

# Paul M Ricker

## List of Publications by Year in descending order

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71  
papers

7,996  
citations

136950

32  
h-index

95266

68  
g-index

72  
all docs

72  
docs citations

72  
times ranked

8047  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of Strong Gravity and the Nuclear Equation of State on Neutron-star Common-envelope Accretion. <i>Astrophysical Journal Letters</i> , 2021, 910, L22.	8.3	5
2	Common Envelope Shaping of Planetary Nebulae. III. The Launching of Jets in Proto-Planetary Nebulae. <i>Astrophysical Journal</i> , 2021, 914, 111.	4.5	17
3	Common Envelope Shaping of Planetary Nebulae. II. Magnetic Solutions and Self-collimated Outflows. <i>Astrophysical Journal</i> , 2020, 893, 150.	4.5	19
4	Gravitational waves from supernova mass loss and natal kicks in close binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 5560-5566.	4.4	2
5	Gravitational Radiation from Close Binaries with Time-varying Masses. <i>Astrophysical Journal</i> , 2019, 882, 39.	4.5	8
6	Search for Surviving Companions of Progenitors of Young LMC SN Ia Remnants. <i>Astrophysical Journal</i> , 2019, 886, 99.	4.5	21
7	Gravitational Waves from Accreting Neutron Stars Undergoing Common-envelope Inspiral. <i>Astrophysical Journal</i> , 2018, 857, 38.	4.5	11
8	DESCQA: An Automated Validation Framework for Synthetic Sky Catalogs. <i>Astrophysical Journal, Supplement Series</i> , 2018, 234, 36.	7.7	18
9	The Dark Energy Survey: Data Release 1. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 18.	7.7	455
10	Pulsar timing constraints on the Fermi massive black hole binary blazar population. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 481, L74-L78.	3.3	31
11	Common envelope evolution of massive stars. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 449-454.	0.0	11
12	Common Envelope Shaping of Planetary Nebulae. <i>Astrophysical Journal</i> , 2018, 860, 19.	4.5	53
13	Nature of the Diffuse Source and Its Central Point-like Source in SNR 0509-67.5. <i>Astrophysical Journal</i> , 2017, 837, 111.	4.5	14
14	The Co-evolution of a Magnetized Intracluster Medium and Hot Galactic Coronae: Magnetic Field Amplification and Turbulence Generation. <i>Astrophysical Journal</i> , 2017, 841, 38.	4.5	11
15	Physical Structures of the Type Ia Supernova Remnant N103B. <i>Astrophysical Journal</i> , 2017, 836, 85.	4.5	17
16	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017, 118, 221101.	7.8	1,987
17	A HOT BIG BANG THEORY: MAGNETIC FIELDS AND THE EARLY EVOLUTION OF THE PROTOLUNAR DISK. <i>Astrophysical Journal</i> , 2016, 828, 58.	4.5	17
18	The Dynamical Evolution of Galactic X-ray Coronae in Clusters. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 362-364.	0.0	0

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19	The dynamical origin of early-type dwarfs in galaxy clusters: a theoretical investigation. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3623-3638.	4.4	17
20	Probing satellite quenching with galaxy clustering. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1496-1501.	4.4	7
21	Ram pressure stripping of hot coronal gas from group and cluster galaxies and the detectability of surviving X-ray coronae. Monthly Notices of the Royal Astronomical Society, 2015, 449, 2312-2335.	4.4	33
22	SIMULATIONS OF THE SYMBIOTIC RECURRENT NOVA V407 CYG. I. ACCRETION AND SHOCK EVOLUTIONS. Astrophysical Journal, 2015, 806, 27.	4.5	14
23	SPATIAL AND SPECTRAL MODELING OF THE GAMMA-RAY DISTRIBUTION IN THE LARGE MAGELLANIC CLOUD. Astrophysical Journal, 2015, 808, 44.	4.5	8
24	SEARCH FOR SURVIVING COMPANIONS IN TYPE Ia SUPERNOVA REMNANTS. Astrophysical Journal, 2014, 792, 71.	4.5	33
25	Evolution of FLASH, a multi-physics scientific simulation code for high-performance computing. International Journal of High Performance Computing Applications, 2014, 28, 225-237.	3.7	38
26	The Software development process of FLASH, a multiphysics simulation code. , 2013, , .		13
27	Structure finding in cosmological simulations: the state of affairs. Monthly Notices of the Royal Astronomical Society, 2013, 435, 1618-1658.	4.4	138
28	EVOLUTION OF POST-IMPACT REMNANT HELIUM STARS IN TYPE Ia SUPERNOVA REMNANTS WITHIN THE SINGLE-DEGENERATE SCENARIO. Astrophysical Journal, 2013, 773, 49.	4.5	58
29	Pre-processing and post-processing in group cluster mergers. Monthly Notices of the Royal Astronomical Society, 2013, 435, 2713-2735.	4.4	85
30	IMPOSING A LAGRANGIAN PARTICLE FRAMEWORK ON AN EULERIAN HYDRODYNAMICS INFRASTRUCTURE IN FLASH. Astrophysical Journal, Supplement Series, 2012, 201, 27.	7.7	29
31	Scalable Algorithms for Distributed-Memory Adaptive Mesh Refinement. , 2012, , .		15
32	Theoretical uncertainties due to AGN subgrid models in predictions of galaxy cluster observable properties. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1614-1632.	4.4	19
33	EVOLUTION OF POST-IMPACT COMPANION STARS IN SN Ia REMNANTS WITHIN THE SINGLE-DEGENERATE SCENARIO. Astrophysical Journal, 2012, 760, 21.	4.5	44
34	AN AMR STUDY OF THE COMMON-ENVELOPE PHASE OF BINARY EVOLUTION. Astrophysical Journal, 2012, 746, 74.	4.5	217
35	THE FERMI BUBBLES: SUPERSONIC ACTIVE GALACTIC NUCLEUS JETS WITH ANISOTROPIC COSMIC-RAY DIFFUSION. Astrophysical Journal, 2012, 761, 185.	4.5	119
36	The heterogeneity of Type Ia supernova progenitor systems and their use as cosmic distance indicators. Proceedings of the International Astronomical Union, 2012, 8, 329-329.	0.0	0

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37	A FIRST ESTIMATE OF RADIO HALO STATISTICS FROM LARGE-SCALE COSMOLOGICAL SIMULATION. <i>Astrophysical Journal</i> , 2012, 759, 92.	4.5	6
38	IMPACT OF TYPE Ia SUPERNOVA EJECTA ON BINARY COMPANIONS IN THE SINGLE-DEGENERATE SCENARIO. <i>Astrophysical Journal</i> , 2012, 750, 151.	4.5	113
39	An examination of magnetized outflows from active galactic nuclei in galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 419, 2293-2314.	4.4	13
40	Halo es gone MADâˆ“...: The Halo-Finder Comparison Project. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 2293-2318.	4.4	302
41	Common envelope evolution. <i>New Astronomy Reviews</i> , 2010, 54, 65-71.	12.8	74
42	IMPACT OF TYPE Ia SUPERNOVA EJECTA ON A HELIUM-STAR BINARY COMPANION. <i>Astrophysical Journal</i> , 2010, 715, 78-85.	4.5	49
43	THE IMPACT OF CLUSTER STRUCTURE AND DYNAMICAL STATE ON SCATTER IN THE SUNYAEV-ZEL'DOVICH FLUX-MASS RELATION. <i>Astrophysical Journal</i> , 2010, 725, 1124-1136.	4.5	18
44	EXAMINING SUBGRID MODELS OF SUPERMASSIVE BLACK HOLES IN COSMOLOGICAL SIMULATION. <i>Astrophysical Journal</i> , 2010, 723, 1308-1318.	4.5	13
45	RINGS OF DARK MATTER IN COLLISIONS BETWEEN CLUSTERS OF GALAXIES. <i>Astrophysical Journal</i> , 2009, 696, 694-700.	4.5	14
46	THE INFLUENCE OF CONCENTRATION AND DYNAMICAL STATE ON SCATTER IN THE GALAXY CLUSTER MASS-TEMPERATURE RELATION. <i>Astrophysical Journal</i> , 2009, 699, 315-329.	4.5	24
47	A LINE-OF-SIGHT GALAXY CLUSTER COLLISION: SIMULATED X-RAY OBSERVATIONS. <i>Astrophysical Journal</i> , 2009, 699, 1004-1014.	4.5	23
48	A Direct Multigrid Poisson Solver for Octâ€Tree Adaptive Meshes. <i>Astrophysical Journal, Supplement Series</i> , 2008, 176, 293-300.	7.7	121
49	The cosmic code comparison project. <i>Computational Science &amp; Discovery</i> , 2008, 1, 015003.	1.5	99
50	The Interaction of Stellar Objects within a Common Envelope. <i>Astrophysical Journal</i> , 2008, 672, L41-L44.	4.5	138
51	The Impact of Galaxy Cluster Mergers on Cosmological Parameter Estimation from Surveys of the Sunyaevâ€Zelâ€dovich Effect. <i>Astrophysical Journal</i> , 2008, 680, 17-31.	4.5	43
52	Detecting Dark Matterâ€Dark Energy Coupling with the Halo Mass Function. <i>Astrophysical Journal</i> , 2008, 687, 7-11.	4.5	11
53	Structure and Evolution of Zelâ€dovich Pancakes as Probes of Dark Energy Models. <i>Astrophysical Journal</i> , 2008, 674, 1-10.	4.5	10
54	Xâ€Ray Observations of Optically Selected Giant Ellipticalâ€Dominated Galaxy Groups. <i>Astrophysical Journal</i> , 2008, 684, 204-211.	4.5	4

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55	The Halo Mass Function: High-Redshift Evolution and Universality. <i>Astrophysical Journal</i> , 2007, 671, 1160-1181.	4.5	184
56	Capturing Halos at High Redshifts. <i>Astrophysical Journal</i> , 2006, 642, L85-L88.	4.5	42
57	Robustness of Cosmological Simulations. I. Large-Scale Structure. <i>Astrophysical Journal, Supplement Series</i> , 2005, 160, 28-58.	7.7	108
58	Type Ia Supernovae: Simulations and Nucleosynthesis. <i>Nuclear Physics A</i> , 2005, 758, 451-454.	1.5	17
59	SIMULATIONS OF HOT BUBBLES IN THE ICM. <i>Modern Physics Letters A</i> , 2004, 19, 2317-2329.	1.2	9
60	On Heavy Element Enrichment in Classical Novae. <i>Astrophysical Journal</i> , 2004, 602, 931-937.	4.5	56
61	Morphology of Rising Hydrodynamic and Magnetohydrodynamic Bubbles from Numerical Simulations. <i>Astrophysical Journal</i> , 2004, 601, 621-643.	4.5	83
62	The Response of Model and Astrophysical Thermonuclear Flames to Curvature and Stretch. <i>Astrophysical Journal</i> , 2003, 595, 955-979.	4.5	20
63	On Validating an Astrophysical Simulation Code. <i>Astrophysical Journal, Supplement Series</i> , 2002, 143, 201-229.	7.7	176
64	Mapping Initial Hydrostatic Models in Godunov Codes. <i>Astrophysical Journal, Supplement Series</i> , 2002, 143, 539-565.	7.7	90
65	The Effect of Merger Boosts on the Luminosity, Temperature, and Inferred Mass Functions of Clusters of Galaxies. <i>Astrophysical Journal</i> , 2002, 577, 579-594.	4.5	100
66	Chandra Observations of A85: Merger of the South Subcluster. <i>Astrophysical Journal</i> , 2002, 579, 236-246.	4.5	74
67	Off-Axis Cluster Mergers: Effects of a Strongly Peaked Dark Matter Profile. <i>Astrophysical Journal</i> , 2001, 561, 621-644.	4.5	346
68	Helium Detonations on Neutron Stars. <i>Astrophysical Journal, Supplement Series</i> , 2001, 133, 195-220.	7.7	48
69	FLASH: An Adaptive Mesh Hydrodynamics Code for Modeling Astrophysical Thermonuclear Flashes. <i>Astrophysical Journal, Supplement Series</i> , 2000, 131, 273-334.	7.7	1,913
70	Off-Center Collisions between Clusters of Galaxies. <i>Astrophysical Journal</i> , 1998, 496, 670-692.	4.5	58
71	Contributions of Starburst Galaxies and Reflection-dominated Active Galactic Nuclei to the Cosmic X-Ray Background. <i>Astrophysical Journal</i> , 1993, 418, 49.	4.5	1