

# Glenn D Starkman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4814789/publications.pdf>

Version: 2024-02-01

161  
papers

7,534  
citations

57631

44  
h-index

54797

84  
g-index

161  
all docs

161  
docs citations

161  
times ranked

5522  
citing authors

#	ARTICLE	IF	CITATIONS
1	Is the Low- $\ell$ Microwave Background Cosmic? Physical Review Letters, 2004, 93, 221301.	2.9	371
2	Beyond $\Lambda$ CDM: Problems, solutions, and the road ahead. Physics of the Dark Universe, 2016, 12, 56-99.	1.8	361
3	Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. Journal of High Energy Astrophysics, 2022, 34, 49-211.	2.4	350
4	Probing Newton's constant on vast scales: Dvali-Gabadadze-Porrati gravity, cosmic acceleration, and large scale structure. Physical Review D, 2004, 69, .	1.6	281
5	Multipole vectors: A new representation of the CMB sky and evidence for statistical anisotropy or non-Gaussianity at $2\frac{1}{2} \leq \ell \leq 8$ . Physical Review D, 2004, 70, .	1.6	254
6	Parametrization of Dark-Energy Properties: A Principal-Component Approach. Physical Review Letters, 2003, 90, 031301.	2.9	250
7	CMB anomalies after Planck. Classical and Quantum Gravity, 2016, 33, 184001.	1.5	232
8	On the large-angle anomalies of the microwave sky. Monthly Notices of the Royal Astronomical Society, 2006, 367, 79-102.	1.6	226
9	Uncorrelated universe: Statistical anisotropy and the vanishing angular correlation function in WMAP years 1-3. Physical Review D, 2007, 75, .	1.6	213
10	Circles in the sky: finding topology with the microwave background radiation. Classical and Quantum Gravity, 1998, 15, 2657-2670.	1.5	192
11	Systematic SO(10) operator analysis for fermion masses. Physical Review D, 1994, 49, 3660-3690.	1.6	183
12	Differentiating between modified gravity and dark energy. Physical Review D, 2004, 69, .	1.6	175
13	Opening the window on strongly interacting dark matter. Physical Review D, 1990, 41, 3594-3603.	1.6	174
14	Large-Angle Anomalies in the CMB. Advances in Astronomy, 2010, 2010, 1-17.	0.5	174
15	Compact Hyperbolic Extra Dimensions: Branes, Kaluza-Klein Modes, and Cosmology. Physical Review Letters, 2000, 85, 928-931.	2.9	165
16	Gravitational leakage into extra dimensions: Probing dark energy using local gravity. Physical Review D, 2003, 67, .	1.6	165
17	Constraining the Topology of the Universe. Physical Review Letters, 2004, 92, 201302.	2.9	164
18	Is the universe closed by baryons? Nucleosynthesis with a late-decaying massive particle. Astrophysical Journal, 1988, 330, 545.	1.6	146

#	ARTICLE	IF	CITATIONS
19	How a brane cosmological constant can trick us into thinking that $w < -1$ . <i>Physical Review D</i> , 2004, 70, .	1.6	140
20	Getting a charge out of dark matter. <i>Physical Review D</i> , 1990, 41, 2388-2397.	1.6	129
21	No large-angle correlations on the non-Galactic microwave sky. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 399, 295-303.	1.6	123
22	Limits on late decaying particles from nucleosynthesis. <i>Nuclear Physics B</i> , 1989, 311, 699-718.	0.9	103
23	BlackMax: A black-hole event generator with rotation, recoil, split branes, and brane tension. <i>Physical Review D</i> , 2008, 77, .	1.6	92
24	Macro dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 3418-3430.	1.6	91
25	Homogeneity, Flatness, and "Large" Extra Dimensions. <i>Physical Review Letters</i> , 2001, 87, 231303.	2.9	90
26	Cross sections for lepton- and baryon-number-violating processes from supersymmetry at $p\bar{p}$ colliders. <i>Physical Review D</i> , 1990, 41, 2099-2112.	1.6	88
27	Vector-tensor nature of Bekenstein's relativistic theory of modified gravity. <i>Physical Review D</i> , 2006, 74, .	1.6	87
28	Large extra dimensions and cosmological problems. <i>Physical Review D</i> , 2001, 63, .	1.6	86
29	Does Chaotic Mixing Facilitate $\Omega < 1$ Inflation?. <i>Physical Review Letters</i> , 1996, 77, 215-218.	2.9	84
30	Life, the Universe, and Nothing: Life and Death in an Ever-expanding Universe. <i>Astrophysical Journal</i> , 2000, 531, 22-30.	1.6	80
31	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.	1.6	79
32	Improved constraints on cosmological parameters from Type Ia supernova data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 2308-2329.	1.6	75
33	Departures from the Friedmann-Lemaître-Robertson-Walker Cosmological Model in an Inhomogeneous Universe: A Numerical Examination. <i>Physical Review Letters</i> , 2016, 116, 251301.	2.9	74
34	Topology and cosmology. <i>Classical and Quantum Gravity</i> , 1998, 15, 2529-2538.	1.5	67
35	Big bang nucleosynthesis constraints on primordial magnetic fields. <i>Physical Review D</i> , 1996, 54, 7207-7214.	1.6	65
36	Large-scale alignments from WMAP and Planck. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 3458-3470.	1.6	63

#	ARTICLE	IF	CITATIONS
37	Laboratory limits on solar axions from an ultralow-background germanium spectrometer. <i>Physical Review D</i> , 1987, 35, 2752-2757.	1.6	58
38	Extending the WMAP bound on the size of the Universe. <i>Physical Review D</i> , 2007, 75, .	1.6	55
39	Lack of large-angle TT correlations persists in WMAP and Planck. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 2978-2985.	1.6	55
40	Can COBE see the shape of the universe?. <i>Physical Review D</i> , 1998, 57, 5982-5996.	1.6	51
41	Solving the cosmic lithium problems with primordial late-decaying particles. <i>Physical Review D</i> , 2007, 76, .	1.6	50
42	OBSERVABLE DEVIATIONS FROM HOMOGENEITY IN AN INHOMOGENEOUS UNIVERSE. <i>Astrophysical Journal</i> , 2016, 833, 247.	1.6	48
43	Primordial nucleosynthesis without a computer. <i>Astrophysical Journal</i> , 1991, 378, 504.	1.6	47
44	TheBig Occulting Steerable Satellite(BOSS). <i>Astrophysical Journal</i> , 2000, 532, 581-592.	1.6	46
45	Integration of inhomogeneous cosmological spacetimes in the BSSN formalism. <i>Physical Review D</i> , 2016, 93, .	1.6	46
46	Kiloelectronvolt-Era Nucleosynthesis and Its Implications. <i>Physical Review Letters</i> , 1988, 60, 7-10.	2.9	44
47	Radion stabilization in compact hyperbolic extra dimensions. <i>Physical Review D</i> , 2002, 66, .	1.6	42
48	A quantitative measure of structure in the three-dimensional galaxy distribution - Sheets and filaments. <i>Astrophysical Journal</i> , 1992, 401, 28.	1.6	42
49	Stellar energy transfer by keV-mass scalars. <i>Physical Review D</i> , 1989, 40, 942-947.	1.6	41
50	Holes in the walls: Primordial black holes as a solution to the cosmological domain wall problem. <i>Physical Review D</i> , 2005, 72, .	1.6	40
51	Atomic enhancements in the detection of weakly interacting particles. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1986, 168, 145-150.	1.5	39
52	Evaporation of a black hole off of a tense brane. <i>Physical Review D</i> , 2007, 75, .	1.6	39
53	Measuring the topology of the universe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 82-84.	3.3	34
54	Dark energy, colored anti-de Sitter vacuum, and the CERN Large Hadron Collider phenomenology. <i>Physical Review D</i> , 2008, 77, .	1.6	32

#	ARTICLE	IF	CITATIONS
55	Large-angle cosmic microwave background suppression and polarization predictions. Monthly Notices of the Royal Astronomical Society, 2013, 434, 3590-3596.	1.6	32
56	Constraints on the topology of the Universe: Extension to general geometries. Physical Review D, 2012, 86, .	1.6	31
57	Einstein's Theory of Gravity and the Problem of Missing Mass. Science, 2009, 326, 812-815.	6.0	30
58	Missing power vs low- $l$ alignments in the cosmic microwave background: No correlation in the standard cosmological model. Astroparticle Physics, 2011, 34, 591-594.	1.9	30
59	Axiorecombination: A new mechanism for stellar axion production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 179, 223-227.	1.5	29
60	Zero modes of fermions with a general mass matrix. Physical Review D, 2002, 65, .	1.6	27
61	Neutrino zero modes on electroweak strings. Physical Review D, 2001, 63, .	1.6	26
62	Limited accuracy of linearized gravity. Physical Review D, 2019, 99, .	1.6	25
63	Beating non-linearities: improving the baryon acoustic oscillations with the linear point. Monthly Notices of the Royal Astronomical Society, 2016, 455, 2474-2483.	1.6	23
64	Observation of Cosmic Acceleration and Determining the Fate of the Universe. Physical Review Letters, 1999, 83, 1510-1513.	2.9	22
65	Production of black holes and their angular momentum distribution in models with split fermions. Physical Review D, 2006, 73, .	1.6	22
66	Why Anthropic Reasoning Cannot Predict. Physical Review Letters, 2006, 97, 201301.	2.9	22
67	Generalized Einstein-Aether theories and the Solar System. Physical Review D, 2008, 77, .	1.6	22
68	Why Black Hole Production in Scattering of Cosmic Ray Neutrinos Is Generically Suppressed. Physical Review Letters, 2006, 96, 041303.	2.9	20
69	Gravitational lenses in generalized Einstein-aether theory: The bullet cluster. Physical Review D, 2008, 78, .	1.6	20
70	Should we doubt the cosmological constant?. Monthly Notices of the Royal Astronomical Society, 2011, 410, 2488-2496.	1.6	20
71	INFORMATION-PRESERVING BLACK HOLES STILL DO NOT PRESERVE BARYON NUMBER AND OTHER EFFECTIVE GLOBAL QUANTUM NUMBERS. International Journal of Modern Physics D, 2005, 14, 2293-2300.	0.9	19
72	General relativistic corrections to the weak lensing convergence power spectrum. Physical Review D, 2017, 96, .	1.6	19

#	ARTICLE	IF	CITATIONS
73	Galaxy Correlation Functions Provide a More Robust Cosmological Standard Ruler. <i>Physical Review Letters</i> , 2018, 121, 021302.	2.9	19
74	Proposed New Technique for Detecting Supersymmetric Dark Matter. <i>Physical Review Letters</i> , 1995, 74, 2623-2625.	2.9	18
75	Cosmic distance inference from purely geometric BAO methods: Linear point standard ruler and correlation function model fitting. <i>Physical Review D</i> , 2019, 99, .	1.6	18
76	Squeezing MOND into a Cosmological Scenario. <i>Physical Review Letters</i> , 2004, 92, 131102.	2.9	17
77	Retarded Green's functions in perturbed spacetimes for cosmology and gravitational physics. <i>Physical Review D</i> , 2011, 84, .	1.6	17
78	A cosmologically motivated reference formulation of numerical relativity. <i>Classical and Quantum Gravity</i> , 2017, 34, 214001.	1.5	17
79	Linear point standard ruler for galaxy survey data: Validation with mock catalogs. <i>Physical Review D</i> , 2018, 98, .	1.6	17
80	Resonant bar detector constraints on macro dark matter. <i>Physical Review D</i> , 2015, 91, .	1.6	16
81	Macroscopic dark matter constraints from bolide camera networks. <i>Physical Review D</i> , 2019, 100, .	1.6	16
82	Bias in low-multipole cosmic microwave background reconstructions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 505-515.	1.6	15
83	Modifying gravity: you cannot always get what you want. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 5018-5041.	1.6	14
84	Neutrino lasing in the early Universe. <i>Physical Review Letters</i> , 1993, 71, 1128-1131.	2.9	13
85	WIMP abundance and lepton (flavour) asymmetry. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 040-040.	1.9	13
86	Microwave background polarization as a probe of large-angle correlations. <i>Physical Review D</i> , 2015, 91, .	1.6	13
87	Using Quasars as Standard Clocks for Measuring Cosmological Redshift. <i>Physical Review Letters</i> , 2012, 108, 231302.	2.9	12
88	Galactic cosmic strings as sources of primary antiprotons. <i>Physical Review D</i> , 1996, 53, R6711-R6714.	1.6	11
89	Anthropic Arguments and the Cosmological Constant, with and without the Assumption of Typicality. <i>Physical Review Letters</i> , 2008, 100, 041301.	2.9	11
90	Consequences of the absence of Birkhoff's theorem in modified-gravity theories: The Dvali-Gabadaze-Porrati model. <i>Physical Review D</i> , 2008, 77, .	1.6	11

#	ARTICLE	IF	CITATIONS
91	Macro detection using fluorescence detectors. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 037-037.	1.9	11
92	Linear point and sound horizon as purely geometric standard rulers. <i>Physical Review D</i> , 2020, 101, .	1.6	11
93	Death and serious injury from dark matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 803, 135300.	1.5	11
94	Sensitivity of Redshift Distortion Measurements to Cosmological Parameters. <i>Astrophysical Journal</i> , 1998, 501, 427-441.	1.6	11
95	Difficulties in explaining the cosmic photon excess with compact composite object dark matter. <i>Physical Review D</i> , 2008, 77, .	1.6	10
96	Probing large-angle correlations with the microwave background temperature and lensing cross-correlation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 2392-2397.	1.6	10
97	Comment on "Constraints on the strength of primordial magnetic fields from big bang nucleosynthesis reexamined". <i>Physical Review D</i> , 1997, 56, 3766-3767.	1.6	9
98	Limited utility of Birkhoff's theorem in modified Newtonian dynamics: Nonzero accelerations inside a shell. <i>Physical Review D</i> , 2010, 81, .	1.6	9
99	Pre-Hawking radiation from a collapsing shell. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 024-024.	1.9	9
100	Reconsidering astrophysical constraints on macroscopic dark matter. <i>Physical Review D</i> , 2020, 101, .	1.6	9
101	Antimatter as macroscopic dark matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 807, 135574.	1.5	9
102	Family Replication in the Dual Standard Model. <i>Physical Review Letters</i> , 1997, 78, 1223-1226.	2.9	8
103	The Fate of Life in the Universe. <i>Scientific American</i> , 1999, 281, 58-65.	1.0	8
104	Is the universe inflating? Dark energy and the future of the universe. <i>Physical Review D</i> , 2002, 66, .	1.6	8
105	LATE TIME DECAY OF THE FALSE VACUUM, MEASUREMENT, AND QUANTUM COSMOLOGY. <i>International Journal of Modern Physics D</i> , 2008, 17, 2501-2505.	0.9	8
106	It is hard to learn how gravity and electromagnetism couple. <i>Physical Review D</i> , 2010, 82, .	1.6	8
107	The ISW effect and the lack of large-angle CMB temperature correlations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 3305-3310.	1.6	8
108	Waves from the centre: probing PBH and other macroscopic dark matter with LISA. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	8

#	ARTICLE	IF	CITATIONS
109	Two-loop calculation of the effective potential for the Wess-Zumino model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 133, 393-397.	1.5	7
110	Almost-standard big-bang nucleosynthesis with $\hat{h}^2 \Omega_{\text{Bh}20} > 0.015$ : A reexamination of neutrino chemical potentials and $\hat{h}^2 \Omega_{\text{G}}$ . Physical Review D, 1992, 45, 476-480.	1.6	7
111	How frustrated strings would pull the black holes from the centers of galaxies. Physical Review D, 2001, 63, .	1.6	7
112	Is the Universe Out of Tune?. Scientific American, 2005, 293, 48-55.	1.0	7
113	Externally occulted terrestrial planet finder coronagraph: simulations and sensitivities. Proceedings of SPIE, 2007, , .	0.8	7
114	Electroweak stars: how nature may capitalize on the standard model's ultimate fuel. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 004-004.	1.9	7
115	CMB-S4 and the hemispherical variance anomaly. Monthly Notices of the Royal Astronomical Society, 2017, 470, 372-378.	1.6	7
116	Failures of homogeneous and isotropic cosmologies in extended quasidilaton massive gravity. Physical Review D, 2017, 96, .	1.6	7
117	Counter-top search for macroscopic dark matter. Physical Review D, 2019, 100, .	1.6	7
118	Straight lightning as a signature of macroscopic dark matter. Physical Review D, 2021, 103, .	1.6	7
119	Reconsidering seismological constraints on the available parameter space of macroscopic dark matter. Physical Review D, 2017, 95, .	1.6	6
120	Cosmic expansion from spinning black holes. Classical and Quantum Gravity, 2019, 36, 195009.	1.5	6
121	Exploring suppressed long-distance correlations as the cause of suppressed large-angle correlations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5174-5181.	1.6	6
122	Testing the statistical isotropy of large scale structure with multipole vectors. Physical Review D, 2011, 84, .	1.6	5
123	Degree-scale anomalies in the CMB: Localizing the first peak dip to a small patch of the north ecliptic sky. Physical Review D, 2011, 83, .	1.6	5
124	CMB spectral distortions from cooling macroscopic dark matter. Physical Review D, 2019, 99, .	1.6	5
125	Question of measuring spatial curvature in an inhomogeneous universe. Physical Review D, 2021, 103, .	1.6	5
126	Point particle motion in topologically nontrivial spacetimes. Physical Review D, 2015, 92, .	1.6	4

#	ARTICLE	IF	CITATIONS
127	Extreme parameter sensitivity in quasilaton massive gravity. <i>Physical Review D</i> , 2015, 92, .	1.6	4
128	Manual of BlackMax. A black-hole event generator with rotation, recoil, split branes, and brane tension. Version 2.02. <i>Computer Physics Communications</i> , 2019, 236, 285-301.	3.0	4
129	Finite-size effects on the self-force. <i>Physical Review D</i> , 2020, 101, .	1.6	4
130	Accurate relativistic observables from postprocessing light cone catalogs. <i>Physical Review D</i> , 2022, 105, .	1.6	4
131	Milky Way and M31 rotation curves: $\lambda$ versus MOND. <i>Physical Review D</i> , 2022, 105, .	1.6	4
132	A detector for the cosmic neutrino background. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1991, 19, 241-247.	0.5	3
133	Zero modes on cosmic strings in an external magnetic field. <i>Physical Review D</i> , 2006, 74, .	1.6	3
134	Brane stabilization and regionality of extra dimensions. <i>Physical Review D</i> , 2013, 87, .	1.6	3
135	Neutrino masses and mixing with general mass matrices. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 480, 381-391.	1.5	2
136	What's the trouble with anthropic reasoning?. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	2
137	The virtues of frugality – why cosmological observers should release their data slowly. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 401, L15-L18.	1.2	2
138	Surprising phenomena in a rich new class of inflationary models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 031-031.	1.9	2
139	New geometric representations of the CMB two-point correlation function. <i>Physical Review D</i> , 2015, 92, .	1.6	2
140	Publisher's Note: Reconsidering seismological constraints on the available parameter space of macroscopic dark matter [ <i>Phys. Rev. D</i> 95 (2017)]. <i>Physical Review D</i> , 2017, 95, .	1.6	2
141	Hemispherical variance anomaly and reionization optical depth. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 3563-3570.	1.6	2
142	How the Universe postpones the evaporation and curtails the quantum spreading of black holes. <i>Physical Review D</i> , 2022, 105, .	1.6	2
143	The angular scale of topologically induced flat spots in the cosmic microwave background radiation. <i>Classical and Quantum Gravity</i> , 2000, 17, 3093-3100.	1.5	1
144	Brane localization and stabilization via regional physics. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	1

#	ARTICLE	IF	CITATIONS
145	Strong lensing constraints on modified gravity models. Physical Review D, 2018, 98, .	1.6	1
146	Gravitational Glint: Detectable Gravitational Wave Tails from Stars and Compact Objects. Physical Review Letters, 2022, 128, .	2.9	1
147	Large Extra Dimension and Dark Matter Detection. AIP Conference Proceedings, 2008, , .	0.3	0
148	First second of leptons. Journal of Physics: Conference Series, 2012, 375, 032005.	0.3	0
149	Large scale evolutive systems: what can they teach us?. Rendiconti Lincei, 2015, 26, 261-264.	1.0	0
150	Simulating the universe. Physics World, 2017, 30, 20-23.	0.0	0
151	Global $\langle \mathbb{S} \rangle$ symmetry and the LSS	1.6	0
152	Global $\langle \mathbb{S} \rangle$ symmetry and the LSS	1.6	0
153	Improved Cosmological Constraints from a Bayesian Hierarchical Model of Supernova Type Ia Data. , 2013, , 203-235.		0
154	Modern Physics: Inflation, and the Horizon and Flatness Problems. , 1999, , 1-7.		0
155	Appendix B: Eight Conceptual Questions Answered in the Text. , 1999, , 1-1.		0
156	Clustering and Large Scale Structure Formation. , 1999, , 1-4.		0
157	Appendix A: Clustering Program Source Code (Fortran Version). , 1999, , 1-16.		0
158	Weighing the Universe, and Dark Matter. , 1999, , 1-7.		0
159	The Expansion of The Universe "its Geometry and Topology. , 1999, , 1-17.		0
160	Big Bang Nucleosynthesis (BBN). , 1999, , 1-6.		0
161	Nuclear matter as a liquid phase of spontaneously broken semiclassical chiral perturbation theory: Static chiral nucleon liquids. Physical Review C, 2022, 105, .		0