Eric R Coughlin

List of Publications by Year
in descending order

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		377584	355658
50 papers	1,442 citations	21 h-index	38 g-index
50 all docs	50 docs citations	50 times ranked	1340 citing authors

#	ARTICLE	IF	CITATIONS
1	The Eccentric Nature of Eccentric Tidal Disruption Events. Astrophysical Journal, 2022, 924, 34.	1.6	10
2	Stars Crushed by Black Holes. II. A Physical Model of Adiabatic Compression and Shock Formation in Tidal Disruption Events. Astrophysical Journal, 2022, 926, 47.	1.6	8
3	A Physical Model of Delayed Rebrightenings in Shock-interacting Supernovae without Narrow-line Emission. Astrophysical Journal, 2022, 927, 148.	1.6	2
4	Stellar Revival and Repeated Flares in Deeply Plunging Tidal Disruption Events. Astrophysical Journal Letters, 2022, 927, L25.	3.0	10
5	Using the Hills Mechanism to Generate Repeating Partial Tidal Disruption Events and ASASSN-14ko. Astrophysical Journal Letters, 2022, 929, L20.	3.0	20
6	Dynamical stability of giant planets: the critical adiabatic index in the presence of a solid core. Monthly Notices of the Royal Astronomical Society, 2021, 507, 6215-6224.	1.6	1
7	Tidal disruption discs formed and fed by streamâ€“stream and streamâ€“disc interactions in global GRHD simulations. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1627-1648.	1.6	28
8	Partial, Zombie, and Full Tidal Disruption of Stars by Supermassive Black Holes. Astrophysical Journal, 2021, 922, 168.	1.6	22
9	Stars Crushed by Black Holes. I. On the Energy Distribution of Stellar Debris in Tidal Disruption Events. Astrophysical Journal, 2021, 923, 184.	1.6	12
10	Structured, relativistic jets driven by radiation. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3158-3177.	1.6	13
11	The Gravitational Instability of Adiabatic Filaments. Astrophysical Journal, Supplement Series, 2020, 247, 51.	3.0	17
12	A Mildly Relativistic Outflow from the Energetic, Fast-rising Blue Optical Transient CSS161010 in a Dwarf Galaxy. Astrophysical Journal Letters, 2020, 895, L23.	3.0	70
13	Variability in Short Gamma-Ray Bursts: Gravitationally Unstable Tidal Tails. Astrophysical Journal Letters, 2020, 896, L38.	3.0	10
14	The structure of nearly isothermal, adiabatic shock waves. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 496, L43-L47.	1.2	1
15	Non-thermal filaments from the tidal destruction of clouds in the Galactic centre. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1868-1877.	1.6	4
16	Fallback Rates from Partial Tidal Disruption Events. Astrophysical Journal, 2020, 899, 36.	1.6	32
17	The Persistence of Pancakes and the Revival of Self-gravity in Tidal Disruption Events. Astrophysical Journal Letters, 2020, 900, L39.	3.0	5
18	Short Gamma-Ray Bursts and the Decompression of Neutron Star Matter in Tidal Streams. Astrophysical Journal Letters, 2020, 900, L12.	3.0	1

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19	Energy-conserving Relativistic Corrections to Strong-shock Propagation. Astrophysical Journal, 2019, 880, 108.	1.6	9
20	The Influence of Black Hole Binarity on Tidal Disruption Events. Space Science Reviews, 2019, 215, 1.	3.7	6
21	Ultra-deep tidal disruption events: prompt self-intersections and observables. Monthly Notices of the Royal Astronomical Society, 2019, 488, 5267-5278.	1.6	11
22	On the Diversity of Fallback Rates from Tidal Disruption Events with Accurate Stellar Structure. Astrophysical Journal Letters, 2019, 882, L26.	3.0	43
23	Thawing the frozen-in approximation: implications for self-gravity in deeply plunging tidal disruption events. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 485, L146-L150.	1.2	42
24	Black hole accretion discs and luminous transients in failed supernovae from non-rotating supergiants. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 485, L83-L88.	1.2	66
25	An Embedded X-Ray Source Shines through the Aspherical ATÂ2018cow: Revealing the Inner Workings of the Most Luminous Fast-evolving Optical Transients. Astrophysical Journal, 2019, 872, 18.	1.6	160
26	Tidal Disruption Events: The Role of Stellar Spin. Astrophysical Journal, 2019, 872, 163.	1.6	45
27	Weak Shock Propagation with Accretion. II. Stability of Self-similar Solutions to Radial Perturbations. Astrophysical Journal, 2019, 874, 58.	1.6	12
28	Partial Stellar Disruption by a Supermassive Black Hole: Is the Light Curve Really Proportional to t^{âˆ’9/4}?. Astrophysical Journal Letters, 2019, 883, L17.	3.0	58
29	Gravitational interactions of stars with supermassive black hole binaries â€“ II. Hypervelocity stars. Monthly Notices of the Royal Astronomical Society, 2019, 482, 2132-2148.	1.6	12
30	A loud quasi-periodic oscillation after a star is disrupted by a massive black hole. Science, 2019, 363, 531-534.	6.0	51
31	Weak Shock Propagation with Accretion. III. A Numerical Study on Shock Propagation and Stability. Astrophysical Journal, 2019, 878, 150.	1.6	7
32	Gravitational interactions of stars with supermassive black hole binaries â€“ I. Tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2018, 477, 4009-4034.	1.6	15
33	Tidal disruption by extreme mass ratio binaries and application to ASASSN-15lh. Monthly Notices of the Royal Astronomical Society, 2018, 474, 3857-3865.	1.6	22
34	Mass ejection in failed supernovae: variation with stellar progenitor. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2366-2383.	1.6	76
35	A physical model of mass ejection in failed supernovae. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1225-1238.	1.6	27
36	Super-Eddington accretion in tidal disruption events: the impactof realistic fallback rates on accretion rates. Monthly Notices of the Royal Astronomical Society, 2018, 478, 3016-3024.	1.6	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. Astrophysical Journal Letters, 2018, 863, L24.	3.0	12
38	Weak Shock Propagation with Accretion. I. Self-similar Solutions and Application to Failed Supernovae. Astrophysical Journal, 2018, 863, 158.	1.6	23
39	SPHERICALLY SYMMETRIC, COLD COLLAPSE: THE EXACT SOLUTIONS AND A COMPARISON WITH SELF-SIMILAR SOLUTIONS. Astrophysical Journal, 2017, 835, 40.	1.6	5
40	Tidal disruption events from supermassive black hole binaries. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3840-3864.	1.6	62
41	Circumbinary discs from tidal disruption events. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 471, L115-L119.	1.2	5
42	The fine line between total and partial tidal disruption events. Astronomy and Astrophysics, 2017, 600, A124.	2.1	55
43	THE RADIATION HYDRODYNAMICS OF RELATIVISTIC SHEAR FLOWS. Astrophysical Journal, 2016, 825, 21.	1.6	1
44	On the structure of tidally disrupted stellar debris streams. Monthly Notices of the Royal Astronomical Society, 2016, 459, 3089-3103.	1.6	46
45	Post-periapsis pancakes: sustenance for self-gravity in tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2016, 455, 3612-3627.	1.6	49
46	VARIABILITY IN TIDAL DISRUPTION EVENTS: GRAVITATIONALLY UNSTABLE STREAMS. Astrophysical Journal Letters, 2015, 808, L11.	3.0	66
47	VISCOUS BOUNDARY LAYERS OF RADIATION-DOMINATED, RELATIVISTIC JETS. I. THE TWO-STREAM MODEL. Astrophysical Journal, 2015, 809, 1.	1.6	22
48	VISCOUS BOUNDARY LAYERS OF RADIATION-DOMINATED, RELATIVISTIC JETS. II. THE FREE-STREAMING JET MODEL. Astrophysical Journal, 2015, 809, 2.	1.6	7
49	THE GENERAL RELATIVISTIC EQUATIONS OF RADIATION HYDRODYNAMICS IN THE VISCOUS LIMIT. Astrophysical Journal, 2014, 797, 103.	1.6	12
50	HYPERACCRETION DURING TIDAL DISRUPTION EVENTS: WEAKLY BOUND DEBRIS ENVELOPES AND JETS. Astrophysical Journal, 2014, 781, 82.	1.6	115