

Aharon Davidson

List of Publications by Year in descending order

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96
papers

1,828
citations

331259

21
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288905

40
g-index

96
all docs

96
docs citations

96
times ranked

3076
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal seesaw mechanism?. Physical Review Letters, 1987, 59, 393-395.	2.9	195
2	B \tilde{L} as the fourth color within an $SU(2)_L \times U(1)_R \times U(1)$ model. Physical Review D, 1979, 20, 776-783.	1.6	182
3	Black holes as windows to extra dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 155, 247-250.	1.5	126
4	Minimal Flavor Unification via Multigenerational Peccei-Quinn Symmetry. Physical Review Letters, 1982, 48, 11-14.	2.9	99
5	Dirac quantization of the Pais-Uhlenbeck fourth order oscillator. Physical Review A, 2005, 71, .	1.0	82
6	$U(1)$ as the Minimal Horizontal Gauge Symmetry. Physical Review Letters, 1979, 43, 92-96.	2.9	81
7	Geodetic brane gravity. Physical Review D, 2003, 67, .	1.6	63
8	Family mass hierarchy from universal seesaw mechanism. Physical Review Letters, 1988, 60, 1813-1816.	2.9	58
9	Quark masses and mixing angles from universal seesaw mechanism. Physical Review D, 1990, 41, 208-218.	1.6	52
10	Minimal anomaly-free electroweak model for several generations. Physical Review D, 1979, 20, 1195-1206.	1.6	39
11	Peccei-Quinn symmetry as flavor symmetry and grand unification. Physical Review D, 1984, 29, 1504-1512.	1.6	36
12	Mixing angles and CP violation in the $SO(10) \times U(1)$ PQ model. Physical Review D, 1984, 29, 1513-1519.	1.6	34
13	QUANTUM GRAVITY OF A BRANE-LIKE UNIVERSE. Modern Physics Letters A, 1998, 13, 2187-2192.	0.5	34
14	$SU(5)_L \times SU(5)_R$ hybrid unification. Physical Review Letters, 1987, 58, 2623-2626.	2.9	32
15	cosmology of a brane-like universe. Classical and Quantum Gravity, 1999, 16, 653-659.	1.5	32
16	Wavefunction of a brane-like universe. Classical and Quantum Gravity, 1999, 16, 1349-1356.	1.5	31
17	Horizontal Flavor Chirality, the Canonical Fermion Mass Matrix, and an Alternative CP-Nonconservation Scenario. Physical Review Letters, 1981, 46, 691-694.	2.9	29
18	Multigenerational Flavor-Color-Hypercolor Unification. Physical Review Letters, 1980, 45, 1135-1138.	2.9	28

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19	Abelian self-interaction of a test loop. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 213, 439-442.	1.5	25
20	The horizontal axion alternative. Nuclear Physics B, 1984, 248, 647-670.	0.9	24
21	Cosmological compactification. Physical Review D, 1985, 32, 1330-1332.	1.6	22
22	Elementary particles as higher-dimensional tachyons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 177, 77-81.	1.5	21
23	Quark mass hierarchies from the universal seesaw mechanism. Physical Review D, 1994, 49, 1378-1388.	1.6	20
24	Finite magnetic flux tube as a black&white dihole. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 339, 304-308.	1.5	20
25	Dirac relaxation of the Israel junction conditions: Unified Randall-Sundrum brane theory. Physical Review D, 2006, 74, .	1.6	19
26	Extensible Embeddings of Black-Hole Geometries. Foundations of Physics, 2000, 30, 785-794.	0.6	17
27	$S^2 \times U(1) \times T^2$	1.6	17
28	Electric monopole with internal magnetic-monopole-like structure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 251, 250-253.	1.5	16
29	Quantum black hole wave packet: Average area entropy and temperature dependent width. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 267-271.	1.5	16
30	Horizontal gauge symmetry as a natural CP-violation source at the two-generation level. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 86, 47-51.	1.5	15
31	Horizontal-quantum-flavor-dynamics approach to the fermion mass spectrum. Physical Review D, 1980, 21, 787-801.	1.6	15
32	Non-Abelian Self-Interaction of a Test Loop. Physical Review Letters, 1988, 61, 1450-1452.	2.9	15
33	Gravitational bags. Physical Review D, 1986, 34, 3264-3267.	1.6	14
34	The effective early universe in the presence of extra dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 168, 183-186.	1.5	13
35	Rippled cosmological dark matter from a damped oscillating Newton constant. Classical and Quantum Gravity, 2005, 22, 1119-1127.	1.5	13
36	Vertical-horizontal symmetric minimal grand-unification. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1980, 90, 87-90.	1.5	12

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37	Gravitational bags and solitary cosmological evolution. Nuclear Physics B, 1989, 313, 693-710.	0.9	12
38	Zero cosmological constant from normalized general relativity. Classical and Quantum Gravity, 2009, 26, 235019.	1.5	12
39	Holographic shell model: Stack data structure inside black holes?. International Journal of Modern Physics D, 2014, 23, 1450041.	0.9	12
40	Formulating weak CP-nonconservation in terms of quark mass hierarchies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 122, 412-416.	1.5	11
41	Dynamical axion for dynamical electro-weak symmetry breaking. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 261, 431-436.	1.5	11
42	Neutrino masses and the next energy scale. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1981, 98, 183-187.	1.5	10
43	On the Newton-Coulomb unification. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 166, 123-126.	1.5	10
44	Local and global aspects of charge-current generating world-sheet scalar potentials. Nuclear Physics B, 1991, 349, 581-597.	0.9	10
45	From Planck area to graph theory: Topologically distinct black hole microstates. Physical Review D, 2019, 100, .	1.6	10
46	Extended Hypercolor and the Cabibbo Angle. Physical Review Letters, 1981, 47, 149-152.	2.9	9
47	Domain walls - horizontal epilogue. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 141, 177-180.	1.5	9
48	Geodesic evolution and nucleation of a de Sitter brane. Physical Review D, 2005, 72, .	1.6	8
49	Normalized general relativity: Nonclosed universe and a zero cosmological constant. Physical Review D, 2014, 89, .	1.6	8
50	Symmetric versus antisymmetric mass matrices in grand unified theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1980, 94, 359-363.	1.5	7
51	Threefold family of charged spin- Dirac bubbles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 300, 234-240.	1.5	7
52	Cosmic solenoids: Minimal cross section and generalized flux quantization. Physical Review D, 1999, 60, .	1.6	7
53	Is the generation structure a signature of semi-simple grand unification?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1980, 93, 183-186.	1.5	6
54	Hypercolor, extended hypercolor, and the generation problem. Physical Review D, 1982, 26, 1133-1156.	1.6	6

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55	Tachyonic compactification. <i>Physical Review D</i> , 1987, 35, 1811-1814.	1.6	6
56	Brane variation Dirac style. <i>Classical and Quantum Gravity</i> , 2004, 21, 1295-1302.	1.5	6
57	Clash of symmetries in a Randall-Sundrum-like spacetime. <i>Physical Review D</i> , 2005, 72, .	1.6	6
58	Full quark-lepton correspondence within a multigeneration $SU(2)_L \times U(1)$ -based model. <i>Physical Review D</i> , 1979, 20, 2416-2420.	1.6	5
59	Towards a canonical fermi mass matrix for a pure generation structure. <i>Nuclear Physics B</i> , 1981, 193, 453-476.	0.9	5
60	Multigeneration $SU(N)_C \times SU(N)$ flavor unifying schemes. <i>Physical Review D</i> , 1981, 23, 477-489.	1.6	5
61	Do 't Hooft Anomaly Equations Know about Georgi-Glashow Grand Unification?. <i>Physical Review Letters</i> , 1983, 50, 1339-1342.	2.9	5
62	Can a 17 KeV neutrino be a genuine piece of the generation puzzle?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991, 268, 89-95.	1.5	5
63	HOLLOWGRAPHY DRIVEN HOLOGRAPHY: BLACK HOLE WITH VANISHING VOLUME INTERIOR. <i>International Journal of Modern Physics D</i> , 2010, 19, 2345-2351.	0.9	5
64	Holographic Entropy Packing inside a Black Hole. <i>Physical Review Letters</i> , 2011, 106, 151301.	2.9	5
65	Slinky evolution of domain wall brane cosmology. <i>Physical Review D</i> , 2012, 86, .	1.6	5
66	Hydrogen-like spectrum of spontaneously created brane universes with de-Sitter ground state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 780, 29-33.	1.5	5
67	Brane gravitational extension of Dirac's \hat{e} -extensible model of the electron TM . <i>Classical and Quantum Gravity</i> , 2009, 26, 235006.	1.5	4
68	Can an evolving Universe host a static event horizon?. <i>Physical Review D</i> , 2012, 86, .	1.6	4
69	Schwarzschild mass uncertainty. <i>General Relativity and Gravitation</i> , 2014, 46, 1.	0.7	4
70	Complex rishon-type unification. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983, 123, 299-302.	1.5	3
71	Kaluza-Klein straw as a string-guide. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 223, 149-152.	1.5	3
72	Linking the geometric mass hierarchy with threefold family replication. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1999, 25, 1571-1588.	1.4	3

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73	Radiation-driven inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 001.	1.9	3
74	RESTORING TIME DEPENDENCE INTO QUANTUM COSMOLOGY. <i>International Journal of Modern Physics D</i> , 2012, 21, 1242011.	0.9	3
75	Frozen up dilaton and the GUT/Planck mass ratio. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 772, 5-9.	1.5	3
76	The link between the emergence of the GIM mechanism and the nature of the neutral-current parity violation. <i>Nuclear Physics B</i> , 1980, 175, 175-188.	0.9	2
77	Extended Hypercolor and The Cabibbo Angle.. <i>Physical Review Letters</i> , 1981, 47, 620-620.	2.9	2
78	Supersymmetric unified compositeness and the quark-lepton generation structure. <i>Physical Review D</i> , 1985, 31, 1127-1131.	1.6	2
79	Visible effects of apparently invisible solenoids. <i>Physical Review Letters</i> , 1990, 65, 145-148.	2.9	2
80	symmetric geometric mass hierarchy. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1998, 24, L55-L62.	1.4	2
81	Extensible gravitational Dirac models of the electron. <i>Classical and Quantum Gravity</i> , 2011, 28, 125005.	1.5	2
82	Is spacetime absolutely or just most probably Lorentzian?. <i>Classical and Quantum Gravity</i> , 2016, 33, 165009.	1.5	2
83	Sakata-like electro/weak model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1979, 83, 73-76.	1.5	1
84	Hyperleptonic generations in unifying schemes. <i>Physical Review D</i> , 1983, 27, 2199-2203.	1.6	1
85	Dyonic bound states from local compactification. <i>Physical Review D</i> , 1986, 33, 3152-3154.	1.6	1
86	Einstein Corpuscles and Dark Core Black Holes in Spontaneously induced General Relativity. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	1
87	On the problem of vacuum energy in brane theories. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 679, 515-518.	1.5	1
88	Unified brane gravity: Cosmological dark matter from a scale dependent Newton constant. <i>Physical Review D</i> , 2009, 80, .	1.6	1
89	Spontaneously induced general relativity: Holographic interior for Reissner-Nordstrom exterior. <i>Physical Review D</i> , 2011, 84, .	1.6	1
90	Ricci Linear Weyl/Maxwell Mutual Sourcing. <i>Universe</i> , 2020, 6, 151.	0.9	1

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91	Local scale invariant Kaluza-Klein reduction. Physical Review D, 2020, 102, .	1.6	1
92	Baryon-number violation by chiral-color axiinstantons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 194, 247-250.	1.5	0
93	GENERALIZED BELINSKYâ€™RUFFINI GEOMETRY. Modern Physics Letters A, 1991, 06, 2189-2195.	0.5	0
94	Kalb-Ramond-invariant locally non-trivial (P/CP-violating superconductivity in four dimensions). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 314, 64-68.	1.5	0
95	Mini-superspace universality and no-scale quantum cosmology. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134945.	1.5	0
96	DARK ENERGY/MATTER UNIFICATION. , 2003, , .		0