

# Glenn D Starkman

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151  
papers

6,135  
citations

41  
h-index

75  
g-index

161  
ext. papers

6,744  
ext. citations

5  
avg, IF

5.82  
L-index

#	Paper	IF	Citations
151	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , <b>2022</b> , 926, 54	4.7	9
150	Cosmology Intertwined: A Review of the Particle Physics, Astrophysics, and Cosmology Associated with the Cosmological Tensions and Anomalies. <i>Journal of High Energy Astrophysics</i> , <b>2022</b> , 34, 49-49	2.5	17
149	Straight lightning as a signature of macroscopic dark matter. <i>Physical Review D</i> , <b>2021</b> , 103,	4.9	2
148	Reconsidering astrophysical constraints on macroscopic dark matter. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	4
147	Linear point and sound horizon as purely geometric standard rulers. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	6
146	Death and serious injury from dark matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 803, 135300	4.2	5
145	Antimatter as macroscopic dark matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 807, 135574	4.2	5
144	Waves from the centre: probing PBH and other macroscopic dark matter with LISA. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	5
143	Hemispherical variance anomaly and reionization optical depth. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 499, 3563-3570	4.3	1
142	Limited accuracy of linearized gravity. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	12
141	CMB spectral distortions from cooling macroscopic dark matter. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	4
140	Macro detection using fluorescence detectors. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2019</b> , 2019, 037-037	6.4	8
139	Cosmic distance inference from purely geometric BAO methods: Linear point standard ruler and correlation function model fitting. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	13
138	Cosmic expansion from spinning black holes. <i>Classical and Quantum Gravity</i> , <b>2019</b> , 36, 195009	3.3	4
137	Counter-top search for macroscopic dark matter. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	4
136	Macroscopic dark matter constraints from bolide camera networks. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	9
135	Exploring suppressed long-distance correlations as the cause of suppressed large-angle correlations. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 490, 5174-5181	4.3	2

134	Manual of BlackMax. A black-hole event generator with rotation, recoil, split branes, and brane tension. Version 2.02. <i>Computer Physics Communications</i> , <b>2019</b> , 236, 285-301	4.2	2
133	Galaxy Correlation Functions Provide a More Robust Cosmological Standard Ruler. <i>Physical Review Letters</i> , <b>2018</b> , 121, 021302	7.4	14
132	Linear point standard ruler for galaxy survey data: Validation with mock catalogs. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	11
131	Strong lensing constraints on modified gravity models. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	1
130	Reconsidering seismological constraints on the available parameter space of macroscopic dark matter. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	6
129	A cosmologically motivated reference formulation of numerical relativity. <i>Classical and Quantum Gravity</i> , <b>2017</b> , 34, 214001	3.3	13
128	Simulating the universe. <i>Physics World</i> , <b>2017</b> , 30, 20-23	0.5	
127	General relativistic corrections to the weak lensing convergence power spectrum. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	12
126	CMB-S4 and the hemispherical variance anomaly. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 470, 372-378	4.3	6
125	Publisher's Note: Reconsidering seismological constraints on the available parameter space of macroscopic dark matter [Phys. Rev. D 95, 063006 (2017)]. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	2
124	Failures of homogeneous and isotropic cosmologies in extended quasidilaton massive gravity. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	6
123	CMB anomalies after Planck. <i>Classical and Quantum Gravity</i> , <b>2016</b> , 33, 184001	3.3	152
122	Integration of inhomogeneous cosmological spacetimes in the BSSN formalism. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	36
121	Departures from the Friedmann-Lemaitre-Robertson-Walker Cosmological Model in an Inhomogeneous Universe: A Numerical Examination. <i>Physical Review Letters</i> , <b>2016</b> , 116, 251301	7.4	57
120	Beating non-linearities: improving the baryon acoustic oscillations with the linear point. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 455, 2474-2483	4.3	16
119	OBSERVABLE DEVIATIONS FROM HOMOGENEITY IN AN INHOMOGENEOUS UNIVERSE. <i>Astrophysical Journal</i> , <b>2016</b> , 833, 247	4.7	38
118	Beyond . <i>Physics of the Dark Universe</i> , <b>2016</b> , 12, 56-99	4.4	249
117	The ISW effect and the lack of large-angle CMB temperature correlations. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 463, 3305-3310	4.3	6

116	Macro dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2015</b> , 450, 3418-3430	4.3	65
115	Large scale evolutive systems: what can they teach us?. <i>Rendiconti Lincei</i> , <b>2015</b> , 26, 261-264	1.7	
114	Large-scale alignments from WMAP and Planck. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2015</b> , 449, 3458-3470	4.3	45
113	Resonant bar detector constraints on macro dark matter. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	14
112	Microwave background polarization as a probe of large-angle correlations. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	11
111	Point particle motion in topologically nontrivial spacetimes. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	2
110	New geometric representations of the CMB two-point correlation function. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	1
109	Extreme parameter sensitivity in quasidilaton massive gravity. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	4
108	Lack of large-angle TT correlations persists in WMAP and Planck. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2015</b> , 451, 2978-2985	4.3	42
107	Probing large-angle correlations with the microwave background temperature and lensing cross-correlation. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2014</b> , 442, 2392-2397	4.3	9
106	Brane localization and stabilization via regional physics. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	1
105	Large-angle cosmic microwave background suppression and polarization predictions. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2013</b> , 434, 3590-3596	4.3	28
104	Brane stabilization and regionality of extra dimensions. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	3
103	Improved Cosmological Constraints from a Bayesian Hierarchical Model of Supernova Type Ia Data <b>2013</b> , 203-235		
102	WIMP abundance and lepton (flavour) asymmetry. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2012</b> , 2012, 040-040	6.4	11
101	Using quasars as standard clocks for measuring cosmological redshift. <i>Physical Review Letters</i> , <b>2012</b> , 108, 231302	7.4	6
100	Constraints on the topology of the Universe: Extension to general geometries. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	21
99	First second of leptons. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 375, 032005	0.3	

98	Modifying gravity: you cannot always get what you want. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2011</b> , 369, 5018-41	3	13
97	Should we doubt the cosmological constant?. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2011</b> , 410, 2488-2496	4.3	18
96	Improved constraints on cosmological parameters from Type Ia supernova data. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2011</b> , 418, 2308-2329	4.3	65
95	Bias in low-multipole cosmic microwave background reconstructions. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2011</b> , 418, 505-515	4.3	14
94	Testing the statistical isotropy of large scale structure with multipole vectors. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	5
93	Missing power vs low- $l$ alignments in the cosmic microwave background: No correlation in the standard cosmological model. <i>Astroparticle Physics</i> , <b>2011</b> , 34, 591-594	2.4	30
92	Pre-Hawking radiation from a collapsing shell. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2011</b> , 2011, 024-024	6.4	8
91	Retarded Green's functions in perturbed spacetimes for cosmology and gravitational physics. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	11
90	Degree-scale anomalies in the CMB: Localizing the first peak dip to a small patch of the north ecliptic sky. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	4
89	The virtues of frugality – why cosmological observers should release their data slowly. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2010</b> , 401, L15-L18	4.3	2
88	Large-Angle Anomalies in the CMB. <i>Advances in Astronomy</i> , <b>2010</b> , 2010, 1-17	0.9	144
87	Electroweak stars: how nature may capitalize on the standard model's ultimate fuel. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2010</b> , 2010, 004-004	6.4	6
86	Surprising phenomena in a rich new class of inflationary models. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2010</b> , 2010, 031-031	6.4	2
85	Limited utility of Birkhoff's theorem in modified Newtonian dynamics: Nonzero accelerations inside a shell. <i>Physical Review D</i> , <b>2010</b> , 81,	4.9	8
84	It is hard to learn how gravity and electromagnetism couple. <i>Physical Review D</i> , <b>2010</b> , 82,	4.9	6
83	No large-angle correlations on the non-Galactic microwave sky. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2009</b> , 399, 295-303	4.3	110
82	Einstein's theory of gravity and the problem of missing mass. <i>Science</i> , <b>2009</b> , 326, 812-5	33.3	25
81	BlackMax: A black-hole event generator with rotation, recoil, split branes, and brane tension. <i>Physical Review D</i> , <b>2008</b> , 77,	4.9	83

80	Dark energy, colored anti-de Sitter vacuum, and the CERN Large Hadron Collider phenomenology. <i>Physical Review D</i> , <b>2008</b> , 77,	4.9	29
79	Anthropic arguments and the cosmological constant, with and without the assumption of typicality. <i>Physical Review Letters</i> , <b>2008</b> , 100, 041301	7.4	8
78	Gravitational lenses in generalized Einstein-aether theory: The bullet cluster. <i>Physical Review D</i> , <b>2008</b> , 78,	4.9	17
77	Generalized Einstein-Aether theories and the Solar System. <i>Physical Review D</i> , <b>2008</b> , 77,	4.9	18
76	Consequences of the absence of Birkhoff's theorem in modified-gravity theories: The Dvali-Gabadaze-Porrati model. <i>Physical Review D</i> , <b>2008</b> , 77,	4.9	10
75	Difficulties in explaining the cosmic photon excess with compact composite object dark matter. <i>Physical Review D</i> , <b>2008</b> , 77,	4.9	10
74	LATE TIME DECAY OF THE FALSE VACUUM, MEASUREMENT, AND QUANTUM COSMOLOGY. <i>International Journal of Modern Physics D</i> , <b>2008</b> , 17, 2501-2505	2.2	8
73	Solving the cosmic lithium problems with primordial late-decaying particles. <i>Physical Review D</i> , <b>2007</b> , 76,	4.9	42
72	Evaporation of a black hole off of a tense brane. <i>Physical Review D</i> , <b>2007</b> , 75,	4.9	38
71	Uncorrelated universe: Statistical anisotropy and the vanishing angular correlation function in WMAP years 1B. <i>Physical Review D</i> , <b>2007</b> , 75,	4.9	194
70	Extending the WMAP bound on the size of the Universe. <i>Physical Review D</i> , <b>2007</b> , 75,	4.9	48
69	Externally occulted terrestrial planet finder coronagraph: simulations and sensitivities <b>2007</b> ,		4
68	Why black hole production in scattering of cosmic ray neutrinos is generically suppressed. <i>Physical Review Letters</i> , <b>2006</b> , 96, 041303	7.4	17
67	Why anthropic reasoning cannot predict Lambda. <i>Physical Review Letters</i> , <b>2006</b> , 97, 201301	7.4	18
66	Production of black holes and their angular momentum distribution in models with split fermions. <i>Physical Review D</i> , <b>2006</b> , 73,	4.9	20
65	Zero modes on cosmic strings in an external magnetic field. <i>Physical Review D</i> , <b>2006</b> , 74,	4.9	3
64	Vector-tensor nature of Bekenstein's relativistic theory of modified gravity. <i>Physical Review D</i> , <b>2006</b> , 74,	4.9	83
63	What's the trouble with anthropic reasoning?. <i>AIP Conference Proceedings</i> , <b>2006</b> ,	0	2

62	On the large-angle anomalies of the microwave sky. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2006</b> , 367, 79-102	4.3	202
61	Holes in the walls: Primordial black holes as a solution to the cosmological domain wall problem. <i>Physical Review D</i> , <b>2005</b> , 72,	4.9	32
60	Is the universe out of tune?. <i>Scientific American</i> , <b>2005</b> , 293, 48-55	0.5	5
59	INFORMATION-PRESERVING BLACK HOLES STILL DO NOT PRESERVE BARYON NUMBER AND OTHER EFFECTIVE GLOBAL QUANTUM NUMBERS. <i>International Journal of Modern Physics D</i> , <b>2005</b> , 14, 2293-2300	2.2	19
58	Probing Newton's constant on vast scales: Dvali-Gabadadze-Porrati gravity, cosmic acceleration, and large scale structure. <i>Physical Review D</i> , <b>2004</b> , 69,	4.9	270
57	Multipole vectors: A new representation of the CMB sky and evidence for statistical anisotropy or non-Gaussianity at $l \geq 8$ . <i>Physical Review D</i> , <b>2004</b> , 70,	4.9	238
56	Squeezing MOND into a Cosmological Scenario. <i>Physical Review Letters</i> , <b>2004</b> , 92, 131102	7.4	17
55	Is the low- $l$ microwave background cosmic?. <i>Physical Review Letters</i> , <b>2004</b> , 93, 221301	7.4	340
54	How a brane cosmological constant can trick us into thinking that w. <i>Physical Review D</i> , <b>2004</b> , 70,	4.9	137
53	Constraining the topology of the universe. <i>Physical Review Letters</i> , <b>2004</b> , 92, 201302	7.4	138
52	Differentiating between modified gravity and dark energy. <i>Physical Review D</i> , <b>2004</b> , 69,	4.9	162
51	Gravitational leakage into extra dimensions: Probing dark energy using local gravity. <i>Physical Review D</i> , <b>2003</b> , 67,	4.9	158
50	Parametrization of dark-energy properties: a principal-component approach. <i>Physical Review Letters</i> , <b>2003</b> , 90, 031301	7.4	230
49	Is the universe inflating? Dark energy and the future of the universe. <i>Physical Review D</i> , <b>2002</b> , 66,	4.9	8
48	Zero modes of fermions with a general mass matrix. <i>Physical Review D</i> , <b>2002</b> , 65,	4.9	26
47	Radion stabilization in compact hyperbolic extra dimensions. <i>Physical Review D</i> , <b>2002</b> , 66,	4.9	40
46	Neutrino zero modes on electroweak strings. <i>Physical Review D</i> , <b>2001</b> , 63,	4.9	24
45	Large extra dimensions and cosmological problems. <i>Physical Review D</i> , <b>2001</b> , 63,	4.9	76

44	How frustrated strings would pull the black holes from the centers of galaxies. <i>Physical Review D</i> , <b>2001</b> , 63,	4.9	7
43	Homogeneity, flatness, and "large" extra dimensions. <i>Physical Review Letters</i> , <b>2001</b> , 87, 231303	7.4	79
42	Neutrino masses and mixing with general mass matrices. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 480, 381-391	4.2	2
41	Life, the Universe, and Nothing: Life and Death in an Ever-expanding Universe. <i>Astrophysical Journal</i> , <b>2000</b> , 531, 22-30	4.7	65
40	The Big Occulting Steerable Satellite (BOSS). <i>Astrophysical Journal</i> , <b>2000</b> , 532, 581-592	4.7	36
39	The angular scale of topologically induced flat spots in the cosmic microwave background radiation. <i>Classical and Quantum Gravity</i> , <b>2000</b> , 17, 3093-3100	3.3	1
38	Compact hyperbolic extra dimensions: branes, kaluza-klein modes, and cosmology. <i>Physical Review Letters</i> , <b>2000</b> , 85, 928-31	7.4	146
37	Observation of Cosmic Acceleration and Determining the Fate of the Universe. <i>Physical Review Letters</i> , <b>1999</b> , 83, 1510-1513	7.4	20
36	The fate of life in the universe. <i>Scientific American</i> , <b>1999</b> , 281, 58-65	0.5	5
35	Modern Physics: Inflation, and the Horizon and Flatness Problems <b>1999</b> , 1-7		
34	Appendix B: Eight Conceptual Questions Answered in the Text <b>1999</b> , 1-1		
33	Clustering and Large Scale Structure Formation <b>1999</b> , 1-4		
32	Appendix A: Clustering Program Source Code (Fortran Version) <b>1999</b> , 1-16		
31	Weighing the Universe, and Dark Matter <b>1999</b> , 1-7		
30	The Expansion of The Universe Its Geometry and Topology <b>1999</b> , 1-17		
29	Big Bang Nucleosynthesis (BBN) <b>1999</b> , 1-6		
28	Topology and cosmology. <i>Classical and Quantum Gravity</i> , <b>1998</b> , 15, 2529-2538	3.3	59
27	Circles in the sky: finding topology with the microwave background radiation. <i>Classical and Quantum Gravity</i> , <b>1998</b> , 15, 2657-2670	3.3	178



26	Can COBE see the shape of the universe?. <i>Physical Review D</i> , <b>1998</b> , 57, 5982-5996	4.9	47
25	Measuring the topology of the universe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 82-4	11.5	29
24	Sensitivity of Redshift Distortion Measurements to Cosmological Parameters. <i>Astrophysical Journal</i> , <b>1998</b> , 501, 427-441	4.7	10
23	Comment on "Constraints on the strength of primordial magnetic fields from big bang nucleosynthesis reexamined" <i>Physical Review D</i> , <b>1997</b> , 56, 3766-3767	4.9	9
22	Family Replication in the Dual Standard Model. <i>Physical Review Letters</i> , <b>1997</b> , 78, 1223-1226	7.4	5
21	Galactic cosmic strings as sources of primary antiprotons. <i>Physical Review D</i> , <b>1996</b> , 53, R6711-R6714	4.9	10
20	Big bang nucleosynthesis constraints on primordial magnetic fields. <i>Physical Review D</i> , <b>1996</b> , 54, 7207-7214	4.4	58
19	Does Chaotic Mixing Facilitate Omega . <i>Physical Review Letters</i> , <b>1996</b> , 77, 215-218	7.4	79
18	Proposed New Technique for Detecting Supersymmetric Dark Matter. <i>Physical Review Letters</i> , <b>1995</b> , 74, 2623-2625	7.4	12
17	Systematic SO(10) operator analysis for fermion masses. <i>Physical Review D</i> , <b>1994</b> , 49, 3660-3690	4.9	164
16	Neutrino lasing in the early Universe. <i>Physical Review Letters</i> , <b>1993</b> , 71, 1128-1131	7.4	12
15	Almost-standard big-bang nucleosynthesis with $\Omega_{Bh20} \gg 0.015$ : A reexamination of neutrino chemical potentials and $\Delta G$ . <i>Physical Review D</i> , <b>1992</b> , 45, 476-480	4.9	7
14	A quantitative measure of structure in the three-dimensional galaxy distribution - Sheets and filaments. <i>Astrophysical Journal</i> , <b>1992</b> , 401, 28	4.7	41
13	A detector for the cosmic neutrino background. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>1991</b> , 19, 241-247		3
12	Primordial nucleosynthesis without a computer. <i>Astrophysical Journal</i> , <b>1991</b> , 378, 504	4.7	43
11	Opening the window on strongly interacting dark matter. <i>Physical Review D</i> , <b>1990</b> , 41, 3594-3603	4.9	149
10	Getting a charge out of dark matter. <i>Physical Review D</i> , <b>1990</b> , 41, 2388-2397	4.9	110
9	Cross sections for lepton- and baryon-number-violating processes from supersymmetry at p-p-bar colliders. <i>Physical Review D</i> , <b>1990</b> , 41, 2099-2112	4.9	82

8	Limits on late decaying particles from nucleosynthesis. <i>Nuclear Physics B</i> , <b>1989</b> , 311, 699-718	2.8	97
7	Stellar energy transfer by keV-mass scalars. <i>Physical Review D</i> , <b>1989</b> , 40, 942-947	4.9	29
6	Kiloelectronvolt-era nucleosynthesis and its implications. <i>Physical Review Letters</i> , <b>1988</b> , 60, 7-10	7.4	40
5	Is the universe closed by baryons? Nucleosynthesis with a late-decaying massive particle. <i>Astrophysical Journal</i> , <b>1988</b> , 330, 545	4.7	139
4	Laboratory limits on solar axions from an ultralow-background germanium spectrometer. <i>Physical Review D</i> , <b>1987</b> , 35, 2752-2757	4.9	50
3	Axiorecombination: A new mechanism for stellar axion production. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1986</b> , 179, 223-227	4.2	26
2	Atomic enhancements in the detection of weakly interacting particles. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1986</b> , 168, 145-150	4.2	35
1	Two-loop calculation of the effective potential for the Wess-Zumino model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1983</b> , 133, 393-397	4.2	6