

Daisuke Kawata

List of Publications by Year in descending order

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123
papers

4,736
citations

81743

39
h-index

110170

64
g-index

123
all docs

123
docs citations

123
times ranked

3193
citing authors

#	ARTICLE	IF	CITATIONS
1	The Emergence of the Thick Disk in a Cold Dark Matter Universe. <i>Astrophysical Journal</i> , 2004, 612, 894-899.	1.6	321
2	Strangulation in Galaxy Groups. <i>Astrophysical Journal</i> , 2008, 672, L103-L106.	1.6	219
3	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.	1.6	191
4	Metallicity gradients in disks. <i>Astronomy and Astrophysics</i> , 2012, 540, A56.	2.1	164
5	Thin disc, thick disc and halo in a simulated galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 426, 690-700.	1.6	163
6	The dynamics of stars around spiral arms. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 1529-1538.	1.6	152
7	Internal Alignment of the Halos of Disk Galaxies in Cosmological Hydrodynamic Simulations. <i>Astrophysical Journal</i> , 2005, 627, L17-L20.	1.6	140
8	N-body simulations of the Magellanic stream. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 371, 108-120.	1.6	122
9	The Emergence of the Thick Disk in a CDM Universe. II. Colors and Abundance Patterns. <i>Astrophysical Journal</i> , 2005, 630, 298-308.	1.6	97
10	Origin of chemically distinct discs in the Auriga cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 3629-3639.	1.6	97
11	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.	1.6	91
12	Age dissection of the Milky Way discs: Red giants in the Kepler field. <i>Astronomy and Astrophysics</i> , 2021, 645, A85.	2.1	85
13	Radial distribution of stellar motions in Gaia DR2. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 479, L108-L112.	1.2	83
14	Two Disk Components from a Gas-Rich Disk-Disk Merger. <i>Astrophysical Journal</i> , 2007, 658, 60-64.	1.6	74
15	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.	1.6	73
16	Transient spiral structure and the disc velocity substructure in Gaia DR2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 3794-3803.	1.6	72
17	Effects of Type II and Type Ia Supernovae Feedback on the Chemodynamical Evolution of Elliptical Galaxies. <i>Astrophysical Journal</i> , 2001, 558, 598-614.	1.6	71
18	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.	1.6	71

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19	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.	1.2	70
20	Fourteen candidate RR Lyrae star streams in the inner Galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 4112-4129.	1.6	63
21	Galactic Halo Stars in Phase Space: A Hint of Satellite Accretion?. <i>Astrophysical Journal</i> , 2003, 585, L125-L129.	1.6	62
22	Mining the Galactic halo for very metal-poor stars. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 401, L5-L9.	1.2	62
23	Stellar halo constraints on simulated late-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 349, 52-56.	1.6	61
24	Tracing the <i>Hercules</i> stream with <i>Gaia</i> 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.	1.2	61
25	Disc heating: comparing the Milky Way with cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 2652-2664.	1.6	59
26	Spiral arm pitch angle and galactic shear rate in <i>N</i> -body simulations of disc galaxies. <i>Astronomy and Astrophysics</i> , 2013, 553, A77.	2.1	58
27	The Spatial Distribution of the Galactic First Stars. II. Smoothed Particle Hydrodynamics Approach. <i>Astrophysical Journal</i> , 2007, 661, 10-18.	1.6	57
28	Impact of radial migration on stellar and gas radial metallicity distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 4018-4027.	1.6	54
29	Gas and stellar motions and observational signatures of corotating spiral arms. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 2757-2765.	1.6	53
30	Signatures of resonance and phase mixing in the Galactic disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 1026-1043.	1.6	52
31	Disk Evolution since $z \approx 1$ in a CDM Universe. <i>Astrophysical Journal</i> , 2006, 639, 126-135.	1.6	51
32	Multiwavelength cosmological simulations of elliptical galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 346, 135-152.	1.6	50
33	EVIDENCE OF ONGOING RADIAL MIGRATION IN NGC 6754: AZIMUTHAL VARIATIONS OF THE GAS PROPERTIES. <i>Astrophysical Journal Letters</i> , 2016, 830, L40.	3.0	50
34	The Spatial Distribution of the Galactic First Stars. I. High-Resolution N-Body Approach. <i>Astrophysical Journal</i> , 2006, 653, 285-299.	1.6	48
35	Calibrating an updated smoothed particle hydrodynamics scheme within <i>gadget</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 1968-1979.	1.6	47
36	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.	1.6	46

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37	Galactic Chemical Evolution. Publications of the Astronomical Society of Australia, 2003, 20, 401-415.	1.3	45
38	Self-regulated active galactic nuclei heating in elliptical galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 358, L16-L20.	1.2	44
39	Orbits of radial migrators and non-migrators around a spiral arm in N-body simulations. Monthly Notices of the Royal Astronomical Society, 2014, 439, 623-638.	1.6	41
40	Structure, kinematics and chemical enrichment patterns after major gas-rich disc-disc mergers. Monthly Notices of the Royal Astronomical Society, 2010, 402, 1489-1503.	1.6	40
41	Impacts of a flaring star-forming disc and stellar radial mixing on the vertical metallicity gradient. Monthly Notices of the Royal Astronomical Society, 2017, 464, 702-712.	1.6	40
42	Spiral- and bar-driven peculiar velocities in Milky Way-sized galaxy simulations. Monthly Notices of the Royal Astronomical Society, 2015, 453, 1867-1878.	1.6	38
43	Origin of Two Distinct Populations in Dwarf Spheroidal Galaxies. Astrophysical Journal, 2006, 641, 785-794.	1.6	36
44	RAMSES-CH: a new chemodynamical code for cosmological simulations. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 424, L11-L15.	1.2	36
45	Contrasting the chemical evolution of the Milky Way and Andromeda. Monthly Notices of the Royal Astronomical Society, 2005, 356, 1071-1078.	1.6	34
46	Galaxy formation with radiative and chemical feedback. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3137-3148.	1.6	34
47	Galactic Wind Signatures around High-Redshift Galaxies. Astrophysical Journal, 2007, 663, 38-52.	1.6	33
48	The mass dependence of star formation histories in barred spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1074-1087.	1.6	32
49	Galactic rotation from Cepheids with Gaia DR2 and effects of non-axisymmetry. Monthly Notices of the Royal Astronomical Society, 2019, 482, 40-51.	1.6	30
50	Galaxy Formation from a Low-Spin Density Perturbation in a CDM Universe. Publication of the Astronomical Society of Japan, 1999, 51, 931-941.	1.0	29
51	Massive elliptical galaxies in X-rays: The role of late gas accretion. Astronomy and Astrophysics, 2005, 434, 553-568.	2.1	29
52	Mapping substructures in dark matter haloes. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 357, L35-L39.	1.2	28
53	The stellar halo metallicity–luminosity relationship for spiral galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 363, L16-L20.	1.2	27
54	The connection between star formation and metallicity evolution in barred spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 431, 2560-2575.	1.6	27

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55	Gaia DR1 Evidence of Disrupting the Perseus Arm. <i>Astrophysical Journal Letters</i> , 2018, 853, L23.	3.0	27
56	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.	1.6	26
57	Age dating the Galactic bar with the nuclear stellar disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 4500-4511.	1.6	26
58	Chemodynamical analysis of bulge stars for simulated disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 401, 1826-1831.	1.6	25
59	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.	1.6	25
60	The rotation-metallicity relation for the Galactic disk as measured in the <i>Gaia</i> DR1 TGAS and APOGEE data. <i>Astronomy and Astrophysics</i> , 2016, 596, A98.	2.1	25
61	Spectral and spatial analysis of the dark matter subhalo candidates among <i>Fermi</i> Large Area Telescope unidentified sources. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 045-045.	1.9	25
62	The Metallicity of Pregalactic Globular Clusters: The Observational Consequences of the First Stars. <i>Astrophysical Journal</i> , 2003, 596, L187-L190.	1.6	23
63	The <i>Swift</i> /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.	1.6	23
64	The stellar kinematics of corotating spiral arms in Gaia mock observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2132-2142.	1.6	23
65	Gravitational Stability of Circumnuclear Disks in Elliptical Galaxies. <i>Astrophysical Journal</i> , 2007, 669, 232-240.	1.6	22
66	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.	1.6	22
67	Metallicity gradients of disc stars for a cosmologically simulated galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 1469-1478.	1.6	21
68	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.	1.6	21
69	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.	1.6	20
70	METAL DIFFUSION IN SMOOTHED PARTICLE HYDRODYNAMICS SIMULATIONS OF DWARF GALAXIES. <i>Astrophysical Journal</i> , 2016, 822, 91.	1.6	20
71	Milky Way's thick and thin disk: Is there a distinct thick disk?. <i>Astronomische Nachrichten</i> , 2016, 337, 976-981.	0.6	20
72	Are dry mergers dry, moist or wet?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 1264-1282.	1.6	19

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73	Cosmological simulations using gcmhd+. Monthly Notices of the Royal Astronomical Society, 2012, 420, 3195-3212.	1.6	19
74	Stellar Overdensity in the Local Arm in Gaia DR2. Astrophysical Journal, 2019, 882, 48.	1.6	18
75	High-Resolution N-body Simulations of Galactic Cannibalism: The Magellanic Stream. Publications of the Astronomical Society of Australia, 2004, 21, 222-227.	1.3	17
76	Are Red Tidal Features Unequivocal Signatures of Major Dry Mergers?. Astrophysical Journal, 2006, 648, 969-975.	1.6	16
77	Investigating bar structure of disc galaxies via primal: a particle-by-particle M2M algorithm. Monthly Notices of the Royal Astronomical Society, 2013, 432, 3062-3073.	1.6	16
78	On the Origin of Anomalous Velocity Clouds in the Milky Way. Astrophysical Journal, 2006, 646, L53-L56.	1.6	15
79	Simulating the mass-metallicity relation from $\langle z \rangle_{\text{sim}} \approx 1$. Astronomy and Astrophysics, 2008, 486, 711-720.	2.1	15
80	Numerical simulation of a possible origin of the positive radial metallicity gradient of the thick disk. Research in Astronomy and Astrophysics, 2014, 14, 1406-1414.	0.7	15
81	Galactic bar resonances inferred from kinematically hot stars in <i>Gaia</i> EDR3. Monthly Notices of the Royal Astronomical Society, 2021, 508, 728-736.	1.6	15
82	High resolution science with high redshift galaxies. Advances in Space Research, 2008, 41, 1965-1971.	1.2	14
83	Asymmetric mass models of disk galaxies. Astronomy and Astrophysics, 2016, 588, A48.	2.1	14
84	Star formation history in barred spiral galaxies with active galactic nucleus feedback. Monthly Notices of the Royal Astronomical Society, 2017, 469, 3722-3737.	1.6	14
85	Metallicity gradient of the thick disc progenitor at high redshift. Monthly Notices of the Royal Astronomical Society, 2018, 473, 867-878.	1.6	14
86	Made-to-measure modelling of observed galaxy dynamics. Monthly Notices of the Royal Astronomical Society, 2018, 473, 2288-2303.	1.6	14
87	The power of coordinate transformations in dynamical interpretations of Galactic structure. Monthly Notices of the Royal Astronomical Society, 2020, 497, 818-828.	1.6	14
88	The Role of Clustering of Subclumps in Bright Elliptical Galaxy Formation from a Low-Spin Seed Galaxy. Astrophysical Journal, 2001, 548, 703-711.	1.6	14
89	Simulating a white dwarf dominated Galactic halo. Monthly Notices of the Royal Astronomical Society, 2003, 343, 913-923.	1.6	13
90	All-sky visible and near infrared space astrometry. Experimental Astronomy, 2021, 51, 783-843.	1.6	13

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91	Theory of stellar population synthesis with an application to <i>N</i> -body simulations. <i>Astronomy and Astrophysics</i> , 2012, 545, A14.	2.1	12
92	Spiral arm kinematics for Milky Way stellar populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 2383-2409.	1.6	12
93	Stars with fast Galactic rotation observed in <i>Gaia</i> TGAS: a signature driven by the Perseus arm?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 467, L21-L25.	1.2	12
94	A comparison of galaxy group luminosity functions from semi-analytic models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 2798-2811.	1.6	10
95	SPMHD simulations of structure formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 2890-2904.	1.6	10
96	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.	1.6	10
97	Radial migration in numerical simulations of Milky Way sized galaxies. <i>Astronomische Nachrichten</i> , 2016, 337, 957-960.	0.6	9
98	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.	1.6	9
99	Cosmological simulations of the high-redshift radio universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 354, 387-392.	1.6	7
100	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.	1.6	6
101	Galactic Cannibalism: The Origin of the Magellanic Stream. <i>Astrophysics and Space Science</i> , 2002, 281, 421-422.	0.5	5
102	Is High-Velocity Cloud Complex C Associated with the Galactic Warp?. <i>Publications of the Astronomical Society of Australia</i> , 2003, 20, 263-269.	1.3	5
103	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.	1.6	5
104	THE SPATIAL DISTRIBUTIONS OF RED AND BLUE GLOBULAR CLUSTERS IN MAJOR DRY MERGER REMNANTS. <i>Astrophysical Journal</i> , 2009, 691, 83-90.	1.6	4
105	Towards machine-assisted meta-studies: the Hubble constant. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 3217-3228.	1.6	4
106	Stellar dynamics around transient co-rotating spiral arms. <i>EPJ Web of Conferences</i> , 2012, 19, 07006.	0.1	3
107	Chemodynamical Simulations of Elliptical Galaxies. <i>EAS Publications Series</i> , 2007, 24, 133-138.	0.3	3
108	Age distribution of stars in boxy/peanut/X-shaped bulges formed without bar buckling. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 2850-2861.	1.6	3

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109	Photometric Properties of White Dwarf Dominated Halos. Publications of the Astronomical Society of Australia, 2004, 21, 153-156.	1.3	2
110	Chemical and Dynamical Properties of the Stellar Halo. EAS Publications Series, 2007, 24, 269-275.	0.3	2
111	Hydrodynamical Adaptive Mesh Refinement Simulations of Disk Galaxies. Proceedings of the International Astronomical Union, 2008, 4, 445-452.	0.0	2
112	Constraints on the dust extinction law of the Galaxy with <i>Swift</i> /UVOT, <i>Gaia</i> , and <i>2MASS</i> . Monthly Notices of the Royal Astronomical Society, 2021, 505, 283-292.	1.6	2
113	Fragmentation of Collapsing Gas Disks in External Potentials. Publication of the Astronomical Society of Japan, 1998, 50, 547-558.	1.0	1
114	On the origin of high-eccentricity halo stars. Astrophysics and Space Science, 2003, 284, 845-848.	0.5	1
115	Constraining ultra light dark matter with the Galactic nuclear star cluster. Monthly Notices of the Royal Astronomical Society, 2022, 511, 1757-1770.	1.6	1
116	A Numerical Study of the Chemo-Dynamical Evolution of Elliptical Galaxies. Symposium - International Astronomical Union, 2003, 208, 413-414.	0.1	0
117	The Fifth Workshop on Galactic Chemodynamics. Publications of the Astronomical Society of Australia, 2004, 21, i-ii.	1.3	0
118	Chemical Signature of Gas-rich disc-disc Mergers at high Redshift. Proceedings of the International Astronomical Union, 2010, 6, 250-254.	0.0	0
119	Stellar Motion around Spiral Arms:GaiaMock Data. EAS Publications Series, 2014, 67-68, 247-250.	0.3	0
120	Impacts of Radial Mixing on the Galactic Thick and Thin Disks. Proceedings of the International Astronomical Union, 2017, 13, 132-135.	0.0	0
121	The vertical metallicity gradients of mono-age stellar populations in the Milky Way thin disk. Proceedings of the International Astronomical Union, 2017, 13, 281-282.	0.0	0
122	Simulating the Hot X-Ray Emitting Gas in Elliptical Galaxies. Astrophysics and Space Science Library, 2003, , 315-320.	1.0	0
123	Formation and evolution of massive elliptical galaxies in clusters: a consistent picture from optical and X-ray properties. , 2004, , .		0