

Daniele Galli

List of Publications by Year in descending order

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62
papers

2,855
citations

147786

31
h-index

168376

53
g-index

63
all docs

63
docs citations

63
times ranked

2383
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmic rays in molecular clouds probed by H ₂ rovibrational lines. <i>Astronomy and Astrophysics</i> , 2022, 658, A189.	5.1	19
2	The Central 1000 au of a Prestellar Core Revealed with ALMA. II. Almost Complete Freeze-out. <i>Astrophysical Journal</i> , 2022, 929, 13.	4.5	34
3	Spectral index of synchrotron emission: insights from the diffuse and magnetised interstellar medium. <i>Astronomy and Astrophysics</i> , 2021, 651, A116.	5.1	9
4	Rigorous Theory for Secondary Cosmic-Ray Ionization. <i>Astrophysical Journal</i> , 2021, 909, 107.	4.5	13
5	The double signature of local cosmic-ray acceleration in star-forming regions. <i>Astronomy and Astrophysics</i> , 2021, 649, A149.	5.1	7
6	Gravity-driven Magnetic Field at $\sim 1/4$ 1000 au Scales in High-mass Star Formation. <i>Astrophysical Journal Letters</i> , 2021, 915, L10.	8.3	41
7	Impact of Low-Energy Cosmic Rays on Star Formation. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	67
8	Synchrotron emission in molecular cloud cores: the SKA view (<i>Corrigendum</i>). <i>Astronomy and Astrophysics</i> , 2020, 643, C1.	5.1	0
9	First molecule still animates astronomers. <i>Science</i> , 2019, 365, 639-639.	12.6	6
10	The Central 1000 au of a Pre-stellar Core Revealed with ALMA. I. 1.3 mm Continuum Observations. <i>Astrophysical Journal</i> , 2019, 874, 89.	4.5	43
11	Production of atomic hydrogen by cosmic rays in dark clouds. <i>Astronomy and Astrophysics</i> , 2018, 619, A144.	5.1	31
12	ALMA Observations of Polarized Emission toward the CW Tau and DG Tau Protoplanetary Disks: Constraints on Dust Grain Growth and Settling. <i>Astrophysical Journal Letters</i> , 2018, 865, L12.	8.3	75
13	Cosmic-ray ionisation in circumstellar discs. <i>Astronomy and Astrophysics</i> , 2018, 614, A111.	5.1	111
14	Synchrotron emission in molecular cloud cores: the SKA view. <i>Astronomy and Astrophysics</i> , 2018, 620, L4.	5.1	12
15	Metallicity gradients in local Universe galaxies: Time evolution and effects of radial migration. <i>Astronomy and Astrophysics</i> , 2016, 588, A91.	5.1	41
16	Les Observatoires astronomiques en Italie. <i>Nuncius / Istituto E Museo Di Storia Della Scienza</i> , 2015, 30, 195-227.	0.6	1
17	Polytropic models of filamentary interstellar clouds â€œ I. Structure and stability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 2110-2117.	4.4	28
18	Polytropic models of filamentary interstellar clouds â€œ II. Helical magnetic fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 2118-2124.	4.4	13

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19	Gravitational Collapse and Disk Formation in Magnetized Cores. <i>Astrophysics and Space Science Library</i> , 2015, , 459-479.	2.7	6
20	The Dawn of Chemistry. <i>Annual Review of Astronomy and Astrophysics</i> , 2013, 51, 163-206.	24.3	116
21	Massive black hole factories: Supermassive and quasi-star formation in primordial halos. <i>Astronomy and Astrophysics</i> , 2013, 558, A59.	5.1	127
22	Cosmic-Ray Propagation in Molecular Clouds. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2013, , 61-82.	0.3	15
23	Scaling relations of metallicity, stellar mass and star formation rate in metal-poor starbursts â€œ I. A Fundamental Plane. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 906-918.	4.4	59
24	Scaling relations of metallicity, stellar mass and star formation rate in metal-poor starbursts â€œ II. Theoretical models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 1075-1088.	4.4	18
25	LiHe+IN THE EARLY UNIVERSE: A FULL ASSESSMENT OF ITS REACTION NETWORK AND FINAL ABUNDANCES. <i>Astrophysical Journal</i> , 2012, 752, 19.	4.5	10
26	COSMIC-RAY AND X-RAY HEATING OF INTERSTELLAR CLOUDS AND PROTOPLANETARY DISKS. <i>Astrophysical Journal</i> , 2012, 756, 157.	4.5	86
27	VIBRATIONAL LEVEL POPULATION OF H ₂ AND H ⁺ ₂ IN THE EARLY UNIVERSE. <i>Astrophysical Journal, Supplement Series</i> , 2011, 193, 7.	7.7	59
28	MAGNETIC INTERACTIONS IN PRE-MAIN-SEQUENCE BINARIES. <i>Astrophysical Journal</i> , 2011, 743, 175.	4.5	11
29	The role of vibrationally excited molecules in the chemistry of the early Universe. <i>Rendiconti Lincei</i> , 2011, 22, 119-123.	2.2	16
30	ON THE RELATIVE ABUNDANCE OF LiH AND LiH ⁺ MOLECULES IN THE EARLY UNIVERSE: NEW RESULTS FROM QUANTUM REACTIONS. <i>Astrophysical Journal</i> , 2011, 731, 107.	4.5	41
31	The Role of Magnetic Fields in the Protostellar Accretion Phase. , 2010, , .		0
32	STABILITY OF MAGNETIZED DISKS AND IMPLICATIONS FOR PLANET FORMATION. <i>Astrophysical Journal</i> , 2010, 724, 1561-1570.	4.5	12
33	Primordial Magnetic Fields: Reionization Constraints and Implications for the First Stars. , 2010, , .		0
34	THE INFLUENCE OF MAGNETIC FIELDS ON THE THERMODYNAMICS OF PRIMORDIAL STAR FORMATION. <i>Astrophysical Journal</i> , 2009, 703, 1096-1106.	4.5	56
35	ENHANCED PRODUCTION OF BARIUM IN LOW-MASS STARS: EVIDENCE FROM OPEN CLUSTERS. <i>Astrophysical Journal</i> , 2009, 693, L31-L34.	4.5	95
36	Three-Fluid Magnetohydrodynamics in Star Formation. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2009, , 597-599.	0.3	1

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37	The Challenge of Sub-Keplerian Rotation for Disk Winds. <i>Astrophysical Journal</i> , 2008, 682, L121-L124.	4.5	23
38	Formation of OB Associations in Galaxies. <i>Astrophysical Journal</i> , 2007, 662, L75-L77.	4.5	12
39	Mean Field Magnetohydrodynamics of Accretion Disks. <i>Astrophysical Journal</i> , 2007, 665, 535-553.	4.5	68
40	Magnetization, accretion, and outflows in young stellar objects. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 249-264.	0.0	10
41	Gravitational Collapse of Magnetized Clouds. II. The Role of Ohmic Dissipation. <i>Astrophysical Journal</i> , 2006, 647, 382-389.	4.5	73
42	The critical role of disks in the formation of high-mass stars. <i>Nature</i> , 2006, 444, 703-706.	27.8	47
43	Gravitational Collapse of Magnetized Clouds. I. Ideal Magnetohydrodynamic Accretion Flow. <i>Astrophysical Journal</i> , 2006, 647, 374-381.	4.5	134
44	On the existence of three-dimensional hydrostatic and magnetostatic equilibria of self-gravitating fluid bodies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 359, 1083-1095.	4.4	8
45	Magnetic Fields in Star-Forming Regions: Theoretical Aspects. <i>Astrophysics and Space Science</i> , 2005, 295, 43-51.	1.4	1
46	Galaxies as complex systems. <i>Astrophysics and Space Science</i> , 2003, 284, 809-818.	1.4	2
47	The $^{12}\text{C}/^{13}\text{C}$ Ratio in the Planetary Nebula NGC 3242 from Hubble Space Telescope STIS Observations. <i>Astrophysical Journal</i> , 2002, 568, L57-L60.	4.5	16
48	Deuterium chemistry in the primordial gas. <i>Planetary and Space Science</i> , 2002, 50, 1197-1204.	1.7	56
49	Evolution of Li, Be, and B in the Galaxy. <i>Astrophysical Journal</i> , 2002, 566, 252-260.	4.5	35
50	Self-similar Champagne Flows in HII Regions. <i>Astrophysical Journal</i> , 2002, 580, 969-979.	4.5	82
51	Galactic Chemical Evolution of Lithium: Interplay between Stellar Sources. <i>Astrophysical Journal</i> , 2001, 559, 909-924.	4.5	70
52	Singular Isothermal Disks. II. Nonaxisymmetric Bifurcations and Equilibria. <i>Astrophysical Journal</i> , 2001, 551, 367-386.	4.5	30
53	Inhomogeneous Chemical Evolution of the Galactic Halo: Abundance of α -Process Elements. <i>Astrophysical Journal</i> , 2001, 547, 217-230.	4.5	39
54	Galactic Chemical Evolution of Heavy Elements: From Barium to Europium. <i>Astrophysical Journal</i> , 1999, 521, 691-702.	4.5	227

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55	^3He in Planetary Nebulae: A Challenge to Stellar Evolution Models. <i>Astrophysical Journal</i> , 1997, 477, 218-225.	4.5	57
56	Galactic evolution of D and He-3. <i>Astrophysical Journal</i> , 1995, 443, 536.	4.5	79
57	Deuterium in the Universe. <i>Astrophysical Journal</i> , 1995, 451, 44.	4.5	46
58	A possible solution to the problem of the Galactic evolution of D and He-3. <i>Astrophysical Journal</i> , 1994, 432, L101.	4.5	12
59	Rotating magnetopolytropes: spherical figures of equilibrium due to balance of magnetic field and rotation. <i>Astrophysics and Space Science</i> , 1993, 204, 111-127.	1.4	6
60	Collapse of Magnetized Molecular Cloud Cores. I. Semianalytical Solution. <i>Astrophysical Journal</i> , 1993, 417, 220.	4.5	231
61	Collapse of Magnetized Molecular Cloud Cores. II. Numerical Results. <i>Astrophysical Journal</i> , 1993, 417, 243.	4.5	205
62	Constant-mass sequences of differentially-rotating polytropes. <i>Astrophysics and Space Science</i> , 1992, 188, 241-255.	1.4	7