

Eric R Coughlin

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,442
citations

331670

21
h-index

315739

38
g-index

50
all docs

50
docs citations

50
times ranked

1254
citing authors

#	ARTICLE	IF	CITATIONS
1	The Eccentric Nature of Eccentric Tidal Disruption Events. <i>Astrophysical Journal</i> , 2022, 924, 34.	4.5	10
2	Stars Crushed by Black Holes. II. A Physical Model of Adiabatic Compression and Shock Formation in Tidal Disruption Events. <i>Astrophysical Journal</i> , 2022, 926, 47.	4.5	8
3	A Physical Model of Delayed Rebrightenings in Shock-interacting Supernovae without Narrow-line Emission. <i>Astrophysical Journal</i> , 2022, 927, 148.	4.5	2
4	Stellar Revival and Repeated Flares in Deeply Plunging Tidal Disruption Events. <i>Astrophysical Journal Letters</i> , 2022, 927, L25.	8.3	10
5	Using the Hills Mechanism to Generate Repeating Partial Tidal Disruption Events and ASASSN-14ko. <i>Astrophysical Journal Letters</i> , 2022, 929, L20.	8.3	20
6	Dynamical stability of giant planets: the critical adiabatic index in the presence of a solid core. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 6215-6224.	4.4	1
7	Tidal disruption discs formed and fed by stream-stream and stream-disc interactions in global GRHD simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 510, 1627-1648.	4.4	28
8	Partial, Zombie, and Full Tidal Disruption of Stars by Supermassive Black Holes. <i>Astrophysical Journal</i> , 2021, 922, 168.	4.5	22
9	Stars Crushed by Black Holes. I. On the Energy Distribution of Stellar Debris in Tidal Disruption Events. <i>Astrophysical Journal</i> , 2021, 923, 184.	4.5	12
10	Structured, relativistic jets driven by radiation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 3158-3177.	4.4	13
11	The Gravitational Instability of Adiabatic Filaments. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 51.	7.7	17
12	A Mildly Relativistic Outflow from the Energetic, Fast-rising Blue Optical Transient CSS161010 in a Dwarf Galaxy. <i>Astrophysical Journal Letters</i> , 2020, 895, L23.	8.3	70
13	Variability in Short Gamma-Ray Bursts: Gravitationally Unstable Tidal Tails. <i>Astrophysical Journal Letters</i> , 2020, 896, L38.	8.3	10
14	The structure of nearly isothermal, adiabatic shock waves. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 496, L43-L47.	3.3	1
15	Non-thermal filaments from the tidal destruction of clouds in the Galactic centre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 1868-1877.	4.4	4
16	Fallback Rates from Partial Tidal Disruption Events. <i>Astrophysical Journal</i> , 2020, 899, 36.	4.5	32
17	The Persistence of Pancakes and the Revival of Self-gravity in Tidal Disruption Events. <i>Astrophysical Journal Letters</i> , 2020, 900, L39.	8.3	5
18	Short Gamma-Ray Bursts and the Decompression of Neutron Star Matter in Tidal Streams. <i>Astrophysical Journal Letters</i> , 2020, 900, L12.	8.3	1

#	ARTICLE	IF	CITATIONS
19	Energy-conserving Relativistic Corrections to Strong-shock Propagation. <i>Astrophysical Journal</i> , 2019, 880, 108.	4.5	9
20	The Influence of Black Hole Binarity on Tidal Disruption Events. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	6
21	Ultra-deep tidal disruption events: prompt self-intersections and observables. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 5267-5278.	4.4	11
22	On the Diversity of Fallback Rates from Tidal Disruption Events with Accurate Stellar Structure. <i>Astrophysical Journal Letters</i> , 2019, 882, L26.	8.3	43
23	Thawing the frozen-in approximation: implications for self-gravity in deeply plunging tidal disruption events. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 485, L146-L150.	3.3	42
24	Black hole accretion discs and luminous transients in failed supernovae from non-rotating supergiants. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 485, L83-L88.	3.3	66
25	An Embedded X-Ray Source Shines through the Aspherical AT2018cow: Revealing the Inner Workings of the Most Luminous Fast-evolving Optical Transients. <i>Astrophysical Journal</i> , 2019, 872, 18.	4.5	160
26	Tidal Disruption Events: The Role of Stellar Spin. <i>Astrophysical Journal</i> , 2019, 872, 163.	4.5	45
27	Weak Shock Propagation with Accretion. II. Stability of Self-similar Solutions to Radial Perturbations. <i>Astrophysical Journal</i> , 2019, 874, 58.	4.5	12
28	Partial Stellar Disruption by a Supermassive Black Hole: Is the Light Curve Really Proportional to $t^{-9/4}$?. <i>Astrophysical Journal Letters</i> , 2019, 883, L17.	8.3	58
29	Gravitational interactions of stars with supermassive black hole binaries – II. Hypervelocity stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 2132-2148.	4.4	12
30	A loud quasi-periodic oscillation after a star is disrupted by a massive black hole. <i>Science</i> , 2019, 363, 531-534.	12.6	51
31	Weak Shock Propagation with Accretion. III. A Numerical Study on Shock Propagation and Stability. <i>Astrophysical Journal</i> , 2019, 878, 150.	4.5	7
32	Gravitational interactions of stars with supermassive black hole binaries – I. Tidal disruption events. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 4009-4034.	4.4	15
33	Tidal disruption by extreme mass ratio binaries and application to ASASSN-15lh. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 3857-3865.	4.4	22
34	Mass ejection in failed supernovae: variation with stellar progenitor. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 2366-2383.	4.4	76
35	A physical model of mass ejection in failed supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1225-1238.	4.4	27
36	Super-Eddington accretion in tidal disruption events: the impact of realistic fallback rates on accretion rates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 3016-3024.	4.4	34

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37	Stellar Binaries Incident on Supermassive Black Hole Binaries: Implications for Double Tidal Disruption Events, Calcium-rich Transients, and Hypervelocity Stars. <i>Astrophysical Journal Letters</i> , 2018, 863, L24.	8.3	12
38	Weak Shock Propagation with Accretion. I. Self-similar Solutions and Application to Failed Supernovae. <i>Astrophysical Journal</i> , 2018, 863, 158.	4.5	23
39	SPHERICALLY SYMMETRIC, COLD COLLAPSE: THE EXACT SOLUTIONS AND A COMPARISON WITH SELF-SIMILAR SOLUTIONS. <i>Astrophysical Journal</i> , 2017, 835, 40.	4.5	5
40	Tidal disruption events from supermassive black hole binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 3840-3864.	4.4	62
41	Circumbinary discs from tidal disruption events. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 471, L115-L119.	3.3	5
42	The fine line between total and partial tidal disruption events. <i>Astronomy and Astrophysics</i> , 2017, 600, A124.	5.1	55
43	THE RADIATION HYDRODYNAMICS OF RELATIVISTIC SHEAR FLOWS. <i>Astrophysical Journal</i> , 2016, 825, 21.	4.5	1
44	On the structure of tidally disrupted stellar debris streams. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 3089-3103.	4.4	46
45	Post-periapsis pancakes: sustenance for self-gravity in tidal disruption events. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 3612-3627.	4.4	49
46	VARIABILITY IN TIDAL DISRUPTION EVENTS: GRAVITATIONALLY UNSTABLE STREAMS. <i>Astrophysical Journal Letters</i> , 2015, 808, L11.	8.3	66
47	VISCOUS BOUNDARY LAYERS OF RADIATION-DOMINATED, RELATIVISTIC JETS. I. THE TWO-STREAM MODEL. <i>Astrophysical Journal</i> , 2015, 809, 1.	4.5	22
48	VISCOUS BOUNDARY LAYERS OF RADIATION-DOMINATED, RELATIVISTIC JETS. II. THE FREE-STREAMING JET MODEL. <i>Astrophysical Journal</i> , 2015, 809, 2.	4.5	7
49	THE GENERAL RELATIVISTIC EQUATIONS OF RADIATION HYDRODYNAMICS IN THE VISCOUS LIMIT. <i>Astrophysical Journal</i> , 2014, 797, 103.	4.5	12
50	HYPERACCRETION DURING TIDAL DISRUPTION EVENTS: WEAKLY BOUND DEBRIS ENVELOPES AND JETS. <i>Astrophysical Journal</i> , 2014, 781, 82.	4.5	115