

# 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	CW170104: 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
2	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
3	The Dark Energy Survey: Data Release 1. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 18.	7.7	455
4	Off-axis Cluster Mergers: Effects of a Strongly Peaked Dark Matter Profile. <i>Astrophysical Journal</i> , 2001, 561, 621-644.	4.5	346
5	Halo gone MAD...: The Halo-Finder Comparison Project. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 2293-2318.	4.4	302
6	AN AMR STUDY OF THE COMMON-ENVELOPE PHASE OF BINARY EVOLUTION. <i>Astrophysical Journal</i> , 2012, 746, 74.	4.5	217
7	The Halo Mass Function: High-Redshift Evolution and Universality. <i>Astrophysical Journal</i> , 2007, 671, 1160-1181.	4.5	184
8	On Validating an Astrophysical Simulation Code. <i>Astrophysical Journal, Supplement Series</i> , 2002, 143, 201-229.	7.7	176
9	The Interaction of Stellar Objects within a Common Envelope. <i>Astrophysical Journal</i> , 2008, 672, L41-L44.	4.5	138
10	Structure finding in cosmological simulations: the state of affairs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 1618-1658.	4.4	138
11	A Direct Multigrid Poisson Solver for Oct-Tree Adaptive Meshes. <i>Astrophysical Journal, Supplement Series</i> , 2008, 176, 293-300.	7.7	121
12	THE FERMI BUBBLES: SUPERSONIC ACTIVE GALACTIC NUCLEUS JETS WITH ANISOTROPIC COSMIC-RAY DIFFUSION. <i>Astrophysical Journal</i> , 2012, 761, 185.	4.5	119
13	IMPACT OF TYPE Ia SUPERNOVA EJECTA ON BINARY COMPANIONS IN THE SINGLE-DEGENERATE SCENARIO. <i>Astrophysical Journal</i> , 2012, 750, 151.	4.5	113
14	Robustness of Cosmological Simulations. I. Large-Scale Structure. <i>Astrophysical Journal, Supplement Series</i> , 2005, 160, 28-58.	7.7	108
15	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
16	The cosmic code comparison project. <i>Computational Science &amp; Discovery</i> , 2008, 1, 015003.	1.5	99
17	Mapping Initial Hydrostatic Models in Godunov Codes. <i>Astrophysical Journal, Supplement Series</i> , 2002, 143, 539-565.	7.7	90
18	Pre-processing and post-processing in group-cluster mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 2713-2735.	4.4	85

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19	Morphology of Rising Hydrodynamic and Magnetohydrodynamic Bubbles from Numerical Simulations. <i>Astrophysical Journal</i> , 2004, 601, 621-643.	4.5	83
20	Common envelope evolution. <i>New Astronomy Reviews</i> , 2010, 54, 65-71.	12.8	74
21	Chandra Observations of A85: Merger of the South Subcluster. <i>Astrophysical Journal</i> , 2002, 579, 236-246.	4.5	74
22	EVOLUTION OF POST-IMPACT REMNANT HELIUM STARS IN TYPE Ia SUPERNOVA REMNANTS WITHIN THE SINGLE-DEGENERATE SCENARIO. <i>Astrophysical Journal</i> , 2013, 773, 49.	4.5	58
23	Off-Center Collisions between Clusters of Galaxies. <i>Astrophysical Journal</i> , 1998, 496, 670-692.	4.5	58
24	On Heavy Element Enrichment in Classical Novae. <i>Astrophysical Journal</i> , 2004, 602, 931-937.	4.5	56
25	Common Envelope Shaping of Planetary Nebulae. <i>Astrophysical Journal</i> , 2018, 860, 19.	4.5	53
26	IMPACT OF TYPE Ia SUPERNOVA EJECTA ON A HELIUM-STAR BINARY COMPANION. <i>Astrophysical Journal</i> , 2010, 715, 78-85.	4.5	49
27	Helium Detonations on Neutron Stars. <i>Astrophysical Journal</i> , Supplement Series, 2001, 133, 195-220.	7.7	48
28	EVOLUTION OF POST-IMPACT COMPANION STARS IN SN Ia REMNANTS WITHIN THE SINGLE-DEGENERATE SCENARIO. <i>Astrophysical Journal</i> , 2012, 760, 21.	4.5	44
29	The Impact of Galaxy Cluster Mergers on Cosmological Parameter Estimation from Surveys of the Sunyaev-Zel'dovich Effect. <i>Astrophysical Journal</i> , 2008, 680, 17-31.	4.5	43
30	Capturing Halos at High Redshifts. <i>Astrophysical Journal</i> , 2006, 642, L85-L88.	4.5	42
31	Evolution of FLASH, a multi-physics scientific simulation code for high-performance computing. <i>International Journal of High Performance Computing Applications</i> , 2014, 28, 225-237.	3.7	38
32	SEARCH FOR SURVIVING COMPANIONS IN TYPE Ia SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2014, 792, 71.	4.5	33
33	Ram pressure stripping of hot coronal gas from group and cluster galaxies and the detectability of surviving X-ray coronae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 2312-2335.	4.4	33
34	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
35	IMPOSING A LAGRANGIAN PARTICLE FRAMEWORK ON AN EULERIAN HYDRODYNAMICS INFRASTRUCTURE IN FLASH. <i>Astrophysical Journal</i> , Supplement Series, 2012, 201, 27.	7.7	29
36	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

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37	A LINE-OF-SIGHT GALAXY CLUSTER COLLISION: SIMULATED X-RAY OBSERVATIONS. <i>Astrophysical Journal</i> , 2009, 699, 1004-1014.	4.5	23
38	Search for Surviving Companions of Progenitors of Young LMC SN Ia Remnants. <i>Astrophysical Journal</i> , 2019, 886, 99.	4.5	21
39	The Response of Model and Astrophysical Thermonuclear Flames to Curvature and Stretch. <i>Astrophysical Journal</i> , 2003, 595, 955-979.	4.5	20
40	Theoretical uncertainties due to AGN subgrid models in predictions of galaxy cluster observable properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 1614-1632.	4.4	19
41	Common Envelope Shaping of Planetary Nebulae. II. Magnetic Solutions and Self-collimated Outflows. <i>Astrophysical Journal</i> , 2020, 893, 150.	4.5	19
42	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
43	DESCQA: An Automated Validation Framework for Synthetic Sky Catalogs. <i>Astrophysical Journal</i> , Supplement Series, 2018, 234, 36.	7.7	18
44	Type Ia Supernovae: Simulations and Nucleosynthesis. <i>Nuclear Physics A</i> , 2005, 758, 451-454.	1.5	17
45	The dynamical origin of early-type dwarfs in galaxy clusters: a theoretical investigation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 3623-3638.	4.4	17
46	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
47	Physical Structures of the Type Ia Supernova Remnant N103B. <i>Astrophysical Journal</i> , 2017, 836, 85.	4.5	17
48	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
49	Scalable Algorithms for Distributed-Memory Adaptive Mesh Refinement. , 2012, , .		15
50	RINGS OF DARK MATTER IN COLLISIONS BETWEEN CLUSTERS OF GALAXIES. <i>Astrophysical Journal</i> , 2009, 696, 694-700.	4.5	14
51	SIMULATIONS OF THE SYMBIOTIC RECURRENT NOVA V407 CYG. I. ACCRETION AND SHOCK EVOLUTIONS. <i>Astrophysical Journal</i> , 2015, 806, 27.	4.5	14
52	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
53	EXAMINING SUBGRID MODELS OF SUPERMASSIVE BLACK HOLES IN COSMOLOGICAL SIMULATION. <i>Astrophysical Journal</i> , 2010, 723, 1308-1318.	4.5	13
54	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

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55	The Software development process of FLASH, a multiphysics simulation code. , 2013, , .		13
56	Detecting Dark Matterâ€™Dark Energy Coupling with the Halo Mass Function. Astrophysical Journal, 2008, 687, 7-11.	4.5	11
57	The Co-evolution of a Magnetized Intracluster Medium and Hot Galactic Coronae: Magnetic Field Amplification and Turbulence Generation. Astrophysical Journal, 2017, 841, 38.	4.5	11
58	Gravitational Waves from Accreting Neutron Stars Undergoing Common-envelope Inspiral. Astrophysical Journal, 2018, 857, 38.	4.5	11
59	Common envelope evolution of massive stars. Proceedings of the International Astronomical Union, 2018, 14, 449-454.	0.0	11
60	Structure and Evolution of Zelâ€™dovich Pancakes as Probes of Dark Energy Models. Astrophysical Journal, 2008, 674, 1-10.	4.5	10
61	SIMULATIONS OF HOT BUBBLES IN THE ICM. Modern Physics Letters A, 2004, 19, 2317-2329.	1.2	9
62	SPATIAL AND SPECTRAL MODELING OF THE GAMMA-RAY DISTRIBUTION IN THE LARGE MAGELLANIC CLOUD. Astrophysical Journal, 2015, 808, 44.	4.5	8
63	Gravitational Radiation from Close Binaries with Time-varying Masses. Astrophysical Journal, 2019, 882, 39.	4.5	8
64	Probing satellite quenching with galaxy clustering. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1496-1501.	4.4	7
65	A FIRST ESTIMATE OF RADIO HALO STATISTICS FROM LARGE-SCALE COSMOLOGICAL SIMULATION. Astrophysical Journal, 2012, 759, 92.	4.5	6
66	The Role of Strong Gravity and the Nuclear Equation of State on Neutron-star Common-envelope Accretion. Astrophysical Journal Letters, 2021, 910, L22.	8.3	5
67	Xâ€™ray Observations of Optically Selected Giant Ellipticalâ€™Dominated Galaxy Groups. Astrophysical Journal, 2008, 684, 204-211.	4.5	4
68	Gravitational waves from supernova mass loss and natal kicks in close binaries. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5560-5566.	4.4	2
69	Contributions of Starburst Galaxies and Reflection-dominated Active Galactic Nuclei to the Cosmic X-Ray Background. Astrophysical Journal, 1993, 418, 49.	4.5	1
70	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
71	The Dynamical Evolution of Galactic X-ray Coronae in Clusters. Proceedings of the International Astronomical Union, 2015, 11, 362-364.	0.0	0