

Daisuke Kawata

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.

118
papers

3,994
citations

36
h-index

58
g-index

123
ext. papers

4,313
ext. citations

4
avg. IF

5.68
L-index

#	Paper	IF	Citations
118	Unveiling the distinct formation pathways of the inner and outer discs of the Milky Way with Bayesian Machine Learning. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 503, 2814-2824	4.3	6
117	Constraints on the dust extinction law of the Galaxy with Swift/UVOT, Gaia, and 2MASS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 505, 283-292	4.3	1
116	Constraining stellar population parameters from narrow band photometric surveys using convolutional neural networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 502, 1355-1365	4.3	2
115	Age dissection of the Milky Way discs: Red giants in the Kepler field. <i>Astronomy and Astrophysics</i> , 2021 , 645, A85	5.1	31
114	All-sky visible and near infrared space astrometry. <i>Experimental Astronomy</i> , 2021 , 51, 783	1.3	6
113	Galactic bar resonances inferred from kinematically hot stars in Gaia EDR3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 508, 728-736	4.3	2
112	The dual origin of the Galactic thick disc and halo from the gas-rich Gaia Enceladus Sausage merger. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 497, 1603-1618	4.3	33
111	Explaining the chemical trajectories of accreted and in-situ halo stars of the Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 495, 2645-2651	4.3	4
110	Age dating the Galactic bar with the nuclear stellar disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 492, 4500-4511	4.3	11
109	Towards machine-assisted meta-studies: the Hubble constant. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 492, 3217-3228	4.3	2
108	The power of coordinate transformations in dynamical interpretations of Galactic structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 497, 818-828	4.3	9
107	Stellar Overdensity in the Local Arm in Gaia DR2. <i>Astrophysical Journal</i> , 2019 , 882, 48	4.7	12
106	Signatures of resonance and phase mixing in the Galactic disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 490, 1026-1043	4.3	31
105	Spectral and spatial analysis of the dark matter subhalo candidates among Fermi Large Area Telescope unidentified sources. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019 , 2019, 045-045	6.4	11
104	Galactic rotation from Cepheids with Gaia DR2 and effects of non-axisymmetry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 482, 40-51	4.3	22
103	SPMHD simulations of structure formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 476, 2890-2904	4.3	7
102	Metallicity gradient of the thick disc progenitor at high redshift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 473, 867-878	4.3	12

101	Fourteen candidate RR Lyrae star streams in the inner Galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 4112-4129	4-3	46
100	Radial distribution of stellar motions in Gaia DR2. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018 , 479, L108-L112	4-3	60
99	A Gaia DR2 search for dwarf galaxies towards Fermi-LAT sources: implications for annihilating dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 480, 2284-2291	4-3	4
98	Gaia DR1 Evidence of Disrupting the Perseus Arm. <i>Astrophysical Journal Letters</i> , 2018 , 853, L23	7-9	23
97	Transient spiral structure and the disc velocity substructure in Gaia DR2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 481, 3794-3803	4-3	54
96	Made-to-measure modelling of observed galaxy dynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 473, 2288-2303	4-3	11
95	Origin of chemically distinct discs in the Auriga cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 3629-3639	4-3	61
94	The vertical metallicity gradients of mono-age stellar populations in the Milky Way with the RAVE and Gaia data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 475, 1203-1212	4-3	5
93	Tracing the Hercules stream with Gaia and LAMOST: new evidence for a fast bar in the Milky Way. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017 , 466, L113-L117	4-3	56
92	The vertical metallicity gradients of mono-age stellar populations in the Milky Way thin disk. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 281-282	0-1	
91	Impacts of a flaring star-forming disc and stellar radial mixing on the vertical metallicity gradient. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 464, 702-712	4-3	32
90	Star formation history in barred spiral galaxies: active galactic nucleus feedback. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 469, 3722-3737	4-3	13
89	Stars with fast Galactic rotation observed in Gaia TGAS: a signature driven by the Perseus arm?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017 , 467, L21-L25	4-3	12
88	Impacts of Radial Mixing on the Galactic Thick and Thin Disks. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 132-135	0-1	
87	Spiral arm kinematics for Milky Way stellar populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 461, 2383-2409	4-3	10
86	The mass dependence of star formation histories in barred spiral galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 463, 1074-1087	4-3	27
85	The effects of bar-spiral coupling on stellar kinematics in the Galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 461, 3835-3846	4-3	52
84	EVIDENCE OF ONGOING RADIAL MIGRATION IN NGC 6754: AZIMUTHAL VARIATIONS OF THE GAS PROPERTIES. <i>Astrophysical Journal Letters</i> , 2016 , 830, L40	7-9	38

83	Spiral-induced velocity and metallicity patterns in a cosmological zoom simulation of a Milky Way-sized galaxy. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016 , 460, L94-L98	4.3	52
82	The rotation-metallicity relation for the Galactic disk as measured in the Gaia DR1 TGAS and APOGEE data. <i>Astronomy and Astrophysics</i> , 2016 , 596, A98	5.1	21
81	Asymmetric mass models of disk galaxies. <i>Astronomy and Astrophysics</i> , 2016 , 588, A48	5.1	13
80	Radial migration in numerical simulations of Milky-Way sized galaxies. <i>Astronomische Nachrichten</i> , 2016 , 337, 957-960	0.7	8
79	METAL DIFFUSION IN SMOOTHED PARTICLE HYDRODYNAMICS SIMULATIONS OF DWARF GALAXIES. <i>Astrophysical Journal</i> , 2016 , 822, 91	4.7	19
78	Milky Way's thick and thin disk: Is there a distinct thick disk?. <i>Astronomische Nachrichten</i> , 2016 , 337, 976-981	4.7	16
77	Spiral- and bar-driven peculiar velocities in Milky Way-sized galaxy simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 453, 1867-1878	4.3	33
76	Galaxy formation with radiative and chemical feedback. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 449, 3137-3148	4.3	23
75	The stellar kinematics of corotating spiral arms in Gaia mock observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 450, 2132-2142	4.3	21
74	Impact of radial migration on stellar and gas radial metallicity distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 447, 4018-4027	4.3	44
73	Stellar Motion around Spiral Arms: Gaia Mock Data. <i>EAS Publications Series</i> , 2014 , 67-68, 247-250	0.2	
72	Numerical simulation of a possible origin of the positive radial metallicity gradient of the thick disk. <i>Research in Astronomy and Astrophysics</i> , 2014 , 14, 1406-1414	1.5	11
71	Gas and stellar motions and observational signatures of corotating spiral arms. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 443, 2757-2765	4.3	48
70	Orbits of radial migrators and non-migrators around a spiral arm in N-body simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 439, 623-638	4.3	37
69	Numerical simulations of bubble-induced star formation in dwarf irregular galaxies with a novel stellar feedback scheme. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 438, 1208-1222	4.3	24
68	M2M modelling of the Galactic disc via primal: fitting to Gaia error added data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 443, 2112-2125	4.3	19
67	Calibrating an updated smoothed particle hydrodynamics scheme within gcd+. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 428, 1968-1979	4.3	45
66	Investigating bar structure of disc galaxies via primal: a particle-by-particle M2M algorithm. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 432, 3062-3073	4.3	16

65	The connection between star formation and metallicity evolution in barred spiral galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 431, 2560-2575	4.3	25
64	Disc galaxy modelling with a particle-by-particle made-to-measure method. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 430, 1928-1939	4.3	22
63	Spiral arm pitch angle and galactic shear rate in N-body simulations of disc galaxies. <i>Astronomy and Astrophysics</i> , 2013 , 553, A77	5.1	51
62	ramses-ch: a new chemodynamical code for cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012 , 424, L11-L15	4.3	32
61	The dynamics of stars around spiral arms. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 421, 1529-1538	4.3	134
60	Towards a self-consistent numerical model of late-type galaxies: calibrating the effects of sub-grid physics on galactic models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 422, 2609-2619	4.3	26
59	The Swift/UVOT catalogue of NGC 4321 star-forming sources: a case against density wave theory. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 424, 1636-1646	4.3	23
58	Dynamics of stars around spiral arms in an N-body/SPH simulated barred spiral galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 426, 167-180	4.3	80
57	Stellar dynamics around transient co-rotating spiral arms. <i>EPJ Web of Conferences</i> , 2012 , 19, 07006	0.3	3
56	Cosmological simulations using gcmhd+. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 420, 3195-3212	4.3	18
55	Thin disc, thick disc and halo in a simulated galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 426, 690-700	4.3	135
54	Metallicity gradients in disks. <i>Astronomy and Astrophysics</i> , 2012 , 540, A56	5.1	137
53	Theory of stellar population synthesis with an application to N-body simulations. <i>Astronomy and Astrophysics</i> , 2012 , 545, A14	5.1	11
52	Metallicity gradients of disc stars for a cosmologically simulated galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 415, 1469-1478	4.3	20
51	Disc heating: comparing the Milky Way with cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 415, 2652-2664	4.3	51
50	A comparison of galaxy group luminosity functions from semi-analytic models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 415, 2798-2811	4.3	9
49	Mining the Galactic halo for very metal-poor stars. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010 , 401, L5-L9	4.3	53
48	Chemodynamical analysis of bulge stars for simulated disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 401, 1826-1831	4.3	25

47	Structure, kinematics and chemical enrichment patterns after major gas-rich disc-disc mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 402, 1489-1503	4.3	39
46	Chemical Signature of Gas-rich disc-disc Mergers at high Redshift. <i>Proceedings of the International Astronomical Union</i> , 2010 , 6, 250-254	0.1	
45	Are dry mergers dry, moist or wet?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 400, 1264-1282	4.7	17
44	THE SPATIAL DISTRIBUTIONS OF RED AND BLUE GLOBULAR CLUSTERS IN MAJOR DRY MERGER REMNANTS. <i>Astrophysical Journal</i> , 2009 , 691, 83-90	4.7	4
43	Hydrodynamical Adaptive Mesh Refinement Simulations of Disk Galaxies. <i>Proceedings of the International Astronomical Union</i> , 2008 , 4, 445-452	0.1	2
42	Strangulation in Galaxy Groups. <i>Astrophysical Journal</i> , 2008 , 672, L103-L106	4.7	189
41	Simulating the mass-metallicity relation from $z \sim 1$. <i>Astronomy and Astrophysics</i> , 2008 , 486, 711-720	5.1	14
40	High resolution science with high redshift galaxies. <i>Advances in Space Research</i> , 2008 , 41, 1965-1971	2.4	11
39	Chemical and Dynamical Properties of the Stellar Halo. <i>EAS Publications Series</i> , 2007 , 24, 269-275	0.2	2
38	The Spatial Distribution of the Galactic First Stars. II. Smoothed Particle Hydrodynamics Approach. <i>Astrophysical Journal</i> , 2007 , 661, 10-18	4.7	55
37	Two Disk Components from a Gas-Rich Disk-Disk Merger. <i>Astrophysical Journal</i> , 2007 , 658, 60-64	4.7	64
36	Galactic Wind Signatures around High-Redshift Galaxies. <i>Astrophysical Journal</i> , 2007 , 663, 38-52	4.7	33
35	Gravitational Stability of Circumnuclear Disks in Elliptical Galaxies. <i>Astrophysical Journal</i> , 2007 , 669, 232-240	4.7	22
34	Chemodynamical Simulations of Elliptical Galaxies. <i>EAS Publications Series</i> , 2007 , 24, 133-138	0.2	3
33	Disk Evolution since $z \sim 1$ in a CDM Universe. <i>Astrophysical Journal</i> , 2006 , 639, 126-135	4.7	45
32	Are Red Tidal Features Unequivocal Signatures of Major Dry Mergers?. <i>Astrophysical Journal</i> , 2006 , 648, 969-975	4.7	16
31	Origin of Two Distinct Populations in Dwarf Spheroidal Galaxies. <i>Astrophysical Journal</i> , 2006 , 641, 785-794	4.7	36
30	The Spatial Distribution of the Galactic First Stars. I. High-Resolution N-Body Approach. <i>Astrophysical Journal</i> , 2006 , 653, 285-299	4.7	47

29	On the Origin of Anomalous Velocity Clouds in the Milky Way. <i>Astrophysical Journal</i> , 2006 , 646, L53-L56	4.7	15
28	N-body simulations of the Magellanic stream. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 371, 108-120	4.3	118
27	The Emergence of the Thick Disk in a CDM Universe. II. Colors and Abundance Patterns. <i>Astrophysical Journal</i> , 2005 , 630, 298-308	4.7	86
26	Internal Alignment of the Halos of Disk Galaxies in Cosmological Hydrodynamic Simulations. <i>Astrophysical Journal</i> , 2005 , 627, L17-L20	4.7	133
25	Contrasting the chemical evolution of the Milky Way and Andromeda. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005 , 356, 1071-1078	4.3	34
24	Self-regulated active galactic nuclei heating in elliptical galaxies. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2005 , 358, L16-L20	4.3	43
23	The stellar halo metallicity–luminosity relationship for spiral galaxies. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2005 , 363, L16-L20	4.3	26
22	Mapping substructures in dark matter haloes. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2005 , 357, L35-L39	4.3	26
21	Massive elliptical galaxies in X-rays: The role of late gas accretion. <i>Astronomy and Astrophysics</i> , 2005 , 434, 553-568	5.1	28
20	Stellar halo constraints on simulated late-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 349, 52-56	4.3	61
19	Is the initial mass function of low surface brightness galaxies dominated by low-mass stars?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 353, 113-117	4.3	43
18	Cosmological simulations of the high-redshift radio universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 354, 387-392	4.3	7
17	The Emergence of the Thick Disk in a Cold Dark Matter Universe. <i>Astrophysical Journal</i> , 2004 , 612, 894-897	4.7	276
16	Photometric Properties of White Dwarf Dominated Halos. <i>Publications of the Astronomical Society of Australia</i> , 2004 , 21, 153-156	5.5	2
15	High-Resolution N-body Simulations of Galactic Cannibalism: The Magellanic Stream. <i>Publications of the Astronomical Society of Australia</i> , 2004 , 21, 222-227	5.5	17
14	Is High-Velocity Cloud Complex C Associated with the Galactic Warp?. <i>Publications of the Astronomical Society of Australia</i> , 2003 , 20, 263-269	5.5	5
13	Galactic Chemical Evolution. <i>Publications of the Astronomical Society of Australia</i> , 2003 , 20, 401-415	5.5	34
12	The Metallicity of Pregalactic Globular Clusters: The Observational Consequences of the First Stars. <i>Astrophysical Journal</i> , 2003 , 596, L187-L190	4.7	23

11	Galactic Halo Stars in Phase Space: A Hint of Satellite Accretion?. <i>Astrophysical Journal</i> , 2003 , 585, L125-L129	4.7	51
10	A Numerical Study of the Chemo-Dynamical Evolution of Elliptical Galaxies. <i>Symposium - International Astronomical Union</i> , 2003 , 208, 413-414		
9	On the origin of high-eccentricity halo stars. <i>Astrophysics and Space Science</i> , 2003 , 284, 845-848	1.6	
8	Multiwavelength cosmological simulations of elliptical galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 346, 135-152	4.3	48
7	GCD+: a new chemodynamical approach to modelling supernovae and chemical enrichment in elliptical galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 340, 908-922	4.3	182
6	Simulating a white dwarf dominated Galactic halo. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 343, 913-923	4.3	12
5	Simulating the Hot X-Ray Emitting Gas in Elliptical Galaxies. <i>Astrophysics and Space Science Library</i> , 2003 , 315-320	0.3	
4	Galactic Cannibalism: The Origin of the Magellanic Stream. <i>Astrophysics and Space Science</i> , 2002 , 281, 421-422	1.6	5
3	Effects of Type II and Type Ia Supernovae Feedback on the Chemodynamical Evolution of Elliptical Galaxies. <i>Astrophysical Journal</i> , 2001 , 558, 598-614	4.7	66
2	The Role of Clustering of Subclumps in Bright Elliptical Galaxy Formation from a Low-Spin Seed Galaxy. <i>Astrophysical Journal</i> , 2001 , 548, 703-711	4.7	13
1	Galaxy Formation from a Low-Spin Density Perturbation in a CDM Universe. <i>Publication of the Astronomical Society of Japan</i> , 1999 , 51, 931-941	3.2	29