

Martin Rocek

List of Publications by Year in descending order

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115
papers

7,697
citations

50276

46
h-index

49909

87
g-index

116
all docs

116
docs citations

116
times ranked

1510
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved methods for supergraphs. Nuclear Physics B, 1979, 159, 429-450.	2.5	771
2	Hyperkähler metrics and supersymmetry. Communications in Mathematical Physics, 1987, 108, 535-589.	2.2	759
3	Twisted multiplets and new supersymmetric non-linear \tilde{F} -models. Nuclear Physics B, 1984, 248, 157-186.	2.5	608
4	Duality, quotients, and currents. Nuclear Physics B, 1992, 373, 630-646.	2.5	385
5	Scalar tensor duality and $N = 1, 2$ non-linear \tilde{F} -models. Nuclear Physics B, 1983, 222, 285-308.	2.5	240
6	Linearizing the Volkov-Akulov Model. Physical Review Letters, 1978, 41, 451-453.	7.8	221
7	Self-interacting tensor multiplets in $N = 2$ superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 147, 297-300.	4.1	199
8	New hyperkähler metrics and new supermultiplets. Communications in Mathematical Physics, 1988, 115, 21-29.	2.2	179
9	On nonabelian duality. Nuclear Physics B, 1994, 421, 173-187.	2.5	162
10	Zero Value for the Three-Loop β -Function in $N=4$ Supersymmetric Yang-Mills Theory. Physical Review Letters, 1980, 45, 1063-1066.	7.8	160
11	Constrained local superfields. Physical Review D, 1979, 19, 2300-2303.	4.7	153
12	Partial breaking of global $D=4$ supersymmetry, constrained superfields, and 3-brane actions. Physical Review D, 1999, 59, .	4.7	146
13	Generalized duality in curved string backgrounds. Nuclear Physics B, 1992, 380, 128-146.	2.5	142
14	$N=2$ super Yang-Mills theory in projective superspace. Communications in Mathematical Physics, 1990, 128, 191-196.	2.2	130
15	Nonlinear \tilde{F} -models and their gauging in and out of superspace. Nuclear Physics B, 1986, 266, 1-44.	2.5	127
16	Representation theory of the nonlinear $SU(2)$ algebra. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 255, 554-557.	4.1	122
17			

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19	Hypermultiplets, hyperkahler cones and quaternion-Kahler geometry. Journal of High Energy Physics, 2001, 2001, 039-039.	4.7	109
20	Vanishing One-Loop $\hat{\rho}^2$ Function in Gauged $N=4$ Supergravity. Physical Review Letters, 1980, 45, 161-164.	7.8	100
21	Off-shell WZW models in extended superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 265, 303-306.	4.1	100
22	Effective Kähler potentials. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 383, 415-421.	4.1	95
23	New supersymmetric \tilde{f} -models with Wess-Zumino terms. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 202, 94-98.	4.1	93
24	$N=2$ supersymmetric Chern-Simons terms as $d=3$ extended conformal supergravity. Classical and Quantum Gravity, 1986, 3, 43-53.	4.0	82
25	Generalized Kähler Manifolds and Off-shell Supersymmetry. Communications in Mathematical Physics, 2007, 269, 833-849.	2.2	82
26	On off-shell supermultiplets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1981, 105, 275-277.	4.1	70
27	The superhiggs effect in superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 120, 110-118.	4.1	70
28	Improved tensor multiplets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 109, 439-443.	4.1	68
29	Feynman rules in $N = 2$ projective superspace (I). Massless hypermultiplets. Nuclear Physics B, 1998, 516, 426-448.	2.5	66
30	Lorentz-covariant quantization of the heterotic superstring. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 225, 44-48.	4.1	63
31	Nonperturbative Corrections to 4D String Theory Effective Actions from $SL(2,Z)$ Duality and Supersymmetry. Physical Review Letters, 2007, 98, 211602.	7.8	63
32	A note on area variables in Regge calculus. Classical and Quantum Gravity, 1999, 16, 1373-1376.	4.0	62
33	Chromatic polynomials for families of strip graphs and their asymptotic limits. Physica A: Statistical Mechanics and Its Applications, 1998, 252, 505-546.	2.6	56
34	On conformal supergravity and projective superspace. Journal of High Energy Physics, 2009, 2009, 023-023.	4.7	55
35	Self-dual effective action of $N = 4$ super-Yang-Mills. Nuclear Physics B, 1999, 544, 218-242.	2.5	53
36	Properties of Hyperkähler Manifolds and Their Twistor Spaces. Communications in Mathematical Physics, 2010, 293, 257-278.	2.2	52

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37	Superloops 3, beta 0: A calculation in $N = 4$ Yang-Mills theory. Nuclear Physics B, 1981, 183, 141-156.	2.5	51
38	Complex structures, duality and WZW-models in extended superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 343, 133-143.	4.1	51
39	Lorentz-covariant quantization of the superparticle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 224, 285-287.	4.1	50
40	Super-Higgs effect in a new class of scalar models and a model of super QED. Physical Review D, 1977, 16, 3427-3436.	4.7	49
41	Superspace path integral measure of the $N = 1$ spinning string. Annals of Physics, 1986, 172, 348-370.	2.8	48
42	Supersymmetric $\check{I}f$ -models, twistors, and the Atiyah-Hitchin metric. Communications in Mathematical Physics, 1996, 182, 291-302.	2.2	48
43	Nonholomorphic $N=2$ terms in $N=4$ super Yang-Mills theory: 1-loop calculation in $N=2$ superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 303-311.	4.1	48
44	Gauging isometries on hyperkähler cones and quaternion-Kähler manifolds. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 511, 302-310.	4.1	47
45	Three-loop finiteness of the $N = 4$ supersymmetric non-linear $\check{I}f$ model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1980, 96, 72-76.	4.1	46
46	Hypermultiplets and topological strings. Journal of High Energy Physics, 2006, 2006, 062-062.	4.7	46
47	On dual 3-brane actions with partially broken $N = 2$ supersymmetry. Nuclear Physics B, 1999, 544, 243-264.	2.5	43
48	Chromatic polynomials for $J(\hat{a}^H)$ strip graphs and their asymptotic limits. Physica A: Statistical Mechanics and Its Applications, 1998, 259, 367-387.	2.6	42
49	Regularized BRST-coordinate-invariant measure. Physical Review D, 1988, 37, 391-405.	4.7	41
50	Supersymmetric string vacua on $AdS_3 \times S^3$ — Script N. Journal of High Energy Physics, 1999, 1999, 019-019.	4.7	35
51	Consistent boundary conditions for open strings. Nuclear Physics B, 2003, 662, 147-169.	2.5	34
52	A gravitational first-order action for the bosonic string. Classical and Quantum Gravity, 1987, 4, L79-L81.	4.0	33
53	Generalized Kähler geometry and manifest Script $N = (2,2)$ supersymmetric nonlinear sigma-models. Journal of High Energy Physics, 2005, 2005, 067-067.	4.7	32
54	Covariantly quantizable superparticles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 235, 106-112.	4.1	30

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55	Quantum corrections to the universal hypermultiplet and superspace. <i>Physical Review D</i> , 2004, 70, .	4.7	30
56	Superconformal gravity in three dimensions as a gauge theory. <i>Physical Review Letters</i> , 1989, 62, 2905-2906.	7.8	29
57	New $N = 4$ superfields and \tilde{f} -models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 328, 49-54.	4.1	29
58	Covariant superparticle quantization in a super Maxwell background. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 227, 87-91.	4.1	28
59	On $N = 2$ low energy effective actions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 388, 581-587.	4.1	27
60	Noncommutative solitons: moduli spaces, quantization, finite \hat{I} , effects and stability. <i>Journal of High Energy Physics</i> , 2001, 2001, 040-040.	4.7	27
61	Cepstral and direct analysis of electron spin resonance spectra of substituted triarylamminium cation radicals. Correlation of spin distribution with substituent constants. <i>The Journal of Physical Chemistry</i> , 1978, 82, 1185-1192.	2.9	26
62	Dualities and phases of $3d \mathcal{N}=1$ SQCD. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	26
63	Gauge-fixing redundant symmetries in the superparticle. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 228, 53-56.	4.1	25
64	Non-commutative soliton scattering. <i>Journal of High Energy Physics</i> , 2000, 2000, 004-004.	4.7	24
65	New $\langle N \rangle = (2, 2)$ vector multiplets. <i>Journal of High Energy Physics</i> , 2007, 2007, 008-008.	4.7	23
66	Massive, self-interacting scalar multiplet coupled to supergravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1977, 69, 186-188.	4.1	22
67	$N = 1$ superspace geometry of extended supergravity. <i>Nuclear Physics B</i> , 1984, 243, 221-252.	2.5	21
68	Hyperkähler manifolds and nonlinear supermultiplets. <i>Communications in Mathematical Physics</i> , 1987, 108, 529-534.	2.2	21
69	Construction of the covariantly quantized heterotic superstring. <i>Nuclear Physics B</i> , 1990, 330, 19-48.	2.5	21
70	Hyperkahler cones and orthogonal Wolf spaces. <i>Journal of High Energy Physics</i> , 2002, 2002, 064-064.	4.7	21
71	Three-dimensional $N=2$ supergravity theories: From superspace to components. <i>Physical Review D</i> , 2014, 89, .	4.7	21
72	A super-Weyl-invariant spinning membrane. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 218, 207-209.	4.1	20

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73	A note on the Seiberg-Witten solution of $N = 2$ super Yang-Mills theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 355, 492-493.	4.1	19
74	$N = 2$ super Yang-Mills low-energy effective action at two loops. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 251-256.	4.1	19
75	Linearizing generalized Kähler geometry. Journal of High Energy Physics, 2007, 2007, 061-061.	4.7	18
76	$N=1$ superspace components of extended supergravity. Classical and Quantum Gravity, 1984, 1, 227-232.	4.0	17
77	Supersymmetric sigma models with non-vanishing Nijenhuis tensor and their operator product expansion. Nuclear Physics B, 1989, 324, 523-531.	2.5	17
78	On the covariant quantization of a first-class superparticle. Journal of Mathematical Physics, 1990, 31, 1761-1769.	1.1	17
79	On the BRST operator structure of the $N = 2$ string. Nuclear Physics B, 1993, 400, 145-160.	2.5	17
80	Generalized Kähler geometry and gerbes. Journal of High Energy Physics, 2009, 2009, 062-062.	4.7	17
81	Hyperkähler quotients and algebraic curves. Journal of High Energy Physics, 2000, 2000, 022-022.	4.7	16
82	Nonabelian generalized gauge multiplets. Journal of High Energy Physics, 2009, 2009, 020-020.	4.7	15
83	Three-dimensional Einstein gravity and Regge calculus. Classical and Quantum Gravity, 1985, 2, 701-706.	4.0	14
84	Supersymmetric vector-vector duality. Classical and Quantum Gravity, 1987, 4, 549-553.	4.0	14
85	T-duality and generalized Kähler geometry. Journal of High Energy Physics, 2008, 2008, 056-056.	4.7	14
86	On Calabi-Yau supermanifolds. Advances in Theoretical and Mathematical Physics, 2005, 9, 315-320.	0.6	13
87	Components of superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 79, 217-218.	4.1	12
88	More components of superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 83, 179-184.	4.1	12
89	Degeneration of ALF D_n metrics. Journal of High Energy Physics, 1999, 1999, 009-009.	4.7	12
90	Generalized Calabi-Yau metric and generalized Monge-Ampère equation. Journal of High Energy Physics, 2010, 2010, 1.	4.7	12

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91	Supersymmetry and nonlinear \tilde{f} -models. <i>Physica D: Nonlinear Phenomena</i> , 1985, 15, 75-82.	2.8	11
92	The geometry of duality. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1986, 168, 89-92.	4.1	11
93	Supersymmetric nonlinear Maxwell theories and the string effective action. <i>Nuclear Physics B</i> , 1987, 294, 498-504.	2.5	11
94	D=2 null superspaces. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991, 271, 79-84.	4.1	11
95	Bosonic and spinning Weyl-invariant rigid strings. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1988, 201, 63-66.	4.1	10
96	Supersymmetric regularized path-integral measure in n space. <i>Physical Review D</i> , 1988, 37, 3588-3604.	4.7	10
97	Homotopy algebras of differential (super)forms in three and four dimensions. <i>Letters in Mathematical Physics</i> , 2018, 108, 2669-2694.	1.1	9
98	The component gauges in supergravity. <i>Nuclear Physics B</i> , 1981, 191, 549-573.	2.5	6
99	Time dependent solitons of noncommutative Chern-Simons theory coupled to scalar fields. <i>Physical Review D</i> , 2004, 69, .	4.7	6
100	Ricci-flat supertwistor spaces. <i>Journal of High Energy Physics</i> , 2006, 2006, 163-163.	4.7	6
101	Sigma models with off-shell $N = (4, 4)$ supersymmetry and noncommuting complex structures. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	6
102	Generalized Kähler geometry in $(2, 1)$ superspace. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	6
103	Effective actions and gauge field stability. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 363, 173-179.	4.1	4
104	A gravitational effective action on a finite triangulation. <i>Journal of High Energy Physics</i> , 2006, 2006, 021-021.	4.7	4
105	On gauged linear sigma models with torsion. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	4
106	3D dualities and supersymmetry enhancement from domain walls. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	4
107	A potential for generalized Kähler geometry. , 2010, , 263-273.		4
108	ADE-quiver theories and mirror symmetry. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2001, 102-103, 3-10.	0.4	3

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109	Off-shell $N = (4, 4)$ supersymmetry for new $(2, 2)$ vector multiplets. Journal of High Energy Physics, 2011, 2011, 1.	4.7	3
110	Semichiral Sigma models with 4D hyperkähler geometry. Journal of High Energy Physics, 2013, 2013, 1.	4.7	3
111	$\hat{2}^3$ -systems interacting with sigma-models. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
112	Orientifolding in $N = 2$ superspace. Fortschritte Der Physik, 2007, 55, 615-620.	4.4	1
113	Yang-Mills fields for cosets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 389, 299-304.	4.1	0
114	Generalized Kähler structures on group manifolds and T-duality. Journal of High Energy Physics, 2018, 2018, 1.	4.7	0
115	Quaternion-Kähler spaces, hyper-Kähler cones, and the c-map. , 2010, , 3-13.		0