Thomas Rescigno

List of Publications by Year
in descending order

50 papers	2,841 citations	201674 27 h-index	189892 50 g-index
50 all docs	50 docs citations	50 times ranked	1150 citing authors

#	Article	IF	Citations
1	Inner-shell photodetachment of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mi>n</mml:mi></mml:msub><mml:msup><mml:mrow /><mml:mo>â^'</mml:mo></mml:msup></mml:mrow></mml:math> ions. Physical Review A, 2020, 101, .	2.5	1
2	Selective bond-breaking in formic acid by dissociative electron attachment. Physical Chemistry Chemical Physics, 2020, 22, 13893-13902.	2.8	5
3	Resonance signatures in the body-frame valence photoionization of CF₄. Physical Chemistry Chemical Physics, 2018, 20, 21075-21084.	2.8	10
4	Unambiguous observation of F-atom core-hole localization in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CF</mml:mi><mml:mn>4</mml:mn></mml:msub></mml: through body-frame photoelectron angular distributions. Physical Review A, 2017, 95, .	2.5	14
5	Ion-momentum imaging of dissociative attachment of electrons to molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 222001.	1.5	17
6	Dynamics of dissociative electron attachment to ammonia. Physical Review A, 2016, 93, .	2.5	26
7	Two-photon double ionization of atomic beryllium with ultrashort laser pulses. Physical Review A, 2015, 92, .	2.5	8
8	Hybrid Gaussianâ€“discrete-variable representation for one- and two-active-electron continuum calculations in molecules. Physical Review A, 2014, 90, .	2.5	20
9	Ion-momentum imaging of resonant dissociative-electron-attachment dynamics in methanol. Physical Review A, 2013, 87, .	2.5	21
10	Dissociative electron attachment to carbon dioxide via the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow /><mml:mn>2</mml:mn></mml:msup><mml:msub><mml:mi>Î</mml:mi><mml:mi>u</mml:mi></mml:msub></mml:mrow></mml:math resonance. Physical Review A, 2013, 88, .	2.5	26
11	Imaging molecular isomerization using molecular-frame photoelectron angular distributions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 194001.	1.5	22
12	Imaging molecular shapes with molecular-frame photoelectron angular distributions from core hole ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 194002.	1.5	19
13	Imaging Polyatomic Molecules in Three Dimensions Using Molecular Frame Photoelectron Angular Distributions. Physical Review Letters, 2012, 108, 233002.	7.8	62
14	Observation of the dynamics leading to a conical intersection in dissociative electron attachment to water. Physical Review A, 2011, 84, .	2.5	17
15	Grid-based methods for diatomic quantum scattering problems. III. Double photoionization of molecular hydrogen in prolate spheroidal coordinates. Physical Review A, 2010, 82, .	2.5	50
16	Theoretical study of asymmetric molecular-frame photoelectron angular distributions for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>C</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mn>1</mml:mn><mml:mi>s</mml:m from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu Physical Review A, 2009, 79, .	2.5	22
17	Application of exterior complex scaling to positron-hydrogen collisions including rearrangement. Physical Review A, 2008, 77, .	2.5	3
18	Comment on â€˜A wave packet method for treating nuclear dynamics on complex potentialsâ€™. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 1461-1463.	1.5	1

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19	Extracting amplitudes for single and double ionization from a time-dependent wave packet. Physical Review A, 2007, 76, .	2.5	49
20	Single and triple differential cross sections for double photoionization ofHâ¯. Physical Review A, 2007, 75, .	2.5	15
21	Nuclear dynamics in resonant electron collisions with small polyatomic molecules. Journal of Physics: Conference Series, 2007, 88, 012027.	0.4	4
22	Dissociative electron attachment to theH2Omolecule I. Complex-valued potential-energy surfaces for theB12,A12, andB22metastable states of the water anion. Physical Review A, 2007, 75, .	2.5	53
23	Dissociative electron attachment to theH2Omolecule. II. Nuclear dynamics on coupled electronic surfaces within the local complex potential model. Physical Review A, 2007, 75, .	2.5	62
24	Double photoionization of aligned molecular hydrogen. Physical Review A, 2006, 74, .	2.5	85
25	Dynamics of Low-Energy Electron Attachment to Formic Acid. Physical Review Letters, 2006, 96, 213201.	7.8	90
26	Low-energy electron scattering by formic acid. Physical Review A, 2006, 74, .	2.5	32
27	Topology of the adiabatic potential energy surfaces for the resonance states of the water anion. Physical Review A, 2005, 72, .	2.5	24
28	Complex potential surface for theB12metastable state of the water anion. Physical Review A, 2004, 69, .	2.5	33
29	Dynamics of dissociative attachment of electrons to water through theB12metastable state of the anion. Physical Review A, 2004, 69, .	2.5	60
30	Theoretical treatment of double photoionization of helium using aB-spline implementation of exterior complex scaling. Physical Review A, 2004, 69, .	2.5	76
31	Solving the three-body Coulomb breakup problem using exterior complex scaling. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, R137-R187.	1.5	255
32	Resonant vibrational excitation ofCO2by electron impact: Nuclear dynamics on the coupled components of the2Îuresonance. Physical Review A, 2003, 67, .	2.5	54
33	Resolution of phase ambiguities in electron-impact ionization amplitudes. Physical Review A, 2003, 68, .	2.5	18
34	Theoretical study of resonant vibrational excitation ofCO2by electron impact. Physical Review A, 2002, 65, .	2.5	54
35	Electron-impact ionization of atomic hydrogen. Physical Review A, 2001, 63, .	2.5	122
36	Accurate amplitudes for electron-impact ionization. Physical Review A, 2001, 64, .	2.5	110

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37	Numerical grid methods for quantum-mechanical scattering problems. Physical Review A, 2000, 62, .	2.5	318
38	Practical calculations of quantum breakup cross sections. Physical Review A, 2000, 62, .	2.5	29
39	Theoretical studies of low-energy electron-CO2scattering: Total, elastic, and differential cross sections. Physical Review A, 1999, 60, 2186-2193.	2.5	52
40	Collisional Breakup in a Quantum System of Three Charged Particles. Science, 1999, 286, 2474-2479.	12.6	450
41	Use of two-body close-coupling formalisms to calculate three-body breakup cross sections. Physical Review A, 1999, 60, 3740-3749.	2.5	28
42	Calculation of scattering amplitudes as continuous functions of energy:R-matrix theory without a box. Physical Review A, 1998, 57, 3511-3517.	2.5	8
43	Low-energy electron scattering fromCH3Cl. Physical Review A, 1997, 56, 2855-2859.	2.5	19
44	Algebraic variational approach to atomic and molecular photoionization cross sections: Removing the energy dependence from the basis. Physical Review A, 1997, 55, 342-346.	2.5	10
45	Approach to electron-impact ionization that avoids the three-body Coulomb asymptotic form. Physical Review A, 1997, 56, 1958-1969.	2.5	64
46	THE INCORPORATION OF MODERN ELECTRONIC STRUCTURE METHODS IN ELECTRONâ€“MOLECULE COLLISION PROBLEMS: VARIATIONAL CALCULATIONS USING THE COMPLEX KOHN METHOD. Advanced Series in Physical Chemistry, 1995, , 501-588.	1.5	36
47	Ab initiocomplex Kohn calculations of dissociative excitation of water. Physical Review A, 1994, 49, 2642-2650.	2.5	42
48	Interchannel coupling and ground state correlation effects in the photoionization of CO. Journal of Chemical Physics, 1993, 99, 5097-5103.	3.0	43
49	Theoretical study of electron-impact excitation ofN2+. Physical Review A, 1990, 42, 5292-5297.	2.5	32
50	Cross sections for resonant vibrational excitation ofN2by electron impact. Physical Review A, 1981, 23, 1089-1099.	2.5	170