

# Brett D Esry

## List of Publications by Year in descending order

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104  
papers

5,277  
citations

81434

41  
h-index

100535

70  
g-index

104  
all docs

104  
docs citations

104  
times ranked

2369  
citing authors

#	ARTICLE	IF	CITATIONS
1	Frustrated tunnelling ionization during strong-field fragmentation of $D_3^+$ . New Journal of Physics, 2012, 14, 103029.	1.2	42
2	Efimov Physics in Heteronuclear Four-Body Systems. Physical Review Letters, 2012, 108, 073201.	2.9	24
3	Enhancing the Intense Field Control of Molecular Fragmentation. Physical Review Letters, 2012, 109, 133001.	2.9	30
4	Multiphoton dissociation of $HeH^+$ below the He dissociation threshold. Physical Review Letters, 2012, 109, 163003.	1.0	19
5	Dynamics of $D_3^+$ slow dissociation induced by intense ultrashort laser pulses. Physical Review A, 2012, 85, .	1.0	15
6	Controlling strong-field fragmentation of $H_2^+$ by temporal effects with few-cycle laser pulses. Physical Review A, 2012, 85, .	1.0	59
7	Multiphoton Above Threshold Effects in Strong-Field Fragmentation. Physical Review Letters, 2012, 109, 163003.	2.9	54
8	New Class of Three-Body States. Physical Review Letters, 2012, 108, 213202.	2.9	10
9	Origin of the Three-Body Parameter Universality in Efimov Physics. Physical Review Letters, 2012, 108, 263001.	2.9	143
10	Protonium formation in collisions of antiprotons with atomic and molecular hydrogen: a semiclassical study. Radiation Effects and Defects in Solids, 2011, 166, 346-356.	0.4	1
11	Universal three-body physics at finite energy near Feshbach resonances. New Journal of Physics, 2011, 13, 035025.	1.2	17
12	Frustrated tunneling ionization during laser-induced $D_3^+$ fragmentation: Detection of excited metastable $D_3^+$ atoms. Physical Review A, 2011, 84, .	1.0	48
13	Ultracold three-body collisions near narrow Feshbach resonances. Physical Review A, 2011, 83, .	1.0	26
14	Cold three-body collisions in hydrogen-alkali-metal atomic systems. Physical Review A, 2011, 83, .	1.0	24
15	Comparison of theoretical analyses of intense-laser-induced molecular dissociation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 155005.	0.6	9
16	Time-dependent dynamics of an intense laser-induced above-threshold Coulomb explosion. Physical Review A, 2010, 82, .	1.0	23
17	Adiabatic hyperspherical study of weakly bound helium-alkali-metal triatomic systems. Physical Review A, 2010, 82, .	1.0	22
18	Vibrationally cold $CO_2^+$ fragmentation induced by intense ultrashort laser pulses. Physical Review A, 2010, 81, .	1.0	10

#	ARTICLE	IF	CITATIONS
19	Tracing the photodissociation probability of $H_2$ in intense fields using chirped laser pulses. Physical Review A, 2010, 81, .	4.0	47
20	Colliding Bose-Einstein Condensates to Observe Efimov Physics. Physical Review Letters, 2010, 104, 113201.	2.9	17
21	Magnetically Controlled Exchange Process in an Ultracold Atom-Dimer Mixture. Physical Review Letters, 2010, 104, 053201.	2.9	77
22	Field-Free Orientation of CO Molecules by Femtosecond Two-Color Laser Fields. Physical Review Letters, 2009, 103, 153002.	2.9	242
23	Efimov Trimer Formation via Ultracold Four-Body Recombination. Physical Review Letters, 2009, 102, 133201.	2.9	29
24	Laser-induced multiphoton dissociation branching ratios for $H_2$ . Physical Review A, 2009, 80, .	1.0	20
25	Ultracold Three-Body Collisions near Overlapping Feshbach Resonances. Physical Review Letters, 2009, 103, 083202.	2.9	40
26	Suppressed Dissociation of $H_2^+$ Vibrational States by Reduced Dipole Coupling. Physical Review Letters, 2009, 103, 103006.	2.9	17
27	Benchmark Measurements of $H_3^+$ . Physical Review Letters, 2009, 103, 103004.	2.9	47
28	The short-range three-body phase and other issues impacting the observation of Efimov physics in ultracold quantum gases. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 044016.	0.6	64
29	Conditions for Efimov physics for finite-range potentials. Physical Review A, 2009, 80, .	1.0	15
30	Three-body recombination in cold helium-alkali-metal-atom collisions. Physical Review A, 2009, 80, .	1.0	39
31	Dissociation and ionization of an HD+ beam induced by intense 395-nm ultrashort laser pulses. Physical Review A, 2009, 80, .	1.0	8
32	Enhancement of carrier-envelope phase effects in photoexcitation of alkali atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 191001.	0.6	2
33	Permanent dipole transitions remain elusive in HD+ strong-field dissociation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 121003.	0.6	12
34	Rotational dynamics of dissociating $H_2^+$ in a short intense laser pulse. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 091001.	0.6	23
35	Alternative paths to observing Efimov physics. Few-Body Systems, 2008, 43, 63-68.	0.7	2
36	Ultracold atom-molecule collisions with fermionic atoms. Physical Review A, 2008, 77, .	1.0	17

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37	Suppression of Molecular Decay in Ultracold Gases without Fermi Statistics. Physical Review Letters, 2008, 100, 163201.	2.9	21
38	High kinetic energy release upon dissociation and ionization of an $N_2$ beam by intense few-cycle laser pulses. Physical Review A, 2008, 78, .	1.0	10
39	Adiabatic hyperspherical study of triatomic helium systems. Physical Review A, 2008, 78, .	1.0	72
40	Elusive enhanced ionization structure for $H_2$ in intense ultrashort laser pulses. Physical Review A, 2008, 78, .	1.0	38
41	Intensity dependence in the dissociation branching ratio of $ND_2$ in intense femtosecond laser pulses. Physical Review A, 2008, 77, .	1.0	10
42	Isotopic pulse-length scaling of molecular dissociation in an intense laser field. Physical Review A, 2008, 78, .	1.0	8
43	Role of nuclear rotation in dissociation of $H_2$ in a short laser pulse. Physical Review A, 2008, 77, .	1.0	52
44	Enhancing High-Order Above-Threshold Dissociation of $H_2$ Beams with Few-Cycle Laser Pulses. Physical Review Letters, 2008, 100, 133001.	2.9	86
45	Three-body recombination in one dimension. Physical Review A, 2007, 76, .	1.0	29
46	General Theory of Carrier-Envelope Phase Effects. Physical Review Letters, 2007, 99, 220406.	2.9	115
47	Determining laser-induced dissociation pathways of multielectron diatomic molecules: Application to the dissociation of $O_2^+$ by high-intensity ultrashort pulses. Physical Review A, 2007, 75, .	1.0	48
48	$HD^+$ in a short strong laser pulse: Practical consideration of the observability of carrier-envelope phase effects. Physical Review A, 2007, 76, .	1.0	45
49	Three-body systems with attractive $1/r^p$ potentials. Physical Review A, 2007, 75, .	1.0	6
50	Ultracold three-body collisions and the role of the Efimov effect. Nuclear Physics A, 2007, 790, 742c-746c.	0.6	0
51	A $m\bar{c}$ à trois laid bare. Nature, 2006, 440, 289-290.	13.7	24
52	Preference for breaking the O-H bond over the O-D bond following HDO ionization by fast ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 1701-1710.	0.6	21
53	Mass dependence of ultracold three-body collision rates. Physical Review A, 2006, 73, .	1.0	48
54	Above Threshold Coulomb Explosion of Molecules in Intense Laser Pulses. Physical Review Letters, 2006, 97, 013003.	2.9	80

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55	Enhancing the observability of the Efimov effect in ultracold atomic gas mixtures. <i>Physical Review A</i> , 2006, 73, .	1.0	53
56	Dissociation of $H_2^+$ in intense femtosecond laser fields studied by coincidence three-dimensional momentum imaging. <i>Physical Review A</i> , 2006, 74, .	1.0	85
57	Laser-assisted charge transfer in $He^{2+}+H$ collisions. <i>Physical Review A</i> , 2006, 73, .	1.0	25
58	Highlighting the angular dependence of bond softening and bond hardening of $H_2$ in an ultrashort intense laser pulse. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, L251-L257.	0.6	18
59	Dissociation and ionization of molecular ions by ultra-short intense laser pulses probed by coincidence 3D momentum imaging. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 233, 56-61.	0.6	20
60	Bond rearrangement caused by sudden single and multiple ionization of water molecules. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 233, 284-292.	0.6	15
61	Manifestations of the Efimov effect for three identical bosons. <i>Physical Review A</i> , 2005, 72, .	1.0	24
62	Scattering Length Scaling Laws for Ultracold Three-Body Collisions. <i>Physical Review Letters</i> , 2005, 94, 213201.	2.9	96
63	Dissociation and Ionization of $H_2^+$ by Ultrashort Intense Laser Pulses Probed by Coincidence 3D Momentum Imaging. <i>Physical Review Letters</i> , 2005, 95, 073002.	2.9	92
64	Transverse excitations of ultracold matter waves upon propagation past abrupt waveguide changes. <i>Physical Review A</i> , 2005, 72, .	1.0	5
65	Lattice approach for $H_2^+$ collisions. <i>Physical Review A</i> , 2005, 72, .	1.0	6
66	$H_2^+$ photodissociation in the scaled coordinate approach. <i>Physical Review A</i> , 2005, 71, .	1.0	19
67	Disentangling the volume effect through intensity-difference spectra: application to laser-induced dissociation of $H_2^+$ . <i>Optics Letters</i> , 2005, 30, 664.	1.7	52
68	Classical aspects of ultracold atom wave packet motion through microstructured waveguide bends. <i>Physical Review A</i> , 2004, 69, .	1.0	36
69	Limits on Universality in Ultracold Three-Boson Recombination. <i>Physical Review Letters</i> , 2004, 93, 123201.	2.9	89
70	Manifestations of vortices during ultracold-atom propagation through waveguides. <i>Physical Review A</i> , 2004, 70, .	1.0	5
71	A revised formula for 3-body recombination that cannot exceed the unitarity limit. <i>Nuclear Physics A</i> , 2004, 737, 119-124.	0.6	7
72	Controlling $H_2^+$ and $H_2$ Dissociation with the Carrier-Envelope Phase Difference of an Intense Ultrashort Laser Pulse. <i>Physical Review Letters</i> , 2004, 93, 163601.	2.9	186

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73	Mechanism for the destruction of H <sub>3</sub> <sup>+</sup> ions by electron impact. <i>Nature</i> , 2001, 412, 891-894.	13.7	168
74	The helium trimer has no bound rotational excited states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, L203-L210.	0.6	20
75	Charge Transfer and Elastic Scattering in Very Slow H <sup>++</sup> D(1s) Half Collisions. <i>Physical Review Letters</i> , 2001, 86, 4803-4806.	2.9	15
76	Comment on "Efimov States for H <sub>4</sub> e Trimers". <i>Physical Review Letters</i> , 2001, 86, 4189-4189.	2.9	6
77	Collisions near threshold in atomic and molecular physics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, R93-R140.	0.6	216
78	Charge exchange in slow H <sup>++</sup> D(1s) collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 5329-5341.	0.6	22
79	Asymmetric branching ratio for the dissociation of HD <sup>+</sup> (1s <sup>2</sup> f). <i>Physical Review A</i> , 2000, 62, .	1.0	17
80	Symmetry Breakdown in Ground State Dissociation of HD <sup>+</sup> . <i>Physical Review Letters</i> , 2000, 85, 58-61.	2.9	32
81	Comparative study of He <sub>3</sub> , Ne <sub>3</sub> , and Ar <sub>3</sub> using hyperspherical coordinates. <i>Journal of Chemical Physics</i> , 2000, 113, 2145-2158.	1.2	69
82	Validity of the shape-independent approximation for Bose-Einstein condensates. <i>Physical Review A</i> , 1999, 60, 1451-1462.	1.0	69
83	Spontaneous spatial symmetry breaking in two-component Bose-Einstein condensates. <i>Physical Review A</i> , 1999, 59, 1457-1460.	1.0	83
84	Recombination of Three Atoms in the Ultracold Limit. <i>Physical Review Letters</i> , 1999, 83, 1751-1754.	2.9	366
85	Superfluids mixing it up. <i>Nature</i> , 1998, 392, 434-435.	13.7	14
86	Prospects for Mixed-Isotope Bose-Einstein Condensates in Rubidium. <i>Physical Review Letters</i> , 1998, 80, 2097-2100.	2.9	95
87	Impact of spontaneous spatial symmetry breaking on the critical atom number for two-component Bose-Einstein condensates. <i>Physical Review A</i> , 1998, 58, R3399-R3402.	1.0	12
88	Effective potentials for dilute Bose-Einstein condensates. <i>Physical Review A</i> , 1998, 58, 584-597.	1.0	70
89	Stable bound states of e <sup>++</sup> Li and e <sup>++</sup> Na. <i>Physical Review A</i> , 1998, 58, R4-R7.	1.0	43
90	Low-lying excitations of double Bose-Einstein condensates. <i>Physical Review A</i> , 1998, 57, 1265-1271.	1.0	56

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91	Dominance of short-range correlations in photoejection-induced excitation processes. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, L641-L647.	0.6	9
92	Mean lifetime measurements and calculations of long-lived HeNe <sup>2+</sup> isotopes. Physical Review A, 1997, 56, 1268-1280.	1.0	9
93	Two-Electron Photoejection of He and H <sup>+</sup> . Physical Review Letters, 1997, 78, 4902-4905.	2.9	64
94	Hartree-Fock theory for Bose-Einstein condensates and the inclusion of correlation effects. Physical Review A, 1997, 55, 1147-1159.	1.0	103
95	Impact of the Rb <sup>87</sup> singlet scattering length on suppressing inelastic collisions. Physical Review A, 1997, 55, R2511-R2514.	1.0	65
96	Hartree-Fock Theory for Double Condensates. Physical Review Letters, 1997, 78, 3594-3597.	2.9	462
97	Adiabatic hyperspherical study of the helium trimer. Physical Review A, 1996, 54, 394-401.	1.0	196
98	Multichannel spectrum of neutral particles trapped by a wire. Physical Review A, 1996, 54, 3225-3234.	1.0	20
99	Mean lifetime measurements of HeH <sup>2+</sup> (2p <sup>1</sup> f) isotopes. Physical Review A, 1996, 54, 474-479.	1.0	14
100	Ionization and excitation of hydrogen molecules by fast proton impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, L21-L28.	0.6	32
101	Role of the scattering length in three-boson dynamics and Bose - Einstein condensation. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, L51-L57.	0.6	42
102	Excitation and ionization of H(2s) by proton impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 2511-2520.	0.6	10
103	Mean lifetime of the bound 2p <sup>1</sup> f state of HeH <sup>2+</sup> . Physical Review A, 1994, 49, 1774-1781.	1.0	24
104	Close-coupling calculations of electron capture cross sections from the n=2 states of H by protons and alpha particles. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 1579-1586.	0.6	14