Truell Hyde

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.

18 26 1,192 121 h-index g-index citations papers 148 1,407 2.4 4.52 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
121	Influence of temporal variations in plasma conditions on the electric potential near self-organized dust chains. <i>Physics of Plasmas</i> , 2022 , 29, 023701	2.1	O
120	A machine learning based Bayesian optimization solution to non-linear responses in dusty plasmas. <i>Machine Learning: Science and Technology</i> , 2021 , 2, 035017	5.1	О
119	Fractional Laplacian spectral approach to turbulence in a dusty plasma monolayer. <i>Physics of Plasmas</i> , 2021 , 28, 073705	2.1	O
118	Investigating the impact of flexible furniture in the elementary classroom. <i>Learning Environments Research</i> , 2021 , 24, 153-167	2.1	5
117	The initial structure of chondrule dust rims II: Charged grains. <i>Icarus</i> , 2021 , 354, 114053	3.8	2
116	Effect of ionization waves on dust chain formation in a DC discharge. <i>Journal of Plasma Physics</i> , 2021 , 87,	2.7	1
115	Dust as probes: Determining confinement and interaction forces. <i>Physical Review E</i> , 2020 , 102, 043210	2.4	7
114	Dust charging in dynamic ion wakes. <i>Physics of Plasmas</i> , 2020 , 27, 023703	2.1	8
113	Anomalous diffusion in one-dimensional disordered systems: a discrete fractional Laplacian method. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020 , 53, 135205	2	9
112	Operational behaviour of the inductively-heated plasma generator IPG6-B for scientific applications. <i>Vacuum</i> , 2020 , 176, 109338	3.7	3
111	Numerical study of anomalous diffusion of light in semicrystalline polymer structures. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
110	Detailed Model of the Growth of Fluffy Dust Aggregates in a Protoplanetary Disk: Effects of Nebular Conditions. <i>Astrophysical Journal</i> , 2020 , 897, 182	4.7	1
109	Discharge parameters of PlasmaKristall-4BU: A modifiable dusty plasma experiment. <i>Review of Scientific Instruments</i> , 2020 , 91, 083506	1.7	2
108	Experimental study of the nonreciprocal effective interactions between microparticles in an anisotropic plasma. <i>Scientific Reports</i> , 2020 , 10, 13653	4.9	10
107	Mapping the Plasma Potential in a Glass Box. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 3079-3086	1.3	2
106	Spectral approach to transport in a two-dimensional honeycomb lattice with substitutional disorder. <i>Physical Review B</i> , 2019 , 99,	3.3	2
105	Nonlinear response of vertical paired structure in complex plasma. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 055004	2	4

(2016-2019)

104	Dust Particle Pair Correlation Functions and the Nonlinear Effect of Interaction Potentials. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 3057-3062	1.3	2	
103	Nonlinear mode coupling and internal resonance observed in a dusty plasma. <i>New Journal of Physics</i> , 2019 , 21, 103051	2.9	5	
102	Self-diffusion in two-dimensional quasimagnetized rotating dusty plasmas. <i>Physical Review E</i> , 2019 , 99, 013203	2.4	17	
101	The initial structure of chondrule dust rims I: Electrically neutral grains. <i>Icarus</i> , 2019 , 321, 99-111	3.8	9	
100	Transport properties of disordered two-dimensional complex plasma crystal. <i>Contributions To Plasma Physics</i> , 2018 , 58, 209-216	1.4	5	
99	Particle Growth in an Experimental Dusty Plasma System. <i>Chinese Physics Letters</i> , 2018 , 35, 125201	1.8	2	
98	Mode-coupling instability in a single-layer complex plasma crystal: Strong damping regime. <i>Physics of Plasmas</i> , 2018 , 25, 093702	2.1	3	
97	Discrete stochastic charging of aggregate grains. <i>Physical Review E</i> , 2018 , 97, 053207	2.4	4	
96	Delocalization in infinite disordered two-dimensional lattices of different geometry. <i>Physical Review B</i> , 2017 , 96,	3.3	5	
95	Simple experiment on the sputtering rate of solids in gas discharges. <i>Physics of Plasmas</i> , 2017 , 24, 060°	701.1	1	
94	Dynamics of spinning particle pairs in a single-layer complex plasma crystal. <i>Physical Review E</i> , 2017 , 96, 011201	2.4	2	
93	The magnetic field inside a protoplanetary disc gap opened by planets of different masses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 472, 3277-3287	4.3	17	
92	Comparison of Plasma Magnetic Field Interactions in a Static and Dynamic Plasma Facility. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pe_21-Pe_26	0.3	2	
91	Design of a 1.5 Seconds High Quality Microgravity Drop Tower Facility. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2016 , 14, Ph_7-Ph_14	0.3	1	
90	Physical interpretation of the spectral approach to delocalization in infinite disordered systems. <i>Materials Research Express</i> , 2016 , 3, 125904	1.7	8	
89	Photophoretic force on aggregate grains. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 455, 2582-2591	4.3	9	
88	Multipole Expansions of Aggregate Charge: How Far to Go?. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 519-524	1.3	4	
87	DUST COAGULATION IN THE VICINITY OF A GAP-OPENING JUPITER-MASS PLANET. <i>Astrophysical Journal</i> , 2016 , 823, 80	4.7	20	

86	Temperature measurement of a dust particle in a RF plasma GEC reference cell. <i>Journal of Plasma Physics</i> , 2016 , 82,	2.7	7
85	Mapping of force fields in a capacitively driven radiofrequency plasma discharge. <i>Journal of Plasma Physics</i> , 2016 , 82,	2.7	2
84	Ion-wake field inside a glass box. <i>Physical Review E</i> , 2016 , 94, 033201	2.4	12
83	Aerodynamic and engineering design of a 1.5 s high quality microgravity drop tower facility. <i>Acta Astronautica</i> , 2016 , 129, 335-344	2.9	10
82	Mode couplings and resonance instabilities in finite dust chains. <i>Physical Review E</i> , 2015 , 91, 053101	2.4	5
81	Electrical conductivity of the thermal dusty plasma under the conditions of a hybrid plasma environment simulation facility. <i>New Journal of Physics</i> , 2015 , 17, 053041	2.9	19
80	Dusty plasma cavities: Probe-induced and natural. <i>Physical Review E</i> , 2015 , 91, 063105	2.4	9
79	Analysis of magnetic field plasma interactions using microparticles as probes. <i>Physical Review E</i> , 2015 , 92, 023107	2.4	7
78	Spontaneous formation and spin of particle pairs in a single-layer complex plasma crystal. <i>Europhysics Letters</i> , 2015 , 112, 45003	1.6	7
77	Dust as probe for horizontal field distribution in low pressure gas discharges. <i>Plasma Sources Science and Technology</i> , 2014 , 23, 045008	3.5	20
76	Photophoresis on polydisperse basalt microparticles under microgravity. <i>Journal of Aerosol Science</i> , 2014 , 76, 126-137	4.3	13
75	Slow plastic creep of 2D dusty plasma solids. <i>Physical Review Letters</i> , 2014 , 113, 025002	7.4	42
74	Mode coupling and resonance instabilities in quasi-two-dimensional dust clusters in complex plasmas. <i>Physical Review E</i> , 2014 , 90, 033109	2.4	17
73	Measurement of net electric charge and dipole moment of dust aggregates in a complex plasma. <i>Physical Review E</i> , 2014 , 90, 033101	2.4	23
72	Interaction force in a vertical dust chain inside a glass box. <i>Physical Review E</i> , 2014 , 90, 013107	2.4	7
71	Two-dimensional and three-dimensional Coulomb clusters in parabolic traps. <i>Physics of Plasmas</i> , 2014 , 21, 093702	2.1	9
70	Mode couplings and resonance instabilities in dust clusters. <i>Physical Review E</i> , 2013 , 88, 043103	2.4	18
69	CHARGING OF AGGREGATE GRAINS IN ASTROPHYSICAL ENVIRONMENTS. <i>Astrophysical Journal</i> , 2013 , 763, 77	4.7	42

(2011-2013)

68	Mode Couplings and Conversions for Horizontal Dust Particle Pairs in Complex Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 745-753	1.3	9	
67	A New Inductively Driven Plasma Generator (IPG6)Betup and Initial Experiments. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 804-810	1.3	6	
66	Glow and Dust in Plasma Boundaries. IEEE Transactions on Plasma Science, 2013, 41, 799-803	1.3	4	
65	Vertical Interaction Between Dust Particles Confined in a Glass Box in a Complex Plasma. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 794-798	1.3	3	
64	Helical structures in vertically aligned dust particle chains in a complex plasma. <i>Physical Review E</i> , 2013 , 87, 053106	2.4	25	
63	Vertical-probe-induced asymmetric dust oscillation in complex plasma. <i>Physical Review E</i> , 2013 , 87, 053	1 <u>09</u>	4	
62	Guest Editorial Special Issue on Dusty Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2013 , 41, 733-734	1.3	2	
61	Effects of monomer shape on the formation of aggregates from a power law monomer distribution. <i>New Journal of Physics</i> , 2013 , 15, 073026	2.9		
60	COSMIC DUST AGGREGATION WITH STOCHASTIC CHARGING. Astrophysical Journal, 2013, 776, 103	4.7	18	
59	SARIM PLUSBample return of comet 67P/CG and of interstellar matter. <i>Experimental Astronomy</i> , 2012 , 33, 723-751	1.3	2	
58	Determination of the levitation limits of dust particles within the sheath in complex plasma experiments. <i>Physics of Plasmas</i> , 2012 , 19, 013707	2.1	27	
57	CHARGING AND COAGULATION OF DUST IN PROTOPLANETARY PLASMA ENVIRONMENTS. Astrophysical Journal, 2012, 744, 8	4.7	37	
56	The influence of monomer shape on aggregate morphologies. <i>Astronomy and Astrophysics</i> , 2012 , 539, A99	5.1	7	
55	Modeling Agglomeration of Dust Particles in Plasma 2011,		3	
54	The effect of dust charge variation, due to ion flow and electron depletion, on dust levitation 2011,		3	
53	One-dimensional vertical dust strings in a glass box. <i>Physical Review E</i> , 2011 , 84, 016411	2.4	30	
52	Dust particle charge in plasma with ion flow and electron depletion near plasma boundaries. <i>Physics of Plasmas</i> , 2011 , 18, 083706	2.1	21	
51	Agglomeration of Dust Particles in the Lab 2011 ,		2	

50	The effect of electrode heating on the discharge parameters in complex plasma experiments. <i>Plasma Sources Science and Technology</i> , 2011 , 20, 015026	3.5	1
49	Fluid modeling of void closure in microgravity noble gas complex plasmas. <i>Physical Review E</i> , 2010 , 81, 056402	2.4	23
48	DipoleDipole Interactions of Charged-Magnetic Grains. <i>IEEE Transactions on Plasma Science</i> , 2010 , 38, 792-797	1.3	12
47	Vibrational Modes and Instabilities of a Dust-Particle Pair in a Complex Plasma. <i>IEEE Transactions on Plasma Science</i> , 2010 , 38, 826-832	1.3	11
46	Crystallization dynamics of a single layer complex plasma. <i>Physical Review Letters</i> , 2010 , 105, 115004	7.4	85
45	Probing the Sheath Electric Field With a Crystal Lattice by Using Thermophoresis in Dusty Plasma. <i>IEEE Transactions on Plasma Science</i> , 2010 , 38, 768-773	1.3	9
44	Simple method to measure the interaction potential of dielectric grains in a dusty plasma. <i>Physical Review E</i> , 2010 , 82, 036401	2.4	15
43	Experimental and computational characterization of a modified GEC cell for dusty plasma experiments. <i>New Journal of Physics</i> , 2009 , 11, 063024	2.9	14
42	Effect of dipoledipole charge interactions on dust coagulation. New Journal of Physics, 2009, 11, 06303	02.9	14
41	Measurement of the Vertical Nonuniformity of the Plasma Sheath in a Complex Plasma. <i>IEEE Transactions on Plasma Science</i> , 2009 , 37, 1620-1625	1.3	7
40	Charging and Growth of Fractal Dust Grains. IEEE Transactions on Plasma Science, 2008, 36, 310-314	1.3	12
39	Structural Phase Transitions and Vertical Mode Spectra in 2-D Finite Plasma Crystals. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 2753-2758	1.3	2
38	Employing dust particle chains as a wakefield diagnostic. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 554-558	1.3	4
37	Phase transitions in a dusty plasma with two distinct particle sizes. <i>Advances in Space Research</i> , 2008 , 41, 1510-1513	2.4	19
36	Kuiper binary formation. Advances in Space Research, 2007, 40, 280-283	2.4	5
35	Structural Phases of Bounded Three-Dimensional Screened Coulomb Clusters (Finite Yukawa System). <i>IEEE Transactions on Plasma Science</i> , 2007 , 35, 346-351	1.3	3
34	Relationship Between the DC Bias and the Debye Length in a Complex Plasma. <i>IEEE Transactions on Plasma Science</i> , 2007 , 35, 323-327	1.3	4
33	Formation of Cosmic Dust Bunnies. <i>IEEE Transactions on Plasma Science</i> , 2007 , 35, 260-265	1.3	13

32	Charging of fractal dust agglomerates in a plasma environment 2007,		2
31	Dynamics of a dust crystal with two different size dust species. <i>Advances in Space Research</i> , 2006 , 38, 2564-2570	2.4	10
30	Effect of multi-sized dust distribution on local plasma sheath potentials. <i>Advances in Space Research</i> , 2006 , 38, 2575-2580	2.4	6
29	Numerical study of structural phase transitions in a vertically confined plasma crystal. <i>Advances in Space Research</i> , 2006 , 38, 2571-2574	2.4	
28	Structural phase transitions and out-of-plane dust lattice instabilities in vertically confined plasma crystals. <i>Physical Review E</i> , 2005 , 71, 026406	2.4	16
27	Finite coulomb crystal formation. <i>Advances in Space Research</i> , 2004 , 34, 2396-2401	2.4	3
26	Dusty plasma correlation function experiment. Advances in Space Research, 2004, 34, 2379-2383	2.4	15
25	Numerical simulation and analysis of thermally excited waves in plasma crystals. <i>Advances in Space Research</i> , 2004 , 34, 2390-2395	2.4	6
24	Charged grains in Saturn F-Ring: interaction with Saturn magnetic field. <i>Advances in Space Research</i> , 2004 , 33, 2292-2297	2.4	7
23	A model of coagulation in dust clouds during grain charging. <i>Advances in Space Research</i> , 2004 , 34, 238	4- <u>2.3</u> 89	1
22	Digital imaging and analysis of dusty plasmas. <i>Advances in Space Research</i> , 2004 , 34, 2374-2378	2.4	17
22	Digital imaging and analysis of dusty plasmas. <i>Advances in Space Research</i> , 2004 , 34, 2374-2378 Effects of the charge-dipole interaction on the coagulation of fractal aggregates. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 586-593	<u>'</u>	17 33
	Effects of the charge-dipole interaction on the coagulation of fractal aggregates. <i>IEEE Transactions</i>	2.4	·
21	Effects of the charge-dipole interaction on the coagulation of fractal aggregates. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 586-593 Gravitoelectrodynamics in Saturn Fring: encounters with Prometheus and Pandora. <i>Journal of</i>	2.4	33
21	Effects of the charge-dipole interaction on the coagulation of fractal aggregates. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 586-593 Gravitoelectrodynamics in Saturn Fring: encounters with Prometheus and Pandora. <i>Journal of Physics A</i> , 2003 , 36, 6207-6214	2.4	33163
21 20 19	Effects of the charge-dipole interaction on the coagulation of fractal aggregates. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 586-593 Gravitoelectrodynamics in Saturn Fring: encounters with Prometheus and Pandora. <i>Journal of Physics A</i> , 2003 , 36, 6207-6214 Dust grain orbital behavior around ceres. <i>Advances in Space Research</i> , 2003 , 31, 2591-2597	2.4	33163
21 20 19	Effects of the charge-dipole interaction on the coagulation of fractal aggregates. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 586-593 Gravitoelectrodynamics in Saturn Fring: encounters with Prometheus and Pandora. <i>Journal of Physics A</i> , 2003 , 36, 6207-6214 Dust grain orbital behavior around ceres. <i>Advances in Space Research</i> , 2003 , 31, 2591-2597 Dispersion relations for thermally excited waves in plasma crystals. <i>Journal of Physics A</i> , 2003 , 36, 6109 Dispersion properties of the out-of-plane transverse wave in a two-dimensional Coulomb crystal.	2.4	33 16 3 10

14	The calculation of grain charge in a dense dusty plasma with a nonuniform surface potential. <i>Advances in Space Research</i> , 2002 , 29, 1277-1282	2.4	9
13	Charging in a dusty plasma with a size distribution: a comparison of three models. <i>Advances in Space Research</i> , 2002 , 29, 1283-1288	2.4	17
12	A charging model for a dust cloud with a size distribution and a nonuniform potential. <i>Advances in Space Research</i> , 2002 , 29, 1289-1294	2.4	8
11	Plasma condensation and the one component plasma model. <i>Advances in Space Research</i> , 2002 , 29, 129	5 <u>2</u> 1,300) 2
10	Mutual gravitational perturbations between planetesimals within protoplanetary disks. <i>Advances in Space Research</i> , 2002 , 29, 1301-1306	2.4	
9	Modeling chondrule melting using a resizing box_tree code. <i>Advances in Space Research</i> , 2002 , 29, 1311	-1:3414	3
8	Computer simulations of Coulomb crystallization in a dusty plasma. <i>IEEE Transactions on Plasma Science</i> , 2001 , 29, 231-237	1.3	17
7	The dust bands of the planet Mars. Advances in Space Research, 1997 , 20, 1535-1538	2.4	3
6	Charging in a dusty plasma. Advances in Space Research, 1997, 20, 1539-1542	2.4	10
5	A modified particle-particle approach to the charging of grain lattices within a dusty plasma. <i>Advances in Space Research</i> , 1993 , 13, 179-182	2.4	1
4	Micron and submicron debristunar ejecta concentrations between L values of 1.7 and 3.0 in the earth's magnetosphere. <i>Advances in Space Research</i> , 1990 , 10, 409-412	2.4	3
3	The impact of dust grains on fast fly-by spacecraft: Momentum multiplication, measurements and theory. <i>Advances in Space Research</i> , 1984 , 4, 297-301	2.4	13
2	Mass loading of planetary atmospheres by rocky satellites I I: Transport and enhanced lifetimes of satellite ejecta in planetary magnetospheres. <i>Advances in Space Research</i> , 1984 , 4, 27-30	2.4	7
1	Ionization waves in the PK-4 direct current neon discharge. <i>Plasma Sources Science and Technology</i> ,	3.5	5