

Konstantinos Tassis

List of Publications by Year in descending order

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86
papers

2,757
citations

159525

30
h-index

197736

49
g-index

88
all docs

88
docs citations

88
times ranked

2643
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of cosmic variance on the characteristics of dust polarization power spectra. <i>Astronomy and Astrophysics</i> , 2022, 658, A134.	2.1	4
2	Non-ideal magnetohydrodynamic simulations of subcritical pre-stellar cores with non-equilibrium chemistry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 4420-4435.	1.6	6
3	Dancing with the stars: Stirring up extraordinary turbulence in Galactic center clouds. <i>Astronomy and Astrophysics</i> , 2022, 662, L1.	2.1	1
4	The musca molecular cloud: The perfect "filament" is still a sheet. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 3593-3603.	1.6	5
5	The electrical activity of Saharan dust as perceived from surface electric field observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 927-949.	1.9	17
6	High-accuracy estimation of magnetic field strength in the interstellar medium from dust polarization. <i>Astronomy and Astrophysics</i> , 2021, 647, A186.	2.1	36
7	Evidence for line-of-sight frequency decorrelation of polarized dust emission in <i>Planck</i> data. <i>Astronomy and Astrophysics</i> , 2021, 647, A16.	2.1	32
8	WALOP-South: a four-camera one-shot imaging polarimeter for PASIPHAE survey. Paper "optical design. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2021, 7, .	1.0	2
9	Lifting the dusty veil over inflation. <i>Nature Astronomy</i> , 2021, 5, 519-519.	4.2	0
10	The time-dependent distribution of optical polarization angle changes in blazars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 225-243.	1.6	7
11	SMILE: Search for Milli-LEnses. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2021, 507, L6-L10.	1.2	13
12	Local alignments of parsec-scale AGN radiojets. <i>Astronomy and Astrophysics</i> , 2021, 653, A123.	2.1	7
13	Why take the square root? An assessment of interstellar magnetic field strength estimation methods. <i>Astronomy and Astrophysics</i> , 2021, 656, A118.	2.1	27
14	RoboPol: AGN polarimetric monitoring data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3715-3726.	1.6	25
15	Extragalactic Magnetism with SOFIA (Legacy Program). I. The Magnetic Field in the Multiphase Interstellar Medium of M51 [*] . <i>Astrophysical Journal</i> , 2021, 921, 128.	1.6	21
16	Extragalactic Magnetism with SOFIA (Legacy Program) - II: A Magnetically Driven Flow in the Starburst Ring of NGC 1097 [*] . <i>Astrophysical Journal</i> , 2021, 923, 150.	1.6	13
17	Eliminating artefacts in polarimetric images using deep learning. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 5151-5157.	1.6	2
18	SOFIA/HAWC+ Traces the Magnetic Fields in NGC 1068. <i>Astrophysical Journal</i> , 2020, 888, 66.	1.6	18

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19	Turnaround radius of galaxy clusters in N -body simulations. <i>Astronomy and Astrophysics</i> , 2020, 639, A122.	2.1	12
20	A dynamo amplifying the magnetic field of a Milky-Way-like galaxy. <i>Astronomy and Astrophysics</i> , 2020, 641, A165.	2.1	9
21	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. <i>EPJ Quantum Technology</i> , 2020, 7, .	2.9	190
22	HAWC+ Far-infrared Observations of the Magnetic Field Geometry in M51 and NGC 891. <i>Astronomical Journal</i> , 2020, 160, 167.	1.9	11
23	WALOP-South: A wide-field one-shot linear optical polarimeter for PASIPHAE survey. , 2020, , .		2
24	Probing the cold magnetised Universe with SPICA-POL (B-BOP). <i>Publications of the Astronomical Society of Australia</i> , 2019, 36, .	1.3	13
25	The Far-infrared Polarization Spectrum of κ Ophiuchi A from HAWC+/SOFIA Observations. <i>Astrophysical Journal</i> , 2019, 882, 113.	1.6	32
26	SOFIA Far-infrared Imaging Polarimetry of M82 and NGC 253: Exploring the Supergalactic Wind. <i>Astrophysical Journal Letters</i> , 2019, 870, L9.	3.0	24
27	Demonstration of Magnetic Field Tomography with Starlight Polarization toward a Diffuse Sightline of the ISM. <i>Astrophysical Journal</i> , 2019, 872, 56.	1.6	26
28	RoboPol: a four-channel optical imaging polarimeter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 2355-2366.	1.6	30
29	HAWC+/SOFIA Multiwavelength Polarimetric Observations of OMC-1. <i>Astrophysical Journal</i> , 2019, 872, 187.	1.6	64
30	Extreme starlight polarization in a region with highly polarized dust emission. <i>Astronomy and Astrophysics</i> , 2019, 624, L8.	2.1	24
31	RoboPol: connection between optical polarization plane rotations and gamma-ray flares in blazars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 1296-1306.	1.6	62
32	Local measurements of the mean interstellar polarization at high Galactic latitudes. <i>Astronomy and Astrophysics</i> , 2018, 616, A52.	2.1	20
33	Magnetic seismology of interstellar gas clouds: Unveiling a hidden dimension. <i>Science</i> , 2018, 360, 635-638.	6.0	31
34	A closer look at the δ -characteristic width of molecular cloud filaments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 2529-2541.	1.6	57
35	CARMA LARGE AREA STAR FORMATION SURVEY: DENSE GAS IN THE YOUNG L1451 REGION OF PERSEUS. <i>Astrophysical Journal</i> , 2016, 830, 127.	1.6	16
36	THE MAGNETIC FIELD OF L1544. I. NEAR-INFRARED POLARIMETRY AND THE NON-UNIFORM ENVELOPE. <i>Astrophysical Journal</i> , 2016, 833, 176.	1.6	11

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37	The magnetic field and dust filaments in the Polaris Flare. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1517-1529.	1.6	40
38	RoboPol: the optical polarization of gamma-ray-loud and gamma-ray-quiet blazars. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3365-3380.	1.6	73
39	<i>RoboPol</i> : do optical polarization rotations occur in all blazars?. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1775-1785.	1.6	38
40	Striations in molecular clouds: streamers or MHD waves?. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3602-3615.	1.6	31
41	RoboPol: optical polarization-plane rotations and flaring activity in blazars. Monthly Notices of the Royal Astronomical Society, 2016, 457, 2252-2262.	1.6	67
42	Chemistry as a diagnostic of prestellar core geometry. Monthly Notices of the Royal Astronomical Society, 2016, 458, 789-801.	1.6	8
43	Optical polarization map of the Polaris Flare with RoboPol. Monthly Notices of the Royal Astronomical Society, 2015, 452, 715-726.	1.6	30
44	Magnetic field-gas density relation and observational implications revisited. Monthly Notices of the Royal Astronomical Society, 2015, 451, 4384-4396.	1.6	41
45	Searching for inflationary B modes: can dust emission properties be extrapolated from 350 GHz to 150 GHz?. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 451, L90-L94.	1.2	48
46	RoboPol: first season rotations of optical polarization plane in blazars. Monthly Notices of the Royal Astronomical Society, 2015, 453, 1669-1683.	1.6	84
47	The high optical polarization in the Be/X-ray binary EXO 2030+375. Monthly Notices of the Royal Astronomical Society, 2014, 445, 4235-4240.	1.6	8
48	CARMA LARGE AREA STAR FORMATION SURVEY: OBSERVATIONAL ANALYSIS OF FILAMENTS IN THE SERPENS SOUTH MOLECULAR CLOUD. Astrophysical Journal Letters, 2014, 790, L19.	3.0	75
49	¹³ CO filaments in the Taurus molecular cloud. Monthly Notices of the Royal Astronomical Society, 2014, 444, 2507-2524.	1.6	46
50	The RoboPol pipeline and control system. Monthly Notices of the Royal Astronomical Society, 2014, 442, 1706-1717.	1.6	46
51	Effect of OH depletion on measurements of the mass-to-flux ratio in molecular cloud cores. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 445, L56-L59.	1.2	8
52	The RoboPol optical polarization survey of gamma-ray-loud blazars. Monthly Notices of the Royal Astronomical Society, 2014, 442, 1693-1705.	1.6	52
53	Early-time polarized optical light curve of GRB 131030A. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 445, L114-L118.	1.2	14
54	CARMA LARGE AREA STAR FORMATION SURVEY: STRUCTURE AND KINEMATICS OF DENSE GAS IN SERPENS MAIN. Astrophysical Journal, 2014, 797, 76.	1.6	51

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55	CARMA LARGE AREA STAR FORMATION SURVEY: PROJECT OVERVIEW WITH ANALYSIS OF DENSE GAS STRUCTURE AND KINEMATICS IN BARNARD 1. <i>Astrophysical Journal</i> , 2014, 794, 165.	1.6	36
56	NON-EQUILIBRIUM CHEMISTRY OF DYNAMICALLY EVOLVING PRESTELLAR CORES. II. IONIZATION AND MAGNETIC FIELD. <i>Astrophysical Journal</i> , 2012, 754, 6.	1.6	17
57	NON-EQUILIBRIUM CHEMISTRY OF DYNAMICALLY EVOLVING PRESTELLAR CORES. I. BASIC MAGNETIC AND NON-MAGNETIC MODELS AND PARAMETER STUDIES. <i>Astrophysical Journal</i> , 2012, 753, 29.	1.6	24
58	A SEARCH FOR CO-EVOLVING ION AND NEUTRAL GAS SPECIES IN PRESTELLAR MOLECULAR CLOUD CORES. <i>Astrophysical Journal</i> , 2012, 760, 57.	1.6	5
59	ULTRA-FAINT DWARF GALAXIES AS A TEST OF EARLY ENRICHMENT AND METALLICITY-DEPENDENT STAR FORMATION. <i>Astrophysical Journal</i> , 2012, 745, 68.	1.6	13
60	THE GALACTIC MAGNETIC FIELD'S EFFECT IN STAR-FORMING REGIONS. <i>Astrophysical Journal</i> , 2011, 728, 99.	1.6	22
61	A NEW RECIPE FOR OBTAINING CENTRAL VOLUME DENSITIES OF PRESTELLAR CORES FROM SIZE MEASUREMENTS. <i>Astrophysical Journal Letters</i> , 2011, 735, L32.	3.0	2
62	2D Magnetohydrodynamics simulations of induced plasma dynamics in the near-core region of a galaxy cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 410, 2602-2616.	1.6	4
63	Far-Infrared Polarimetry of the Interstellar Medium. <i>EAS Publications Series</i> , 2011, 52, 259-262.	0.3	0
64	HAWCPol: a first-generation far-infrared polarimeter for SOFIA. <i>Proceedings of SPIE</i> , 2010, , .	0.8	26
65	Do lognormal column-density distributions in molecular clouds imply supersonic turbulence?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 408, 1089-1094.	1.6	39
66	Self-consistent analysis of OH-Zeeman observations: too much noise about noise. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 409, 801-807.	1.6	27
67	MODELING MOLECULAR HYDROGEN AND STAR FORMATION IN COSMOLOGICAL SIMULATIONS. <i>Astrophysical Journal</i> , 2009, 697, 55-67.	1.6	215
68	Urocortin in Second Trimester Amniotic Fluid: Its Role as Predictor of Preterm Labor. <i>Mediators of Inflammation</i> , 2009, 2009, 1-7.	1.4	6
69	Statistical assessment of shapes and magnetic field orientations in molecular clouds through polarization observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 399, 1681-1693.	1.6	39
70	Testing molecular-cloud fragmentation theories: self-consistent analysis of OH Zeeman observations. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2009, 400, L15-L19.	1.2	35
71	Constraining the Earliest Circumstellar Disks and Their Envelopes. <i>Astrophysical Journal</i> , 2008, 680, 474-482.	1.6	33
72	Scaling Relations of Dwarf Galaxies without Supernova-driven Winds. <i>Astrophysical Journal</i> , 2008, 672, 888-903.	1.6	82

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73	Protostar Formation in Magnetic Molecular Clouds beyond Ion Detachment. III. A Parameter Study. <i>Astrophysical Journal</i> , 2007, 660, 402-417.	1.6	16
74	Protostar Formation in Magnetic Molecular Clouds beyond Ion Detachment. II. Typical Axisymmetric Solution. <i>Astrophysical Journal</i> , 2007, 660, 388-401.	1.6	43
75	Protostar Formation in Magnetic Molecular Clouds beyond Ion Detachment. I. Formulation of the Problem and Method of Solution. <i>Astrophysical Journal</i> , 2007, 660, 370-387.	1.6	25
76	Scaling Relations of Dwarf Galaxies without Supernova-Driven Winds. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 256-265.	0.0	0
77	The star formation law in a multifractal ISM. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 382, 1317-1323.	1.6	19
78	The shapes of molecular cloud cores in Orion. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2007, 379, L50-L54.	1.2	26
79	Observational Constraints on the Ages of Molecular Clouds and the Star Formation Timescale: Ambipolarâ€œDiffusionâ€œ controlled or Turbulenceâ€œinduced Star Formation?. <i>Astrophysical Journal</i> , 2006, 646, 1043-1049.	1.6	112
80	Magnetically Controlled Spasmodic Accretion during Star Formation. II. Results. <i>Astrophysical Journal</i> , 2005, 618, 783-794.	1.6	56
81	Magnetically Controlled Spasmodic Accretion during Star Formation. I. Formulation of the Problem and Method of Solution. <i>Astrophysical Journal</i> , 2005, 618, 769-782.	1.6	35
82	Ambipolarâ€œDiffusion Timescale, Star Formation Timescale, and the Ages of Molecular Clouds: Is There a Discrepancy?. <i>Astrophysical Journal</i> , 2004, 616, 283-287.	1.6	94
83	Numerical Simulations of Highâ€œRedshift Star Formation in Dwarf Galaxies. <i>Astrophysical Journal</i> , 2003, 587, 13-24.	1.6	41
84	Radiative falloff in neutron star spacetimes. <i>Physical Review D</i> , 2000, 62, .	1.6	11
85	A new method for probing magnetic field strengths from striations in the interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	12
86	Python Radiative Transfer Emission code (PyRaTE): non-LTE spectral lines simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	6