

Charles F Gammie

List of Publications by Year in descending order

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89
papers

14,695
citations

41258

49
h-index

51492

86
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89
all docs

89
docs citations

89
times ranked

4741
citing authors

#	ARTICLE	IF	CITATIONS
1	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L1.	3.0	2,264
2	Local Three-dimensional Magnetohydrodynamic Simulations of Accretion Disks. <i>Astrophysical Journal</i> , 1995, 440, 742.	1.6	966
3	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L6.	3.0	897
4	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	3.0	814
5	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	3.0	806
6	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	3.0	618
7	HARM: A Numerical Scheme for General Relativistic Magnetohydrodynamics. <i>Astrophysical Journal</i> , 2003, 589, 444-457.	1.6	569
8	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.	3.0	568
9	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	3.0	519
10	Three-dimensional Magnetohydrodynamical Simulations of Vertically Stratified Accretion Disks. <i>Astrophysical Journal</i> , 1996, 463, 656.	1.6	493
11	A Measurement of the Electromagnetic Luminosity of a Kerr Black Hole. <i>Astrophysical Journal</i> , 2004, 611, 977-995.	1.6	470
12	Advection-dominated Accretion Model of Sagittarius A*: Evidence for a Black Hole at the Galactic Center. <i>Astrophysical Journal</i> , 1998, 492, 554-568.	1.6	341
13	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	3.0	297
14	RADIATIVE MODELS OF SGR A* FROM GRMHD SIMULATIONS. <i>Astrophysical Journal</i> , 2009, 706, 497-507.	1.6	252
15	Primitive Variable Solvers for Conservative General Relativistic Magnetohydrodynamics. <i>Astrophysical Journal</i> , 2006, 641, 626-637.	1.6	218
16	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	3.0	215
17	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	3.0	215
18	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020, 125, 141104.	2.9	190

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19	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.	3.0	187
20	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	3.0	175
21	Efficiency of Magnetized Thin Accretion Disks in the Kerr Metric. <i>Astrophysical Journal</i> , 1999, 522, L57-L60.	1.6	163
22	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	3.0	163
23	Universal interferometric signatures of a black hole's photon ring. <i>Science Advances</i> , 2020, 6, eaaz1310.	4.7	161
24	CHANDRA/HETGS CENSUS OF X-RAY VARIABILITY FROM Sgr A* DURING 2012. <i>Astrophysical Journal</i> , 2013, 774, 42.	1.6	146
25	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	3.0	142
26	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.	3.0	140
27	Observational appearance of inefficient accretion flows and jets in 3D GRMHD simulations: Application to Sagittarius A*. <i>Astronomy and Astrophysics</i> , 2014, 570, A7.	2.1	137
28	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	3.0	137
29	The Shadow of a Spherically Accreting Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 885, L33.	3.0	131
30	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021, 103, .	1.6	126
31	Simulating the emission and outflows from accretion discs. <i>Classical and Quantum Gravity</i> , 2007, 24, S259-S274.	1.5	122
32	LOCALITY OF MHD TURBULENCE IN ISOTHERMAL DISKS. <i>Astrophysical Journal</i> , 2009, 694, 1010-1018.	1.6	106
33	GRMONTY: A MONTE CARLO CODE FOR RELATIVISTIC RADIATIVE TRANSPORT. <i>Astrophysical Journal, Supplement Series</i> , 2009, 184, 387-397.	3.0	96
34	The Surge After the Surge: Cardiac Surgery Post-COVID-19. <i>Annals of Thoracic Surgery</i> , 2020, 110, 2020-2025.	0.7	87
35	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, 15.	1.6	83
36	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	3.0	67

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37	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	4.2	65
38	Two-temperature GRRMHD Simulations of M87. <i>Astrophysical Journal</i> , 2018, 864, 126.	1.6	63
39	RADIALLY EXTENDED, STRATIFIED, LOCAL MODELS OF ISOTHERMAL DISKS. <i>Astrophysical Journal</i> , 2011, 728, 130.	1.6	60
40	GLOBAL GENERAL RELATIVISTIC MAGNETOHYDRODYNAMIC SIMULATIONS OF BLACK HOLE ACCRETION FLOWS: A CONVERGENCE STUDY. <i>Astrophysical Journal</i> , 2012, 744, 187.	1.6	59
41	The Radiative Efficiency and Spectra of Slowly Accreting Black Holes from Two-temperature GRRMHD Simulations. <i>Astrophysical Journal Letters</i> , 2017, 844, L24.	3.0	56
42	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	3.0	56
43	A characteristic optical variability time scale in astrophysical accretion disks. <i>Science</i> , 2021, 373, 789-792.	6.0	55
44	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020, 640, A69.	2.1	54
45	POLARIZED SYNCHROTRON EMISSIVITIES AND ABSORPTIVITIES FOR RELATIVISTIC THERMAL, POWER-LAW, AND KAPPA DISTRIBUTION FUNCTIONS. <i>Astrophysical Journal</i> , 2016, 822, 34.	1.6	52
46	NUMERICAL CALCULATION OF MAGNETOBREMSSTRAHLUNG EMISSION AND ABSORPTION COEFFICIENTS. <i>Astrophysical Journal</i> , 2011, 737, 21.	1.6	51
47	IMAGING AN EVENT HORIZON: MITIGATION OF SOURCE VARIABILITY OF SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2016, 817, 173.	1.6	51
48	Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	1.6	51
49	NEAR-INFRARED AND X-RAY QUASI-PERIODIC OSCILLATIONS IN NUMERICAL MODELS OF Sgr A*. <i>Astrophysical Journal Letters</i> , 2012, 746, L10.	3.0	50
50	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.	2.1	50
51	THE X-RAY FLUX DISTRIBUTION OF SAGITTARIUS A* AS SEEN BY CHANDRA. <i>Astrophysical Journal</i> , 2015, 799, 199.	1.6	47
52	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	1.6	47
53	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.	1.6	46
54	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	1.6	44

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55	AN EXTENDED MAGNETOHYDRODYNAMICS MODEL FOR RELATIVISTIC WEAKLY COLLISIONAL PLASMAS. <i>Astrophysical Journal</i> , 2015, 810, 162.	1.6	43
56	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	1.6	43
57	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	3.0	43
58	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.	1.6	38
59	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.	3.0	37
60	Resolution Dependence of Magnetorotational Turbulence in the Isothermal Stratified Shearing Box. <i>Astrophysical Journal</i> , 2017, 840, 6.	1.6	33
61	Decomposing the internal faraday rotation of black hole accretion flows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5468-5488.	1.6	29
62	Constraining particle acceleration in Sgr A [*] with simultaneous GRAVITY, <i>Spitzer</i> , <i>NuSTAR</i> , and <i>Chandra</i> observations. <i>Astronomy and Astrophysics</i> , 2021, 654, A22.	2.1	28
63	The Structure of Radiatively Inefficient Black Hole Accretion Flows. <i>Astrophysical Journal</i> , 2020, 891, 63.	1.6	26
64	Pair Drizzle around Sub-Eddington Supermassive Black Holes. <i>Astrophysical Journal</i> , 2021, 907, 73.	1.6	26
65	PATOKA: Simulating Electromagnetic Observables of Black Hole Accretion. <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 64.	3.0	25
66	iharm3D: Vectorized General Relativistic Magnetohydrodynamics. <i>Journal of Open Source Software</i> , 2021, 6, 3336.	2.0	24
67	Axisymmetric Shearing Box Models of Magnetized Disks. <i>Astrophysical Journal, Supplement Series</i> , 2008, 174, 145-157.	3.0	21
68	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	3.0	21
69	Multiwavelength Light Curves of Two Remarkable Sagittarius A* Flares. <i>Astrophysical Journal</i> , 2018, 864, 58.	1.6	20
70	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	3.0	20
71	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	3.0	20
72	A FORMALISM FOR COVARIANT POLARIZED RADIATIVE TRANSPORT BY RAY TRACING. <i>Astrophysical Journal</i> , 2012, 752, 123.	1.6	19

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73	grim: A Flexible, Conservative Scheme for Relativistic Fluid Theories. <i>Astrophysical Journal</i> , 2017, 837, 92.	1.6	19
74	The Jetâ€™s disk Boundary Layer in Black Hole Accretion. <i>Astrophysical Journal</i> , 2021, 914, 55.	1.6	17
75	Spherical Accretion in Alternative Theories of Gravity. <i>Astrophysical Journal</i> , 2022, 925, 119.	1.6	15
76	Non-thermal models for infrared flares from Sgr A*. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 5923-5935.	1.6	13
77	Bremsstrahlung in GRMHD Models of Accreting Black Holes. <i>Astrophysical Journal</i> , 2020, 898, 50.	1.6	12
78	Disks as Inhomogeneous, Anisotropic Gaussian Random Fields. <i>Astrophysical Journal</i> , 2021, 906, 39.	1.6	11
79	Covariant Radiative Transfer for Black Hole Spacetimes. <i>Astrophysical Journal</i> , 2020, 888, 94.	1.6	11
80	Time Domain Filtering of Resolved Images of Sgr A ⁺ . <i>Astrophysical Journal</i> , 2017, 846, 29.	1.6	10
81	Updated Transfer Coefficients for Magnetized Plasmas. <i>Astrophysical Journal</i> , 2021, 921, 17.	1.6	8
82	Blandford-Znajek process in quadratic gravity. <i>Physical Review D</i> , 2022, 105, .	1.6	8
83	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	1.6	6
84	Numerical Evaluation of the Relativistic Magnetized Plasma Susceptibility Tensor and Faraday Rotation Coefficients. <i>Astrophysical Journal</i> , 2018, 868, 13.	1.6	5
85	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.	1.6	3
86	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.	0.0	2
87	Inference of Black Hole Fluid-Dynamics from Sparse Interferometric Measurements. , 2021, , .		1
88	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.	0.0	0
89	SIMULATING VLBI IMAGES OF Sgr A*, 2008, , .		0