

## Publications of Chris H. Greene and Co-authors

360. "Quantum beats in two-color photoionization to the spin-orbit split continuum of Ar", M. A. Alarcón, A. Plunkett, J. K. Wood, D. Biswas, C. H. Greene, and A. Sandhu, *Physical Review A* 108, 033107 (2023). DOI: 10.1103/PhysRevA.108.033107
359. "Wigner time delay in photoionization: a 1D model study", Elghazawy, I., Karim and Greene, Chris H., *Journal of Physics B* 56, 175201 (2023). DOI: 10.1088/1361-6455/aceb28
358. "Unified treatment of resonant and nonresonant mechanisms in dissociative recombination: Benchmark study of CH", Forer, Joshua and Hvizdos, David and Jiang, Xianwu and Ayoub, Mehdi and Greene, Chris H. and Kokouline, Viatcheslav, *Physical Review A* 107, 042801 (2023). DOI: 10.1103/PhysRevA.107.042801
357. "P-wave Efimov physics implications at unitarity", Chen, Yu-Hsin and Greene, Chris H., *Physical Review A* 107, 033329 (2023). DOI: 10.1103/PhysRevA.107.033329
356. "Observation of coherent oscillations in the association of dimers from a thermal gas of ultracold atoms", Elbaz, Roy and Yudkin, Yaakov and Giannakeas, P. and Rost, Jan-Michael and Greene, Chris H. and Khaykovich, Lev, *Physical Review A* 107, L031304 (2023). DOI: 10.1103/PhysRevA.107.L031304
355. "Coherent-control phase lag across doubly excited atomic strontium resonances in an omega-2 omega interference scheme", Wang, Yimeng and Greene, Chris H., *Physical Review A* 107, 032804 (2023). DOI: 10.1103/PhysRevA.107.032804
354. "Triatomic Photoassociation in an Ultracold Atom-Molecule Collision", Elkamshishy, Ahmed A. and Greene, Chris H., *J. Phys. Chem. A* 127, 18-28 (2023). DOI: 10.1021/acs.jpca.2c0472718J
353. "Differential Measurement of Electron Ejection after Two-Photon Two-Electron Excitation of Helium", Michael Straub, Thomas Ding, Marc Rebholz, Gergana D. Borisova, Alexander Magunia, Hannes Lindenblatt, Severin Meister, Florian Trost, Yimeng Wang, Steffen Palutke, Markus Braune, Stefan Düsterer, Rolf Treusch, Chris H. Greene, Robert Moshammer, Thomas Pfeifer, and Christian Ott, *Physical Review Letters* 129, 183204 (2022). DOI: 10.1103/PhysRevLett.129.183204
352. "Attosecond entangled photons from two-photon decay of metastable atoms: A source for attosecond experiments and beyond", Yimeng Wang, Siddhant Pandey, Chris H. Greene, Niranjan Shivaray, *Physical Review Research* 4, L032038 (2022). DOI: 10.1103/PHYSREVRESEARCH.4.L032038
351. "Three and four identical fermions near the unitary limit", Michael Higgins and C. H. Greene, *Physical Review A* 106, 023304 (2022). DOI: 10.1103/PHYSREVA.106.023304
350. "Analyzing the Rydberg-based optical-metastable-ground architecture for Yb-171 nuclear spins", Neville Chen, Lintao Li, William Huie, Mingkun Zhao, Ian Vetter, Chris H. Greene, and Jacob P. Covey, *Physical Review A* 105, 052438 (2022). DOI: 10.1103/PHYSREVA.105.052438
349. "Controlling Rydberg Excitations Using Ion-Core Transitions in Alkaline-Earth Atom-Tweezer Arrays", Alex P. Burgers, Shuo Ma, Sam Saskin, Jack Wilson, Miguel A. Alarcón, Chris H. Greene, and Jeff D. Thompson, *PRX Quantum* 3, 020326 (2022). DOI: 10.1103/PRXQUANTUM.3.020326
348. "Competing ionization and dissociation in the H<sub>2</sub> gerade system", David Hvizdos, Roman Curik, and C. H. Greene, *European Physical Journal D* 76, 45 (2022). DOI: 10.1140/EPJD/S10053-022-00369-8
347. "Raman Interferometry between Autoionizing States to Probe Ultrafast Wave-Packet Dynamics with High Spectral Resolution", A. Plunkett, M. A. Alarcón, J. K. Wood, C. H. Greene, and A. Sandhu, *Physical Review Letters* 128, 083001 (2022). DOI: 10.1103/PHYSREVLETT.128.083001
346. "Multichannel photoelectron phase lag across atomic barium autoionizing resonances", Yimeng Wang, C. H. Greene, *Physical Review A* 105, 013113 (2022). DOI: 10.1103/PHYSREVA.105.013113
345. "Efimov physics implications at p-wave fermionic unitarity", Yu-Hsin Chen and Chris H. Greene, *Phys. Rev. A* 105, 013308 (2022). DOI: 10.1103/PHYSREVA.105.013308
344. "Asymmetric Lineshapes of Efimov Resonances in Mass-Imbalanced Ultracold Gases", P. Giannakeas and C.H. Greene, *Atoms* 9, 110 (2021). DOI: 10.3390/ATOMS9040110
343. "Spectroscopy of Rydberg states in erbium using electromagnetically induced transparency", A. Trautmann, M. J. Mark, P. Ilzhöfer, H. Edri, A. El Arrach, J. G. Maloberti,

- C. H. Greene, F. Robicheaux, and F. Ferlaino, Physical Review Research 3, 033165 (2021). DOI: 10.1103/PHYSREVRESEARCH.3.033165
342. “Observation of Wigner-Dyson level statistics in a classically integrable system”, Ahmed A. Elkamshishy, C. H. Greene, Physical Review E 103, 062211 (2021). DOI: 10.1103/PHYSREVE.103.062211
341. “Resonant control of photoelectron directionality by interfering one- and two-photon pathways”, Yimeng Wang, C. H. Greene, Physical Review A 103, 053118 (2021). DOI: 10.1103/PHYSREVA.103.053118
340. “Two-photon above-threshold ionization of helium”, Yimeng Wang, C. H. Greene, Physical Review A 103, 033103 (2021). DOI: 10.1103/PHYSREVA.103.033103
339. “Comprehensive study of the three- and four-neutron systems at low energies”, Michael D. Higgins, Chris H. Greene, A. Kievsky, M. Viviani, Phys. Rev. C 103, 024004 (2021). DOI: 10.1103/PHYSREVC.103.024004
338. “Orbital variational adiabatic hyperspherical method applied to Bose-Einstein condensates”, Hyunwoo Lee and C.H. Greene, Phys. Rev. A 103, 023325 (2021). DOI: 10.1103/PHYSREVA.103.023325
337. “Observability of a sharp Majorana transition in a few-body model”, J. E. Bland, C. H. Greene, B. Wehefritz-Kaufmann, Phys. Rev. A 103, 023310 (2021). DOI: 10.1103/PHYSREVA.103.023310
336. “Exploring chemical reactions in a quantum degenerate gas of polar molecules via complex formation”, P. R. Peiru, T. Bilitewski, C. H. Greene, A. M. Rey, Physical Review A 102, 063322-1 to -12 (2020). DOI: 10.1103/PhysRevA.102.063322
335. “Nonresonant Density of States Enhancement at Low Energies for Three or Four Neutrons”, M. D. Higgins, C. H. Greene, A. Kievsky, M. Viviani, Physical Review Letters 125, 052501-1 to -5 (2020). DOI: 10.1103/PhysRevLett.125.052501
334. “Dissociative Recombination of Cold HeH<sup>+</sup> Ions”, R. Curik, D. Hvizdos, C. H. Greene, Physical Review Letters 124, 043401-1 to -5 (2020). DOI: 10.1103/PhysRevLett.124.043401
333. “Backpropagated frame transformation theory: A reformulation”, D. Hvizdos, C. H. Greene, R. Curik, Physical Review A 101, 012709-1 to -7 (2020). DOI: 10.1103/PhysRevA.101.012709
332. “Collisional spin transfer in an atomic heteronuclear spinor Bose gas”, Fang Fang, Joshua A. Isaacs, Aaron Smull, Katinka Horn, L. Dalila Robledo-De Basabe, Yimeng Wang, Chris H. Greene, and Dan M. Stamper-Kurn, Phys. Rev. Research 2, 032054(R)-1 to -5 (2020). DOI: 10.1103/PhysRevResearch.2.032054
331. “Cross-dimensional relaxation of Li-7-Rb-87 atomic gas mixtures in a spherical-quadrupole magnetic trap”, F. Fang, S. Wu, A. Smull, J.A. Isaacs, Y.M. Wang, C.H. Greene, D. M. Stamper-Kurn, Phys. Rev. A 101, 012703-1 to -8 (2020). DOI: 10.1103/PhysRevA.101.012703
330. “Nonadiabatic Molecular Association in Thermal Gases Driven by Radio-Frequency Pulses”, P. Giannakeas, L. Khaykovich, Jan-Michael Rost, and C. H. Greene, Phys. Rev. Lett 123, 043204-1 to -5 (2019). DOI: 10.1103/PhysRevLett.123.043204
329. “Coherent Superposition of Feshbach Dimers and Efimov Trimers”, Yaakov Yudkin, Roy Elbaz, P. Giannakeas, C. H. Greene, and Lev Khaykovich, Phys. Rev. Lett 122, 200402-1 to -6 (2019). DOI: 10.1103/PhysRevLett.122.200402
328. “Low-energy scattering properties of ground-state and excited-state positronium collisions”, Michael D. Higgins, Kevin M. Daily, and C.H. Greene, Phys. Rev. A 100, 012711-1 to -10 (2019). DOI: 10.1103/PhysRevA.100.012711
327. “Local frame transformation theory for two classes of diatomic molecules”, T. J. Price, C.H. Greene, Molec. Phys. 117, 3171-3183 (2019). DOI: 10.1080/00268976.2019.1617446
326. “Bulk-edge correspondence in fractional quantum Hall states”, Bin Yan, Rudro R. Biswas, C.H. Greene, Phys. Rev. B 99, 035153-1 to -6 (2019). DOI: 10.1103/PhysRevB.99.035153
325. “Spin current generation and relaxation in a quenched spin-orbit-coupled Bose-Einstein condensate”, C H Li, C L Qu, R J Niffenegger, Su-Ju Wang, M Y He, D B Blasing, A J Olson, C.H. Greene, Y Lyanda-Geller, Q Zhou, C W Zhang, Y P Chen, Nature Commun. 10, 375-1 to -14 (2019). DOI: 10.1038/s41467-018-08119-4
324. “Universal temperature dependence of the ion-neutral-neutral three-body recombination rate”, Jesus Perez-Rios, C.H. Greene, Phys. Rev. A 98, 062707-1 to -4 (2018). DOI: 10.1103/PhysRevA.98.062707
323. “Validity of the Born-Oppenheimer approximation in the indirect-dissociative-recombination process”, Roman Curik, David Hvizdos, C.H. Greene, Phys. Rev. A 98, 062706-1 to -10 (2018). DOI: 10.1103/PhysRevA.98.062706

322. "Semiclassical Treatment of High-Lying Electronic States of H<sub>2</sub><sup>+</sup>", T. J. Price, C.H. Greene, *J. Phys. Chem. A* 122, 8565 to 8575 (2018). DOI: 10.1021/acs.jpca.8b07878
321. "Extreme Correlation and Repulsive Interactions in Highly Excited Atomic Alkali Anions", M. T. Eiles, and C. H. Greene, *Phys. Rev. Lett* 121, 133401-1 to -6 (2018). DOI: 10.1103/PhysRevLett.121.133401
320. "Theoretical Prediction of the Creation and Observation of a Ghost Trilobite Chemical Bond", M. T. Eiles, Zhengjia Tong, and C. H. Greene, *Phys. Rev. Lett* 121, 113203-1 to -6 (2018). DOI: 10.1103/PhysRevLett.121.113203 (cover article)
319. "Observability of the Efimov spectrum in an electron-atom-atom system", H. Han, C.H. Greene, *Phys. Rev. A* 98, 023632 -1 to -8 (2018). DOI: 10.1103/PhysRevA.98.023632
318. "Dissociative recombination by frame transformation to Siegert pseudostates: A comparison with a numerically solvable model", D. Hvizdos, M. Vana, K. Houfek, C.H. Greene, T. N. Rescigno, C. W. McCurdy, and R. Curik, *Phys. Rev. A* 97, 022704-1 to -12 (2018). DOI: 10.1103/PhysRevA.97.022704
317. "Ultracold Heteronuclear Three-Body Systems: How diabaticity limits the universality of recombination into shallow dimers", P. Giannakeas and C. H. Greene, *Phys. Rev. Lett* 120, 023401-1 to -6 (2018). DOI: 10.1103/PhysRevLett.120.023401 (cover article)
316. "Universal few-body physics and cluster formation", C. H. Greene, P. Giannakeas, and J. Perez-Rios, *Rev. Mod. Phys.* 89, 035006-1 to -66 (2017). DOI: 10.1103/RevModPhys.89.035006
315. "Inelastic low-energy collisions of electrons with HeH<sup>+</sup>: Rovibrational excitation and dissociative recombination", Roman Curik and C. H. Greene, *J. Chem. Phys.* 147, 054307-1 to -11 (2017). DOI: 10.1063/1.4994921
314. "Anisotropic blockade using pendular long-range Rydberg molecules", M. T. Eiles, Hyunwoo Lee, J. Perez-Rios, and C.H. Greene, *Phys. Rev. A* 95, 052708-1 to -7 (2017). DOI: 10.1103/PhysRevA.95.052708
313. "Hamiltonian for the inclusion of spin effects in long-range Rydberg molecules", M. T. Eiles and C. H. Greene, *Phys. Rev. A* 95, 042515-1 to -13 (2017). DOI: 10.1103/PhysRevA.95.042515
312. "Renormalized contact interaction in degenerate unitary Bose gases", Yijue Ding and C. H. Greene, *Phys. Rev. A* 95, 053602-1 to -8 (2017). DOI: 10.1103/PhysRevA.95.053602
311. "Role of the intraspecies scattering length in the Efimov scenario with large mass difference", S. Haefner, J. Ulmanis, E. D. Kuhnle, Yujun Wang, C. H. Greene, and M. Weidemueller, *Phys. Rev. A* 95, 062708-1 to -10 (2017). DOI: 10.1103/PhysRevA.95.062708
310. "Efimov-van der Waals universality for ultracold atoms with positive scattering lengths", P. M.A. Mestrom, Jia Wang, C. H. Greene, and J. P. D'Incao, *Phys. Rev. A* 95, 032707-1 to -7 (2017). DOI: 10.1103/PhysRevA.95.032707
309. "Van der Waals universality in homonuclear atom-dimer elastic collisions", P. Giannakeas and C. H. Greene, *Few-Body Systems* 58, 1-12 (2017). DOI: 10.1007/s00601-016-1179-9
308. "Coupled-square-well model and Fano-phase correspondence", Bin Yan and C. H. Greene, *Phys. Rev. A* 95, 032706-1 to -7 (2017). DOI: 10.1103/PhysRevA.95.032706
307. "Effective control of cold collisions with radio-frequency fields", Yijue Ding, J. P. D'Incao, and C. H. Greene, *Phys. Rev. A* 95, 022709-1 to -5 (2017). DOI: 10.1103/PhysRevA.95.022709
306. "Hyperspherical Slater determinant approach to few-body fractional quantum Hall states", Bin Yan, R. E. Wooten, K. M. Daily, C. H. Greene, *Annals of Physics* 380, 188-205 (2017). DOI: <http://dx.doi.org/10.1016/j.aop.2017.03.004>
305. "Few-body collective excitations beyond Kohn's theorem in quantum Hall systems", R. E. Wooten, B. Yan, and C. H. Greene, *Phys. Rev. B* 95, 035150-1 to -6 (2017). DOI: 10.1103/PhysRevB.95.035150
304. "Heteronuclear Efimov Scenario with positive intraspecies scattering length", J. Ulmanis, S. Haefner, R. Pires, E. D. Kuhnle, Y. Wang, C. H. Greene, and M. Weidemueller, *Phys. Rev. Lett.* 117, 153201-1 to -6 (2016). DOI: 10.1103/PhysRevLett.117.153201
303. "Observation of pendular butterfly Rydberg molecules", T. Niederpruem, O. Thomas, T. Eichert, C. Lippe, J. Perez-Rios, C. H. Greene, and H. Ott, *Nature Commun.* 7, 12820-1 to -6 (2016). DOI: 10.1038/ncomms12820
302. "Spin-orbit-induced resonances and threshold anomalies in a reduced-dimension Fermi gas", Su-Ju Wang and C. H. Greene, *Phys. Rev. A* 94, 053635-1 to -6 (2016). DOI: 10.1103/PhysRevA.94.053635
301. "Effective atom-molecule conversions using radio frequency fields", Yijue Ding, J. Perez-Rios, and C. H. Greene, *ChemPhysChem* 17, 3756-3763 (2016). DOI: 10.1002/cphc.201600646
300. "Generalized local-frame-transformation theory for excited species in external fields", P. Giannakeas, C. H. Greene, and F. Robicheaux, *Phys. Rev. A* 94, 013419-1 to -9 (2016). DOI:

10.1103/PhysRevA.94.013419

299. "Controlling Rydberg atom excitations in dense background gases", T.C. Liebisch, M. Schlagmueller, F. Engel, H. Nguyen, J. Balewski, G. Lochead, F. Boettcher, K. M. Westphal, K. S. Kleinbach, T. Schmid, A. Gaj, R. Loew, S. Hofferberth, T. Pfau, J. Perez-Rios, and C. H. Greene, *J. Phys. B* 49, 182001-1 to -14 (2016). DOI: 10.1088/0953-4075/49/18/182001
298. "Ultracold chemical reactions of a single Rydberg atom in a dense gas", M. Schlagmueller, T. C. Liebisch, F. Engel, K. S. Kleinbach, F. Boettcher, U. Hermann, K. M. Westphal, A. Gaj, R. Loew, S. Hofferberth, T. Pfau, J. Perez-Rios, and C. H. Greene, *Phys. Rev. X* 6, 031020-1 to -14 (2016). DOI: 10.1103/PhysRevX.6.031020
297. "Reactivity in ion-neutral high density media", J. Perez-Rios and C. H. Greene, *EPJ Web of Conferences* 113, 02004-1 to -4 (2016). DOI: 10.1051/epjconf/201611302004
296. "Probing an Electron Scattering Resonance using Rydberg Molecules within a Dense and Ultracold Gas", M. Schlagmueller, T. C. Liebisch, H. Nguyen, G. Lochead, F. Engel, F. Bottcher, K. M. Westphal, K. S. Kleinbach, R. Low, S. Hofferberth, T. Pfau, J. Perez-Rios, and Chris H. Greene, *Phys. Rev. Lett.* 116, 053001-1 to -5 (2016). DOI: 10.1103/PhysRevLett.116.053001
295. "Energy Scaling of Cold Atom-Atom-Ion Three-Body Recombination", A. Krukow, A. Mohammadi, A. Harter, J. H. Denschlag, J. Perez-Rios, and C. H. Greene, *Phys. Rev. Lett.* 116, 193201-1 to -5 (2016). DOI: 10.1103/PhysRevLett.116.193201
294. "Ultracold molecular Rydberg physics in a high density environment", M. T. Eiles, J. Perez-Rios, F. Robicheaux, and C. H. Greene, *J. Phys. B* 49, 114005-1 to -12 (2016). DOI: 10.1088/0953-4075/49/11/114005
293. "Universal few-body physics in resonantly interacting spinor condensates", V. E. Colussi, C. H. Greene, J. P. D'Incao, *J. Phys. B* 49, 064012-1 to -11 (2016). DOI: 10.1088/0953-4075/49/6/064012
292. "Adiabatic Hyperspherical Analysis of Realistic Nuclear Potentials", K. M. Daily, A. Kievsky, and C. H. Greene, *Few-Body Systems* 56, 753-759 (2015). DOI: 10.1007/s00601-015-1012-x
291. "Ultracold Long-Range Rydberg Molecules with Complex Multichannel Spectra", M. T. Eiles and C. H. Greene, *Phys. Rev. Lett.* 115, 193201-1 to -5 (2015). DOI: 10.1103/PhysRevLett.115.193201
290. "Few-body physics of ultracold atoms and molecules with long-range interactions", Y. Wang, P. Julienne, and C. H. Greene, Chapter 2 in *Annual Review of Cold Atoms and Molecules: Volume 3*, Eds: Kirk W Madison, Kai Bongs, Lincoln D Carr, Ana Maria Rey, Hui Zhai (World Scientific, 2015).
289. "Hyperspherical theory of the quantum Hall effect: The role of exceptional degeneracy", K.M. Daily, R.E. Wooten, and Chris H. Greene, *Phys. Rev. B* 92, 125427-1 to -16 (2015). DOI: 10.1103/PhysRevB.92.125427
288. "Schwinger-variational-principle theory of collisions in the presence of multiple potentials", F. Robicheaux, P. Giannakeas, and C. H. Greene, *Phys. Rev. A* 92, 022711-1 to -21 (2015). DOI: 10.1103/PhysRevA.92.022711
287. Comment on "Test of the Stark-effect theory using photoionization microscopy", P. Giannakeas, F. Robicheaux, and C. H. Greene, *Phys. Rev. A* 91, 067401-1 to -4 (2015). DOI: 10.1103/PhysRevA.91.067401
286. "Photoionization microscopy in terms of local-frame-transformation theory", P. Giannakeas, F. Robicheaux, and C. H. Greene, *Phys. Rev. A* 91, 043424-1 to -14 (2015). DOI: 10.1103/PhysRevA.91.043424
285. "Quantum defect theory description of weakly bound levels and Feshbach resonances in LiRb", J. Perez-Rios, S. Dutta, Y. P. Chen, and C. H. Greene, *New J. Phys.* 17, 045021-1 to -9 (2015). DOI: 10.1088/1367-2630/17/4/045021
284. "Two-photon total annihilation of molecular positronium", J. Perez-Rios, S. T. Love, and C. H. Greene, *Europhys. Lett.* 109, 63002-1 to -4 (2015). DOI: 10.1209/0295-5075/109/63002
283. "General formalism for ultracold scattering with isotropic spin-orbit coupling", Su-Ju Wang and C. H. Greene, *Phys. Rev. A* 91, 022706-1 to -10 (2015). DOI: 10.1103/PhysRevA.91.022706
282. "Scattering properties of the  $2e^-2e^+$  polyelectronic system", K. M. Daily, J. von Stecher, and C. H. Greene, *Phys. Rev. A* 91, 012512-1 to -7 (2015). DOI: 10.1103/PhysRevA.91.012512
281. Erratum: "Comparative study of  $He_3$ ,  $Ne_3$ , and  $Ar_3$  using hyperspherical coordinates", *J. Chem. Phys.* 113, 2145 (2000). DOI: 10.1063/1.4892564
280. "Confinement-induced resonances in a cross-dimensional configuration", Chen Zhang and C. H. Greene, *Phys. Rev. A* 90, 063613-1 to -5 (2014). DOI: 10.1103/PhysRevA.90.063613
279. "Three-body physics in strongly correlated spinor condensates", V. E. Colussi, C. H. Greene, and J.

- P. D'Incao, Phys. Rev. Lett. 113, 045302-1 to -6 (2014). DOI: 10.1103/PhysRevLett.113.045302
278. "Analyzing Feshbach resonances: A "Li-<sup>133</sup>Cs case study", R. Pires, M. Repp, J. Ulmanis, E. D. Kuhnle, M. Weidemueller, T. G. Tiecke, C. H. Greene, B. P. Ruzic, J. L. Bohn, and E. Tiemann, Phys. Rev. A 90, 012710-1 to -14 (2014). DOI: 10.1103/PhysRevA.90.012710
277. "Tunable Landau-Zener transitions in a spin-orbit-coupled Bose-Einstein condensate", A. J. Olson, Su-Ju Wang, R. J. Niffenegger, Chuan-Hsun Li, C. H. Greene, and Y. P. Chen, Phys. Rev. A 90, 013616-1 to -7 (2014). DOI: 10.1103/PhysRevA.90.013616
276. "What will it take to observe processes in 'real time'?", S. R. Leone, C. W. McCurdy, J. Burgdörfer, L. S. Cederbaum, Z. Chang, N. Dudovich, J. Feist, C. H. Greene, M. Ivanov, R. Kienberger, U. Keller, M. F. Kling, Zhi-Heng Loh, T. Pfeifer, A. N. Pfeiffer, R. Santra, K. Schafer, A. Stolow, U. Thumm and M. J. J. Vrakking, Nature Photonics 8, 162-166 (2014). DOI: 10.1038/nphoton.2014.48
275. "Quenching to unitarity: Quantum dynamics in a three-dimensional Bose gas", A. G. Sykes, J. P. Corson, J. P. D'Incao, A. P. Koller, C. H. Greene, A. M. Rey, K. R. A. Hazzard, and J. L. Bohn, Phys. Rev. A 89, 021601(R)-1 to -5 (2014). DOI: 10.1103/PhysRevA.89.021601
274. "Extension of the correlated Gaussian hyperspherical method to more particles and dimensions", K. M. Daily and C. H. Greene, Phys. Rev. A 89, 012503-1 to -7 (2014). DOI: 10.1103/PhysRevA.89.012503
273. "Comparison of classical and quantal calculations of helium three-body recombination", J. Perez-Rios, S. Ragole, Jia Wang, and C. H. Greene, J. Chem. Phys. 140, 044307-1 to -12 (2014). DOI: 10.1063/1.4861851
272. "Quasi-one-dimensional scattering with general transverse two-dimensional confinement", Chen Zhang and C. H. Greene, Phys. Rev. A 88, 012715-1 to -9 (2013). DOI: 10.1103/PhysRevA.88.012715
271. "Stochastic and equilibrium pictures of the ultracold Fano-Feshbach-resonance molecular conversion rate", T. Yamakoshi, S. Watanabe, Chen Zhang, and C. H. Greene, Phys. Rev. A 87, 053604-1 to -11 (2013). DOI: 10.1103/PhysRevA.87.053604
270. "The Universality of the Efimov Three-body Parameter", J.P. D'Incao, J. P. Wang, B. D. Esry, and C. H. Greene, Few-Body Systems 54, 1523 to 1527 (2013). DOI: 10.1007/s00601-013-0616-2
269. "Rydberg states of triatomic hydrogen and deuterium", J. Wang and C. H. Greene, J. Phys. Chem. A 117, 9761 to 9765 (2013).
268. "Lorentz meets Fano in spectral line shapes: a universal phase and its laser control", C. Ott, A. Kalduñ, P. Raith, K. Meyer, M. Laux, J. Evers, C. H. Keitel, C. H. Greene, and T. Pfeifer, Science 340, 716-720 (2013).
267. "Resonant five-body recombination in an ultracold gas of bosonic atoms", A. Zenesini, Bo Huang, M. Berninger, S. Besler, H-C Nägerl, F. Ferlaino, R. Grimm, C. H. Greene, and J. von Stecher, New J. Phys. 15, 043040-1 to -13 (2013).
266. "Quantum defect theory for high-partial-wave cold collisions", B. P. Ruzic, C. H. Greene, and J. L. Bohn, Phys. Rev. A 87, 032706-1 to -14 (2013).
265. "Low-energy electron collisions with O<sub>2</sub>: Test of the molecular R-matrix method without diagonalization", M. Tarana and C. H. Greene, Phys. Rev. A 87, 022710-1 to -13 (2013).
264. "Laser-assisted electron-argon scattering at small angles", N. Morrison and C. H. Greene, Phys. Rev. A 86, 053422-1 to -6 (2012).
263. "Estimates of rates for dissociative recombination of NO<sub>2</sub><sup>+</sup> + e<sup>-</sup> via various mechanisms", D. J. Haxton and C. H. Greene, Phys. Rev. A 86, 062712-1 to -5 (2012).
262. "Universal three-body recombination via resonant d-wave interactions", J. Wang, J. P. D'Incao, Y. Wang, and C. H. Greene, Phys. Rev. A 86, 062511-1 to -8 (2012).
261. "Universal three-body parameter in heteronuclear atomic systems", Y. Wang, J. Wang, J. P. D'Incao, and C. H. Greene, Phys. Rev. Lett. 109, 243201-1 to -5 (2012).
260. "Origin of the three-body parameter universality in Efimov physics", J. Wang, J. P. D'Incao, B. D. Esry, and C. H. Greene, Phys. Rev. Lett. 108, 263001-1 to -5 (2012).
259. "Few-body ultracold reactions in a Bose-Fermi mixture", C. Zhang, Javier von Stecher, and C. H. Greene, Phys. Rev. A 85, 043615-1 to -9 (2012).
258. "Universal bound and scattering properties for two dipoles", Y. Wang and C. H. Greene, Phys. Rev. A 85, 022704-1 to -6 (2012).
257. "Femtosecond transparency in the extreme-ultraviolet region", M. Tarana and C. H. Greene, Phys. Rev. A 85, 013411-1 to -11 (2012).
256. "Dissociative recombination of highly symmetric polyatomic ions", N. Douguet, A. E. Orel, C. H. Greene, and V. Kokouline, Phys. Rev. Lett. 108, 023202-1 to -5 (2012).

255. "Numerical study of three-body recombination for systems with many bound states", J. Wang, J. P. D'Incao, and C. H. Greene, Phys. Rev. A 84, 052721-1 to -9 (2011).
254. "Erratum: Ab initio frame transformation calculations of direct and indirect dissociative recombination rates of  $\text{HeH}^+ + \text{e}$ ", D. J. Haxton and C. H. Greene, Phys. Rev. A 84, 039903(E)-1 (2011).
253. "Laser-induced fluorescence studies of  $\text{HfF}^+$  produced by autoionization", H. Loh, J. Wang, M. Grau, T. S. Yahn, R. W. Field, C. H. Greene, and E. A. Cornell, J. Chem. Phys. 135, 154308-1 to -7 (2011).
252. "Universal three-body physics for fermionic dipoles", Y. Wang, J. P. D'Incao, and C. H. Greene, Phys. Rev. Lett. 107, 233201-1 to -5 (2011). (Cover article)
251. "The role of the Jahn-Teller coupling in dissociative recombination of  $\text{H}_3\text{O}^+$  and  $\text{H}_3^+$  ions", N. Douguet, A. Orel, I. Mikhailov, I. F. Schneider, C. H. Greene, and V. Kokouline, J. Phys. Conf. Ser. 300, 012015-1 to -13 (2011).
250. "Efimov effect for three interacting bosonic dipoles", Y. Wang, J. P. D'Incao, and C. H. Greene, Phys. Rev. Lett. 106, 233201-1 to -4 (2011).
249. "Breaking bonds with electrons: Dissociative recombination of molecular ions", V. Kokouline, N. Douguet, C. H. Greene, Chem. Phys. Lett. (Frontiers Article) 507, 1-10 (2011).
248. "Resonant structure of low-energy  $\text{H}_3^+$  dissociative recombination", Annemieke Petignani, Simon Altevogt, Max H. Berg, Dennis Bing, Henrik Buhr, Manfred Grieser, Jens Hoffmann, Brandon Jordon-Thaden, Claude Krantz, Holger Kreckel, Mario B. Mendes, Oldrich Novotny, Steffen Novotny, Dmitry A. Orlov, Roland Repnow, Tobias Sorg, Julia Stuetzel, Andreas Wolf, Viatcheslav Kokouline, and C. H. Greene, Phys. Rev. A 83, 032711 (2011), and online at arXiv:1012.1441.
247. "Collisional Aspects of Bosonic and Fermionic Dipoles in Quasi-Two-Dimensional Confining Geometries", Jose D'Incao, and C. H. Greene, Phys. Rev. A 83, 030702(R)-1 to -4 (2011), and online at arXiv:1011.3469.
246. "The hyperspherical four-body problem", S.T. Rittenhouse, J. von Stecher, J. P. D'Incao, N. P. Mehta, and C. H. Greene, J. Phys. B (Topical Reviews) 44, 172001-1 to -43 (2011), and online at arXiv:1101.0285, 65pp.
245. "Recombination-pumped triatomic hydrogen infrared lasers", R. J. Saykally, E. A. Michael, J. Wang, and C. H. Greene, J. Chem. Phys. 133, 234302-1 to -9 (2010).
244. "Temperature dependence of binary and ternary recombination of  $\text{D}_3^+$  ions with electrons", T. Kotrik, P. Dohnal, I. Korolov, R. Plasil, S. Roucka, J. Glosik, C. H. Greene, and V. Kokouline, J. Chem. Phys. 133, 034305-1 to -8 (2010).
243. "Quantum-defect analysis of 3p and 3d  $\text{H}_3$  Rydberg energy levels", Jia Wang and C. H. Greene, Phys. Rev. A 82, 022506-1 to -8 (2010).
242. "Green's functions and the adiabatic hyperspherical method", S.T. Rittenhouse, N. P. Mehta, and C. H. Greene, Phys. Rev. A 82, 022706-1 to -12 (2010).
241. "Calculation of rate constants for vibrational and rotational excitation of the  $\text{H}_3^+$  ion by electron impact", V. Kokouline, A. Faure, J. Tennyson, and C. H. Greene, Mon. Not. R. Astron. Soc. 405, 1195-1202 (2010), and online at arXiv:1001.3379.
240. "Universal insights from few-body land", C. H. Greene, Physics Today (cover article) pp.40-45, March issue (2010).
239. "Theory of dissociative recombination of a linear triatomic ion with permanent electric dipole moment: Study of  $\text{HCO}^+$ ", N. Douguet, V. Kokouline, and C. H. Greene, Phys. Rev. A 80, 062712-1 to -6 (2009).
238. "The little molecule that could", C. H. Greene, Nature (News & Views) 458, 975-976 (2009).
237. "Vibrational interference of Raman and high harmonic generation pathways", Z. B. Walters, S. Tonzani, and C. H. Greene, Chem. Phys. 366, 103-114 (2009).
236. "General theoretical description of N-body recombination", N. P. Mehta, S. T. Rittenhouse, J. P. D'Incao, J. von Stecher, and C. H. Greene, Phys. Rev. Lett. 103, 153201-1 to -4 (2009).
235. "One- and two-photon ionization cross sections of the laser-excited  $6s6p\ ^1\text{P}_1$  state of barium", J. R. Tolksma, D. J. Haxton, C. H. Greene, R. Yamazaki, and D. S. Elliott, Phys. Rev. A 80, 033401-1 to -9 (2009).
234. "Theoretical study of the quenching of NH (singlet Delta) molecules via collisions with Rb atoms", D. J. Haxton, S. A. Wrathmall, H. J. Lewandowski, and C. H. Greene, Phys. Rev. A 80, 022708-1 to -10 (2009).
233. "Correlated Gaussian hyperspherical method for few-body systems", J. von Stecher and C. H. Greene, Phys. Rev. A 80, 022504-1 to -12 (2009).

232. "Universal four-boson states in ultracold molecular gases: Resonant effects in dimer-dimer collisions", J. P. D'Incao, J. von Stecher, and C. H. Greene, Phys. Rev. Lett. 103, 033004-1 to -4 (2009).
231. "Dimer-dimer collisions at finite energies in two-component Fermi gases", J. P. D'Incao, S. T. Rittenhouse, N. P. Mehta, and C. H. Greene, Phys. Rev. A 79, 030501(R)-1 to -4 (2009).
230. "Low-energy electron scattering from DNA including structural water and base-pair irregularities", L. Caron, L. Sanche, S. Tonzani, and C. H. Greene, Phys. Rev. A 80, 012705-1 to -6 (2009).
229. "Signatures of universal four-body phenomena and their relation to the Efimov effect", J. von Stecher, J. P. D'Incao, and C. H. Greene, Nature Physics 5, 417-421 (2009); and also online at arXiv:0810.3876.
228. "Use of partial-wave decomposition to identify resonant interference effects in the photoionization-excitation of argon", T. J. Gay, C. H. Greene, J. R. Machacek, K. W. McLaughlin, H. W. van der Hart, O. Yenen, and D. H. Jaecks, J. Phys. B 42, 044008-1 to -17 (2009).
227. "The short-range three-body phase and other issues impacting the observation of Efimov physics in ultracold quantum gases", J. P. D'Incao, C. H. Greene, and B. D. Esry, J. Phys. B 42, 044016-1 to -8 (2009).
226. "*Ab initio* frame-transformation calculations of direct and indirect dissociative recombination rates of  $\text{HeH}^+ + \text{e}^-$ ", D. J. Haxton and C. H. Greene, Phys. Rev. A 79, 022701-1 to -7 (2009).
225. "Rotational excitation of interstellar molecular ions by electrons", A. Faure, J. Tennyson, V. Kokouline, and C. H. Greene, J. Phys. Conf. Ser. 192, 012016-1 to -6 (2009).
224. "Non-adiabatic effects in dissociative recombination of molecular ions", V. Kokouline, R. Curik, and C. H. Greene, J. Phys. Conf. Ser. 192, 012017-1 to -13 (2009).
223. "Indirect dissociative recombination of  $\text{LiH}_2^+ + \text{e}^-$ ", D. J. Haxton and C. H. Greene, Phys. Rev. A 78, 052704-1 to -10 (2008).
222. "Chemical modeling of L183 (=L134N): an estimate of the ortho/para  $\text{H}_2$  ratio", L. Pagani, C. Vastel, E. Hugo, V. Kokouline, C. H. Greene, A. Bacmann, E. Bayet, C. Ceccarelli, R. Peng, and S. Schlemmer, Astron. Astrophys. 494, 623-636 (2009); and online at arXiv:0810.1861.
221. "Efimov states embedded in the three-body continuum", N. P. Mehta, S. T. Rittenhouse, J. P. D'Incao, and C. H. Greene, Phys. Rev. A 78, 020701(R)-1 to -4 (2008).
215. "The degenerate Fermi gas with density-dependent interactions in the large-N limit under the K-harmonic approximation", S. T. Rittenhouse and C. H. Greene, J. Phys. B 41, 205302-1 to -10 (2008).
220. "Ultracold atom-molecule collisions with fermionic atoms", J. P. D'Incao, B.D. Esry, and C. H. Greene, Phys. Rev. A 77, 052709-1 to -6 (2008).
219. "Limits of the plane wave approximation in the measurement of molecular properties", Z.B. Walters, S. Tonzani, and C. H. Greene, J. Phys. Chem. A 112, 9439-9447 (2008).
218. "Ultracold atom-molecule collisions with fermionic atoms", J. P. D'Incao, B.D. Esry, and C. H. Greene, Phys. Rev. A 77, 052709-1 to -6 (2008).
217. "Theoretical rate of dissociative recombination of  $\text{HCO}^+$  and  $\text{DCO}^+$  ions", N. Douguet, V. Kokouline, and C. H. Greene, Phys. Rev. A 77, 064703-1 to -4 (2008).
216. "Energetics and structural properties of trapped two-component Fermi gases", J. von Stecher, C. H. Greene, and D. Blume, Phys. Rev. A 77, 043619-1 to -20 (2008).
215. "Stability of inhomogeneous multicomponent Fermi gases", D. Blume, S. T. Rittenhouse, J. von Stecher, and C. H. Greene, Phys. Rev. A 77, 033627-1 to -13 (2008).
214. "Femtosecond-induced transparency and absorption in the extreme ultraviolet by coherent coupling of the He  $2s2p\ 1\text{P}^0$  and  $2p^2\ 1\text{S}^0$  double excitation states with 800 nm light", Z-H Loh, C. H. Greene, and S. R. Leone, Chem. Phys. 350, 7-13 (2008); also arXiv:0711.1367.
213. "Recombination of ions in the afterglow of a He-Ar- $\text{H}_2$  plasma", J. Glosik, I. Korolov, R. Plasil, O. Novotny, T. Kotrik, P. Hlavenka, J. Varju, I. A. Mikhailov, V. Kokouline, and C. H. Greene, J. Phys. B 41, 191001-1 to -6 (2008); also arXiv:0710.2339v1.
212. "Diffraction in low-energy electron scattering from DNA: Bridging gas-phase and solid-state theory", L. Caron, L. Sanche, S. Tonzani, and C. H. Greene, Phys. Rev. A 78, 042710-1 to -13 (2008).
211. "Rates for dissociative recombination of  $\text{LiH}^+$  ions", R. Curik and C. H. Greene, J. Phys.: Conf. Ser. 115, 012016 (2008).
210. "High harmonic generation in  $\text{SF}_6$ : Raman-excited vibrational quantum beats", Z. B. Walters, S. Tonzani, and C. H. Greene, J. Phys. B 40, F277-F283 (2007).
209. "Coherent quantum engineering of free-space laser cooling", J. W. Dunn, J. W. Thomsen, C. H.

- Greene, and F. C. Cruz, Phys. Rev. A 76, 011401(R)-1 to -4 (2007).
208. "Three-body recombination in one dimension", N. P. Mehta, B. D. Esry, and C. H. Greene, Phys. Rev. A 76, 022711-1 to -15 (2007).
207. "Universal properties of a trapped two-component Fermi gas at unitarity", D. Blume, J. von Stecher and C. H. Greene, Phys. Rev. Lett. 99, 233201-1 to -4 (2007).
206. "Spectrum and dynamics of the BCS-BEC crossover from a few-body perspective", J. von Stecher and C. H. Greene, Phys. Rev. Lett. 99, 090402-1 to -4 (2007).
205. "BEC-BCS crossover of a trapped two-component Fermi gas with unequal masses", J. von Stecher, C. H. Greene, and D. Blume, Phys. Rev. A 76, 053613-1 to -10 (2007).
204. "Dissociative recombination of  $H_3^+$  in the ground and excited vibrational states", S. Fonseca dos Santos, V. Kokouline, and C. H. Greene, J. Chem. Phys. 127, 124309-1 to -8 (2007).
203. "Vibrational excitation and dissociative recombination of the  $LiH^+$  ion", R. Curik and C. H. Greene, Molec. Phys. 105, 1565-1574 (2007).
202. "Indirect dissociative recombination of  $LiH^+$  molecules fueled by complex resonance manifolds", R. Curik and C. H. Greene, Phys. Rev. Lett. 98, 173201-1 to -4 (2007).
201. "Renormalized mean-field theory for a two-component Fermi gas with s-wave interactions", J. von Stecher and C. H. Greene, Phys. Rev. A 75, 022716-1 to -10 (2007).
200. "Experimental verification of minima in excited long-range Rydberg states of  $Rb_2$ ", C. H. Greene, E. L. Hamilton, H. Crowell, C. Vadla, and K. Niemax, Phys. Rev. Lett. 97, 233002-1 to -4 (2006).
199. "Hyperspherical description of the degenerate Fermi gas: s-wave interactions", S. T. Rittenhouse, M. J. Cavagnero, J. von Stecher, and C. H. Greene, Phys. Rev. A 74, 053624-1 to -14 (2006).
198. "Interaction of intense VUV radiation with large xenon clusters", Z. B. Walters, R. Santra, and C. H. Greene, Phys. Rev. A 74, 043204-1 to -14 (2006).
197. "Near-threshold rotational excitation of molecular ions by electron impact", A. Faure, V. Kokouline, C. H. Greene, and J. Tennyson, J. Phys. B 39, 4261-4273 (2006).
196. "Theoretical progress and challenges in  $H_3^+$  dissociative recombination", C. H. Greene and V. Kokouline, Phil. Trans. Roy. Soc. A 364, 2965-2980 (2006).
195. "Renner-Teller effects in  $HCO^+$  dissociative recombination", I. A. Mikhailov, V. Kokouline, A. Larson, S. Tonzani, and C. H. Greene, Phys. Rev. A 74, 032707-1 to -9 (2006).
194. "A menage a trois laid bare", B. D. Esry and C. H. Greene, Nature 440, 289-290 (2006).
193. "Radiation damage to DNA: Electron scattering from the backbone subunits", S. Tonzani and C. H. Greene, J. Chem. Phys. 125, 094504-1 to -7 (2006).
192. "Predictions of laser-cooling temperatures for multilevel atoms in three-dimensional polarization-gradient fields", J. W. Dunn and C. H. Greene, Phys. Rev. A 73, 163603-1 to -9 (2006).
191. "A hyperspherical variational approach to the N-fermion problem", S. Rittenhouse, M. J. Cavagnero, J. von Stecher, and C. H. Greene, Few-Body Systems 38, 85-90 (2006).
190. "Low-energy electron scattering from DNA and RNA bases: Shape resonances and radiation damage", S. Tonzani and C. H. Greene, J. Chem. Phys. 124, 054312-1 to -11 (2006).
189. "Theoretical study of dissociative recombination of C2v triatomic ions: Application to  $H_2D^+$  and  $D_2H^+$ ", V. Kokouline and C. H. Greene, Phys. Rev. A 72, 022712-1 to -12 (2005).
188. "Comment on 'Fano line shapes reconsidered: Symmetric photoionization peaks from pure continuum excitation'", J. W. Cooper, C. H. Greene, P. W. Langhoff, A. F. Starace, C. Winstead, Phys. Rev. Lett. 94, 229301 -1 (2005).
187. "High-accuracy optical clock via three-level coherence in neutral bosonic  $^{88}Sr$ ", R. Santra, E. Arimondo, T. Ido, C. H. Greene, and J. Ye, Phys. Rev. Lett. 94, 173002 -1 to -4 (2005).
186. "Siegert pseudostates: Completeness and time evolution", R. Santra, J. M. Shainline, and C. H. Greene, Phys. Rev. A 71, 032703 -1 to -12 (2005).
185. "Electron-molecule scattering calculations in a 3D finite element R-matrix approach", S. Tonzani and C. H. Greene, J. Chem. Phys. 122, 014111 -1 to -8 (2005).
184. "Feshbach resonance cooling of trapped atom pairs", J. W. Dunn, D. Blume, B. Borca, B. E. Granger, and C. H. Greene, Phys. Rev. A 71, 033402 -1 to -4 (2005).
183. "Dissociative recombination of  $HCO^+$ ", A. Larson, S. Tonzani, R. Santra, and C. H. Greene, J. Phys: Conf. Ser. 4, 74-82 (2005).

182. "Theoretical study of the  $H_3^+$  dissociative recombination process", V. Kokouoline and C. H. Greene, J. Phys: Conf. Ser. 4, 148-154 (2005).
181. "Dissociative recombination of polyatomic molecules: A new mechanism", C. H. Greene and V. Kokouoline, Phys. Scr. T110, 178-182 (2004).
180. "Multiphoton ionization of xenon in the vuv regime", R. Santra and C. H. Greene, Phys. Rev. A 70, 053401 -1 to -8 (2004).
179. "Triatomic dissociative recombination theory: Jahn-Teller coupling among infinitely many Born-Oppenheimer surfaces", V. Kokouoline and C. H. Greene, Faraday Discussions A 127, 413-423 (2004).
178. "A revised formula for 3-body recombination that cannot exceed the unitarity limit", C. H. Greene, B. D. Esry, and H. Suno, Nucl. Phys. A 737, 119-124 (2004).
177. "Properties of metastable alkaline-earth-metal atoms calculated using an accurate effective core potential", R. Santra, K. V. Christ, and C. H. Greene, Phys. Rev. A 69, 042510 -1 to -10 (2004).
176. "Photofragmentation of the  $H_3$  molecule, including Jahn-Teller coupling effects", V. Kokouoline and C. H. Greene, Phys. Rev. A 69, 032711 -1 to -16 (2004).
175. "Comment on 'Nonclassical paths in the recurrence spectrum of diamagnetic atoms' - Reply", B. E. Granger and C. H. Greene, Phys. Rev. Lett. 91, 269302 -1 (2003).
174. "Xenon clusters in intense VUV laser fields", R. Santra and C. H. Greene, Phys. Rev. Lett. 91, 233401 -1 to -4 (2003).
173. "A two-atom picture of coherent atom-molecule quantum beats", B. Borca, D. Blume, and C. H. Greene, New J. Phys. 5, 111 -1 to -14 (2003).
172. "Atom-molecule laser fed by stimulated three-body recombination", B. Borca, J. W. Dunn, V. Kokouoline, and C. H. Greene, Phys. Rev. Lett. 91, 070404 -1 to -4 (2003).
171. "Single-stage sub-Doppler cooling of alkaline earth atoms", X. Xu, T. H. Loftus, J. W. Dunn, C. H. Greene, J. L. Hall, A. Gallagher, and J. Ye, Phys. Rev. Lett. 90, 193002 -1 to -4 (2003).
170. "Theory of dissociative recombination of D3h triatomic ions applied to  $H_3^+$ ", V. Kokouoline and C. H. Greene, Phys. Rev. Lett. 90, 133201 -1 to -4 (2003).
169. "Unified theoretical treatment of dissociative recombination of D3h triatomic ions: Application to  $H_3^+$  and  $D_3^+$ ", V. Kokouoline and C. H. Greene, Phys. Rev. A 68, 012703 -1 to -23 (2003).
168. "Multichannel cold collisions between metastable Sr atoms", V. Kokouoline, R. Santra, and C. H. Greene, Phys. Rev. Lett. 90, 253201 -1 to -4 (2003).
167. "Tensorial analysis of the long-range interaction between metastable alkaline-earth atoms", R. Santra and C. H. Greene, Phys. Rev. A 67, 062713 -1 to -15 (2003).
166. "Three-body recombination of cold fermionic atoms", H. Suno, B. D. Esry, and C. H. Greene, New J. Phys. 5, 53-1 to -18 (2003).
165. "Recombination of three ultracold fermionic atoms", H. Suno, B. D. Esry, and C. H. Greene, Phys. Rev. Lett. 90, 053201 -1 to -4 (2003).
164. "Nonclassical paths in the recurrence spectrum of diamagnetic atoms", B. E. Granger and C. H. Greene, Phys. Rev. Lett. 90, 043002 -1 to -4 (2003).
163. "Competition among molecular fragmentation channels described with Siegert channel pseudostates", E. L. Hamilton and C. H. Greene, Phys. Rev. Lett. 89, 26303 -1 to -4 (2002).
162. "Formation of atomic tritium clusters and Bose-Einstein condensates", D. Blume, B. D. Esry, C. H. Greene, N. N. Klausen, and G. J. Hanna, Phys. Rev. Lett. 89, 163402 -1 to -4 (2002).
161. "Regularities and irregularities in partial photoionization cross sections of He", H. W. van der Hart and C. H. Greene, Phys. Rev. A 66, 022710-1 to -8 (2002).
160. "Three particles in an external trap: Nature of the complete  $J=0$  spectrum", D. Blume and C. H. Greene, Phys. Rev. A 65, 013601-1 to -8 (2002).
159. "Excitation of the 3p(4)(4s,3d,4p) Ar+ states during Ar photoionization: Intensity, alignment, and orientation", H. W. van der Hart and C. H. Greene, Phys. Rev. A 65, 062509-1 to -13 (2002).
158. "Shape-resonance-induced long-range molecular Rydberg states", E. L. Hamilton, C. H. Greene, and H. Sadeghpour, J. Phys. B 35, L199-L206 (2002).
157. "Three-body recombination of cold helium atoms", H. Suno, B. D. Esry, and C. H. Greene, Phys. Rev. A 65, 010705(R)-1 to -4 (2002).
156. "Fermi pseudopotential approximation: Two particles under external confinement", D. Blume and C. H. Greene, Phys. Rev. A 65, 042725-1 to -7 (2002).
155. "Lowest breathing mode of bosonic helium clusters", D. Blume and C. H. Greene, Eur. Phys. J D 18, 83-86 (2002).

154. "Threshold laws for three-body recombination", B. D. Esry, C. H. Greene, and H. Suno, Phys. Rev. A 65, 010705(R)-1 to -4 (2002).
153. "Phase modulation of ultrashort light pulses using molecular rotational wavepackets", R. A. Bartels, T. C. Weinacht, N. Wagner, M. Baertschy, C. H. Greene, M. M. Murnane, and H. C. Kapteyn, Phys. Rev. Lett. 88, 013903-1 to -4 (2002).
152. "Nature of spinor Bose-Einstein condensates in rubidium", N. N. Klausen, J. L. Bohn, and C. H. Greene, Phys. Rev. A 64, 053602-1 to -5 (2001).
151. "Quantum and semiclassical analysis of long-range Rydberg molecules", B. E. Granger, E. L. Hamilton, and C. H. Greene, Phys. Rev. A 64, 042508-1 to -9 (2001).
150. "Mechanism for the destruction of  $H_3^+$  ions by electron impact", V. Kokouline, C. H. Greene, and B. D. Esry, Nature 412, 891-894 (2001).
149. "Quantum corrections to the ground-state energy of a trapped Bose-Einstein condensate: A diffusion Monte Carlo calculation", D. Blume and C. H. Greene, Phys. Rev. A 63, 062601-1 to -6 (2001).
148. "Comment on 'Efimov states for  $He_4$  trimers?", B. D. Esry, C. D. Lin, C. H. Greene, and D. Blume, Phys. Rev. Lett. 86, 4189-4189 (2001).
147. "Calculation of a preconvolved HD photoionization spectrum using the rovibrational frame transformation", E. L. Hamilton, C. H. Greene, and J. A. Stephens, Phys. Essays 13, 265-271 (2000).
146. "Ground-state scattering lengths for potassium isotopes determined by double-resonance photoassociative spectroscopy of ultracold  $^{39}K$ ", H. Wang, A. N. Nikolov, J. R. Ensher, P. L. Gould, E. E. Eyler, W. C. Stwalley, J. P. Burke, Jr., J. L. Bohn, and C. H. Greene, E. Tiesinga, C. J. Williams, and P. S. Julienne, Phys. Rev. A 62, 052704-1 to -4 (2000).
145. "Resonant ion-pair formation in electron collisions with  $HD^+$  and  $OH^+$ ", A. Larson, N. Djuric, W. Zong, C. H. Greene, A. E. Orel, A. Al-Khalili, A. M. Derkatch, A. Le Padellec, A. Neau, S. Rosen, W. Shi, L. Vikor, H. Danared, M. af Ugglas, M. Larsson, and G. H. Dunn, Phys. Rev. A 62, 042707-1 to -8 (2000).
144. "Vibrationally excited states and fragmentation geometries of  $Ne_N$  and  $Ar_N$  clusters, N=3-6, using hyperspherical coordinates", D. Blume and C. H. Greene, J. Chem. Phys. 113, 4242-4249 (2000).
143. "Comparative study of  $He_3$ ,  $Ne_3$ , and  $Ar_3$  using hyperspherical coordinates", D. Blume, C. H. Greene, and B. D. Esry, J. Chem. Phys. 113, 2145-2158 (2000).
142. "Creation of polar and nonpolar ultra-long-range Rydberg molecules", C. H. Greene, A. S. Dickinson, and H. R. Sadeghpour, Phys. Rev. Lett. 85, 2458-2461 (2000).
141. "Collision cross sections for argon atoms with argon atoms for energies from 0.01 eV to 10 keV", A. V. Phelps, C. H. Greene, and J. P. Burke, Jr., J. Phys. B: At. Mol. Opt. Phys. 33, 2965-2981 (2000).
140. "Extending closed-orbit theory using quantum defect ideas: Basic concepts and derivations", B. E. Granger and C. H. Greene, Phys. Rev. A 62, 012511-1 to -17 (2000).
139. "Monte Carlo hyperspherical description of helium cluster excited states", D. Blume and C. H. Greene, J. Chem. Phys. 112, 8053-8067 (2000).
138. "Determination of 39K scattering lengths using photoassociation spectroscopy of the Og- state," J. P. Burke, Jr., C. H. Greene and Bohn, Phys. Rev. A 60, 4417-4426 (1999).
137. "Resonant Ion Pair Formation in Electron Collisions with Ground State Molecular Ions," W. Zong, G. H. Dunn, N. Djuric, M. Larsson, C. H. Greene, A. Al-Khalili, A. Neau, A. M. Derkatch, L. Vikor, W. Shi, A. Le Padellec, S. Rosen, H. Danared and M. af Ugglas, Phys. Rev. Lett. 83, 951-954 (1999)
136. "Spin-orbit effects on photoionization-produced alignment of the  $Ar+$   $3p^4$  ( $^3P$ ) 4p levels," H. W. van der Hart and C. H. Greene, J. Phys. B: At. Mol. Opt. Phys. 32, 4029-4037 (1999).
135. "Recombination of Three Atoms in the Ultracold Limit," B. D. Esry, C. H. Greene and J. P. Burke, Jr., Phys. Rev. Lett., 83, 1751-1754 (1999).
134. "Validity of the shape-independent approximation for Bose-Einstein condensates," B. D. Esry and C. H. Greene, Phys. Rev. A 60, 1451-1462 (1999)..
133. "Double and triple photoionization of two-and-three-electron atoms," H. W. van der Hart and C. H. Greene, in Proceedings of International Workshop on Atomic and Molecular Physics Using High-Brilliance Synchrotron Radiation Sources.
132. "Adventures of a Rydberg electron in an anisotropic world," W. Clark and C. H. Greene, Rev. Mod. Phys. 71, 821-833 (1999). DOI: 10.1103/RevModPhys.71.821
131. "Collisional properties of ultracold potassium: Consequences for degenerate Fermi gases," J. L. Bohn, J. P. Burke, Jr., C. H. Greene, H. Wang, P. L. Gould and W. C. Stwalley, Phys. Rev. A 59, 3660-

3664 (1999).

130. "Spontaneous spatial symmetry breaking into two-component Bose-Einstein condensates," B. D. Esry and C. H. Greene, Phys. Rev. A 59, 1457-1460 (1999).
129. "Resonant magnetic field control of elastic scattering in cold  $^{85}\text{Rb}$ ," J. L. Roberts, N. R. Claussen, J. P. Burke, Jr., C. H. Greene, E. A. Cornell and C. E. Wieman, Phys. Rev. Lett. 81, 5109-5112 (1998).
128. "Nonadiabatic dipole polarizabilities of  $\text{H}_2^+$  and  $\text{D}_2^+$  ground states," J. Shertzer and C. H. Greene, Phys. Rev. A 58, 1082-1086 (1998).
127. "Multichannel photoionization spectroscopy of Ar: Total cross section and threshold photoelectrons," H. W. van der Hart and C. H. Greene, Phys. Rev. A 58, 2097-2105 (1998).
126. "Double and triple photoionization of ground-state lithium," H. W. van der Hart and C. H. Greene, Phys. Rev. Lett. 81, 4333-4336 (1998).
125. "Multichannel cold collisions: Simple dependences on energy and magnetic field," J. P. Burke, C. H. Greene and J. L. Bohn, Phys. Rev. Lett. 81, 3355-3358 (1998).
124. "Superfluids mixing it up," B. D. Esry and C. H. Greene, Nature 392, 434-435 (1998).
123. "Effective potentials for dilute Bose-Einstein condensates," J.L. Bohn, B.D. Esry and C.H. Greene, Phys. Rev. A 58, 584-597 (1998).
122. "Double photoionization and ionization of the metastable helium S-states," H.W. van der Hart, K. W. Meyer and C.H. Greene, Phys. Rev. A 57, 3641-3645 (1998).
121. "Low-lying excitations of double Bose-Einstein condensates," B.D. Esry and C.H. Greene, Phys. Rev. A 57, 1265-1271 (1998).
120. "Prospects for mixed-isotope Bose-Einstein condensates in rubidium," J.P. Burke, Jr., J.L. Bohn, B.D. Esry and C.H. Greene, Phys. Rev. Lett. 80, 2097-2100 (1998).
119. "Dominance of short-range correlations in photoejection-induced excitation processes," K.W. Meyer, J.L. Bohn, C.H. Greene and B.D. Esry, J. Phys. B: At. Mol. Opt. Phys. 30, L641-647 (1997)
118. "Rydberg states of triatomic hydrogen," C.H. Greene and J.A. Stephens, Phil. Trans. R. Soc. Lond. A, 355, 1609-1621 (1997)
117. "Two-electron photoejection of He and  $\text{H}^-$ ," K.W. Meyer, C.H. Greene and B.D. Esry, Phys. Rev. Lett. 78, 4902-4905 (1997).
116. "One-dimensional model for coherent control," S.B. Staley and C.H. Greene, Phys. Rev. A 56, 2132-2141 (1997)
115. "Theoretical investigation of barium-noble-gas collisions. II. The excitation transfer cross sections," J. Brust and C.H. Greene, Phys. Rev. A 56, 2013-2019 (1997)
114. "Theoretical investigation of barium helium collisions. I. The adiabatic potential curves," J. Brust and C.H. Greene, Phys. Rev. A 56, 2005-2012 (1997).
113. "Impact of the  $^{87}\text{Rb}$  Singlet scattering length on suppressing inelastic collisions," J.P. Burke, Jr., J.L. Bohn, B.D. Esry, and C.H. Greene, Phys. Rev. A 55, R2511-R2514 (1997).
112. "Anisotropic interactions in autoionizing Rydberg systems," W. Clark and C.H. Greene, Phys. Rev. A 56, 403-414 (1997).
111. "A classical examination of the Stark effect in hydrogen," A. Hooker, C.H. Greene and W. Clark, Phys. Rev. A 55, 4609-4612 (1997)
110. "Hartree-Fock approximation for double condensates," B. D. Esry, C. H. Greene, J. P. Burke, Jr. and J. L. Bohn, Phys. Rev. Lett. 78, 3594-3597 (1997).
109. "Multichannel Rydberg spectroscopy of complex atoms," M. Aymar, C. H. Greene and E. Luc-Koenig, Rev. Mod. Phys. 68, 1015-1123 (1996).
108. "Double photoionization of helium," K. W. Meyer, C. H. Greene and B. D. Esry, in Applications of Accelerators in Research and Industry 1996 (in press).
107. "High-resolution experimental and theoretical study of singly and doubly excited resonances in ground-state photoionization of neon," K. Schulz, M. Domke, R. Puttner, A. Gutierrez, G. Kaindl, G. Miecznik and C. H. Greene, Phys. Rev. A. 54, 3095-3112 (1996).
106. "Multichannel spectrum of neutral particles trapped by a wire," J. P. Burke, Jr., C. H. Greene and B. D. Esry, Phys. Rev. A 105, 3225-3234 (1996).
105. "A study of the charge density in ionic molecules containing F(-)," G. Miecznik and C. H. Greene, Chem. Phys. Lett. 258, 607-612 (1996).
104. "Adiabatic hyperspherical study of the helium trimer," B. D. Esry, C. D. Lin and C. H. Greene, Phys. Rev. A 54, 394-401 (1996).

103. "Resonant formation of  $\text{Ca}^+$  from the  $\text{Ca}^*$  ( $4s25d^1D_2$ ) level explained by autoionization through the  $3d_{3/2}9f_{5/2}$ ,  $JP=2^-$  resonance," H. Q. Lorenzen, H. V. Parks, E. M. Spain, J. E. Smedley, C. H. Greene and S. R. Leone, Phys. Rev. A 54, 1577-1585 (1996).
102. "Photodetachment of  $\text{Li}^-$  from the  $\text{Li} 3s$  threshold to the  $\text{Li} 6s$  threshold," C. Pan, A. F. Starace and C. H. Greene, Phys. Rev. A 53, 840-852 (1996).
101. "Anisotropic interaction potential between a Rydberg electron and an open shell ion," W. Clark, C. H. Greene and G. Miecznik, Phys. Rev. A 53, 2248-2261 (1996).
100. "Calculation of near-threshold O-photodetachment, including fine-structure effects," G. Miecznik and C. H. Greene, Phys. Rev. A 53, 3247-3252 (1996).
99. "Photoabsorption and photoionization of titanium from excited states," G. Miecznik and C. H. Greene, J. Opt. Soc. Am. B 13, 244-256 (1996).
98. "Role of the scattering length in Bose-Einstein condensation," B. D. Esry, C. H. Greene, Y. Zhou and C. D. Lin, J. Phys. B 29, L51-L57 (1996).
97. "Signatures of strong correlations in photoionization," in The Physics of Electronic and Atomic Collisions, XIX International Conference (L. J. Dube, Ed., AIP Conf. Proc. 360, 1995), C. H. Greene, pp. 127-137.
96. "Competing dissociation and preionization in the photoabsorption of  $\text{H}_2$  above the ionization threshold," J. A. Stephens and C. H. Greene, J. Chem. Phys. 103, 5470-5475 (1995).
95. "Simplified model of electron scattering using R-matrix methods," K. W. Meyer, C. H. Greene and I. Bray, Phys. Rev. A 52, 1334-1343 (1995).
94. "Doubly-excited states in the spectrum of molecular hydrogen," C. H. Greene and B. Yoo, J. Phys. Chem. 99, 1711-1718 (1995).
93. "Rydberg state dynamics of rotating, vibrating  $\text{H}_3$  and the Jahn-Teller effect," J. A. Stephens and C. H. Greene, J. Chem. Phys. 102, 1579-1590 (1995).
92. "Spin-orbit effects in aluminum photoionization," G. Miecznik, C. H. Greene and F. Robicheaux, Phys. Rev. A 51, 513-527 (1995).
91. "Evolution of barium autoionizing Stark spectra with energy and field," D. J. Armstrong and C. H. Greene, Phys. Rev. A 50, 4956-4974 (1994).
90. "Double photoionization of helium using R-matrix methods," K. W. Meyer and C. H. Greene, Phys. Rev. A 50, R3573-3576 (1994).
89. "Parallels between high doubly excited state spectra in  $\text{H}^-$  and  $\text{Li}^-$  photodetachment," C. Pan, A. F. Starace and C. H. Greene, J. Phys. B 27, L137-142 (1994).
88. "Vibrational autoionization in  $\text{H}_2$  above the  $v^+ = 3$  ionization limit," J. A. Stephens and C. H. Greene, J. Chem. Phys. 100, 7135-7143 (1994).
87. "Quantum defect description of  $\text{H}_3$  Rydberg state dynamics," J. A. Stephens and C. H. Greene, Phys. Rev. Lett. 72, 1624-1627 (1994).
86. "Asymmetric two-electron excitations in atomic strontium and barium," R. P. Wood and C. H. Greene, Phys. Rev. A 49, 1029-1040 (1994).
85. "Simplest doubly charged negative ion: Nonexistence of  $\text{H}^{2-}$  resonances," F. Robicheaux, R. P. Wood and C. H. Greene, Phys. Rev. A 49, 1866-1874 (1994).
84. "Photoionization of the scandium atom. II. Classifications," F. Robicheaux and C. H. Greene, Phys. Rev. A 48, 4441-4449 (1993).
83. "Photoionization of the scandium atom. I. General features," F. Robicheaux and C. H. Greene, Phys. Rev. A 48, 4429-4440 (1993).
82. "Comment on 'Measurement of the ratio of double-to-single photoionization of helium at 2.8 keV using synchrotron radiation'," J. A. R. Samson, C. H. Greene and R. J. Bartlett, Phys. Rev. Lett. 71, 201 (1993).
81. "Predissociation of  $\text{H}_2$  in the  $3\text{ppD } ^1\text{P}_{\text{u}}^+$  state," H. Gao, Ch. Junge and C. H. Greene, Phys. Rev. A 47, 4877-4884 (1993).
80. "Electric field effects on barium autoionizing spectra," D. J. Armstrong, C. H. Greene, R. P. Wood and J. Cooper, Phys. Rev. Lett. 70, 2379-2382 (1993).
79. "Valence shell photoabsorption spectra of C, Si, Ge, and Sn," R. Robicheaux and C. H. Greene, Phys. Rev. A 47, 4908-4919 (1993).

78. "Short-range correlation and relaxation effects on the  $(6p^2) \ ^1S_0$  autoionizing state of atomic barium," K. Bartschat and C. H. Greene, *J. Phys. B: Atom. Molec. Opt. Phys.* 26, L109-116 (1993).
77. "Photoionization of the  $5d6p \ ^3D_1$  state of barium," D. J. Armstrong, R. P. Wood and C. H. Greene, *Phys. Rev. A* 47, 1981-1988 (1993).
76. "Theoretical description of high-lying two-electron states," C. H. Greene, M. Cavagnero and H. R. Sadeghpour, in Atomic Physics 13 (H. Walther, T. W. Hansch and B. Neizert, Eds., Am. Inst. of Phys. Conf. Proc. 275, 1993), pp. 401-414.
75. "Present trends in the theory of atomic photoionization," C. H. Greene and F. Robicheaux, Vacuum Ultraviolet Radiation Physics, Proceedings of the 10th VUV Conference (F. J. Wuilleumier, Y. Petroff and I Nenner, Eds., World Scientific, 1993), pp. 125-134.
74. "Partial and differential photoionization cross sections of Cl and Br," F. Robicheaux and C. H. Greene, *Phys. Rev. A* 47, 1066-1074 (1993).
73. "Photoionization of the barium  $6s6p \ ^1P_1^0$  state: Comparison of theory and experiment including hyperfine depolarization effects," R. P. Wood, C. H. Greene and D. Armstrong, *Phys. Rev. A* 47, 229-235 (1993).
72. "Interference of one- and two-photon processes in the ionization of atoms and molecules," D. Z. Anderson, N. B. Baranova, C. Greene and B. Ya. Zel'dovich, *Zh. Eksp. Teor. Fiz.* 102, 397-405 (1992); transl. Sov. Phys. *JETP* 75, 210-214 (1992).
71. "Regularities in calculated cross sections for the halogens," F. Robicheaux and C. H. Greene, *Phys. Rev. A* 46, 3821-3833 (1992).
70. "Angular distributions of ejected electrons from autoionizing 3pnd states of magnesium," M. D. Lindsay, C.-J. Dai, L.-T. Cai, T. F. Gallagher, F. Robicheaux and C. H. Greene, *Phys. Rev. A* 46, 3789-3806 (1992).
69. "Oscillator strengths and radiative branching ratios in atomic Sr," H.G.C. Werij, C. H. Greene, C. E. Theodosiou and A. Gallagher, *Phys. Rev. A* 46, 1248-1260 (1992).
68. "Extensive eigenchannel R-matrix study of the H- photodetachment spectrum," H. R. Sadeghpour, C. H. Greene and M. Cavagnero, *Phys. Rev. A* 45, 1587-1595 (1992).
67. "Electric field effects on resonance structures in negative ion photodetachment," V. Z. Slonim and C. H. Greene, in Radiation Effects and Defects in Solids 122-123, 679-689 (1991).
66. "R-matrix calculation of atomic hydrogen photoionization in a strong magnetic field," Q. Wang and C. H. Greene, *Phys. Rev. A* 44, 7448-7458 (1991).
65. "Parameter-dependent multichannel Rydberg spectra," Q. Wang and C. H. Greene, *Phys. Rev. A* 44, 1873-1883 (1991).
64. "Laser-based VUV spectroscopy of doubly-excited Ca I," S. M. Farooqi, J. P. Connerade, C. H. Greene, J. Marangos, M. H. R. Hutchinson and N. Shen, *J. Phys. B: Atom. Molec. Opt. Phys.* 24, L179-184 (1991).
63. "Spin-orbit effects in the heavy alkaline earth atoms," C. H. Greene and M. Aymar, *Phys. Rev. A* 44, 1773-1790 (1991).
62. "Extensive double-excitation states in atomic helium," M. Domke, C. Xue, A. Puschmann, T. Mandel, E. Hudson, D. A. Shirley, G. Kaindl, C. H. Greene, H. R. Sadeghpour, H. Peterson, *Phys. Rev. Lett.* 66, 1306-1309 (1991).
61. "Alternative vibrational frame transformation for electron-molecule scattering," H. Gao and C. H. Greene, *Phys. Rev. A* 42, 6946-6949 (1990).
60. "Photoionization of the Ba  $6s6p \ ^1P^0$  state," C. H. Greene and C. E. Theodosiou, *Phys. Rev. A* 42, 5773-5775 (1990).
59. "Photoabsorption spectra of the heavy alkal-metal negative ions," C. H. Greene, *Phys. Rev. A* 42, 1405-1415 (1990).
58. "Dominant Photodetachment Channels in H<sup>-</sup>," H. R. Sadeghpour and C. H. Greene, *Phys. Rev. Lett.* 65, 313-316 (1990).
57. "Quantum defect description of non-Rydberg molecules," H. Gao and C. H. Greene, *J. Chem. Phys.* 93, 1791-1798 (1990).
56. "Interaction between electronic and vibrational motions," C. H. Greene, *Comments At. Molec. Phys.* 23, 209-228 (1989).
55. "Multichannel Rydberg spectra of the rare gas dimers," Ning Yi Du and C. H. Greene, *J. Chem. Phys.* 90, 6347-6360 (1989).

54. "Quantal description of diamagnetic quasi-Landau-resonances," Q. Wang and C. H. Greene, Phys. Rev. A 40, 742-751 (1989).
53. "Stable negative ions of the heavy alkaline-earth atoms," L. Kim and C. H. Greene, J. Phys. B 22, L175-182 (1989).
52. "Energy-dependent vibrational frame transformation for electron-molecule scattering with simplified models," H. Gao and C. H. Greene, J. Chem. Phys. 91, 3988-3998 (1989).
51. "Anisotropy of excited He<sup>+</sup> formed in the photoionization of helium," H. Sadeghpour and C. H. Greene, Phys. Rev. A 39, 115-125 (1989).
50. "Streamlined eigenchannel treatment of open-shell spectra," C. H. Greene and L. Kim, Phys. Rev. A 38, 5953-5956 (1988).
49. "Interpretation of oscillatory structures in Rb<sup>-</sup> photodetachment," C. H. Greene and N. Rouze, Z. Phys. D 9, 219-221 (1988).
48. "Two-electron excitations in atomic calcium. III. High-lying resonances above the 4p threshold," L. Kim and C. H. Greene, Phys. Rev. A 38, 2361-2370 (1988).
47. "Negative ion photodetachment in a static external field," C. H. Greene, in Atomic Spectra and Collisions in External Fields II, Proceedings (K. Taylor, C. W. Clark and M. Nayfeh, Eds., Plenum, 1988).
46. "Variational calculation of channel interaction parameters," C. H. Greene, in Fundamental Processes of Atomic Dynamics (J. Briggs, H. Kleinpoppen and H. Lutz, Eds., Plenum, 1988), p. 105.
45. "The production and measurement of anisotropy using photons," C. H. Greene, in Fundamental Processes of Atomic Dynamics (J. Briggs, H. Kleinpoppen and H. Lutz, Eds., Plenum, 1988), p. 177.
44. "Negative ion photodetachment in an electric field," Hin-yiu Wong, A. R. P. Rau and C. H. Greene, Phys. Rev. A 37, 2393-2403 (1988).
43. "Negative ion photodetachment in a weak magnetic field," C. H. Greene, Phys. Rev. A 36, 4236-4244 (1987).
42. "Two-electron excitations in atomic calcium. II. Fine structure effects," L. Kim and C. H. Greene, Phys. Rev. A 36, 4272-4279 (1987).
41. "Two-electron excitation in atomic calcium," C. H. Greene and L. Kim, Phys. Rev. A 36, 2706-2717 (1987).
40. "Interaction between a Rydberg atom and neutral perturbers," Ning Yi Du and C. H. Greene, Phys. Rev. A 36, 971-974 (1987).
39. "Angular distribution of slow photoelectrons near the threshold for double-escape," C. H. Greene, J. Phys. B 20, L357-361 (1987).
38. "Multiple excitations of atomic electrons," C. H. Greene, J. Opt. Soc. Am. B 4, 775-783 (1987).
37. "Positron-hydrogen resonances associated with the N=2 positronium and N=3 hydrogen thresholds," Y. K. Ho and C. H. Greene, Phys. Rev. A 35, 3169-3171 (1987).
36. "Quantum defect analysis of HD photoionization," Ning-Yi Du and C. H. Greene, J. Chem. Phys. 85, 5430-5436 (1986).
35. "Implementation of quantum defect theory for arbitrary long range fields," B. Yoo and C. H. Greene, Phys. Rev. A 34, 1635-1641 (1986).
34. "Resonant photodetachment of the positronium negative ion," J. Botero and C. H. Greene, Phys. Rev. Lett. 56, 1366 (1986).
33. "Channel interaction theory in a finite volume," Phys. Rev. A 32, 1880 (1985).
32. "Vibrational frame transformation for electron-molecule scattering," C. H. Greene and Ch. Jungen, Phys. Rev. Lett. 55, 1066 (1985).
31. "Positronium negative ion: An Adiabatic study using hyperspherical coordinates," J. Botero and C. H. Greene, Phys. Rev. A 32, 1249 (1985).
30. "Dipole threshold laws for single and double detachment from negative ions," C. H. Greene and A. R. P. Rau, Phys. Rev. A 32, 1352 (1985).
29. "Anisotropy in photofragmentation," C. H. Greene, in Fundamental Processes in Atomic Collision Physics, (H. Kleinpoppen, H. O. Lutz and J. Briggs, Eds., Plenum, 1985), p. 489.
28. "Depolarization of optically prepared molecules by two randomly oriented spins," R. Altkorn, R. N. Zare and C. H. Greene, Mol. Phys. 55, 1 (1985).
27. "Molecular applications of quantum defect theory," C. H. Greene and Ch. Jungen, Adv. At. Mol. Phys. 21, 51 (1985).
26. "Doubly-excited states of beryllium and magnesium," P. F. O'Mahony and C. H. Greene, Phys. Rev.

31, 250 (1985).

25. "Elements of quantum defect theory III. Diatomic molecules," C. H. Greene, in Photophysics and Photochemistry in the Vacuum Ultraviolet, (S. P. McGlynn, G. L. Findley and R. H. Huebner, Eds., Reidel, 1985).
24. Erratum: "General form of the quantum defect theory II," C. H. Greene, A. R. P. Rau and U. Fano, Phys. Rev. A 30, 3321 (1984).
23. "Adiabatic hyperspherical treatment of lithium  $^2\text{P}^0$  states," C. H. Greene and C. W. Clark, Phys. Rev. A 30, 2161 (1984).
22. "Molecular complexes: Further considerations," C. H. Greene, in Electronic and Atomic Collisions, Invited papers at the XIII ICPEAC (J. Eichler, I. V. Hertel and N. Stolterfoht, Eds., North-Holland, 1984), p. 633.
21. "Spin correlations in photodetachment," S. Watanabe, U. Fano and C. H. Greene, Phys. Rev. A 29, 177 (1984).
20. "Quantum defect methods for low energies," C. H. Greene, in Electron-Molecule Collisions and Photoionization Processes, (V. McKoy, H. Suzuki, K. Takayanagi and S. Trajmar, Verlag Chemie International, 1983), p. 244.
19. "Atomic photoionization in a strong magnetic field," C. H. Greene, Phys. Rev. A 28, 2209 (1983).
18. "Determination of product population and alignment using laser - induced fluorescence," C. H. Greene and R. N. Zare, J. Chem. Phys. 78, 6741 (1983).
17. "Effect of symmetry on two electron escape at threshold," C. H. Greene and A. R. P. Rau, J. Phys. B 16, 99 (1983).
16. "General form of the quantum defect theory II," C. H. Greene, A. R. P. Rau and U. Fano, Phys. Rev. A 26, 2441 (1982).
15. "Adiabatic hyperspherical treatment of the  $\text{H}_2^+$  molecule," C. H. Greene, Phys. Rev. A 26, 2974 (1982).
14. "Photofragment alignment and orientation," C. H. Greene and R. N. Zare, Ann. Rev. Phys. Chem. 33, 119 (1982).
13. "Photoionization-produced alignment of Cd," C. H. Greene and R. N. Zare, Phys. Rev. A 25, 2031 (1982).
12. "Double escape of two electrons at threshold: Dependence on L, S, and p," C. H. Greene and A. R. P. Rau, Phys. Rev. Lett. 48, 533 (1982).
11. "Doubly excited states of the alkaline-earth atoms," C. H. Greene, Phys. Rev. A 23, 661 (1981).
10. "Unfavored angular distributions," U. Fano and C. H. Greene, Phys. Rev. A 22, 1760 (1980).
9. "Atomic polarizability in negative-ion photodetachment," S. Watanabe and C. H. Greene, Phys. Rev. A 22, 158 (1980).
8. "Dependence of photoabsorption spectra on long range fields," C. H. Greene, Phys. Rev. A 22, 149 (1980).
7. "Hyperspherical analysis of three-electron dynamics," C. W. Clark and C. H. Greene, Phys. Rev. A 21, 1786 (1980).
6. "Manifestation of dynamically unfavored transitions in the angular distribution of photofragments," C. H. Greene, Phys. Rev. Lett. 44, 869 (1980).
5. "Interpretation of Feshbach resonances in  $\text{H}^-$  photodetachment," C. H. Greene, J. Phys. B 13, L39 (1980).
4. "Generalized quantum defects: Their variations with energy and radius," C. H. Greene, Phys. Rev. A 20, 656 (1979).
3. "Alignment and orientation of the  $3\text{p}^3 \text{P}$  state in He I as a function of foil tilt angle," D. J. Burns, R. D. Hight and C. H. Greene, Phys. Rev. A 20, 404 (1979).
2. "General form of the quantum defect theory," C. Greene, U. Fano and G. Strinati, Phys. Rev. A 19, 1485 (1979).
1. "Energy dependence of atomic quantum defects throughout the discrete spectrum," C. H. Greene and J. L. Dehmer, Argonne National Laboratory Report ANL-77-65.