David R Morrison

List of Publications by Year
in descending order

77 papers	6,959 citations	66343 42 h-index	66911 78 g-index
78 all docs	78 docs citations	78 times ranked	882 citing authors

#	Article	IF	Citations
1	Compactifications of F-theory on Calabi-Yau threefolds (II). Nuclear Physics B, 1996, 476, 437-469.	2.5	637
2	Compactifications of F-theory on Calabi-Yau threefolds. (I). Nuclear Physics B, 1996, 473, 74-92.	2.5	525
3	Five-dimensional supersymmetric gauge theories and degenerations of Calabi-Yau spaces. Nuclear Physics B, 1997, 497, 56-100.	2.5	384
4	Non-spherical horizons, I. Advances in Theoretical and Mathematical Physics, 1999, 3, 1-81.	0.6	336
5	Extremal transitions and five-dimensional supersymmetric field theories. Nuclear Physics B, 1997, 483, 229-247.	2.5	297
6	Black hole condensation and the unification of string vacua. Nuclear Physics B, 1995, 451, 109-120.	2.5	248
7	Calabi-Yau moduli space, mirror manifolds and spacetime topology change in string theory. Nuclear Physics B, 1994, 416, 414-480.	2.5	223
8	Atomic classification of 6D SCFTs. Fortschritte Der Physik, 2015, 63, 468-530.	4.4	216
9	On the classification of 6D SCFTs and generalized ADE orbifolds. Journal of High Energy Physics, 2014, 2014, 1.	4.7	212
10	Summing the instantons: Quantum cohomology and mirror symmetry in toric varieties. Nuclear Physics B, 1995, 440, 279-354.	2.5	204
11	Mirror symmetry for two-parameter models â€" II. Nuclear Physics B, 1994, 429, 626-674.	2.5	185
12	Mirror symmetry for two-parameter models (I). Nuclear Physics B, 1994, 416, 481-538.	2.5	181
13	Triples, fluxes, and strings. Advances in Theoretical and Mathematical Physics, 2000, 4, 995-1186.	0.6	147
14	Topological field theory and rational curves. Communications in Mathematical Physics, 1993, 151, 245-262.	2.2	144
15	F-theory and the Mordell-Weil group of elliptically-fibered Calabi-Yau threefolds. Journal of High Energy Physics, 2012, 2012, 1.	4.7	141
16	Enhanced gauge symmetry in type 11 string theory. Nuclear Physics B, 1996, 477, 105-140.	2.5	139
17	Point-like instantons on K3 orbifolds. Nuclear Physics B, 1997, 503, 533-564.	2.5	138
18	Branes, Calabi-Yau spaces, and toroidal compactification of the N = 1 six-dimensional E8 theory. Nuclear Physics B, 1997, 487, 93-127.	2.5	134

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19	Mirror manifolds in higher dimension. Communications in Mathematical Physics, 1995, 173, 559-597.	2.2	111
20	Tate's algorithm and F-theory. Journal of High Energy Physics, 2011, 2011, 1.	4.7	98
21	D-branes at singularities, compactification, and hypercharge. Journal of High Energy Physics, 2007, 2007, 107-107.	4.7	97
22	Two-Sphere Partition Functions and Gromov–Witten Invariants. Communications in Mathematical Physics, 2014, 325, 1139-1170.	2.2	91
23	Mirror symmetry and rational curves on quintic threefolds: a guide for mathematicians. Journal of the American Mathematical Society, 1993, 6, 223-247.	3.9	90
24	Non-simply-connected gauge groups and rational points on elliptic curves. Journal of High Energy Physics, 1998, 1998, 012-012.	4.7	86
25	Anomalies and the Euler characteristic of elliptic Calabi–Yau threefolds. Communications in Number Theory and Physics, 2012, 6, 51-127.	1.0	85
26	Multiple mirror manifolds and topology change in string theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 303, 249-259.	4.1	84
27	Global aspects of the space of 6D $\mathcal{N} = 1$ supergravities. Journal of High Energy Physics, 2010, 2010, 1.	4.7	84
28	6D SCFTs and phases of 5D theories. Journal of High Energy Physics, 2017, 2017, 1.	4.7	84
29	F-theory on genus-one fibrations. Journal of High Energy Physics, 2014, 2014, 1.	4.7	83
30	Higher-form symmetries in 5d. Journal of High Energy Physics, 2020, 2020, 1.	4.7	81
31	Matter and singularities. Journal of High Energy Physics, 2012, 2012, 1.	4.7	74
32	Box graphs and singular fibers. Journal of High Energy Physics, 2014, 2014, 1.	4.7	63
33	Mordell-Weil torsion and the global structure of gauge groups in F-theory. Journal of High Energy Physics, 2014, 2014, 1.	4.7	62
34	Lie groups, Calabi–Yau threefolds, and F-theory. Advances in Theoretical and Mathematical Physics, 2000, 4, 95-126.	0.6	57
35	F-theory and the classification of little strings. Physical Review D, 2016, 93, .	4.7	55
36	The birational geometry of surfaces with rational double points. Mathematische Annalen, 1985, 271, 415-438.	1.4	53

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37	A geometric realization of confinement. Nuclear Physics B, 1996, 481, 513-538.	2.5	53
38	Mapping 6D $\mathcal{N} = 1$ supergravities to F-theory. Journal of High Energy Physics, 2010, 2010, 1.	4.7	53
39	Towards mirror symmetry as duality for two dimensional abelian gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 1996, 46, 177-186.	0.4	50
40	6D SCFTs and gravity. Journal of High Energy Physics, 2015, 2015, 1.	4.7	49
41	Geometries, non-geometries, and fluxes. Advances in Theoretical and Mathematical Physics, 2010, 14, 1515-1583.	0.6	49
42	Geometry of 6D RG flows. Journal of High Energy Physics, 2015, 2015, 1.	4.7	44
43	The frozen phase of F-theory. Journal of High Energy Physics, 2018, 2018, 1.	4.7	39
44	Codimension-three bundle singularities in F-theory. Journal of High Energy Physics, 2002, 2002, 014-014.	4.7	37
45	Nonabelian 2D gauge theories for determinantal Calabi-Yau varieties. Journal of High Energy Physics, 2012, 2012, 1.	4.7	35
46	Non-Higgsable clusters for 4D F-theory models. Journal of High Energy Physics, 2015, 2015, 1.	4.7	35
47	K3 Surfaces, Modular Forms, and Non-Geometric Heterotic Compactifications. Letters in Mathematical Physics, 2015, 105, 1085-1118.	1.1	34
48	F-theory and N $$\mathcal{N}$$ = 1 SCFTs in four dimensions. Journal of High Energy Physics, 2016, 2016, 1.	4.7	33
49	Stable singularities in string theory. Communications in Mathematical Physics, 1996, 178, 115-134.	2.2	31
50	Group representations and the Euler characteristic of elliptically fibered Calabi–Yau threefolds. Journal of Algebraic Geometry, 2003, 12, 321-356.	0.9	30
51	4D gauge theories with conformal matter. Journal of High Energy Physics, 2018, 2018, 1.	4.7	30
52	New methods for characterizing phases of 2D supersymmetric gauge theories. Journal of High Energy Physics, 2013, 2013, 1.	4.7	29
53	Conifold transitions in M-theory on Calabi-Yau fourfolds with background fluxes. Advances in Theoretical and Mathematical Physics, 2013, 17, 601-699.	0.6	29
54	Quivers from Matrix Factorizations. Communications in Mathematical Physics, 2012, 313, 607-633.	2.2	27

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55	Perturbative Corrections to Kähler Moduli Spaces. Communications in Mathematical Physics, 2015, 333, 1563-1584.	2.2	26
56	The landscape of M-theory compactifications on seven-manifolds with G2 holonomy. Journal of High Energy Physics, 2015, 2015, 1.	4.7	25
57	Infinitely many M2-instanton corrections to M-theory on G2-manifolds. Journal of High Energy Physics, 2018, 2018, 1.	4.7	22
58	Semistable degenerations of Enriques' and hyperelliptic surfaces. Duke Mathematical Journal, 1981, 48, 197.	1.5	21
59	On the global symmetries of 6D superconformal field theories. Journal of High Energy Physics, 2016, 2016, 1.	4.7	21
60	5321-5337.	1.1	20
61	Tall sections from non-minimal transformations. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
62	Exotic matter on singular divisors in F-theory. Journal of High Energy Physics, 2017, 2017, 1.	4.7	19
63	Localized tachyons inC3/ZN. Journal of High Energy Physics, 2004, 2004, 047-047.	4.7	16
64	Non-Higgsable abelian gauge symmetry and F-theory on fiber products of rational elliptic surfaces. Advances in Theoretical and Mathematical Physics, 2018, 22, 177-245.	0.6	16
65	Threefold flops via matrix factorization. Journal of Algebraic Geometry, 2013, 22, 599-627.	0.9	15
66	F-theory and unpaired tensors in 6D SCFTs and LSTs. Fortschritte Der Physik, 2016, 64, 645-656.	4.4	15
67	High electric charges in M-theory from quiver varieties. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
68	On tachyons, gauged linear sigma models, and flip transitions. Journal of High Energy Physics, 2005, 2005, 062-062.	4.7	14
69	On gauge enhancement and singular limits in G 2 compactifications of M-theory. Journal of High Energy Physics, 2016, 2016, 1-43.	4.7	11
70	A remark on Kawamata's paper ?On the plurigenera of minimal algebraic 3-folds withK?0?. Mathematische Annalen, 1986, 275, 547-553.	1.4	8
71	Charge completeness and the massless charge lattice in F-theory models of supergravity. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
72	Gromov–Witten invariants and localization. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 443004.	2.1	7

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73	SU(N) Transitions in M-Theory on Calabi–Yau Fourfolds and Background Fluxes. Communications in Mathematical Physics, 2017, 351, 837-871.	2.2	5
74	Conformal field theories and compact curves in moduli spaces. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
75	Minimal models and degenerations of surfaces with Kodaira number zero. Transactions of the American Mathematical Society, 1994, 343, 525-558.	0.9	3
76	Special Lagrangian torus fibrations of complete intersection Calabi–Yau manifolds: A geometric conjecture. Nuclear Physics B, 2015, 898, 751-770.	2.5	2
77	Non-perturbative heterotic duals of M-theory on G2 orbifolds. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1