

Igor Bray

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

528
papers

10,752
citations

49
h-index

78
g-index

567
ext. papers

11,519
ext. citations

2.3
avg, IF

6.41
L-index

#	Paper	IF	Citations
528	Effective one-electron approach to proton collisions with molecular hydrogen. <i>European Physical Journal D</i> , 2022 , 76, 1	1.3	0
527	Taking the Convergent Close-Coupling Method beyond Helium: The Utility of the Hartree-Fock Theory. <i>Atoms</i> , 2022 , 10, 22	2.1	1
526	Electronic and Vibrational Close-Coupling Method for Resonant Electron-Molecule Scattering. <i>Physical Review Letters</i> , 2021 , 127, 223401	7.4	0
525	Proton-helium collisions at intermediate energies: Singly differential ionization cross sections. <i>Physical Review A</i> , 2021 , 104,	2.6	1
524	All-Order Full-Coulomb Quantum Spectral Line-Shape Calculations.. <i>Physical Review Letters</i> , 2021 , 127, 235001	7.4	1
523	Time delay in two-electron photodetachment and tests of fundamental threshold laws. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
522	Effective single-electron treatment of ion collisions with multielectron targets without using the independent-event model. <i>Physical Review A</i> , 2021 , 104,	2.6	2
521	Photoionization, Rayleigh, and Raman scattering cross sections for the alkali atoms. <i>Atomic Data and Nuclear Data Tables</i> , 2021 , 143, 101474	2	0
520	Calculation of the single differential cross section for electron-impact ionization of atoms and molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021 , 54, 015205	1.3	0
519	Recommended Cross Sections for ElectronIodium Scattering. <i>Journal of Physical and Chemical Reference Data</i> , 2021 , 50, 013101	4.3	3
518	Convergent close-coupling calculations of electrons scattering on electronically excited molecular hydrogen. <i>Physical Review A</i> , 2021 , 103,	2.6	4
517	Complete collision data set for electrons scattering on molecular hydrogen and its isotopologues: II. Fully vibrationally-resolved electronic excitation of the isotopologues of H ₂ (X1 σ ⁺). <i>Atomic Data and Nuclear Data Tables</i> , 2021 , 139, 101403	2	2
516	Extraction of Ps-formation cross-sections from single-centre positron-scattering calculations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021 , 54, 095201	1.3	1
515	Absolute triple differential cross sections for low-energy electron impact ionization of biochemically relevant systems: Water, tetrahydrofuran, and hydrated tetrahydrofuran. <i>Physical Review A</i> , 2021 , 104,	2.6	2
514	A Fully Relativistic Approach to Photon Scattering and Photoionization of Alkali Atoms. <i>Atoms</i> , 2021 , 9, 42	2.1	1
513	Complete collision data set for electrons scattering on molecular hydrogen and its isotopologues: I. Fully vibrationally-resolved electronic excitation of H ₂ (X1 σ ⁺). <i>Atomic Data and Nuclear Data Tables</i> , 2021 , 137, 101361	2	8
512	Integrated total and state-selective cross sections for bare beryllium ion collisions with atomic hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021 , 54, 175201	1.3	0

511	Differential study of proton-helium collisions at intermediate energies: Elastic scattering, excitation, and electron capture. <i>Physical Review A</i> , 2021 , 104,	2.6	3
510	Positron-impact direct ionization of lithium, sodium and potassium atoms. <i>European Physical Journal D</i> , 2021 , 75, 1	1.3	0
509	Application of molecular convergent close-coupling cross sections in a collisional radiative model for the triplet system of molecular hydrogen. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 115201	3	3
508	Singly differential cross sections for direct scattering, electron capture, and ionization in proton-hydrogen collisions. <i>Physical Review A</i> , 2020 , 102,	2.6	3
507	Differential cross sections for ionisation of helium by proton impact. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 152045	0.3	
506	Coupled-channel calculations of ionisation of atomic hydrogen by multiply-charged bare ions. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 162008	0.3	
505	Charge transfer in positronium-proton collisions: comparison of classical and quantum-mechanical theories. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 155201	1.3	0
504	Effect of Electron Capture on Spectral Line Broadening in Hot Dense Plasmas. <i>Physical Review Letters</i> , 2020 , 124, 055003	7.4	7
503	Electron-scattering on molecular hydrogen: convergent close-coupling approach. <i>European Physical Journal D</i> , 2020 , 74, 1	1.3	6
502	Calculations of electron scattering on H-like ions. <i>Physical Review A</i> , 2020 , 101,	2.6	3
501	Benchmark calculations of electron impact electronic excitation of the hydrogen molecule. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 145204	1.3	12
500	Atomic and Molecular Scattering Applications in an Apache Airavata Science Gateway 2020 ,		1
499	Cross sections for electron scattering from atomic lead. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 015204	1.3	4
498	Calculations of positron scattering on the hydrogen molecular ion. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 015203	1.3	1
497	Rayleigh and Raman Scattering from Alkali Atoms. <i>Atoms</i> , 2020 , 8, 57	2.1	2
496	Configuration space method to calculate rearrangement matrix elements. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 222004	0.3	
495	Convergent close-coupling calculations of positron collisions with the hydrogen negative ion. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 222005	0.3	
494	Proton scattering from ground and excited states of atomic hydrogen. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 152031	0.3	

493	Electron-impact excitation of the (5s25p) P1/22-(5s26s) S1/22 transition in indium: Theory and experiment. <i>Physical Review A</i> , 2020 , 102,	2.6	3
492	One-center close-coupling approach to two-center rearrangement collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 145201	1.3	6
491	Vibrational excitation of the $\{\{\rm{H}}\}\}_2X^{\{\{\rm{Sigma}}\}}_g^{\{+\}}$ state via electron-impact excitation and radiative cascade. <i>Plasma Sources Science and Technology</i> , 2019 , 28, 025004	3.5	8
490	Configuration space method to calculate rearrangement matrix elements. <i>Computer Physics Communications</i> , 2019 , 239, 64-71	4.2	3
489	Wave-packet continuum-discretization approach to proton collisions with helium. <i>Physical Review A</i> , 2019 , 99,	2.6	10
488	Positron-impact electronic excitations and mass stopping power of H2. <i>Physical Review A</i> , 2019 , 99,	2.6	2
487	Development of convergent close-coupling approach to hadron interactions with matter. <i>Journal of Physics: Conference Series</i> , 2019 , 1154, 012013	0.3	
486	Balmer emission induced by proton impact on atomic hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 105701	1.3	7
485	Proton-beam stopping in hydrogen. <i>Physical Review A</i> , 2019 , 99,	2.6	8
484	Effect of cascade transitions on the polarization of light emitted after electron-impact excitation of Zn by spin-polarized electrons. <i>Physical Review A</i> , 2019 , 100,	2.6	2
483	Non-LTE analysis of K I in late-type stars. <i>Astronomy and Astrophysics</i> , 2019 , 627, A177	5.1	24
482	Electron capture, excitation and ionization in He2+H and H+He+ collisions. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 095005	2	8
481	Spin asymmetry in electron-impact ionization. <i>Physical Review A</i> , 2019 , 100,	2.6	3
480	Roadmap on photonic, electronic and atomic collision physics: II. Electron and antimatter interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 171002	1.3	14
479	Laser-driven production of the antihydrogen molecular ion. <i>Physical Review A</i> , 2019 , 100,	2.6	3
478	Electron-Impact Dissociation of Vibrationally-Excited Molecular Hydrogen into Neutral Fragments. <i>Atoms</i> , 2019 , 7, 75	2.1	3
477	State-of-the-Art Reviews on Energetic Ion-Atom and Ion-Molecule Collisions. <i>Interdisciplinary Research on Particle Collisions and Quantitative Spectroscopy</i> , 2019 ,	0.5	10
476	The stopping power of hydrogen for protons and antiprotons. <i>Interdisciplinary Research on Particle Collisions and Quantitative Spectroscopy</i> , 2019 , 227-254	0.5	0

475	Fully differential cross sections for single ionization of helium by energetic protons. <i>Physical Review A</i> , 2019 , 100,	2.6	5
474	Recommended electron-impact excitation and ionization cross sections for Be I. <i>Atomic Data and Nuclear Data Tables</i> , 2019 , 127-128, 1-1	2	4
473	Calculation of electron scattering on atomic silver. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 085203	1.3	5
472	Indirect contributions to electron-impact ionization of Li+ (1s2sS13) ions: Role of intermediate double-K-vacancy states. <i>Physical Review A</i> , 2018 , 97,	2.6	8
471	Electron-impact coherence parameters for 41P1excitation of zinc. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 085002	1.3	4
470	Two-center convergent close-coupling approach to positronBeliium-ion collisions. <i>Physical Review A</i> , 2018 , 97,	2.6	6
469	Electron-impact dissociation of molecular hydrogen into neutral fragments. <i>European Physical Journal D</i> , 2018 , 72, 1	1.3	15
468	Wave-packet continuum-discretization approach to ion-atom collisions including rearrangement: Application to differential ionization in proton-hydrogen scattering. <i>Physical Review A</i> , 2018 , 97,	2.6	29
467	Proton scattering from excited states of atomic hydrogen. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 095009	2	19
466	Convergent close-coupling approach to positron scattering on He+. <i>European Physical Journal D</i> , 2018 , 72, 1	1.3	3
465	Comparison of experiment and theory for superelastic electron-collision studies from laser-aligned magnesium. <i>Physical Review A</i> , 2018 , 98,	2.6	2
464	Vibrationally resolved electron-impact excitation cross sections for singlet states of molecular hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 144007	1.3	10
463	Near-Threshold Cross Sections for Electron and Positron Impact Ionization of Atomic Hydrogen. <i>Physical Review Letters</i> , 2018 , 121, 203401	7.4	8
462	Theoretical study of the μ -d-bi6+Astrophysical capture process in a three-body model. II. Reaction rates and primordial abundance. <i>Physical Review C</i> , 2018 , 98,	2.7	14
461	Low-energy electron scattering from molecular hydrogen: Excitation of the X1 \bar{g} + to b3 \bar{u} + transition. <i>Physical Review A</i> , 2018 , 98,	2.6	10
460	Ionization and electron capture in collisions of bare carbon ions with hydrogen. <i>Physical Review A</i> , 2018 , 98,	2.6	9
459	Antihydrogen formation in low-energy antiproton collisions with excited-state positronium atoms. <i>Hyperfine Interactions</i> , 2018 , 239, 1	0.8	2
458	Efficient calculation of Rayleigh and Raman scattering. <i>Physical Review A</i> , 2018 , 98,	2.6	4

457	Electron-impact dissociative excitation cross sections for singlet states of molecular hydrogen. <i>Physical Review A</i> , 2018 , 98,	2.6	9
456	Time-of-flight electron scattering from molecular hydrogen: Benchmark cross sections for excitation of the $X^1\Sigma^+_g \rightarrow b^3\Sigma^+_g$ transition. <i>Physical Review A</i> , 2018 , 97,	2.6	10
455	Electron and positron molecule scattering: development of the molecular convergent close-coupling method. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 123001	1.3	36
454	Hybrid approach to calculating proton stopping power in hydrogen. <i>Journal of Physics: Conference Series</i> , 2017 , 777, 012010	0.3	4
453	Inelastic e+Mg collision data and its impact on modelling stellar and supernova spectra. <i>Astronomy and Astrophysics</i> , 2017 , 606, A11	5.1	13
452	Adiabatic-nuclei calculations of positron scattering from molecular hydrogen. <i>Physical Review A</i> , 2017 , 95,	2.6	22
451	Kinetic-energy release of fragments from electron-impact dissociation of the molecular hydrogen ion and its isotopologues. <i>Physical Review A</i> , 2017 , 96,	2.6	8
450	Differential cross sections for excitation of H ₂ by low-energy electron impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 225203	1.3	6
449	Calculation of atomic photoionization using the nonsingular convergent close-coupling method. <i>Physical Review A</i> , 2017 , 95,	2.6	1
448	Electron mass stopping power in H ₂ . <i>Physical Review A</i> , 2017 , 96,	2.6	8
447	Convergent close-coupling approach to light and heavy projectile scattering on atomic and molecular hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 202001	1.3	24
446	Effective two-body model for spectra of clusters of H ₂ , H ₃ , He ₃ , and He ₄ with He ₄ , and H ₂ He ₄ scattering. <i>Physical Review C</i> , 2017 , 96,	2.7	3
445	Wave-packet continuum-discretization approach to single ionization of helium by antiprotons and energetic protons. <i>Physical Review A</i> , 2017 , 96,	2.6	17
444	Quantum suppression of antihydrogen formation in positronium-antiproton scattering. <i>Nature Communications</i> , 2017 , 8, 1544	17.4	17
443	Electron-impact excitation of molecular hydrogen. <i>Physical Review A</i> , 2017 , 95,	2.6	28
442	Solving close-coupling equations in momentum space without singularities for charged targets. <i>Computer Physics Communications</i> , 2017 , 212, 55-58	4.2	7
441	LXCat: an Open-Access, Web-Based Platform for Data Needed for Modeling Low Temperature Plasmas. <i>Plasma Processes and Polymers</i> , 2017 , 14, 1600098	3.4	111
440	Low-energy electron-impact dissociative excitation of molecular hydrogen and its isotopologues. <i>Physical Review A</i> , 2017 , 96,	2.6	14

439	State-resolved Photodissociation and Radiative Association Data for the Molecular Hydrogen Ion. <i>Astrophysical Journal</i> , 2017 , 851, 64	4.7	9
438	Low-energy mixing collisions of excited positronium with protons and antiprotons. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 134001	1.3	2
437	Calculations of electron-impact ionisation of $\{\mathrm{Fe}\}^{25+}$ and $\{\mathrm{Fe}\}^{24+}$. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 184001	1.3	2
436	Structure of $^{23}\mathrm{Al}$ from a multi-channel algebraic scattering model based on mirror symmetry. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2016 , 43, 095104	2.9	5
435	Importance of resonance widths in low-energy scattering of weakly bound light-mass nuclei. <i>Physical Review C</i> , 2016 , 94,	2.7	6
434	Wave-packet continuum-discretization approach to ion-atom collisions: Nonrearrangement scattering. <i>Physical Review A</i> , 2016 , 94,	2.6	25
433	Heating due to momentum transfer in low-energy positronium-antiproton scattering. <i>Physical Review A</i> , 2016 , 94,	2.6	11
432	Calculation of antihydrogen formation via antiproton scattering with excited positronium. <i>Physical Review A</i> , 2016 , 93,	2.6	31
431	Polarization of Lyman- α emission in proton-hydrogen collisions studied using a semiclassical two-center convergent close-coupling approach. <i>Physical Review A</i> , 2016 , 93,	2.6	27
430	Complete Solution of Electronic Excitation and Ionization in Electron-Hydrogen Molecule Scattering. <i>Physical Review Letters</i> , 2016 , 116, 233201	7.4	35
429	Theoretical study of the $\mathrm{d}+\mathrm{p}+\mathrm{p}$ astrophysical capture process in a three-body model. <i>Physical Review C</i> , 2016 , 94,	2.7	18
428	Calculations for electron-impact excitation and ionization of beryllium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 235701	1.3	14
427	Recent progress in the description of positron scattering from atoms using the convergent close-coupling theory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 222002	1.3	47
426	Antiproton stopping power data for radiation therapy simulations. <i>Physica Medica</i> , 2016 , 32, 1827-1832	2.7	5
425	Solving close-coupling equations in momentum space without singularities II. <i>Computer Physics Communications</i> , 2016 , 203, 147-151	4.2	10
424	Internal consistency in the close-coupling approach to positron collisions with atoms. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	10
423	Accurate solution of the proton-hydrogen three-body scattering problem. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 03LT01	1.3	11
422	Solution of the proton-hydrogen scattering problem using a quantum-mechanical two-center convergent close-coupling method. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 115203	1.3	35

421	Attosecond Time Delay in Photoemission and Electron Scattering near Threshold. <i>Physical Review Letters</i> , 2016 , 117, 143202	7.4	12
420	Physics book: CRYRING@ESR. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 797-882	2.3	67
419	Near-threshold behavior of positronium-antiproton scattering. <i>Physical Review A</i> , 2016 , 94,	2.6	16
418	Antiproton-impact ionization of Ne, Ar, Kr, Xe, and H ₂ O. <i>Physical Review A</i> , 2015 , 91,	2.6	13
417	Electron collisions with beryllium and its ions. <i>Journal of Physics: Conference Series</i> , 2015 , 576, 012001	0.3	3
416	Solving close-coupling equations in momentum space without singularities. <i>Computer Physics Communications</i> , 2015 , 196, 276-279	4.2	10
415	41P1 Zn excitation by 80-eV electrons. <i>Physical Review A</i> , 2015 , 91,	2.6	4
414	Calculation of electron-impact ionization of Mg and Al ⁺ . <i>Physical Review A</i> , 2015 , 92,	2.6	6
413	Antiproton stopping in atomic targets. <i>Physical Review A</i> , 2015 , 92,	2.6	20
412	Convergent close coupling versus the generalized Sturmian function approach: Wave-function analysis. <i>Physical Review A</i> , 2015 , 92,	2.6	4
411	Propensity for distinguishing two free electrons with equal energies in electron-impact ionization of helium. <i>Physical Review A</i> , 2015 , 92,	2.6	13
410	Antiproton stopping in H ₂ and H ₂ O. <i>Physical Review A</i> , 2015 , 92,	2.6	13
409	Two-center close-coupling calculations of positron-molecular-hydrogen scattering. <i>Physical Review A</i> , 2015 , 92,	2.6	20
408	Accurate stopping power calculations for antiprotons and protons. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 022034	0.3	
407	Enhancement of antihydrogen formation in antiproton collisions with excited-state positronium. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 022008	0.3	
406	Ionisation of noble gas atoms and H ₂ O by antiproton impact. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 022032	0.3	
405	Fully quantum-mechanical treatment of proton-hydrogen scattering. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 022100	0.3	0
404	Calculations of electron and positron scattering from vibrationally excited H ₂ ⁺ and H ₂ . <i>Journal of Physics: Conference Series</i> , 2015 , 635, 072047	0.3	

403	Convergent calculations of positron scattering from molecular hydrogen. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 012009	0.3	5
402	e-Zn inelastic scattering at 80 eV. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 092102	0.3	
401	Antihydrogen Formation via Antiproton Scattering with Excited Positronium. <i>Physical Review Letters</i> , 2015 , 114, 183201	7.4	44
400	Sudden perturbation approximations for interaction of atoms with intense ultrashort electromagnetic pulses. <i>European Physical Journal D</i> , 2015 , 69, 1	1.3	1
399	Internal consistency in positron-hydrogen-scattering calculations. <i>Physical Review A</i> , 2015 , 91,	2.6	15
398	Ionization amplitudes in electron-hydrogen collisions. <i>Physical Review A</i> , 2014 , 90,	2.6	9
397	Electron scattering from the molecular hydrogen ion and its isotopologues. <i>Physical Review A</i> , 2014 , 90,	2.6	34
396	Novel method for state selective determination of electron-impact-excitation cross sections from 0° to 180°. <i>EPJ Techniques and Instrumentation</i> , 2014 , 1,	1.8	2
395	Plasma pressure broadening for few-electron emitters including strong electron collisions within a quantum-statistical theory. <i>Physical Review E</i> , 2014 , 89, 023106	2.4	4
394	Electron scattering from molecular hydrogen in a spheroidal convergent close-coupling formalism. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 052016	0.3	2
393	Two electron interference in angular resolved double photoionization of Mg. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 012023	0.3	
392	Nonperturbative electron-ion scattering theory incorporating the Møller interaction. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 062018	0.3	
391	Interference between direct ionisation and positronium formation in continuum in positron-hydrogen collisions. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 072003	0.3	
390	Different representations of continuum in the positron-hydrogen scattering problem. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 072006	0.3	
389	Close-coupling approach to antiproton-impact ionisation of H ₂ with analytical spherical averaging. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 102032	0.3	1
388	Two-electron interference in angular resolved double photoionization of Mg. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 022006	0.3	
387	Spin asymmetries for electron-thallium scattering calculated with the relativistic convergent close-coupling method. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 042014	0.3	
386	Single photon double ionization of Helium at 800 eV: Observation of the Quasi Free Mechanism. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 022007	0.3	

385	Spectral Line Shapes of He I Line 3889 \square <i>Atoms</i> , 2014 , 2, 277-298	2.1	7
384	Positron scattering on atoms and molecules. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 012052	0.3	3
383	Electron excitation in thin metal films due to the magnetic field of ultrashort laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 2504	1.7	
382	Relativistic convergent close-coupling calculation of inelastic scattering of electrons from cesium. <i>Physical Review A</i> , 2014 , 89,	2.6	7
381	Close-coupling approach to antiproton-impact breakup of molecular hydrogen. <i>Physical Review A</i> , 2014 , 89,	2.6	17
380	Calculation of the polarization fraction and electron-impact excitation cross section for the Cd ⁺ (5p) 2P _{3/2} state. <i>Physical Review A</i> , 2014 , 90,	2.6	8
379	Double \square vacancy states in electron-impact single ionization of metastable two-electron N5+(1s2s 3S1) ions. <i>Physical Review A</i> , 2014 , 90,	2.6	14
378	Calculation of the polarization of light emitted during electron-impact excitation of Ba ⁺ . <i>Physical Review A</i> , 2014 , 89,	2.6	10
377	Photo-double-ionization of Mg studied by electron-electron-coincidence experiments. <i>Physical Review A</i> , 2014 , 89,	2.6	6
376	Two-center approach to fully differential positron-impact ionization of hydrogen. <i>Physical Review A</i> , 2014 , 89,	2.6	9
375	Atomic data and collisional \square radiative model for beryllium and its ions. <i>Physica Scripta</i> , 2014 , T161, 014007.2.6		
374	Benchmark calculation of hydrogen (antihydrogen) formation at rest in positronium-proton (-antiproton) scattering. <i>Physical Review A</i> , 2013 , 87,	2.6	11
373	Negative ion resonance measurements in the autoionizing region of helium measured across the complete angular scattering range (0 \square 180 \square). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013 , 46, 035001	1.3	1
372	Comment I on \square topological angular momentum in electron exchange excitation of a single atom \square <i>Physical Review A</i> , 2013 , 87,	2.6	8
371	Pseudostate description of diatomic-molecule scattering from a hard-wall potential. <i>Physical Review A</i> , 2013 , 87,	2.6	4
370	Convergent-close-coupling formalism for positron scattering from molecules. <i>Physical Review A</i> , 2013 , 87,	2.6	35
369	Signature of two-electron interference in angular resolved double photoionization of Mg. <i>Physical Review Letters</i> , 2013 , 110, 083001	7.4	14
368	Threshold behavior of positronium formation in positron \square alkali-metal scattering. <i>Physical Review A</i> , 2013 , 87,	2.6	9

367	Ejection of quasi-free-electron pairs from the helium-atom ground state by single-photon absorption. <i>Physical Review Letters</i> , 2013 , 111, 013003	7.4	36
366	Calculation of the relativistic rise in electron-impact-excitation cross sections for highly charged ions. <i>Physical Review A</i> , 2013 , 88,	2.6	9
365	Calculations of electron scattering from H ₂ ⁺ . <i>Physical Review A</i> , 2013 , 88,	2.6	14
364	Target structure-induced suppression of the ionization cross section for low-energy antiproton-molecular hydrogen collisions: theoretical confirmation. <i>Physical Review Letters</i> , 2013 , 111, 173201	7.4	24
363	Calculation of the circular-polarization P3 Stokes parameter for electron-silver scattering. <i>Physical Review A</i> , 2013 , 88,	2.6	5
362	Two-center convergent-close-coupling calculations of positron scattering on magnesium. <i>Physical Review A</i> , 2012 , 86,	2.6	19
361	Fully differential cross section for single ionization in energetic C ₆ ⁺ -He collisions. <i>Physical Review A</i> , 2012 , 86,	2.6	18
360	Convergent close-coupling method for positron scattering from noble gases. <i>New Journal of Physics</i> , 2012 , 14, 035002	2.9	33
359	(e, 2e) on helium: complete agreement between experiment and theory. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 042043	0.3	
358	Calculations of electron scattering from cadmium. <i>Physical Review A</i> , 2012 , 85,	2.6	10
357	Relativistic convergent close-coupling method calculation of the spin polarization of electrons scattered elastically from zinc and mercury. <i>Physical Review A</i> , 2012 , 85,	2.6	15
356	J-matrix calculation of electron-helium S-wave scattering. II. Single ionization and single excitation. <i>Physical Review A</i> , 2012 , 86,	2.6	2
355	Nonperturbative electron-ion-scattering theory incorporating the Møller interaction. <i>Physical Review A</i> , 2012 , 86,	2.6	5
354	Relativistic convergent close-coupling calculation of spin asymmetries for electron-thallium scattering. <i>Physical Review A</i> , 2012 , 86,	2.6	4
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9	Exact second-order distorted-wave calculation for hydrogen including second-order exchange. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1991 , 24, 3861-3888	1.3	62
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