

# Daniel R Van Rossum

## List of Publications by Year in descending order

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44  
papers

9,367  
citations

136950

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243625

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docs citations

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times ranked

3927  
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.	8.3	2,264
2	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L6.	8.3	897
3	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	8.3	814
4	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	8.3	806
5	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	8.3	618
6	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.	8.3	568
7	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	8.3	519
8	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	8.3	297
9	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
10	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
11	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020, 125, 141104.	7.8	190
12	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.	8.3	187
13	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	7.7	175
14	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	8.3	163
15	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	8.3	142
16	FAILED-DETONATION SUPERNOVAE: SUBLUMINOUS LOW-VELOCITY Ia SUPERNOVAE AND THEIR KICKED REMNANT WHITE DWARFS WITH IRON-RICH CORES. <i>Astrophysical Journal Letters</i> , 2012, 761, L23.	8.3	139
17	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	8.3	137
18	Constraints on black-hole charges with the 2017 EHT observations of M87*. <i>Physical Review D</i> , 2021, 103, .	4.7	126

#	ARTICLE	IF	CITATIONS
19	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	8.3	67
20	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	10.1	65
21	Fast evolving pair-instability supernova models: evolution, explosion, light curves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 2854-2865.	4.4	63
22	RADIATION TRANSPORT FOR EXPLOSIVE OUTFLOWS: A MULTIGROUP HYBRID MONTE CARLO METHOD. <i>Astrophysical Journal, Supplement Series</i> , 2013, 209, 36.	7.7	57
23	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	8.3	56
24	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	54
25	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	4.5	51
26	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	4.5	47
27	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	4.5	44
28	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	4.5	43
29	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	8.3	43
30	RADIATION TRANSPORT FOR EXPLOSIVE OUTFLOWS: OPACITY REGROUPING. <i>Astrophysical Journal, Supplement Series</i> , 2014, 214, 28.	7.7	40
31	THREE-DIMENSIONAL SIMULATIONS OF PURE DEFLAGRATION MODELS FOR THERMONUCLEAR SUPERNOVAE. <i>Astrophysical Journal</i> , 2014, 789, 103.	4.5	36
32	EMISSION FROM PAIR-INSTABILITY SUPERNOVAE WITH ROTATION. <i>Astrophysical Journal</i> , 2015, 799, 18.	4.5	33
33	LIGHT CURVES AND SPECTRA FROM A THERMONUCLEAR EXPLOSION OF A WHITE DWARF MERGER. <i>Astrophysical Journal</i> , 2016, 827, 128.	4.5	27
34	A PUBLIC SET OF SYNTHETIC SPECTRA FROM EXPANDING ATMOSPHERES FOR X-RAY NOVAE. I. SOLAR ABUNDANCES. <i>Astrophysical Journal</i> , 2012, 756, 43.	4.5	21
35	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
36	ON MEASURING THE METALLICITY OF A TYPE IA SUPERNOVA'S PROGENITOR. <i>Astrophysical Journal</i> , 2016, 824, 59.	4.5	20

#	ARTICLE	IF	CITATIONS
37	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	8.3	20
38	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	8.3	20
39	SYMBA: An end-to-end VLBI synthetic data generation pipeline. <i>Astronomy and Astrophysics</i> , 2020, 636, A5.	5.1	18
40	RADIATION ENERGY BALANCE METHOD FOR CALCULATING THE TIME EVOLUTION OF TYPE Ia SUPERNOVAE DURING THE POST-EXPLOSION PHASE. <i>Astrophysical Journal</i> , 2012, 756, 31.	4.5	17
41	Light Curves and Spectra from a Unimodal Core-collapse Supernova. <i>Astrophysical Journal</i> , 2017, 845, 168.	4.5	11
42	PAN-CHROMATIC OBSERVATIONS OF THE REMARKABLE NOVA LARGE MAGELLANIC CLOUD 2012. <i>Astronomical Journal</i> , 2015, 149, 95.	4.7	10
43	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6
44	COMPARING THE LIGHT CURVES OF SIMULATED TYPE Ia SUPERNOVAE WITH OBSERVATIONS USING DATA-DRIVEN MODELS. <i>Astrophysical Journal</i> , 2013, 773, 119.	4.5	5