

# Dimitry Ayzenberg

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,318  
citations

361413

20  
h-index

361022

35  
g-index

54  
all docs

54  
docs citations

54  
times ranked

585  
citing authors

#	ARTICLE	IF	CITATIONS
1	Slowly rotating black holes in Einstein-Dilaton-Gauss-Bonnet gravity: Quadratic order in spin solutions. Physical Review D, 2014, 90, .	4.7	152
2	Black hole mimicker hiding in the shadow: Optical properties of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \hat{\Gamma}^3 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ metric. Physical Review D, 2019, 100, .	4.7	98
3	Black hole shadow as a test of general relativity: quadratic gravity. Classical and Quantum Gravity, 2018, 35, 235002.	4.0	56
4	Toward Precision Tests of General Relativity with Black Hole X-Ray Reflection Spectroscopy. Astrophysical Journal, 2019, 875, 56.	4.5	56
5	Public Release of RELXILL_NK: A Relativistic Reflection Model for Testing Einstein's Gravity. Astrophysical Journal, 2019, 878, 91.	4.5	54
6	Testing conformal gravity with the supermassive black hole in 1H0707-495. Physical Review D, 2018, 98, .	4.7	44
7	Tests of the Kerr Hypothesis with GRS 1915+105 Using Different relxill Flavors. Astrophysical Journal, 2019, 884, 147.	4.5	40
8	Constraints on the Spacetime Metric around Seven $\alpha$ -AGNs Using X-Ray Reflection Spectroscopy. Astrophysical Journal, 2019, 874, 135.	4.5	40
9	Testing the Kerr Black Hole Hypothesis Using X-Ray Reflection Spectroscopy and a Thin Disk Model with Finite Thickness. Astrophysical Journal, 2020, 899, 80.	4.5	40
10	A Study of the Strong Gravity Region of the Black Hole in GS 1354-645. Astrophysical Journal, 2018, 865, 134.	4.5	38
11	Linear stability analysis of dynamical quadratic gravity. Physical Review D, 2014, 89, .	4.7	34
12	Testing the Kerr nature of the supermassive black hole in Ark 564. Physical Review D, 2018, 98, .	4.7	30
13	Testing the Kerr Black Hole Hypothesis with GX 339-4 by a Combined Analysis of Its Thermal Spectrum and Reflection Features. Astrophysical Journal, 2021, 907, 31.	4.5	29
14	Reflection spectra of thick accretion discs. Monthly Notices of the Royal Astronomical Society, 2020, 491, 417-426.	4.4	28
15	Testing General Relativity with NuSTAR Data of Galactic Black Holes. Astrophysical Journal, 2021, 913, 79.	4.5	28
16	About the Kerr Nature of the Stellar-mass Black Hole in GRS 1915+105. Astrophysical Journal, 2019, 875, 41.	4.5	24
17	Testing General Relativity with the Stellar-mass Black Hole in LMC X-1 Using the Continuum-fitting Method. Astrophysical Journal, 2020, 897, 84.	4.5	22
18	Modeling Bias in Supermassive Black Hole Spin Measurements. Astrophysical Journal, 2020, 895, 61.	4.5	22

#	ARTICLE	IF	CITATIONS
19	Testing the Kerr hypothesis using x-ray reflection spectroscopy with <i>NuSTAR</i> data of Cygnus X-1 in the soft state. <i>Physical Review D</i> , 2019, 99, .	4.7	20
20	Black hole continuum spectra as a test of general relativity: quadratic gravity. <i>Classical and Quantum Gravity</i> , 2017, 34, 115003.	4.0	19
21	XSPEC model for testing the Kerr black hole hypothesis using the continuum-fitting method. <i>Physical Review D</i> , 2019, 99, .	4.7	18
22	X-ray reflection spectroscopy with Kaluza-Klein black holes. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	18
23	Impact of the Returning Radiation on the Analysis of the Reflection Spectra of Black Holes. <i>Astrophysical Journal</i> , 2021, 910, 49.	4.5	18
24	Shining X-rays on asymptotically safe quantum gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 047-047.	5.4	17
25	Can the slow-rotation approximation be used in electromagnetic observations of black holes?. <i>Classical and Quantum Gravity</i> , 2016, 33, 105006.	4.0	16
26	Observing the shadows of stellar-mass black holes with binary companions. <i>Classical and Quantum Gravity</i> , 2019, 36, 055007.	4.0	16
27	Constraints on Einstein-Maxwell dilaton-axion gravity from X-ray reflection spectroscopy. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 002.	5.4	16
28	Testing general relativity with x-ray reflection spectroscopy: The Konoplya-Rezzolla-Zhidenko parametrization. <i>Physical Review D</i> , 2020, 102, .	4.7	16
29	relxill_nk: A Relativistic Reflection Model for Testing Einstein's Gravity. <i>Universe</i> , 2018, 4, 79.	2.5	15
30	Constraining the Johannsen deformation parameter $\mu$ with black hole x-ray data. <i>Physical Review D</i> , 2019, 99, .	4.7	15
31	Implementation of a radial disk ionization profile in the relxill_nk model. <i>Physical Review D</i> , 2021, 103, .	4.7	15
32	Modeling uncertainties in X-ray reflection spectroscopy measurements I: Impact of higher order disk images. <i>Physical Review D</i> , 2020, 101, .	4.7	14
33	Singularity-free black holes in conformal gravity: New observational constraints. <i>Europhysics Letters</i> , 2019, 125, 30002.	2.0	13
34	Testing the Kerr Black Hole Hypothesis with GRS 1716-249 by Combining the Continuum Fitting and the Iron-line Methods. <i>Astrophysical Journal</i> , 2022, 924, 72.	4.5	13
35	Search for traversable wormholes in active galactic nuclei using x-ray data. <i>Physical Review D</i> , 2020, 101, .	4.7	12
36	Impact of the Disk Thickness on X-Ray Reflection Spectroscopy Measurements. <i>Astrophysical Journal</i> , 2021, 913, 129.	4.5	11

#	ARTICLE	IF	CITATIONS
37	Testing the Kerr black hole hypothesis with the continuum-fitting and the iron line methods: the case of GRSÅ1915+105. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 019.	5.4	11
38	Testing gravity with black hole shadow subrings. <i>Classical and Quantum Gravity</i> , 2022, 39, 105009.	4.0	11
39	Testing the Kerr Metric with X-Ray Reflection Spectroscopy of Mrk 335 Suzaku Data. <i>Astrophysical Journal</i> , 2019, 879, 80.	4.5	9
40	Thermal spectra of thin accretion discs of finite thickness around Kerr black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 497-503.	4.4	9
41	Constraining the Konoplya-Rezzolla-Zhidenko deformation parameters: Limits from supermassive black hole x-ray data. <i>Physical Review D</i> , 2021, 104, .	4.7	9
42	Testing the Kerr metric using X-ray reflection spectroscopy: spectral analysis of GX 339â€“4. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 026-026.	5.4	8
43	Testing General Relativity with Supermassive Black Holes Using X-Ray Reflection Spectroscopy. <i>Proceedings (mdpi)</i> , 2019, 17, 2.	0.2	7
44	Testing the weak-equivalence principle near black holes. <i>Physical Review D</i> , 2021, 104, .	4.7	7
45	Relativistic reflection spectra of super-spinning black holes. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	7
46	Testing the Keplerian disk hypothesis using x-ray reflection spectroscopy. <i>Physical Review D</i> , 2020, 102, .	4.7	6
47	Constraining the Konoplya-Rezzolla-Zhidenko deformation parameters. II. Limits from stellar-mass black hole x-ray data. <i>Physical Review D</i> , 2021, 104, .	4.7	6
48	Reflection Spectra of Accretion Disks Illuminated by Disk-like Coronae. <i>Astrophysical Journal</i> , 2022, 925, 51.	4.5	6
49	A Reflection Model with a Radial Disk Density Profile. <i>Astrophysical Journal</i> , 2021, 923, 175.	4.5	6
50	Iron line spectroscopy of black holes in vector-tensor Galileon modified gravity. <i>Physical Review D</i> , 2018, 98, .	4.7	5
51	Probing the near-horizon region of Cygnus X-1 with $S_{\nu} \propto \frac{u^2 z^a}{k^5}$ and $N_{\nu} \propto \frac{u^2 S_{\nu} T_{\nu} A_{\nu}}{k^5}$ <i>Physical Review D</i> , 2021, 103, .	4.7	5
52	Reflection Features in the X-Ray Spectrum of Fairall 9 and Implications for Tests of General Relativity. <i>Astrophysical Journal</i> , 2020, 896, 160.	4.5	5
53	RELXILL_NK: A Black Hole Relativistic Reflection Model for Testing General Relativity. <i>Proceedings (mdpi)</i> , 2019, 17, 7.	0.2	2