ionization at high x-ray intensity. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 152051.	0.3	0
23	Structural dynamics in proteins induced by and probed with X-ray free-electron laser pulses. <i>Nature Communications</i> , 2020, 11, 1814.	5.8	57
24	Molecular electronic decoherence following attosecond photoionisation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 164006.	0.6	13
25	Resonant Inelastic X-Ray Scattering Reveals Hidden Local Transitions of the Aqueous OH Radical. <i>Physical Review Letters</i> , 2020, 124, 236001.	2.9	28
26	Real-time observation of disintegration processes within argon clusters ionized by a hard-x-ray pulse of moderate fluence. <i>Physical Review A</i> , 2020, 101, .	1.0	7
27	Femtosecond laser produced periodic plasma in a colloidal crystal probed by XFEL radiation. <i>Scientific Reports</i> , 2020, 10, 10780.	1.6	3
28	Suppression of hole decoherence in ultrafast photoionization. <i>Physical Review A</i> , 2020, 101, .	1.0	3
29	High intensity x-ray interaction with a model bio-molecule system: double-core-hole states and fragmentation of formamide. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 244005.	0.6	5
30	Breakdown of frustrated absorption in x-ray sequential multiphoton ionization. <i>Physical Review Research</i> , 2020, 2, .	1.3	9
31	Electronic-structure calculations for nonisothermal warm dense matter. <i>Physical Review Research</i> , 2020, 2, .	1.3	8
32	Interaction of Intense X-Ray Beams with Atoms. , 2020, , 1435-1462.		1
33	Hole dynamics in a photovoltaic donor-acceptor couple revealed by simulated time-resolved X-ray absorption spectroscopy. <i>Structural Dynamics</i> , 2019, 6, 044102.	0.9	13
34	Detecting coherent core-hole wave-packet dynamics in N ₂ by time- and angle-resolved inner-shell photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 151, .	1.2	12
35	Ultrafast Charge Transfer and Structural Dynamics Following Outer-Valence Ionization of a Halogen-Bonded Dimer. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7351-7360.	1.1	0
36	<i>xcalib</i>: a focal spot calibrator for intense X-ray free-electron laser pulses based on the charge state distributions of light atoms. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1017-1030.	1.0	16

#	ARTICLE	IF	CITATIONS
37	Theoretical evidence for the sensitivity of charge-rearrangement-enhanced x-ray ionization to molecular size. <i>Physical Review A</i> , 2019, 100, .	1.0	5
38	Roadmap on photonic, electronic and atomic collision physics: I. Light-matter interaction. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 171001.	0.6	52
39	Ultrafast x-ray-driven phenomena in nanocrystals: development and application of powerful simulation tools. <i>EPJ Web of Conferences</i> , 2019, 205, 05022.	0.1	0
40	Molecular ionization enhancement by charge rearrangement at high X-ray intensity. <i>EPJ Web of Conferences</i> , 2019, 205, 06009.	0.1	0
41	Femtosecond-resolved observation of the fragmentation of buckminsterfullerene following X-ray multiphoton ionization. <i>Nature Physics</i> , 2019, 15, 1279-1283.	6.5	22
42	Analytical Theory of Attosecond Transient Absorption Spectroscopy of Perturbatively Dressed Systems. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1350.	1.3	2
43	Time-resolved x-ray/optical pump-probe simulations on N ₂ molecules. <i>Structural Dynamics</i> , 2019, 6, 024101.	0.9	2
44	Time-dependent QED approach to x-ray nonlinear Compton scattering. <i>Physical Review A</i> , 2019, 99, .	1.0	15
45	Simulated XUV photoelectron spectra of THz-pumped liquid water. <i>Journal of Chemical Physics</i> , 2019, 150, 044505.	1.2	2
46	Chemical Understanding of the Limited Site-Specificity in Molecular Inner-Shell Photofragmentation. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1156-1163.	2.1	31
47	Roadmap of ultrafast x-ray atomic and molecular physics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 032003.	0.6	240
48	Challenges in XUV Photochemistry Simulations: A Case Study on Ultrafast Fragmentation Dynamics of the Benzene Radical Cation. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1004-1010.	1.1	10
49	Control of Nuclear Dynamics through Conical Intersections and Electronic Coherences. <i>Physical Review Letters</i> , 2018, 120, 123001.	2.9	49
50	Collective resonances of atomic xenon from the linear to the nonlinear regime. <i>Journal of Physics Communications</i> , 2018, 2, 045024.	0.5	4
51	Infrared-laser-pulse-enhanced ultrafast fragmentation of N_2 following Auger decay: Mixed quantum-classical simulations. <i>Physical Review A</i> , 2018, 98, .	1.0	9
52	Theory of x-ray scattering from laser-driven electronic systems. <i>Physical Review B</i> , 2018, 98, .	1.1	10
53	Relativistic and resonant effects in the ionization of heavy atoms by ultra-intense hard X-rays. <i>Nature Communications</i> , 2018, 9, 4200.	5.8	29
54	Prospects of Using High-Intensity THz Pulses To Induce Ultrafast Temperature-Jumps in Liquid Water. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5211-5222.	1.1	14

#	ARTICLE	IF	CITATIONS
55	Electron and fluorescence spectra of a water molecule irradiated by an x-ray free-electron laser pulse. <i>Physical Review A</i> , 2018, 97, .	1.0	9
56	Molecular polarizability anisotropy of liquid water revealed by terahertz-induced transient orientation. <i>Nature Communications</i> , 2018, 9, 2142.	5.8	63
57	Radiation-Induced Chemical Dynamics in Ar Clusters Exposed to Strong X-Ray Pulses. <i>Physical Review Letters</i> , 2018, 120, 223201.	2.9	18
58	Ab initio calculation of electron-impact-ionization cross sections for ions in exotic electron configurations. <i>Physical Review A</i> , 2018, 98, .	1.0	3
59	Towards the theoretical limitations of X-ray nanocrystallography at high intensity: the validity of the effective-form-factor description. <i>IUCr</i> , 2018, 5, 699-705.	1.0	2
60	Compton spectra of atoms at high x-ray intensity. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 064003.	0.6	4
61	State-resolved attosecond reversible and irreversible dynamics in strong optical fields. <i>Nature Physics</i> , 2017, 13, 472-478.	6.5	59
62	Femtosecond response of polyatomic molecules to ultra-intense hard X-rays. <i>Nature</i> , 2017, 546, 129-132.	13.7	139
63	Electronic decoherence following photoionization: Full quantum-dynamical treatment of the influence of nuclear motion. <i>Physical Review A</i> , 2017, 95, .	1.0	103
64	Ab Initio Investigation of Nonlinear Mode Coupling in C ₆₀ . <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5543-5547.	2.1	0
65	Interplay between relativistic energy corrections and resonant excitations in x-ray multiphoton ionization dynamics of Xe atoms. <i>Physical Review A</i> , 2017, 95, .	1.0	19
66	Time-dependent configuration-interaction-singles calculation of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -subshell two-photon ionization cross section in xenon. <i>Physical Review A</i> , 2017, 95, .	1.0	11
67	Molecular-dynamics approach for studying the nonequilibrium behavior of x-ray-heated solid-density matter. <i>Physical Review E</i> , 2017, 96, 023205.	0.8	10
68	Laser control over the ultrafast Coulomb explosion of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ after Auger decay: A quantum-dynamics investigation. <i>Physical Review A</i> , 2017, 95, .	1.0	11
69	Weak-field few-femtosecond VUV photodissociation dynamics of water isotopologues. <i>Physical Review A</i> , 2017, 96, .	1.0	10
70	Time-resolved ultrafast x-ray scattering from an incoherent electronic mixture. <i>Physical Review A</i> , 2017, 96, .	1.0	16
71	Simulations of ultrafast x-ray laser experiments. , 2017, , .		3
72	Attosecond x-ray scattering from a particle-hole wave packet. <i>Physical Review A</i> , 2017, 95, .	1.0	8

#	ARTICLE	IF	CITATIONS
73	Correlation-driven charge migration following double ionization and attosecond transient absorption spectroscopy. <i>Physical Review A</i> , 2017, 95, .	1.0	17
74	Finite-temperature second-order many-body perturbation theory revisited. <i>Chemical Physics</i> , 2017, 482, 355-361.	0.9	26
75	The fractal geometry of Hartree-Fock. <i>Chaos</i> , 2017, 27, 123103.	1.0	1
76	VI Time-dependent configuration interaction singles. , 2017, , 169-202.		1
77	Start-to-end simulation of single-particle imaging using ultra-short pulses at the European X-ray Free-Electron Laser. <i>IUCr</i> , 2017, 4, 560-568.	1.0	32
78	Simulations of single-particle imaging of hydrated proteins with x-ray free-electron lasers. , 2017, , .		0
79	<i>XMDYN</i> and <i>XATOM</i> : versatile simulation tools for quantitative modeling of X-ray free-electron laser induced dynamics of matter. <i>Journal of Applied Crystallography</i> , 2016, 49, 1048-1056.	1.9	73
80	A comprehensive simulation framework for imaging single particles and biomolecules at the European X-ray Free-Electron Laser. <i>Scientific Reports</i> , 2016, 6, 24791.	1.6	41
81	Calculation of x-ray scattering patterns from nanocrystals at high x-ray intensity. <i>Structural Dynamics</i> , 2016, 3, 054101.	0.9	12
82	X-ray multiphoton ionization dynamics of a water molecule irradiated by an x-ray free-electron laser pulse. <i>Physical Review A</i> , 2016, 94, .	1.0	35
83	Dynamics from noisy data with extreme timing uncertainty. <i>Nature</i> , 2016, 532, 471-475.	13.7	44
84	Stability of the time-dependent configuration-interaction-singles method in the attosecond and strong-field regimes: A study of basis sets and absorption methods. <i>Physical Review A</i> , 2016, 94, .	1.0	13
85	Imaging electron dynamics with time- and angle-resolved photoelectron spectroscopy. <i>Physical Review A</i> , 2016, 94, .	1.0	11
86	Quantum optimal control of photoelectron spectra and angular distributions. <i>Physical Review A</i> , 2016, 93, .	1.0	21
87	Subpicosecond energy transfer from a highly intense THz pulse to water: A computational study based on the TIP4P/2005 rigid-water-molecule model. <i>Physical Review E</i> , 2016, 93, 032124.	0.8	3
88	Maximizing hole coherence in ultrafast photoionization of argon with an optimization by sequential parametrization update. <i>Physical Review A</i> , 2016, 94, .	1.0	14
89	Interaction of Intense X-Ray Beams with Atoms. , 2016, , 1233-1260.		2
90	Probing Ionization Dynamics with Attosecond Transient Absorption Spectroscopy. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
91	Driving Rabi oscillations at the giant dipole resonance in xenon. <i>Physical Review A</i> , 2015, 92, .	1.0	8
92	Imaging instantaneous electron flow with ultrafast resonant x-ray scattering. <i>Physical Review B</i> , 2015, 91, .	1.1	13
93	Imaging interatomic electron current in crystals with ultrafast resonant x-ray scattering. <i>Physical Review B</i> , 2015, 92, .	1.1	14
94	Ultrafast Charge Transfer of a Valence Double Hole in Glycine Driven Exclusively by Nuclear Motion. <i>Physical Review Letters</i> , 2015, 115, 143002.	2.9	29
95	Nanoplasma Formation by High Intensity Hard X-rays. <i>Scientific Reports</i> , 2015, 5, 10977.	1.6	60
96	Towards phasing using high X-ray intensity. <i>IUCr</i> , 2015, 2, 627-634.	1.0	24
97	The linac coherent light source single particle imaging road map. <i>Structural Dynamics</i> , 2015, 2, 041701.	0.9	178
98	Investigating dynamics of complex system irradiated by intense x-ray free electron laser pulses. <i>Journal of Physics: Conference Series</i> , 2015, 601, 012006.	0.3	0
99	Spatial beam profile-induced effects in x-ray scattering pattern at high intensity. <i>Journal of Physics: Conference Series</i> , 2015, 635, 102008.	0.3	1
100	Theoretical characterization of the collective resonance states underlying the xenon giant dipole resonance. <i>Journal of Physics: Conference Series</i> , 2015, 635, 092046.	0.3	0
101	Towards Realistic Simulations of Macromolecules Irradiated under the Conditions of Coherent Diffraction Imaging with an X-ray Free-Electron Laser. <i>Photonics</i> , 2015, 2, 256-269.	0.9	23
102	Theoretical characterization of the collective resonance states underlying the xenon giant dipole resonance. <i>Physical Review A</i> , 2015, 91, .	1.0	20
103	Efficient electronic structure calculation for molecular ionization dynamics at high x-ray intensity. <i>Structural Dynamics</i> , 2015, 2, 041707.	0.9	47
104	Ultrafast Energy Transfer from Solvent to Solute Induced by Subpicosecond Highly Intense THz Pulses. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8080-8086.	1.2	14
105	Wave-packet propagation based calculation of above-threshold ionization in the x-ray regime. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 124001.	0.6	8
106	Modeling of Nanoplasmas Created from Finite Systems by Ultrafast Intense X-ray Pulses. <i>Contributions To Plasma Physics</i> , 2015, 55, 58-66.	0.5	1
107	Hydrodynamic model for picosecond propagation of laser-created nanoplasmas. <i>High Energy Density Physics</i> , 2015, 15, 93-98.	0.4	3
108	Towards RIP using free-electron laser SFX data. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 249-255.	1.0	27

#	ARTICLE	IF	CITATIONS
109	Sensitivity of nonlinear photoionization to resonance substructure in collective excitation. Nature Communications, 2015, 6, 6799.	5.8	31
110	Interaction of Intense X-Ray Beams with Atoms. , 2015, , 1-24.		3
111	Probing Xenon Electronic Structure by Two-Color Driven High-Order Harmonic Generation. Springer Proceedings in Physics, 2015, , 7-10.	0.1	0
112	Applicability of the classical molecular dynamics method to study x-ray irradiated molecular systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124036.	0.6	13
113	Incoherent x-ray scattering in single molecule imaging. New Journal of Physics, 2014, 16, 073042.	1.2	38
114	Core-level transient absorption spectroscopy as a probe of electron hole relaxation in photoionized H^{2+} . Faraday Discussions, 2014, 171, 457-470.	1.6	17
115	Emerging photon technologies for probing ultrafast molecular dynamics. Faraday Discussions, 2014, 171, 471-485.	1.6	12
116	Multiphoton Multiple Ionization of Rare-Gas Atoms and Clusters by X-Ray Free-Electron Laser Pulses from SACLA. , 2014, , .		0
117	Probing xenon electronic structure by two-color driven high-order harmonic generation. , 2014, , .		0
118	Theory of time-resolved nonresonant x-ray scattering for imaging ultrafast coherent electron motion. Physical Review A, 2014, 89, .	1.0	33
119	Comment on "How to observe coherent electron dynamics directly". Physical Review Letters, 2014, 113, 189301.	2.9	7
120	Dynamics of fluctuations in a quantum system. Physical Review A, 2014, 89, .	1.0	5
121	Coherent Electron Hole Dynamics Near a Conical Intersection. Physical Review Letters, 2014, 113, 113003.	2.9	46
122	Controlling the 2 π hole alignment in neon via the 2 π -3 π Fano resonance. Physical Review A, 2014, 89, .	1.0	16
123	Spin-orbit effects in atomic high-harmonic generation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124026.	0.6	19
124	Calculation of photoelectron spectra within the time-dependent configuration-interaction singles scheme. Physical Review A, 2014, 89, .	1.0	43
125	What will it take to observe processes in 'real time'?. Nature Photonics, 2014, 8, 162-166.	15.6	220
126	Quantum-Mechanical Calculation of Ionization-Potential Lowering in Dense Plasmas. Physical Review X, 2014, 4, .	2.8	69

#	ARTICLE	IF	CITATIONS
127	Femtosecond X-ray-induced explosion of C60 at extreme intensity. Nature Communications, 2014, 5, 4281.	5.8	119
128	Introducing many-body physics using atomic spectroscopy. American Journal of Physics, 2014, 82, 113-122.	0.3	27
129	X-Ray Diffraction from Isolated and Strongly Aligned Gas-Phase Molecules with a Free-Electron Laser. Physical Review Letters, 2014, 112, .	2.9	217
130	Sequential multiphoton multiple ionization of Ar and Xe by X-ray free electron laser pulses at SACLA. Journal of Physics: Conference Series, 2014, 488, 032034.	0.3	1
131	Imaging ultrafast electronic motion by x-ray scattering. Journal of Physics: Conference Series, 2014, 488, 012009.	0.3	0
132	Ultrafast Energy Transfer to Liquid Water by Sub-Picosecond High-Intensity Terahertz Pulses: An Ab-Initio Molecular Dynamics Study. Angewandte Chemie - International Edition, 2013, 52, 13685-13687.	7.2	18
133	Strong-Field Many-Body Physics and the Giant Enhancement in the High-Harmonic Spectrum of Xenon. Physical Review Letters, 2013, 111, 233005.	2.9	88
134	Deep Inner-Shell Multiphoton Ionization by Intense X-Ray Free-Electron Laser Pulses. Physical Review Letters, 2013, 110, 173005.	2.9	136
135	Proposed Imaging of the Ultrafast Electronic Motion in Samples using X-Ray Phase Contrast. Physical Review Letters, 2013, 110, 137403.	2.9	34
136	Resonance-enhanced multiple ionization of krypton at an x-ray free-electron laser. Physical Review A, 2013, 87, .	1.0	57
137	Real time tracing of valence-shell electronic coherences with attosecond transient absorption spectroscopy. Chemical Physics, 2013, 414, 149-159.	0.9	19
138	X-ray phase-contrast imaging: the quantum perspective. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164016.	0.6	3
139	Role of electron-electron interference in ultrafast time-resolved imaging of electronic wavepackets. Journal of Chemical Physics, 2013, 138, 134311.	1.2	26
140	Sequential multiphoton multiple ionization of atomic argon and xenon irradiated by x-ray free-electron laser pulses from SACLA. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164024.	0.6	50
141	Determination of multiwavelength anomalous diffraction coefficients at high x-ray intensity. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164015.	0.6	24
142	Adiabaticity and diabaticity in strong-field ionization. Physical Review A, 2013, 87, .	1.0	12
143	Recombination-amplitude calculations of noble gases, in both length and acceleration forms, beyond the strong-field approximation. Physical Review A, 2013, 88, .	1.0	10
144	Correlated Dynamics of the Motion of Proton-Hole Wave Packets in a Photoionized Water Cluster. Physical Review Letters, 2013, 110, 038302.	2.9	8

#	ARTICLE	IF	CITATIONS
145	Non-linear FEL science. , 2013, , .		0
146	Breakdown of the X-Ray Resonant Magnetic Scattering Signal during Intense Pulses of Extreme Ultraviolet Free-Electron-Laser Radiation. Physical Review Letters, 2013, 110, 234801.	2.9	37
147	Attosecond physics with Synthesized Transients of Light. , 2012, , .		0
148	Effect of screening by external charges on the atomic orbitals and photoinduced processes within the Hartree-Fock-Slater atom. Physical Review A, 2012, 86, .	1.0	20
149	Evidence for interatomic Coulombic decay in Xe $K\text{-shell-vacancy decay of XeF}$ Physical Review A, 2012, 86, .	1.0	13
150	Impact of multichannel and multipole effects on the Cooper minimum in the high-order-harmonic spectrum of argon. Physical Review A, 2012, 85, .	1.0	54
151	Imaging electronic quantum motion with light. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11636-11640.	3.3	140
152	Recombination Amplitude Calculation for Noble Gases beyond Strong Field Approximation in Length and Acceleration Gauge. , 2012, , .		0
153	Limitations of coherent diffractive imaging of single objects due to their damage by intense x-ray radiation. New Journal of Physics, 2012, 14, 115015.	1.2	48
154	Effect of two-particle correlations on x-ray coherent diffractive imaging studies performed with continuum models. Physical Review E, 2012, 86, 036411.	0.8	8
155	Enhanced nonlinear response of Ne $8\text{-to intense ultrafast x rays.}$ Physical Review A, 2012, 85, .	1.0	47
156	Ultra-efficient ionization of heavy atoms by intense X-ray free-electron laser pulses. Nature Photonics, 2012, 6, 858-865.	15.6	218
157	Theory of attosecond transient-absorption spectroscopy of krypton for overlapping pump and probe pulses. Physical Review A, 2012, 86, .	1.0	69
158	Strongly driven resonant Auger effect treated by an open-quantum-system approach. Physical Review A, 2012, 86, .	1.0	31
159	Monte Carlo calculation of ion, electron, and photon spectra of xenon atoms in x-ray free-electron laser pulses. Physical Review A, 2012, 85, .	1.0	65
160	Nonlinear Atomic Response to Intense Ultrashort X Rays. Physical Review Letters, 2011, 106, 083002.	2.9	221
161	Decoherence in Attosecond Photoionization. Physical Review Letters, 2011, 106, 053003.	2.9	99
162	Synthesized Light Transients. Science, 2011, 334, 195-200.	6.0	606

#	ARTICLE	IF	CITATIONS
163	Heterogeneous clusters as a model system for the study of ionization dynamics within tampered samples. <i>Physical Review A</i> , 2011, 84, .	1.0	32
164	Theory of attosecond transient absorption spectroscopy of strong-field-generated ions. <i>Physical Review A</i> , 2011, 83, .	1.0	106
165	Impact of hollow-atom formation on coherent x-ray scattering at high intensity. <i>Physical Review A</i> , 2011, 83, .	1.0	168
166	Multiwavelength Anomalous Diffraction at High X-Ray Intensity. <i>Physical Review Letters</i> , 2011, 107, 218102.	2.9	107
167	Unveiling and Driving Hidden Resonances with High-Fluence, High-Intensity X-Ray Pulses. <i>Physical Review Letters</i> , 2011, 107, 233001.	2.9	131
168	Ultrafast Dynamics of Photoionized Acetylene. <i>Physical Review Letters</i> , 2011, 107, 263002.	2.9	38
169	Inner-shell single and double ionization potentials of aminophenol isomers. <i>Journal of Chemical Physics</i> , 2011, 135, 084302.	1.2	40
170	Multi Photon Physics at the LCLS. , 2011, , .		0
171	Implementation of the time-dependent configuration-interaction singles method for atomic strong-field processes. <i>Physical Review A</i> , 2010, 82, .	1.0	172
172	Femtosecond electronic response of atoms to ultra-intense X-rays. <i>Nature</i> , 2010, 466, 56-61.	13.7	711
173	Real-time observation of valence electron motion. <i>Nature</i> , 2010, 466, 739-743.	13.7	1,040
174	Controlling X-rays with light. <i>Nature Physics</i> , 2010, 6, 69-74.	6.5	68
175	Alignment of asymmetric-top molecules using multiple-pulse trains. <i>Physical Review A</i> , 2010, 81, .	1.0	21
176	Computational studies of x-ray scattering from three-dimensionally-aligned asymmetric-top molecules. <i>Physical Review A</i> , 2010, 81, .	1.0	30
177	Picosecond Structural Dynamics at the Advanced Photon Source. <i>Synchrotron Radiation News</i> , 2010, 23, 18-25.	0.2	0
178	Attosecond Transient Absorption Spectroscopy for Real-Time Observation of Valence Electron Motion. , 2010, , .		0
179	Concepts in x-ray physics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 023001.	0.6	52
180	Field-free molecular alignment for studies using x-ray pulses from a synchrotron radiation source. <i>Journal of Chemical Physics</i> , 2009, 130, 154310.	1.2	10

#	ARTICLE	IF	CITATIONS
181	Molecular structure determination from x-ray scattering patterns of laser-aligned symmetric-top molecules. <i>Journal of Chemical Physics</i> , 2009, 131, 131101.	1.2	35
182	X-Ray Two-Photon Photoelectron Spectroscopy: A Theoretical Study of Inner-Shell Spectra of the Organic Para-Aminophenol Molecule. <i>Physical Review Letters</i> , 2009, 103, 013002.	2.9	116
183	Multichannel coherence in strong-field ionization. <i>Physical Review A</i> , 2009, 79, .	1.0	105
184	Concepts in x-ray physics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 169801-169801.	0.6	6
185	Above-threshold ionization in the x-ray regime. <i>Physical Review A</i> , 2009, 80, .	1.0	24
186	Autoionization dynamics and Feshbach resonances: Femtosecond EUV study of O_2 excitation and dissociation. <i>Journal of Physics: Conference Series</i> , 2009, 194, 012014.	0.3	0
187	X-ray absorption in neon modulated by a strong laser pulse. <i>Journal of Physics: Conference Series</i> , 2009, 194, 032011.	0.3	1
188	Electronic feshbach resonances created in soft x-ray-induced O_2 dissociation. <i>Journal of Physics: Conference Series</i> , 2009, 194, 022071.	0.3	0
189	The Creation of Super-Excited Electronic Feshbach Resonances by EUV-induced Dissociation of O_2 . , 2009, , .		0
190	X-ray View of Dressed Atoms. , 2009, , .		0
191	Strong-Field Control of X-Ray Processes. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2008, , 219-259.	2.3	2
192	Resonant Auger effect at high x-ray intensity. <i>Physical Review A</i> , 2008, 77, .	1.0	87
193	Publisher's Note: Resonant Auger effect at high x-ray intensity [<i>Phys. Rev. A</i> 77 , 053404 (2008)]. <i>Physical Review A</i> , 2008, 77, .	1.0	4
194	Rotational molecular dynamics of laser-manipulated bromotrifluoromethane studied by x-ray absorption. <i>Journal of Chemical Physics</i> , 2008, 129, 134312.	1.2	9
195	X-ray refractive index of laser-dressed atoms. <i>Physical Review A</i> , 2008, 78, .	1.0	16
196	Observing the Creation of Electronic Feshbach Resonances in Soft X-ray-Induced O_2 Dissociation. <i>Science</i> , 2008, 322, 1081-1085.	6.0	96
197	Transition suppression of $3\sigma_g \rightarrow 2\sigma_g$ transitions in O_2 . <i>Physical Review A</i> , 2008, 77, .		
198	Theory of x-ray absorption by laser-aligned symmetric-top molecules. <i>Physical Review A</i> , 2008, 77, .	1.0	14

#	ARTICLE	IF	CITATIONS
199	Theory of x-ray diffraction from laser-aligned symmetric-top molecules. <i>Physical Review A</i> , 2008, 78, .	1.0	18
200	Characterization of the spatiotemporal evolution of laser-generated plasmas. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	10
201	An x-ray probe of laser-aligned molecules. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	37
202	X-ray-absorption near-edge structure of laser-dressed neon. <i>Physical Review A</i> , 2008, 78, .	1.0	6
203	K-edge x-ray-absorption spectroscopy of laser-generated Kr ⁺ and Kr ²⁺ . <i>Physical Review A</i> , 2007, 76, .	1.0	26
204	Quantum State-Resolved Probing of Strong-Field-Ionized Xenon Atoms Using Femtosecond High-Order Harmonic Transient Absorption Spectroscopy. <i>Physical Review Letters</i> , 2007, 98, 143601.	2.9	107
205	Alignment dynamics in a laser-produced plasma. <i>Physical Review A</i> , 2007, 75, .	1.0	14
206	Electromagnetically Induced Transparency for X Rays. <i>Physical Review Letters</i> , 2007, 98, 253001.	2.9	70
207	Strong-field control of x-ray absorption. <i>Journal of Physics: Conference Series</i> , 2007, 88, 012052.	0.3	11
208	Theory of x-ray absorption by laser-dressed atoms. <i>Physical Review A</i> , 2007, 75, .	1.0	38
209	X-ray nonlinear optical processes using a self-amplified spontaneous emission free-electron laser. <i>Physical Review A</i> , 2007, 76, .	1.0	153
210	Role of Many-Electron Dynamics in High Harmonic Generation. <i>Physical Review Letters</i> , 2006, 96, 223902.	2.9	87
211	Photo double detachment of CN ⁻ : Electronic decay from an inner-valence hole in molecular anions. <i>Chemical Physics Letters</i> , 2006, 426, 237-241.	1.2	9
212	Imaging molecular orbitals using photoionization. <i>Chemical Physics</i> , 2006, 329, 357-364.	0.9	14
213	Three-Step Model for High-Harmonic Generation in Many-Electron Systems. <i>Physical Review Letters</i> , 2006, 96, 073906.	2.9	90
214	Configuration-interaction-based time-dependent orbital approach for an initial treatment of electronic dynamics in a strong optical laser field. <i>Physical Review A</i> , 2006, 74, .	1.0	133
215	Spin-orbit effect on strong-field ionization of krypton. <i>Physical Review A</i> , 2006, 74, .	1.0	38
216	Interaction of intense vuv radiation with large xenon clusters. <i>Physical Review A</i> , 2006, 74, .	1.0	28

#	ARTICLE	IF	CITATIONS
217	Why complex absorbing potentials work: A discrete-variable-representation perspective. <i>Physical Review A</i> , 2006, 74, .	1.0	26
218	X-Ray Microprobe of Orbital Alignment in Strong-Field Ionized Atoms. <i>Physical Review Letters</i> , 2006, 97, 083601.	2.9	71
219	Dissociative recombination of HCO ⁺ . <i>Journal of Physics: Conference Series</i> , 2005, 4, 148-154.	0.3	26
220	Siegert pseudostates: Completeness and time evolution. <i>Physical Review A</i> , 2005, 71, .	1.0	31
221	Role of the Coulomb singularity in high-order harmonic generation. <i>Physical Review A</i> , 2005, 72, .	1.0	41
222	Analytically continued Fock space multireference coupled-cluster theory: Application to the $\hat{\rho}^2$ shape resonance in e-N ₂ scattering. <i>Journal of Chemical Physics</i> , 2005, 122, 234320.	1.2	42
223	Calculating molecular Rydberg states using the one-particle Green's function: Application to HCO and C(NH ₂) ₃ . <i>Journal of Chemical Physics</i> , 2005, 123, 194310.	1.2	6
224	Correlated complex independent particle potential for calculating electronic resonances. <i>Journal of Chemical Physics</i> , 2005, 123, 204110.	1.2	34
225	High-Accuracy Optical Clock via Three-Level Coherence in Neutral Bosonic Sr ⁸⁸ . <i>Physical Review Letters</i> , 2005, 94, 173002.	2.9	106
226	Ab initio configuration-interaction investigation of optical transitions in K+He and K+H ₂ . <i>Journal of Chemical Physics</i> , 2005, 123, 214309.	1.2	20
227	Non-Hermitian Rayleigh-Schrödinger perturbation theory. <i>Physical Review A</i> , 2004, 69, .	1.0	25
228	Multiphoton ionization of xenon in the vuv regime. <i>Physical Review A</i> , 2004, 70, .	1.0	38
229	On the interatomic Coulombic decay in the Ne dimer. <i>Journal of Chemical Physics</i> , 2004, 121, 8393.	1.2	86
230	Properties of metastable alkaline-earth-metal atoms calculated using an accurate effective core potential. <i>Physical Review A</i> , 2004, 69, .	1.0	98
231	Resonances and pseudoresonances in a potential with attractive coulomb tail: A study using analytic-continuation techniques. <i>International Journal of Quantum Chemistry</i> , 2003, 94, 75-92.	1.0	7
232	Ionization of the xenon fluorides. <i>Journal of Chemical Physics</i> , 2003, 119, 7763-7771.	1.2	16
233	Coulombic Energy Transfer and Triple Ionization in Clusters. <i>Physical Review Letters</i> , 2003, 90, 153401.	2.9	98
234	Theory of Dissociative Recombination of D ₃ H Triatomic Ions Applied to H ₃ ⁺ . <i>Physical Review Letters</i> , 2003, 90, 133201.	2.9	84

#	ARTICLE	IF	CITATIONS
235	Tensorial analysis of the long-range interaction between metastable alkaline-earth-metal atoms. <i>Physical Review A</i> , 2003, 67, .	1.0	42
236	Impact of interatomic electronic decay processes on Xe \hat{e} S4d hole decay in the xenon fluorides. <i>Journal of Chemical Physics</i> , 2003, 119, 10575-10584.	1.2	45
237	Xenon Clusters in Intense VUV Laser Fields. <i>Physical Review Letters</i> , 2003, 91, 233401.	2.9	103
238	Multichannel Cold Collisions between Metastable Sr Atoms. <i>Physical Review Letters</i> , 2003, 90, 253201.	2.9	44
239	Complex absorbing potentials in the framework of electron propagator theory. II. Application to temporary anions. <i>Journal of Chemical Physics</i> , 2003, 118, 6188-6199.	1.2	92
240	Complex absorbing potentials in the framework of electron propagator theory. I. General formalism. <i>Journal of Chemical Physics</i> , 2002, 117, 5511-5521.	1.2	96
241	Non-Hermitian electronic theory and applications to clusters. <i>Physics Reports</i> , 2002, 368, 1-117.	10.3	261
242	Electronic decay of valence holes in clusters and condensed matter. <i>Physical Review B</i> , 2001, 64, .	1.1	148
243	Intermolecular Coulombic decay of clusters. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 114-116, 41-47.	0.8	31
244	Efficient method to perform CAP/CI calculations for temporary anions. <i>International Journal of Quantum Chemistry</i> , 2001, 82, 218-226.	1.0	66
245	Electronic decay in weakly bound heteroclusters: Energy transfer versus electron transfer. <i>Journal of Chemical Physics</i> , 2001, 115, 5076-5088.	1.2	148
246	An efficient combination of computational techniques for investigating electronic resonance states in molecules. <i>Journal of Chemical Physics</i> , 2001, 115, 6853-6861.	1.2	79
247	Fingerprints of the nodal structure of autoionizing vibrational wave functions in clusters: Interatomic Coulombic decay in Ne dimer. <i>Journal of Chemical Physics</i> , 2001, 114, 7351-7360.	1.2	64
248	Production of pulsed ultra slow muons and first $\hat{1}$ / ₄ SR experiments on thin metallic and magnetic films. <i>Physica B: Condensed Matter</i> , 2000, 289-290, 662-665.	1.3	3
249	Inner-valence ionization of molecular anions and ultrafast relaxation by electron emission. <i>Chemical Physics Letters</i> , 2000, 324, 416-422.	1.2	10
250	Pulsed laser spectroscopy in muonium and deuterium. , 2000, 127, 197-200.		4
251	Production of pulsed ultraslow muons and first $\hat{1}$ / ₄ SR experiments on thin metallic and magnetic films. <i>Applied Magnetic Resonance</i> , 2000, 19, 471-477.	0.6	0
252	Parallel filter diagonalization: A novel method to resolve quantum states in dense spectral regions. <i>Journal of Chemical Physics</i> , 2000, 112, 9243-9252.	1.2	20

#	ARTICLE	IF	CITATIONS
253	Interatomic Coulombic Decay in van der Waals Clusters and Impact of Nuclear Motion. Physical Review Letters, 2000, 85, 4490-4493.	2.9	156
254	Measurement of the $1s \rightarrow 2s$ Energy Interval in Muonium. Physical Review Letters, 2000, 84, 1136-1139.	2.9	107
255	Resonant three-photon ionization of hydrogenic atoms by a non-monochromatic laser field. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 1615-1637.	0.6	13
256	Electronic decay of molecular clusters: non-stationary states computed by standard quantum chemistry methods. Chemical Physics Letters, 1999, 303, 413-419.	1.2	88
257	Measurement of the muonium $1S-2S$ transition frequency. , 0, , .		0