

Itzhak Goldman

List of Publications by Year in descending order

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57
papers

1,205
citations

623734

14
h-index

361022

35
g-index

57
all docs

57
docs citations

57
times ranked

1030
citing authors

#	ARTICLE	IF	CITATIONS
1	Stellar Turbulent Convection: A Self-consistent Model. <i>Astrophysical Journal</i> , 1996, 473, 550-559.	4.5	234
2	Weakly interacting massive particles and neutron stars. <i>Physical Review D</i> , 1989, 40, 3221-3230.	4.7	203
3	Experimental Test of the Variability of G Using Viking Lander Ranging Data. <i>Physical Review Letters</i> , 1983, 51, 1609-1612.	7.8	199
4	Implications of the supernova SN1987A neutrino signals. <i>Physical Review Letters</i> , 1988, 60, 1789-1792.	7.8	82
5	Possible implications of asymmetric fermionic dark matter for neutron stars. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 725, 200-207.	4.1	46
6	Interpretation of the Spatial Power Spectra of Neutral Hydrogen in the Galaxy and in the Small Magellanic Cloud. <i>Astrophysical Journal</i> , 2000, 541, 701-706.	4.5	46
7	Analytical Model for Large-Scale Turbulence. <i>Physical Review Letters</i> , 1985, 54, 430-433.	7.8	41
8	On the orbital circularization of close binaries. <i>Astrophysical Journal</i> , 1991, 376, 260.	4.5	37
9	Atomic and gravitational clocks. <i>Nature</i> , 1982, 296, 709-713.	27.8	32
10	A model for fully developed turbulence. <i>Physics of Fluids</i> , 1987, 30, 3391.	1.4	31
11	Astrophysical consequences of a violation of the strong equivalence principle. <i>Nature</i> , 1983, 304, 311-315.	27.8	30
12	Bounds on neutron-mirror neutron mixing from pulsar timing. <i>Physical Review D</i> , 2019, 100, .	4.7	27
13	Turbulently generated magnetic fields in clusters of galaxies. <i>Astrophysical Journal</i> , 1991, 380, 344.	4.5	25
14	A formula for the Shakura-Sunyaev turbulent viscosity parameter. <i>Astrophysical Journal</i> , 1984, 280, L55.	4.5	24
15	The orbital evolution of highly eccentric binaries. <i>Astrophysical Journal</i> , 1994, 429, 362.	4.5	11
16	Turbulent convection in thin accretion disks. <i>Astrophysical Journal</i> , 1995, 443, 187.	4.5	11
17	Spectra from the shocked nebulae revealing turbulence near the Galactic Centre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 411, 792-806.	4.4	10
18	Similarities between the inner solar system and the planetary system of the PSR B1257+12. <i>Publications of the Astronomical Society of the Pacific</i> , 1995, 107, 250.	3.1	9

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19	Testing for a cosmological influence on local physics using atomic and gravitational clocks. <i>Physical Review D</i> , 1983, 28, 1822-1828.	4.7	8
20	Testing the strong equivalence principle by radio ranging. <i>Astrophysical Journal</i> , 1984, 276, 1.	4.5	8
21	Title is missing!. <i>Acta Physica Polonica B</i> , 2011, 42, 2203.	0.8	7
22	A cosmological model in the bimetric gravitation theory. <i>Astrophysical Journal</i> , 1977, 212, 602.	4.5	7
23	Limit on continuous neutrino emission from neutron stars. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	6
24	The Strong Equivalence Principle and its Violation. , 1983, , 485-492.		6
25	Experimental test of the variability of G using Viking lander ranging data. <i>International Journal of Theoretical Physics</i> , 1989, 28, 1035-1041.	1.2	5
26	Baryon number of a uniformly rotating cold star. <i>Physical Review D</i> , 1990, 42, 3386-3387.	4.7	5
27	The effective tidal viscosity in close solar-type binaries. <i>Astronomische Nachrichten</i> , 2008, 329, 762-765.	1.2	5
28	Solar luminosity bounds on mirror matter. <i>Physical Review D</i> , 2020, 101, .	4.7	5
29	Binding energy and stability of a cold neutron star. <i>Astrophysical Journal</i> , 1978, 225, 708.	4.5	5
30	Cosmic turbulence revisited. <i>Astrophysical Journal</i> , 1993, 409, 495.	4.5	5
31	Inertial and gravitational masses in the bimetric theory of gravitation. <i>General Relativity and Gravitation</i> , 1976, 7, 681-685.	2.0	4
32	SN1987A supernova: a black-hole precursor?. <i>Nature</i> , 1987, 329, 134-135.	27.8	4
33	New general-relativistic expression for the baryon number of a cold star. <i>Physical Review D</i> , 1989, 40, 327-328.	4.7	4
34	Some cosmological models in the bimetric theory of gravitation. <i>General Relativity and Gravitation</i> , 1976, 7, 895-901.	2.0	3
35	PSR 0655 + 64 - an astrophysical laboratory for testing relativistic gravity theories. <i>Astrophysical Journal</i> , 1992, 390, 494.	4.5	3
36	Decrease of gravitational mass due to neutrino emission and shock revival in supernovae. <i>Astrophysical Journal</i> , 1993, 403, 706.	4.5	3

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37	SN1987A – a testing ground for the KARMEN anomaly. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 481, 151-159.	4.1	2
38	The Power Spectrum and Structure Function of the Gamma-Ray Emission from the Large Magellanic Cloud. Astrophysical Journal, 2021, 915, 117.	4.5	2
39	Interpretation of the power spectrum of the quiet Sun photospheric turbulence. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5363-5365.	4.4	2
40	Extremality of mass in the bimetric theory of gravitation. General Relativity and Gravitation, 1977, 8, 617-621.	2.0	1
41	Plane waves in the bimetric gravitation theory. General Relativity and Gravitation, 1978, 9, 575-583.	2.0	1
42	Why a variable G?. Astrophysics and Space Science, 1982, 86, 225-227.	1.4	1
43	The Strong Equivalence Principle and its Violation. Symposium - International Astronomical Union, 1983, 104, 485-492.	0.1	1
44	Astrophysical consequences of a violation of the strong equivalence principle. International Journal of Theoretical Physics, 1989, 28, 1019-1033.	1.2	1
45	Lessons Drawn from Implementation of Online Tutoring System in Physics Courses. , 2006, , .		1
46	Revisiting the structure function of PSR B0950+08 scintillations. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4493-4496.	4.4	1
47	Analytic derivation of the inertial range of compressible turbulence. Physics of Fluids, 2021, 33, 071706.	4.0	1
48	A universe embedded in a five-dimensional flat space. General Relativity and Gravitation, 1971, 2, 367-384.	2.0	0
49	Gravitation Theory and Oscillating Universe. Physical Review D, 1972, 5, 1285-1287.	4.7	0
50	Large number hypothesis and the matter-dominated universe. International Journal of Theoretical Physics, 1982, 21, 665-672.	1.2	0
51	The opacity of the universe and the strong equivalence principle. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 95, 65-68.	2.1	0
52	The Young Sun, The Early Earth and the Photochemistry of Oxygen, Ozone and Formaldehyde in the Early Atmosphere. Studies in Environmental Science, 1986, 26, 51-102.	0.0	0
53	Generation and Implications of Post-Merger Turbulence in Clusters of Galaxies. Symposium - International Astronomical Union, 1998, 188, 297-298.	0.1	0
54	The SMC super-shells as probes of the turbulent dynamics of the ISM. Proceedings of the International Astronomical Union, 2006, 2, 96-100.	0.0	0

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55	QCD effects on "stable" micro black holes at the LHC. Journal of High Energy Physics, 2009, 2009, 058-058.	4.7	0
56	Shock-generated turbulence in the innermost 50 pc of the galaxy center. , 2012, , .		0
57	Limits on Long-Range Fields Derived from Binary Radio Pulsars. Astrophysical Journal, 1996, 460, 390.	4.5	0