

# Liang Gao

## List of Publications by Year in descending order

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94  
papers

14,118  
citations

61945

43  
h-index

43868

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g-index

94  
all docs

94  
docs citations

94  
times ranked

8339  
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of filaments on dwarf galaxy properties in the Auriga simulations. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2488-2496.	1.6	3
2	About One-point Statistics of the Ratio of Two Fourier-transformed Cosmic Fields and an Application. Astrophysical Journal, 2022, 933, 24.	1.6	0
3	Formation of massive disc galaxies in the IllustrisTNG simulation. Monthly Notices of the Royal Astronomical Society, 2021, 507, 3301-3311.	1.6	17
4	The role of mergers and gas accretion in black hole growth and galaxy evolution. Research in Astronomy and Astrophysics, 2021, 21, 212.	0.7	7
5	The formation and evolution of massive galaxies. Research in Astronomy and Astrophysics, 2021, 21, 218.	0.7	1
6	Further evidence for a population of dark-matter-deficient dwarf galaxies. Nature Astronomy, 2020, 4, 246-251.	4.2	50
7	Simulating kilonovae in the $\Lambda$ CDM universe. Monthly Notices of the Royal Astronomical Society, 2020, 498, 926-939.	1.6	4
8	LESSER: a catalogue of spectroscopically selected sample of Lyman- $\alpha$ emitters lensed by galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3610-3619.	1.6	11
9	Constraining the inner density slope of massive galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4717-4733.	1.6	15
10	Galaxy properties in the cosmic web of EAGLE simulation. Monthly Notices of the Royal Astronomical Society, 2020, 498, 1839-1851.	1.6	11
11	The effect of hydrodynamics alone on the subhalo population in a $\Lambda$ CDM rich cluster sized dark matter halo. Research in Astronomy and Astrophysics, 2020, 20, 174.	0.7	1
12	Dark-matter-deficient galaxies in hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3298-3307.	1.6	11
13	The $H\alpha$ bias during the Epoch of Reionization. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5739-5748.	1.6	5
14	The optimal gravitational softening length for cosmological N-body simulations. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1227-1232.	1.6	13
15	Impact of filaments on galaxy formation in their residing dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2019, 485, 464-473.	1.6	22
16	Comparing galaxy morphology in hydrodynamical simulation and in semi-analytic model. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2083-2091.	1.6	5
17	The abundance of satellite galaxies in the inner region of $\Lambda$ CDM Milky Way sized haloes. Monthly Notices of the Royal Astronomical Society, 2019, 483, 2000-2006.	1.6	8
18	Ultra-diffuse galaxies in the Auriga simulations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5182-5195.	1.6	55

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19	GABE: Galaxy Assembly with Binary Evolution. <i>Research in Astronomy and Astrophysics</i> , 2019, 19, 151.	0.7	4
20	The large-scale effect of environment on galactic conformity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 3136-3144.	1.6	7
21	Resolution of the apparent discrepancy between the number of massive subhaloes in Abell 2744 and $\Lambda$ CDM. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 478, L34-L38.	1.2	6
22	PHOTO-N: A parallel heterogeneous and threads oriented code for cosmological $N$ -body simulation. <i>Research in Astronomy and Astrophysics</i> , 2018, 18, 062.	0.7	10
23	SDSS-IV MaNGA: a distinct mass distribution explored in slow-rotating early-type galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 230-235.	1.6	15
24	Do satellite galaxies trace matter in galaxy clusters?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4020-4026.	1.6	9
25	Peptide-Au Cluster Probe: Precisely Detecting Epidermal Growth Factor Receptor of Three Tumor Cell Lines at a Single-Cell Level. <i>ACS Omega</i> , 2017, 2, 276-282.	1.6	16
26	The galaxy population in cold and warm dark matter cosmologies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 4579-4591.	1.6	18
27	Photodynamic Therapy: Au Nanoclusters and Photosensitizer Dual Loaded Spatiotemporal Controllable Liposomal Nanocomposites Enhance Tumor Photodynamic Therapy Effect by Inhibiting Thioredoxin Reductase ( <i>Adv. Healthcare Mater.</i> 7/2017). <i>Advanced Healthcare Materials</i> , 2017, 6, .	3.9	0
28	Peptide-Au Clusters Induced Tumor Cells Apoptosis via Targeting Glutathione Peroxidase-1: The Molecular Dynamics Assisted Experimental Studies. <i>Scientific Reports</i> , 2017, 7, 131.	1.6	20
29	Au Nanoclusters and Photosensitizer Dual Loaded Spatiotemporal Controllable Liposomal Nanocomposites Enhance Tumor Photodynamic Therapy Effect by Inhibiting Thioredoxin Reductase. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601453.	3.9	30
30	Substructure and galaxy formation in the Copernicus Complexio warm dark matter simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 4520-4533.	1.6	72
31	The segregation of baryons and dark matter during halo assembly. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 2262-2269.	1.6	16
32	A Universe of ultradiffuse galaxies: theoretical predictions from $\Lambda$ CDM simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 4231-4240.	1.6	87
33	Massive quiescent galaxies at $z > 3$ in the Millennium simulation populated by a semi-analytic galaxy formation model. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 471, L36-L40.	1.2	10
34	Projection effects in the strong lensing study of subhaloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 1426-1432.	1.6	51
35	Atomic structure of a peptide coated gold nanocluster identified using theoretical and experimental studies. <i>Nanoscale</i> , 2016, 8, 11454-11460.	2.8	16
36	Peptide protected gold clusters: chemical synthesis and biomedical applications. <i>Nanoscale</i> , 2016, 8, 12095-12104.	2.8	97

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37	Constraints on the identity of the dark matter from strong gravitational lenses. Monthly Notices of the Royal Astronomical Society, 2016, 460, 363-372.	1.6	59
38	Photocontrolled Reversible Luminescent Lanthanide Molecular Switch Based on a Diarylethene-Europium Dyad. Inorganic Chemistry, 2016, 55, 7962-7968.	1.9	44
39	Folate-Conjugated Magnetic Nanoparticles for Tumor Hyperthermia Therapy: <i>In Vitro</i> and <i>In Vivo</i> Studies. Journal of Nanoscience and Nanotechnology, 2016, 16, 8352-8359.	0.9	4
40	Alignments between galaxies, satellite systems and haloes. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3772-3783.	1.6	47
41	Cluster gas fraction as a test of gravity. Monthly Notices of the Royal Astronomical Society, 2016, 456, 146-155.	1.6	23
42	Distinguishing general relativity and $f(R)$ functionals. Physical Review D, 2015, 92, .	1.6	14
43	Assembly history of subhalo populations in galactic and cluster sized dark haloes. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1697-1703.	1.6	15
44	Surface photometry of brightest cluster galaxies and intracluster stars in $\Lambda$ CDM. Monthly Notices of the Royal Astronomical Society, 2015, 451, 2703-2722.	1.6	65
45	The size evolution of elliptical galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 447, 636-645.	1.6	10
46	Star-forming filaments in warm dark matter models. Monthly Notices of the Royal Astronomical Society, 2015, 450, 45-52.	1.6	11
47	Bio-inspired peptide-Au cluster applied for mercury (II) ions detection. Science China Chemistry, 2015, 58, 819-824.	4.2	18
48	How well can cold dark matter substructures account for the observed radio flux-ratio anomalies. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3189-3206.	1.6	93
49	Peptide-Conjugated Gold Nanoprobe: Intrinsic Nanozyme-Linked Immunosorbant Assay of Integrin Expression Level on Cell Membrane. ACS Nano, 2015, 9, 10979-10990.	7.3	99
50	Exploring the liminality: properties of haloes and subhaloes in borderline $f(R)$ gravity. Monthly Notices of the Royal Astronomical Society, 2015, 452, 3179-3191.	1.6	39
51	The properties of warm dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2014, 439, 300-317.	1.6	360
52	Cytotoxicity and therapeutic effect of irinotecan combined with selenium nanoparticles. Biomaterials, 2014, 35, 8854-8866.	5.7	118
53	The Local Void: for or against $\Lambda$ CDM?. Monthly Notices of the Royal Astronomical Society, 2014, 441, 933-938.	1.6	11
54	Plasmon-Mediated Generation of Reactive Oxygen Species from Near-Infrared Light Excited Gold Nanocages for Photodynamic Therapy <i>In Vitro</i> . ACS Nano, 2014, 8, 7260-7271.	7.3	223

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55	The growth in size and mass of cluster galaxies since $z=2$ . Monthly Notices of the Royal Astronomical Society, 2013, 435, 901-909.	1.6	85
56	Assembly bias of dwarf-sized dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2013, 435, 3592-3599.	1.6	12
57	The phase-space density of fermionic dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2013, 430, 2346-2357.	1.6	84
58	BRIGHT 22 $\mu\text{m}$ EXCESS CANDIDATES FROM THE <i>WISE</i> ALL-SKY CATALOG AND THE <i>HIPPARCOS</i> MAIN CATALOG. Astrophysical Journal, Supplement Series, 2013, 208, 29.	3.0	25
59	Gamma rays from warm WIMP dark matter annihilation. Physical Review D, 2012, 86, .	1.6	9
60	Constraining extended gamma-ray emission from galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1651-1665.	1.6	58
61	BULK FLOW OF HALOS IN $\Lambda$ CDM SIMULATION. Astrophysical Journal, 2012, 761, 151.	1.6	22
62	The Phoenix Project: the dark side of rich Galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2169-2186.	1.6	161
63	Where will supersymmetric dark matter first be seen?. Monthly Notices of the Royal Astronomical Society, 2012, 419, 1721-1726.	1.6	104
64	Effects of supermassive binary black holes on gravitational lenses. Monthly Notices of the Royal Astronomical Society, 2012, 419, 2424-2432.	1.6	5
65	The haloes of bright satellite galaxies in a warm dark matter universe. Monthly Notices of the Royal Astronomical Society, 2012, 420, 2318-2324.	1.6	329
66	On the effects of line-of-sight structures on lensing flux-ratio anomalies in a $\Lambda$ CDM universe. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2553-2567.	1.6	59
67	The missing massive satellites of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2012, 424, 2715-2721.	1.6	162
68	The statistics of the subhalo abundance of dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2011, 410, 2309-2314.	1.6	80
69	Non-universality of halo profiles and implications for dark matter experiments. Monthly Notices of the Royal Astronomical Society, 2011, 415, 3177-3188.	1.6	24
70	Substructure lensing: effects of galaxies, globular clusters and satellite streams. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1721-1729.	1.6	32
71	The earliest stars and their relics in the Milky Way. Monthly Notices of the Royal Astronomical Society, 2010, 403, 1283-1295.	1.6	35
72	Effects of dark matter substructures on gravitational lensing: results from the Aquarius simulations. Monthly Notices of the Royal Astronomical Society, 2009, 398, 1235-1253.	1.6	94

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73	The Aquarius Project: Cold Dark Matter under a Numerical Microscope. , 2009, , 93-108.		0
74	The redshift dependence of the structure of massive $\Lambda$ cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2008, 387, 536-544.	1.6	408
75	On halo formation times and assembly bias. Monthly Notices of the Royal Astronomical Society, 2008, 389, 1419-1426.	1.6	123
76	Mass loss of galaxies due to an ultraviolet background. Monthly Notices of the Royal Astronomical Society, 2008, 390, 920-928.	1.6	443
77	the nature of CO emission from documentclass{aastex} usepackage{amssymb} usepackage{amsbsy} usepackage{amsmath,amsxtra} usepackage{OT2,OT1}{fontenc} ewcommandmdefault{wncyr} anewcommandmdefault{wncyss} anewcommandencodingdefault{OT2} ormalfont selectfont} DeclareTextFontCommand{extcyr}	3.0	39
78	Lighting the Universe with Filaments. Science, 2007, 317, 1527-1530.	6.0	89
79	Formation of $\Lambda$ Quasars from Hierarchical Galaxy Mergers. Astrophysical Journal, 2007, 665, 187-208.	1.6	253
80	Halo assembly bias and its effects on galaxy clustering. Monthly Notices of the Royal Astronomical Society, 2007, 374, 1303-1309.	1.6	243
81	The first generation of stars in the $\Lambda$ cold dark matter cosmology. Monthly Notices of the Royal Astronomical Society, 2007, 378, 449-468.	1.6	102
82	The statistics of $\Lambda$ CDM halo concentrations. Monthly Notices of the Royal Astronomical Society, 2007, 381, 1450-1462.	1.6	627
83	Assembly bias in the clustering of dark matter haloes. Monthly Notices of the Royal Astronomical Society: Letters, 2007, 377, L5-L9.	1.2	285
84	The Dependence of the Occupation of Galaxies on the Halo Formation Time. Astrophysical Journal, 2006, 639, L5-L8.	1.6	80
85	The Influence of Baryons on the Clustering of Matter and Weak-Lensing Surveys. Astrophysical Journal, 2006, 640, L119-L122.	1.6	168
86	The Influence of Baryons on the Mass Distribution of Dark Matter Halos. Astrophysical Journal, 2006, 651, 636-642.	1.6	43
87	The many lives of active galactic nuclei: cooling flows, black holes and the luminosities and colours of galaxies. Monthly Notices of the Royal Astronomical Society, 2006, 365, 11-28.	1.6	2,994
88	Voids in a $\Lambda$ CDM universe. Monthly Notices of the Royal Astronomical Society, 2005, 360, 216-226.	1.6	125
89	The first generation of star-forming haloes. Monthly Notices of the Royal Astronomical Society, 2005, 363, 393-404.	1.6	56
90	Early structure in $\Lambda$ CDM. Monthly Notices of the Royal Astronomical Society, 2005, 363, 379-392.	1.6	104

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91	Simulations of the formation, evolution and clustering of galaxies and quasars. <i>Nature</i> , 2005, 435, 629-636.	13.7	3,801
92	The subhalo populations of $\Lambda$ CDM dark haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 355, 819-834.	1.6	553
93	Galaxies and subhaloes in $\Lambda$ CDM galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 352, L1-L5.	1.6	143
94	Early Formation and Late Merging of the Giant Galaxies. <i>Astrophysical Journal</i> , 2004, 614, 17-25.	1.6	83