## Eric R Coughlin

## List of Publications by Year in Descending Order

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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.

50 959 18 30 g-index

50 1,173 5.8 5.18 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
50	The Eccentric Nature of Eccentric Tidal Disruption Events. Astrophysical Journal, 2022, 924, 34	4.7	1
49	Stars Crushed by Black Holes. II. A Physical Model of Adiabatic Compression and Shock Formation in Tidal Disruption Events. <i>Astrophysical Journal</i> , <b>2022</b> , 926, 47	4.7	1
48	A Physical Model of Delayed Rebrightenings in Shock-interacting Supernovae without Narrow-line Emission. <i>Astrophysical Journal</i> , <b>2022</b> , 927, 148	4.7	
47	Stellar Revival and Repeated Flares in Deeply Plunging Tidal Disruption Events. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 927, L25	7.9	2
46	Using the Hills Mechanism to Generate Repeating Partial Tidal Disruption Events and ASASSN-14ko. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 929, L20	7.9	2
45	Stars Crushed by Black Holes. I. On the Energy Distribution of Stellar Debris in Tidal Disruption Events. <i>Astrophysical Journal</i> , <b>2021</b> , 923, 184	4.7	4
44	Partial, Zombie, and Full Tidal Disruption of Stars by Supermassive Black Holes. <i>Astrophysical Journal</i> , <b>2021</b> , 922, 168	4.7	6
43	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> , <b>2021</b> , 507, 6215-6224	4.3	
42	The Gravitational Instability of Adiabatic Filaments. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 247, 51	8	11
41	A Mildly Relativistic Outflow from the Energetic, Fast-rising Blue Optical Transient CSS161010 in a Dwarf Galaxy. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 895, L23	7.9	34
40	Variability in Short Gamma-Ray Bursts: Gravitationally Unstable Tidal Tails. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 896, L38	7.9	9
39	The structure of nearly isothermal, adiabatic shock waves. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2020</b> , 496, L43-L47	4.3	1
38	Short Gamma-Ray Bursts and the Decompression of Neutron Star Matter in Tidal Streams. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 900, L12	7.9	O
37	Fallback Rates from Partial Tidal Disruption Events. Astrophysical Journal, 2020, 899, 36	4.7	17
36	The Persistence of Pancakes and the Revival of Self-gravity in Tidal Disruption Events. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 900, L39	7.9	4
35	Non-thermal filaments from the tidal destruction of clouds in the Galactic centre. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 501, 1868-1877	4.3	2
34	Structured, relativistic jets driven by radiation. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 499, 3158-3177	4.3	1

## (2018-2019)

disruption events. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2019</b> , 485, L146-L150	4.3	34
Black hole accretion discs and luminous transients in failed supernovae from non-rotating supergiants. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2019</b> , 485, L83-L88	4.3	40
An Embedded X-Ray Source Shines through the Aspherical AT 2018cow: Revealing the Inner Workings of the Most Luminous Fast-evolving Optical Transients. <i>Astrophysical Journal</i> , <b>2019</b> , 872, 18	4.7	108
Tidal Disruption Events: The Role of Stellar Spin. <i>Astrophysical Journal</i> , <b>2019</b> , 872, 163	4.7	34
Weak Shock Propagation with Accretion. II. Stability of Self-similar Solutions to Radial Perturbations. <i>Astrophysical Journal</i> , <b>2019</b> , 874, 58	4.7	10
Energy-conserving Relativistic Corrections to Strong-shock Propagation. <i>Astrophysical Journal</i> , <b>2019</b> , 880, 108	4.7	6
The Influence of Black Hole Binarity on Tidal Disruption Events. Space Science Reviews, 2019, 215, 1	7·5	4
Ultra-deep tidal disruption events: prompt self-intersections and observables. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 488, 5267-5278	4.3	6
On the Diversity of Fallback Rates from Tidal Disruption Events with Accurate Stellar Structure. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 882, L26	7.9	23
Weak Shock Propagation with Accretion. III. A Numerical Study on Shock Propagation and Stability. <i>Astrophysical Journal</i> , <b>2019</b> , 878, 150	4.7	5
Partial Stellar Disruption by a Supermassive Black Hole: Is the Light Curve Really Proportional to t <u>9</u> /4?. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 883, L17	7.9	28
Gravitational interactions of stars with supermassive black hole binaries III. Hypervelocity stars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 482, 2132-2148	4.3	10
A loud quasi-periodic oscillation after a star is disrupted by a massive black hole. <i>Science</i> , <b>2019</b> , 363, 537	I- <del>5</del> 334	31
Gravitational interactions of stars with supermassive black hole binaries II. Tidal disruption events. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 477, 4009-4034	4.3	13
Tidal disruption by extreme mass ratio binaries and application to ASASSN-15lh. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 474, 3857-3865	4.3	18
Mass ejection in failed supernovae: variation with stellar progenitor. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 476, 2366-2383	4.3	56
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> , <b>2018</b> , 863, L24	7.9	12
Weak Shock Propagation with Accretion. I. Self-similar Solutions and Application to Failed Supernovae. <i>Astrophysical Journal</i> , <b>2018</b> , 863, 158	4.7	19
	An Embedded X-Ray Source Shines through the Aspherical AT 2018cow: Revealing the Inner Workings of the Most Luminous Fast-evolving Optical Transients. Astrophysical Journal, 2019, 872, 18  Tidal Disruption Events: The Role of Stellar Spin. Astrophysical Journal, 2019, 872, 163  Weak Shock Propagation with Accretion. II. Stability of Self-similar Solutions to Radial Perturbations. Astrophysical Journal, 2019, 874, 58  Energy-conserving Relativistic Corrections to Strong-shock Propagation. Astrophysical Journal, 2019, 880, 108  The Influence of Black Hole Binarity on Tidal Disruption Events. Space Science Reviews, 2019, 215, 1  Ultra-deep tidal disruption events: prompt self-intersections and observables. Monthly Notices of the Royal Astronomical Society, 2019, 488, 5267-5278  On the Diversity of Fallback Rates from Tidal Disruption Events with Accurate Stellar Structure. Astrophysical Journal, 2019, 882, L26  Weak Shock Propagation with Accretion. III. A Numerical Study on Shock Propagation and Stability. Astrophysical Journal, 2019, 878, 150  Partial Stellar Disruption by a Supermassive Black Hole: Is the Light Curve Really Proportional to t B/4?. Astrophysical Journal Letters, 2019, 883, L17  Gravitational interactions of stars with supermassive black hole binaries III. Hypervelocity stars. Monthly Notices of the Royal Astronomical Society, 2019, 482, 2132-2148  A loud quasi-periodic oscillation after a star is disrupted by a massive black hole. Science, 2019, 363, 53: Gravitational interactions of stars with supermassive black hole binaries II. Tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2018, 474, 3857-3865  Mass ejection in failed supernovae: variation with stellar progenitor. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2366-2383  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	An Embedded X-Ray Source Shines through the Aspherical AT 2018cow: Revealing the Inner Workings of the Most Luminous Fast-evolving Optical Transients. Astrophysical Journal, 2019, 872, 163  47  Tidal Disruption Events: The Role of Stellar Spin. Astrophysical Journal, 2019, 872, 163  47  Weak Shock Propagation with Accretion. II. Stability of Self-similar Solutions to Radial Perturbations. Astrophysical Journal, 2019, 874, 58  Energy-conserving Relativistic Corrections to Strong-shock Propagation. Astrophysical Journal, 2019, 880, 108  47  The Influence of Black Hole Binarity on Tidal Disruption Events. Space Science Reviews, 2019, 215, 1  The Royal Astronomical Society, 2019, 488, 5267-5278  On the Diversity of Fallback Rates from Tidal Disruption Events with Accurate Stellar Structure. Astrophysical Journal Letters, 2019, 882, L26  Weak Shock Propagation with Accretion. III. A Numerical Study on Shock Propagation and Stability. Astrophysical Journal Letters, 2019, 883, L17  Gravitational interactions of stars with supermassive Black Hole: Is the Light Curve Really Proportional to t B/47. Astrophysical Journal Letters, 2019, 883, L17  Gravitational interactions of stars with supermassive black hole binaries III. Hypervelocity stars. Monthly Notices of the Royal Astronomical Society, 2019, 482, 2132-2148  A loud quasi-periodic oscillation after a star is disrupted by a massive black hole. Science, 2019, 363, 531-534  Gravitational interactions of stars with supermassive black hole binaries II. Tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2018, 477, 4009-4034  A loud quasi-periodic oscillation after a star is disrupted by a massive black hole. Science, 2019, 363, 531-534  Tidal disruption by extreme mass ratio binaries and application to ASASSN-15lh. Monthly Notices of the Royal Astronomical Society, 2018, 474, 3857-3865  43  Mass ejection in failed supernovae: variation with stellar progenitor. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2366-2383  43  Mass ejecti

15	A physical model of mass ejection in failed supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 477, 1225-1238	4.3	22
14	Super-Eddington accretion in tidal disruption events: the impactof realistic fallback rates on accretion rates. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 478, 3016-3024	4.3	24
13	SPHERICALLY SYMMETRIC, COLD COLLAPSE: THE EXACT SOLUTIONS AND A COMPARISON WITH SELF-SIMILAR SOLUTIONS. <i>Astrophysical Journal</i> , <b>2017</b> , 835, 40	4.7	4
12	Tidal disruption events from supermassive black hole binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 465, 3840-3864	4.3	51
11	The fine line between total and partial tidal disruption events. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 600, A124	5.1	40
10	Circumbinary discs from tidal disruption events. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2017</b> , 471, L115-L119	4.3	5
9	THE RADIATION HYDRODYNAMICS OF RELATIVISTIC SHEAR FLOWS. <i>Astrophysical Journal</i> , <b>2016</b> , 825, 21	4.7	1
8	Post-periapsis pancakes: sustenance for self-gravity in tidal disruption events. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 455, 3612-3627	4.3	46
7	On the structure of tidally disrupted stellar debris streams. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2016</b> , 459, 3089-3103	4.3	37
6	VARIABILITY IN TIDAL DISRUPTION EVENTS: GRAVITATIONALLY UNSTABLE STREAMS.  Astrophysical Journal Letters, <b>2015</b> , 808, L11	7.9	59
5	VISCOUS BOUNDARY LAYERS OF RADIATION-DOMINATED, RELATIVISTIC JETS. I. THE TWO-STREAM MODEL. <i>Astrophysical Journal</i> , <b>2015</b> , 809, 1	4.7	8
4	VISCOUS BOUNDARY LAYERS OF RADIATION-DOMINATED, RELATIVISTIC JETS. II. THE FREE-STREAMING JET MODEL. <i>Astrophysical Journal</i> , <b>2015</b> , 809, 2	4.7	6
3	THE GENERAL RELATIVISTIC EQUATIONS OF RADIATION HYDRODYNAMICS IN THE VISCOUS LIMIT. Astrophysical Journal, <b>2014</b> , 797, 103	4.7	12
2	HYPERACCRETION DURING TIDAL DISRUPTION EVENTS: WEAKLY BOUND DEBRIS ENVELOPES AND JETS. <i>Astrophysical Journal</i> , <b>2014</b> , 781, 82	4.7	88
1	Tidal Disruption Disks Formed and Fed by Stream-Stream and Stream-Disk Interactions in Global GRHD Simulations. <i>Monthly Notices of the Royal Astronomical Society</i> ,	4.3	4