

Charles F Gammie

List of Publications by Citations

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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.

86
papers

8,340
citations

37
h-index

89
g-index

89
ext. papers

11,440
ext. citations

6.1
avg, IF

5.79
L-index

#	Paper	IF	Citations
86	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L1	7.9	1110
85	Local Three-dimensional Magnetohydrodynamic Simulations of Accretion Disks. <i>Astrophysical Journal</i> , 1995 , 440, 742	4.7	879
84	HARM: A Numerical Scheme for General Relativistic Magnetohydrodynamics. <i>Astrophysical Journal</i> , 2003 , 589, 444-457	4.7	467
83	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L6	7.9	466
82	Three-dimensional Magnetohydrodynamical Simulations of Vertically Stratified Accretion Disks. <i>Astrophysical Journal</i> , 1996 , 463, 656	4.7	459
81	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019 , 875, L5	7.9	429
80	A Measurement of the Electromagnetic Luminosity of a Kerr Black Hole. <i>Astrophysical Journal</i> , 2004 , 611, 977-995	4.7	415
79	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 875, L4	7.9	411
78	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019 , 875, L2	7.9	325
77	Advection-dominated Accretion Model of Sagittarius A*: Evidence for a Black Hole at the Galactic Center. <i>Astrophysical Journal</i> , 1998 , 492, 554-568	4.7	320
76	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019 , 875, L3	7.9	267
75	RADIATIVE MODELS OF SGR A* FROM GRMHD SIMULATIONS. <i>Astrophysical Journal</i> , 2009 , 706, 497-507	4.7	226
74	Primitive Variable Solvers for Conservative General Relativistic Magnetohydrodynamics. <i>Astrophysical Journal</i> , 2006 , 641, 626-637	4.7	181
73	Efficiency of Magnetized Thin Accretion Disks in the Kerr Metric. <i>Astrophysical Journal</i> , 1999 , 522, L57-L60	4.7	154
72	ACHANDRA/HETGS CENSUS OF X-RAY VARIABILITY FROM Sgr A* DURING 2012. <i>Astrophysical Journal</i> , 2013 , 774, 42	4.7	123
71	Observational appearance of inefficient accretion flows and jets in 3D GRMHD simulations: Application to Sagittarius A*. <i>Astronomy and Astrophysics</i> , 2014 , 570, A7	5.1	115
70	AN EXTENSION OF THE ATHENA++ CODE FRAMEWORK FOR GRMHD BASED ON ADVANCED RIEMANN SOLVERS AND STAGGERED-MESH CONSTRAINED TRANSPORT. <i>Astrophysical Journal, Supplement Series</i> , 2016 , 225, 22	8	104

69	Simulating the emission and outflows from accretion discs. <i>Classical and Quantum Gravity</i> , 2007 , 24, S259-S274	3.9	99
68	LOCALITY OF MHD TURBULENCE IN ISOTHERMAL DISKS. <i>Astrophysical Journal</i> , 2009 , 694, 1010-1018	4.7	99
67	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243, 26	8	96
66	grmonty: A MONTE CARLO CODE FOR RELATIVISTIC RADIATIVE TRANSPORT. <i>Astrophysical Journal, Supplement Series</i> , 2009 , 184, 387-397	8	76
65	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020 , 125, 141104	7.4	74
64	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021 , 910, L13	7.9	70
63	Universal interferometric signatures of a black hole's photon ring. <i>Science Advances</i> , 2020 , 6, eaaz1310	14.3	68
62	Variability Timescale and Spectral Index of Sgr A* in the Near Infrared: Approximate Bayesian Computation Analysis of the Variability of the Closest Supermassive Black Hole. <i>Astrophysical Journal</i> , 2018 , 863,	4.7	62
61	The Shadow of a Spherically Accreting Black Hole. <i>Astrophysical Journal Letters</i> , 2019 , 885, L33	7.9	58
60	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021 , 910, L12	7.9	58
59	RADIALLY EXTENDED, STRATIFIED, LOCAL MODELS OF ISOTHERMAL DISKS. <i>Astrophysical Journal</i> , 2011 , 728, 130	4.7	55
58	GLOBAL GENERAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF BLACK HOLE ACCRETION FLOWS: A CONVERGENCE STUDY. <i>Astrophysical Journal</i> , 2012 , 744, 187	4.7	51
57	NEAR-INFRARED AND X-RAY QUASI-PERIODIC OSCILLATIONS IN NUMERICAL MODELS OF Sgr A*. <i>Astrophysical Journal Letters</i> , 2012 , 746, L10	7.9	47
56	The Radiative Efficiency and Spectra of Slowly Accreting Black Holes from Two-temperature GRRMHD Simulations. <i>Astrophysical Journal Letters</i> , 2017 , 844, L24	7.9	44
55	Two-temperature GRRMHD Simulations of M87. <i>Astrophysical Journal</i> , 2018 , 864, 126	4.7	44
54	The Surge After the Surge: Cardiac Surgery Post-COVID-19. <i>Annals of Thoracic Surgery</i> , 2020 , 110, 2020-2025	7.5	43
53	ALMA and VLA measurements of frequency-dependent time lags in Sagittarius A*: evidence for a relativistic outflow. <i>Astronomy and Astrophysics</i> , 2015 , 576, A41	5.1	43
52	IMAGING AN EVENT HORIZON: MITIGATION OF SOURCE VARIABILITY OF SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2016 , 817, 173	4.7	42

51	THE X-RAY FLUX DISTRIBUTION OF SAGITTARIUS A* AS SEEN BY CHANDRA. <i>Astrophysical Journal</i> , 2015 , 799, 199	4-7	41
50	Evolution of accretion discs around a Kerr black hole using extended magnetohydrodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 456, 1332-1345	4-3	39
49	Orbital Advection by Interpolation: A Fast and Accurate Numerical Scheme for Super-Fast MHD Flows. <i>Astrophysical Journal, Supplement Series</i> , 2008 , 177, 373-387	8	36
48	AN EXTENDED MAGNETOHYDRODYNAMICS MODEL FOR RELATIVISTIC WEAKLY COLLISIONAL PLASMAS. <i>Astrophysical Journal</i> , 2015 , 810, 162	4-7	33
47	NUMERICAL CALCULATION OF MAGNETOBREMSSTRAHLUNG EMISSION AND ABSORPTION COEFFICIENTS. <i>Astrophysical Journal</i> , 2011 , 737, 21	4-7	33
46	POLARIZED SYNCHROTRON EMISSIONS AND ABSORPTIVITIES FOR RELATIVISTIC THERMAL, POWER-LAW, AND KAPPA DISTRIBUTION FUNCTIONS. <i>Astrophysical Journal</i> , 2016 , 822, 34	4-7	31
45	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021 , 910, L14	7-9	28
44	Resolution Dependence of Magnetorotational Turbulence in the Isothermal Stratified Shearing Box. <i>Astrophysical Journal</i> , 2017 , 840, 6	4-7	27
43	How important is non-ideal physics in simulations of sub-Eddington accretion on to spinning black holes?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 470, 2240-2252	4-3	25
42	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 897, 139	4-7	24
41	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. <i>Astrophysical Journal Letters</i> , 2022 , 930, L12	7-9	23
40	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020 , 640, A69	5-1	21
39	Monitoring the Morphology of M87* in 2009-2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020 , 901, 67	4-7	20
38	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022 , 930, L14	7-9	20
37	Axisymmetric Shearing Box Models of Magnetized Disks. <i>Astrophysical Journal, Supplement Series</i> , 2008 , 174, 145-157	8	19
36	A FORMALISM FOR COVARIANT POLARIZED RADIATIVE TRANSPORT BY RAY TRACING. <i>Astrophysical Journal</i> , 2012 , 752, 123	4-7	18
35	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020 , 897, 148	4-7	18
34	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021 , 103,	4-9	18

33	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. <i>Astrophysical Journal Letters</i> , 2022 , 930, L16	7.9	18
32	Decomposing the internal Faraday rotation of black hole accretion flows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 498, 5468-5488	4.3	17
31	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021 , 911, L11	7.9	16
30	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022 , 930, L13	7.9	16
29	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022 , 930, L15	7.9	16
28	grim: A Flexible, Conservative Scheme for Relativistic Fluid Theories. <i>Astrophysical Journal</i> , 2017 , 837, 92	4.7	15
27	Multiwavelength Light Curves of Two Remarkable Sagittarius A* Flares. <i>Astrophysical Journal</i> , 2019 , 864,	4.7	15
26	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022 , 930, L17	7.9	14
25	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> ,	12.1	13
24	Non-thermal models for infrared flares from Sgr A*. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 494, 5923-5935	4.3	11
23	The Structure of Radiatively Inefficient Black Hole Accretion Flows. <i>Astrophysical Journal</i> , 2020 , 891, 63	4.7	11
22	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022 , 930, L19	7.9	11
21	Time Domain Filtering of Resolved Images of Sgr A*. <i>Astrophysical Journal</i> , 2017 , 846, 29	4.7	10
20	A characteristic optical variability time scale in astrophysical accretion disks. <i>Science</i> , 2021 , 373, 789-792	33.3	10
19	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022 , 930, L21	7.9	9
18	Constraining particle acceleration in Sgr A* with simultaneous GRAVITY, Spitzer, NuSTAR, and Chandra observations. <i>Astronomy and Astrophysics</i> ,	5.1	8
17	Pair Drizzle around Sub-Eddington Supermassive Black Holes. <i>Astrophysical Journal</i> , 2021 , 907, 73	4.7	8
16	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022 , 930, L20	7.9	8

15	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021 , 912, 35	4.7	7
14	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022 , 930, L18	7.9	7
13	Covariant Radiative Transfer for Black Hole Spacetimes. <i>Astrophysical Journal</i> , 2020 , 888, 94	4.7	6
12	Bremsstrahlung in GRMHD Models of Accreting Black Holes. <i>Astrophysical Journal</i> , 2020 , 898, 50	4.7	6
11	The Jet-disk Boundary Layer in Black Hole Accretion. <i>Astrophysical Journal</i> , 2021 , 914, 55	4.7	6
10	Disks as Inhomogeneous, Anisotropic Gaussian Random Fields. <i>Astrophysical Journal</i> , 2021 , 906, 39	4.7	6
9	iharm3D: Vectorized General Relativistic Magnetohydrodynamics. <i>Journal of Open Source Software</i> , 2021 , 6, 3336	5.2	5
8	Numerical Evaluation of the Relativistic Magnetized Plasma Susceptibility Tensor and Faraday Rotation Coefficients. <i>Astrophysical Journal</i> , 2018 , 868, 13	4.7	4
7	Updated Transfer Coefficients for Magnetized Plasmas. <i>Astrophysical Journal</i> , 2021 , 921, 17	4.7	3
6	PATOKA: Simulating Electromagnetic Observables of Black Hole Accretion. <i>Astrophysical Journal, Supplement Series</i> , 2022 , 259, 64	8	3
5	The jet in the galactic center: An ideal laboratory for magnetohydrodynamics and general relativity. <i>Proceedings of the International Astronomical Union</i> , 2010 , 6, 68-76	0.1	2
4	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022 , 925, 13	4.7	2
3	The Relative Importance of Faraday Rotation and QED Birefringence for the Linear Polarization of X-Rays from Mass-accreting Black Holes. <i>Astrophysical Journal</i> , 2021 , 914, 51	4.7	2
2	Spherical Accretion in Alternative Theories of Gravity. <i>Astrophysical Journal</i> , 2022 , 925, 119	4.7	1
1	The 3 Ms Chandra campaign on Sgr A*: a census of X-ray flaring activity from the Galactic center. <i>Proceedings of the International Astronomical Union</i> , 2013 , 9, 374-378	0.1	