

Burt A Ovrut

List of Publications by Year in descending order

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129
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130
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130
times ranked

5216
citing authors

#	ARTICLE	IF	CITATIONS
1	Calabi-Yau metrics, energy functionals and machine learning. , 2023, 01, 49-61.		4
2	Machine learning line bundle connections. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136972.	1.5	4
3	Hidden Sectors from Multiple Line Bundles for the $B-L$ MSSM. Fortschritte Der Physik, 2022, 70, .	1.5	1
4	Line Bundle Hidden Sectors for Strongly Coupled Heterotic Standard Models. Fortschritte Der Physik, 2021, 69, 2100052.	1.5	4
5	Explicit soft supersymmetry breaking in the heterotic M-theory $B-L$ MSSM. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
6	Machine Learning Calabi-Yau Metrics. Fortschritte Der Physik, 2020, 68, 2000068.	1.5	33
7	Instantons and Hilbert functions. Physical Review D, 2020, 102, .	1.6	7
8	Heterotic instantons for monad and extension bundles. Journal of High Energy Physics, 2020, 2020, 1.	1.6	7
9	R-parity violating decays of Wino chargino and wino neutralino LSPs and NLSPs at the LHC. Journal of High Energy Physics, 2019, 2019, 1.	1.6	10
10	The R-parity violating decays of charginos and neutralinos in the $B-L$ MSSM. Journal of High Energy Physics, 2019, 2019, 1.	1.6	9
11	R-parity violating decays of Bino neutralino LSPs at the LHC. Journal of High Energy Physics, 2019, 2019, 1.	1.6	6
12	Vacuum Constraints for Realistic Strongly Coupled Heterotic M-Theories. Symmetry, 2018, 10, 723.	1.1	7
13	Non-vanishing heterotic superpotentials on elliptic fibrations. Journal of High Energy Physics, 2018, 2018, 1.	1.6	6
14	Perturbative reheating in Sneutrino-Higgs cosmology. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
15	Supergravitational conformal Galileons. Journal of High Energy Physics, 2017, 2017, 1.	1.6	2
16	Heterotic instanton superpotentials from complete intersection Calabi-Yau manifolds. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
17	Non-vanishing superpotentials in heterotic string theory and discrete torsion. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
18	$N=1$ supergravitational heterotic galileons. Journal of High Energy Physics, 2017, 2017, 1.	1.6	2

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19	The minimal SUSY B $\hat{=}$ L model: simultaneous Wilson lines and string thresholds. Journal of High Energy Physics, 2016, 2016, 1.	1.6	11
20	Supersymmetric Sneutrino-Higgs inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 441-446.	1.5	12
21	Nonsingular bouncing cosmology: Consistency of the effective description. Physical Review D, 2016, 93, .	1.6	59
22	The minimal SUSY B $\hat{=}$ L model: from the unification scale to the LHC. Journal of High Energy Physics, 2015, 2015, 1.	1.6	16
23	A statistical analysis of the minimal SUSY B $\hat{=}$ L theory. Modern Physics Letters A, 2015, 30, 1550085.	0.5	17
24	Cosmological super-bounce. Physical Review D, 2014, 90, .	1.6	112
25	LSP squark decays at the LHC and the neutrino mass hierarchy. Physical Review D, 2014, 90, .	1.6	16
26	Spontaneous R-parity breaking, stop LSP decays and the neutrino mass hierarchy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 732, 325-329.	1.5	28
27	Cosmological perturbations through a non-singular ghost-condensate/Galileon bounce. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 007-007.	1.9	90
28	Scalars with Higher Derivatives in Supergravity and Cosmology. Springer Proceedings in Physics, 2014, , 115-143.	0.1	3
29	Vacuum varieties, holomorphic bundles and complex structure stabilization in heterotic theories. Journal of High Energy Physics, 2013, 2013, 1.	1.6	26
30	Supersymmetric hidden sectors for heterotic standard models. Journal of High Energy Physics, 2013, 2013, 1.	1.6	13
31	Supersymmetric cubic Galileons have ghosts. Physical Review D, 2013, 88, .	1.6	9
32	Ghost condensate in $N=1$ supergravity. Physical Review D, 2013, 87, .	1.6	28
33	Computational Algebraic Geometry in String and Gauge Theory. Advances in High Energy Physics, 2012, 2012, 1-4.	0.5	12
34	DBI inflation in $N=1$ supergravity. Physical Review D, 2012, 86, .	1.6	10
35	Higher-derivative chiral superfield actions coupled to $N=1$ supergravity. Physical Review D, 2012, 86, .	1.6	42
36	The worldvolume action of kink solitons in AdS spacetime. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26

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37	Heterotic kink solitons and their worldvolume action. Journal of High Energy Physics, 2012, 2012, 1.	1.6	9
38	Wilson lines and a canonical basis of SU(4) heterotic standard models. Journal of High Energy Physics, 2012, 2012, 1.	1.6	19
39	Numerical Hermitian Yang-Mills connections and Kähler cone substructure. Journal of High Energy Physics, 2012, 2012, 1.	1.6	15
40	Stabilizing all geometric moduli in heterotic Calabi-Yau vacua. Physical Review D, 2011, 83, .	1.6	31
41	Supersymmetric $\langle P \rangle \langle X \rangle \langle \tilde{I} \rangle \langle T \rangle \langle Q \rangle \langle 1 \rangle \langle 0.784314 \rangle \langle \text{rgB} \rangle$	1.6	51
42	Supersymmetric Galileons. Physical Review D, 2011, 84, .	1.6	63
43	Stabilizing the complex structure in heterotic Calabi-Yau vacua. Journal of High Energy Physics, 2011, 2011, 1.	1.6	63
44	The Atiyah class and complex structure stabilization in heterotic Calabi-Yau compactifications. Journal of High Energy Physics, 2011, 2011, 1.	1.6	54
45	THE MASS SPECTRA, HIERARCHY AND COSMOLOGY OF B-L MSSM HETEROTIC COMPACTIFICATIONS. International Journal of Modern Physics A, 2011, 26, 1569-1627.	0.5	36
46	Yukawa textures from heterotic stability walls. Journal of High Energy Physics, 2010, 2010, 1.	1.6	35
47	Numerical Hermitian Yang-Mills connections and vector bundle stability in heterotic theories. Journal of High Energy Physics, 2010, 2010, 1.	1.6	26
48	B-L cosmic strings in heterotic standard models. Journal of High Energy Physics, 2010, 2010, 1.	1.6	6
49	THE B-L/ELECTROWEAK HIERARCHY IN SMOOTH HETEROTIC COMPACTIFICATIONS. International Journal of Modern Physics A, 2010, 25, 2631-2677.	0.5	31
50	Stability walls in heterotic theories. Journal of High Energy Physics, 2009, 2009, 026-026.	1.6	65
51	The B-L/electroweak hierarchy in heterotic string and M-theory. Journal of High Energy Physics, 2009, 2009, 011-011.	1.6	36
52	The edge of supersymmetry: Stability walls in heterotic theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 677, 190-194.	1.5	47
53	Calabi-Yau metrics for quotients and complete intersections. Journal of High Energy Physics, 2008, 2008, 080-080.	1.6	46
54	Two Higgs pair heterotic vacua and flavor-changing neutral currents. Journal of High Energy Physics, 2008, 2008, 046-046.	1.6	6

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55	Eigenvalues and eigenfunctions of the scalar Laplace operator on Calabi-Yau manifolds. Journal of High Energy Physics, 2008, 2008, 120-120.	1.6	45
56	Non-Gaussianities in New Ekpyrotic Cosmology. Physical Review Letters, 2008, 100, 171302.	2.9	130
57	On the initial conditions in new ekpyrotic cosmology. Journal of High Energy Physics, 2007, 2007, 076-076.	1.6	69
58	Worldsheet instantons and torsion curves. Part A: direct computation. Journal of High Energy Physics, 2007, 2007, 022-022.	1.6	28
59	Worldsheet instantons and torsion curves. Part B: mirror symmetry. Journal of High Energy Physics, 2007, 2007, 023-023.	1.6	26
60	Flux, gaugino condensation, and antibranes in heterotic M theory. Physical Review D, 2007, 76, .	1.6	7
61	Perturbative antibrane potentials in heterotic M theory. Physical Review D, 2007, 76, .	1.6	7
62	New ekpyrotic cosmology. Physical Review D, 2007, 76, .	1.6	264
63	Worldsheet instantons, torsion curves and non-perturbative superpotentials. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 649, 334-341.	1.5	30
64	Moduli dependent $\hat{1}/4$ -terms in a heterotic Standard Model. Journal of High Energy Physics, 2006, 2006, 006-006.	1.6	18
65	Stability of the minimal heterotic standard model bundle. Journal of High Energy Physics, 2006, 2006, 032-032.	1.6	26
66	The exact MSSM spectrum from string theory. Journal of High Energy Physics, 2006, 2006, 043-043.	1.6	175
67	Yukawa couplings in heterotic standard models. Journal of High Energy Physics, 2006, 2006, 019-019.	1.6	42
68	Stabilizing moduli with a positive cosmological constant in heterotic M-theory. Journal of High Energy Physics, 2006, 2006, 035-035.	1.6	31
69	Heterotic standard model moduli. Journal of High Energy Physics, 2006, 2006, 025-025.	1.6	21
70	Vector bundle extensions, sheaf cohomology, and the heterotic standard model. Advances in Theoretical and Mathematical Physics, 2006, 10, 525-589.	0.4	57
71	A heterotic standard model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 618, 252-258.	1.5	189
72	The spectra of heterotic standard model vacua. Journal of High Energy Physics, 2005, 2005, 070-070.	1.6	66

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73	The dynamics of small instanton phase transitions. <i>Journal of High Energy Physics</i> , 2005, 2005, 023-023.	1.6	1
74	A Heterotic Standard Model. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	3
75	Instanton moduli in string theory. <i>Journal of High Energy Physics</i> , 2005, 2005, 008-008.	1.6	12
76	A Standard Model from the E8 ^{-E8} heterotic superstring. <i>Journal of High Energy Physics</i> , 2005, 2005, 039-039.	1.6	105
77	BIG CRUNCH/BIG BANG STRING COSMOLOGIES. , 2005, , .		0
78	Elliptic Calabi-Yau Threefolds with Z ₃ Wilson Lines. <i>Journal of High Energy Physics</i> , 2004, 2004, 062-062.	1.6	56
79	The Particle Spectrum of Heterotic Compactifications. <i>Journal of High Energy Physics</i> , 2004, 2004, 054-054.	1.6	88
80	Vacuum stability in heterotic M theory. <i>Physical Review D</i> , 2004, 69, .	1.6	68
81	Moduli dependent spectra of heterotic compactifications. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 598, 279-284.	1.5	46
82	LECTURES ON HETEROTIC M-THEORY. , 2004, , .		1
83	Superpotentials for vector bundle moduli. <i>Nuclear Physics B</i> , 2003, 653, 400-420.	0.9	71
84	Twisted Sectors and Chern-Simons Terms in M-Theory Orbifolds. <i>International Journal of Modern Physics A</i> , 2003, 18, 2995-3013.	0.5	3
85	An M-Theory Perspective on Heterotic K3 Orbifold Compactifications. <i>International Journal of Modern Physics A</i> , 2003, 18, 3273-3314.	0.5	9
86	Torus-Fibered Calabi-Yau threefolds with non-trivial fundamental group. <i>Journal of High Energy Physics</i> , 2003, 2003, 040-040.	1.6	33
87	From big crunch to big bang. <i>Physical Review D</i> , 2002, 65, .	1.6	485
88	Density perturbations in the ekpyrotic scenario. <i>Physical Review D</i> , 2002, 66, .	1.6	207
89	Vector Bundle Moduli and Small Instanton Transitions. <i>Journal of High Energy Physics</i> , 2002, 2002, 054-054.	1.6	56
90	Vector Bundle Moduli Superpotentials in Heterotic Superstrings and M-Theory. <i>Journal of High Energy Physics</i> , 2002, 2002, 066-066.	1.6	74

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91	Five-brane superpotentials in heterotic M-theory. Nuclear Physics B, 2002, 626, 113-164.	0.9	36
92	Vector Bundle Moduli. Russian Physics Journal, 2002, 45, 662-669.	0.2	6
93	Ekyprotic universe: Colliding branes and the origin of the hot big bang. Physical Review D, 2001, 64, .	1.6	1,150
94	Nonperturbative superpotentials from membrane instantons in heterotic M-theory. Nuclear Physics B, 2001, 614, 117-170.	0.9	64
95	Standard-model bundles on non-simply connected Calabi-Yau threefolds. Journal of High Energy Physics, 2001, 2001, 053-053.	1.6	67
96	Visible branes with negative tension in heterotic M-theory. Journal of High Energy Physics, 2001, 2001, 041-041.	1.6	51
97	Standard models from heterotic M-theory. Advances in Theoretical and Mathematical Physics, 2001, 5, 93-137.	0.4	85
98	Spectral involutions on rational elliptic surfaces. Advances in Theoretical and Mathematical Physics, 2001, 5, 499-561.	0.4	57
99	Standard-model bundles. Advances in Theoretical and Mathematical Physics, 2001, 5, 563-615.	0.4	78
100	Heterotic M-Theory Vacua with Five-Branes. Fortschritte Der Physik, 2000, 48, 167-170.	1.5	10
101	The Universe as a Three-Brane. Fortschritte Der Physik, 2000, 48, 183-190.	1.5	2
102	SYMMETRIC VACUA IN HETEROTIC M THEORY. International Journal of Modern Physics A, 2000, 15, 5161-5182.	0.5	2
103	Small instanton transitions in heterotic M-theory. Journal of High Energy Physics, 2000, 2000, 045-045.	1.6	79
104	Non-perturbative vacua in heterotic M-theory. Classical and Quantum Gravity, 2000, 17, 1049-1056.	1.5	12
105	Heterotic M-theory cosmology in four and five dimensions. Physical Review D, 2000, 63, .	1.6	35
106	Non-perturbative vacua and particle physics in M-theory. Journal of High Energy Physics, 1999, 1999, 018-018.	1.6	66
107	Five-branes and supersymmetry breaking in M-Theory. Journal of High Energy Physics, 1999, 1999, 009-009.	1.6	68
108	Holomorphic vector bundles and non-perturbative vacua in M-theory. Journal of High Energy Physics, 1999, 1999, 034-034.	1.6	87

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109	Moduli spaces of fivebranes on elliptic Calabi-Yau threefolds. Journal of High Energy Physics, 1999, 1999, 030-030.	1.6	51
110	Universe as a domain wall. Physical Review D, 1999, 59, .	1.6	472
111	Nonstandard embedding and five-branes in heterotic M theory. Physical Review D, 1999, 59, .	1.6	104
112	Cosmological solutions of Ho \check{A} ava-Witten theory. Physical Review D, 1999, 60, .	1.6	172
113	The ten-dimensional effective action of strongly coupled heterotic string theory. Nuclear Physics B, 1999, 540, 230-246.	0.9	54
114	Heterotic M-theory in five dimensions. Nuclear Physics B, 1999, 552, 246-290.	0.9	334
115	Stabilizing dilaton and moduli vacua in string and M-theory cosmology. Nuclear Physics B, 1998, 509, 169-193.	0.9	29
116	On the four-dimensional effective action of strongly coupled heterotic string theory. Nuclear Physics B, 1998, 532, 43-82.	0.9	189
117	Gaugino condensation in M theory onS1/Z2. Physical Review D, 1998, 57, 7529-7538.	1.6	94
118	Nonperturbative Effects in 2D String Theory or, Beyond the Liouville Wall. International Journal of Modern Physics A, 1997, 12, 3477-3515.	0.5	1
119	ANTISYMMETRIC TENSOR FIELD COUPLED TO CHIRAL MATTER AND DYNAMICAL SYMMETRY BREAKING. Modern Physics Letters A, 1992, 07, 571-582.	0.5	1
120	Non-perturbative interactions in string theory. AIP Conference Proceedings, 1992, , .	0.3	0
121	A GEOMETRIC INTERPRETATION FOR THE TORSION CONSTRAINTS OF (2,0) HETEROTIC WORLDSHEET SUPERGRAVITY. Modern Physics Letters A, 1991, 06, 3341-3347.	0.5	1
122	VORTICES AND MONOPOLES ON A SPHERE. Modern Physics Letters A, 1990, 05, 2351-2359.	0.5	2
123	Sigma-model duality and duality transformations in string theory. Physical Review D, 1989, 40, 1146-1149.	1.6	37
124	Superstrings and the auxiliary field structure of supergravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 205, 455-458.	1.5	24
125	Supersymmetry, supergravity, and particle physics. AIP Conference Proceedings, 1986, , .	0.3	0
126	Splitting the superstring vacuum degeneracy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 174, 63-68.	1.5	51

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127	The world sheet supergravity of the heterotic string. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 171, 177-181.	1.5	55
128	Supersymmetry and inflation: A new approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 133, 161-168.	1.5	95
129	Supersymmetric extension of the $SU(3)\tilde{\times}SU(2)\tilde{\times}U(1)$ model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 113, 175-179.	1.5	467