Konstantinos Tassis

List of Publications by Year
in descending order

86	2,757	147801 31	197818 49
papers	citations	h-index	g-index

88	88	88	2643
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effect of cosmic variance on the characteristics of dust polarization power spectra. Astronomy and Astrophysics, 2022, 658, A134.	5.1	4
2	Non-ideal magnetohydrodynamic simulations of subcritical pre-stellar cores with non-equilibrium chemistry. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4420-4435.	4.4	6
3	Dancing with the stars: Stirring up extraordinary turbulence in Galactic center clouds. Astronomy and Astrophysics, 2022, 662, L1.	5.1	1
4	The musca molecular cloud: The perfect â€˜filamentâ€™ is still a sheet. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3593-3603.	4.4	5
5	The electrical activity of Saharan dust as perceived from surface electric field observations. Atmospheric Chemistry and Physics, 2021, 21, 927-949.	4.9	17
6	High-accuracy estimation of magnetic field strength in the interstellar medium from dust polarization. Astronomy and Astrophysics, 2021, 647, A186.	5.1	36
7	Evidence for line-of-sight frequency decorrelation of polarized dust emission in Planck data. Astronomy and Astrophysics, 2021, 647, A16.	5.1	32
8	WALOP-South: a four-camera one-shot imaging polarimeter for PASIPHAE survey. Paper Iâ€”optical design. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.8	2
9	Lifting the dusty veil over inflation. Nature Astronomy, 2021, 5, 519-519.	10.1	0
10	The time-dependent distribution of optical polarization angle changes in blazars. Monthly Notices of the Royal Astronomical Society, 2021, 507, 225-243.	4.4	7
11	SMILE: Search for MIlli-LEnses. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 507, L6-L10.	3.3	13
12	Local alignments of parsec-scale AGN radiojets. Astronomy and Astrophysics, 2021, 653, A123.	5.1	7
13	Why take the square root? An assessment of interstellar magnetic field strength estimation methods. Astronomy and Astrophysics, 2021, 656, A118.	5.1	27
14	RoboPol: AGN polarimetric monitoring data. Monthly Notices of the Royal Astronomical Society, 2021, 501, 3715-3726.	4.4	25
15	Extragalactic Magnetism with SOFIA (Legacy Program). I. The Magnetic Field in the Multiphase Interstellar Medium of M51 [*]. Astrophysical Journal, 2021, 921, 128.	4.5	21
16	Extragalactic Magnetism with SOFIA (Legacy Program) - II: A Magnetically Driven Flow in the Starburst Ring of NGC 1097*. Astrophysical Journal, 2021, 923, 150.	4.5	13
17	Eliminating artefacts in polarimetric images using deep learning. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5151-5157.	4.4	2
18	SOFIA/HAWC+ Traces the Magnetic Fields in NGC 1068. Astrophysical Journal, 2020, 888, 66.	4.5	18

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19	Turnaround radius of galaxy clusters in N-body simulations. Astronomy and Astrophysics, 2020, 639, A122.	5.1	12
20	A dynamo amplifying the magnetic field of a Milky-Way-like galaxy. Astronomy and Astrophysics, 2020, 641, A165.	5.1	9
21	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. EPJ Quantum Technology, 2020, 7, .	6.3	190
22	HAWC+ Far-infrared Observations of the Magnetic Field Geometry in M51 and NGC 891. Astronomical Journal, 2020, 160, 167.	4.7	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). Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	13
25	The Far-infrared Polarization Spectrum of Ï Ophiuchi A from HAWC+/SOFIA Observations. Astrophysical Journal, 2019, 882, 113.	4.5	32
26	SOFIA Far-infrared Imaging Polarimetry of M82 and NGC 253: Exploring the Supergalactic Wind. Astrophysical Journal Letters, 2019, 870, L9.	8.3	24
27	Demonstration of Magnetic Field Tomography with Starlight Polarization toward a Diffuse Sightline of the ISM. Astrophysical Journal, 2019, 872, 56.	4.5	26
28	RoboPol: a four-channel optical imaging polarimeter. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2355-2366.	4.4	30
29	HAWC+/SOFIA Multiwavelength Polarimetric Observations of OMC-1. Astrophysical Journal, 2019, 872, 187.	4.5	64
30	Extreme starlight polarization in a region with highly polarized dust emission. Astronomy and Astrophysics, 2019, 624, L8.	5.1	24
31	RoboPol: connection between optical polarization plane rotations and gamma-ray flares in blazars. Monthly Notices of the Royal Astronomical Society, 2018, 474, 1296-1306.	4.4	62
32	Local measurements of the mean interstellar polarization at high Galactic latitudes. Astronomy and Astrophysics, 2018, 616, A52.	5.1	20
33	Magnetic seismology of interstellar gas clouds: Unveiling a hidden dimension. Science, 2018, 360, 635-638.	12.6	31
34	A closer look at the â€˜characteristicâ€™ width of molecular cloud filaments. Monthly Notices of the Royal Astronomical Society, 2017, 466, 2529-2541.	4.4	57
35	CARMA LARGE AREA STAR FORMATION SURVEY: DENSE GAS IN THE YOUNG L1451 REGION OF PERSEUS. Astrophysical Journal, 2016, 830, 127.	4.5	16
36	THE MAGNETIC FIELD OF L1544. I. NEAR-INFRARED POLARIMETRY AND THE NON-UNIFORM ENVELOPE. Astrophysical Journal, 2016, 833, 176.	4.5	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.	4.4	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.	4.4	73
39	RoboPol: do optical polarization rotations occur in all blazars?. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1775-1785.	4.4	38
40	Striations in molecular clouds: streamers or MHD waves?. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3602-3615.	4.4	31
41	RoboPol: optical polarization-plane rotations and flaring activity in blazars. Monthly Notices of the Royal Astronomical Society, 2016, 457, 2252-2262.	4.4	67
42	Chemistry as a diagnostic of prestellar core geometry. Monthly Notices of the Royal Astronomical Society, 2016, 458, 789-801.	4.4	8
43	Optical polarization map of the Polaris Flare with RoboPol. Monthly Notices of the Royal Astronomical Society, 2015, 452, 715-726.	4.4	30
44	Magnetic fieldâ€“gas density relation and observational implications revisited. Monthly Notices of the Royal Astronomical Society, 2015, 451, 4384-4396.	4.4	41
45	Searching for inflationary B modes: can dust emission properties be extrapolated from 350ÂGHz to 150 GHz?. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 451, L90-L94.	3.3	48
46	RoboPol: first season rotations of optical polarization plane in blazars. Monthly Notices of the Royal Astronomical Society, 2015, 453, 1669-1683.	4.4	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.	4.4	8
48	CARMA LARGE AREA STAR FORMATION SURVEY: OBSERVATIONAL ANALYSIS OF FILAMENTS IN THE SERPENS SOUTH MOLECULAR CLOUD. Astrophysical Journal Letters, 2014, 790, L19.	8.3	75
49	13CO filaments in the Taurus molecular cloud. Monthly Notices of the Royal Astronomical Society, 2014, 444, 2507-2524.	4.4	46
50	The RoboPol pipeline and control system. Monthly Notices of the Royal Astronomical Society, 2014, 442, 1706-1717.	4.4	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.	3.3	8
52	The RoboPol optical polarization survey of gamma-ray-loud blazars. Monthly Notices of the Royal Astronomical Society, 2014, 442, 1693-1705.	4.4	52
53	Early-time polarized optical light curve of GRBÂ131030A. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 445, L114-L118.	3.3	14
54	CARMA LARGE AREA STAR FORMATION SURVEY: STRUCTURE AND KINEMATICS OF DENSE GAS IN SERPENS MAIN. Astrophysical Journal, 2014, 797, 76.	4.5	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. Astrophysical Journal, 2014, 794, 165.	4.5	36
56	NON-EQUILIBRIUM CHEMISTRY OF DYNAMICALLY EVOLVING PRESTELLAR CORES. II. IONIZATION AND MAGNETIC FIELD. Astrophysical Journal, 2012, 754, 6.	4.5	17
57	NON-EQUILIBRIUM CHEMISTRY OF DYNAMICALLY EVOLVING PRESTELLAR CORES. I. BASIC MAGNETIC AND NON-MAGNETIC MODELS AND PARAMETER STUDIES. Astrophysical Journal, 2012, 753, 29.	4.5	24
58	A SEARCH FOR CO-EVOLVING ION AND NEUTRAL GAS SPECIES IN PRESTELLAR MOLECULAR CLOUD CORES. Astrophysical Journal, 2012, 760, 57.	4.5	5
59	ULTRA-FAINT DWARF GALAXIES AS A TEST OF EARLY ENRICHMENT AND METALLICITY-DEPENDENT STAR FORMATION. Astrophysical Journal, 2012, 745, 68.	4.5	13
60	THE GALACTIC MAGNETIC FIELD'S EFFECT IN STAR-FORMING REGIONS. Astrophysical Journal, 2011, 728, 99.	4.5	22
61	A NEW RECIPE FOR OBTAINING CENTRAL VOLUME DENSITIES OF PRESTELLAR CORES FROM SIZE MEASUREMENTS. Astrophysical Journal Letters, 2011, 735, L32.	8.3	2
62	2D Magnetohydrodynamics simulations of induced plasma dynamics in the near-core region of a galaxy cluster. Monthly Notices of the Royal Astronomical Society, 2011, 410, 2602-2616.	4.4	4
63	Far-Infrared Polarimetry of the Interstellar Medium. EAS Publications Series, 2011, 52, 259-262.	0.3	0
64	HAWCPol: a first-generation far-infrared polarimeter for SOFIA. Proceedings of SPIE, 2010, , .	0.8	26
65	Do lognormal column-density distributions in molecular clouds imply supersonic turbulence?. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1089-1094.	4.4	39
66	Self-consistent analysis of OH-Zeeman observations: too much noise about noise. Monthly Notices of the Royal Astronomical Society, 2010, 409, 801-807.	4.4	27
67	MODELING MOLECULAR HYDROGEN AND STAR FORMATION IN COSMOLOGICAL SIMULATIONS. Astrophysical Journal, 2009, 697, 55-67.	4.5	215
68	Urocortin in Second Trimester Amniotic Fluid: Its Role as Predictor of Preterm Labor. Mediators of Inflammation, 2009, 2009, 1-7.	3.0	6
69	Statistical assessment of shapes and magnetic field orientations in molecular clouds through polarization observations. Monthly Notices of the Royal Astronomical Society, 2009, 399, 1681-1693.	4.4	39
70	Testing molecular-cloud fragmentation theories: self-consistent analysis of OH Zeeman observations. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 400, L15-L19.	3.3	35
71	Constraining the Earliest Circumstellar Disks and Their Envelopes. Astrophysical Journal, 2008, 680, 474-482.	4.5	33
72	Scaling Relations of Dwarf Galaxies without Supernovaâ€driven Winds. Astrophysical Journal, 2008, 672, 888-903.	4.5	82

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73	Protostar Formation in Magnetic Molecular Clouds beyond Ion Detachment. III. A Parameter Study. Astrophysical Journal, 2007, 660, 402-417.	4.5	16
74	Protostar Formation in Magnetic Molecular Clouds beyond Ion Detachment. II. Typical Axisymmetric Solution. Astrophysical Journal, 2007, 660, 388-401.	4.5	43
75	Protostar Formation in Magnetic Molecular Clouds beyond Ion Detachment. I. Formulation of the Problem and Method of Solution. Astrophysical Journal, 2007, 660, 370-387.	4.5	25
76	Scaling Relations of Dwarf Galaxies without Supernova-Driven Winds. Proceedings of the International Astronomical Union, 2007, 3, 256-265.	0.0	0
77	The star formation law in a multifractal ISM. Monthly Notices of the Royal Astronomical Society, 2007, 382, 1317-1323.	4.4	19
78	The shapes of molecular cloud cores in Orion. Monthly Notices of the Royal Astronomical Society: Letters, 2007, 379, L50-L54.	3.3	26
79	Observational Constraints on the Ages of Molecular Clouds and the Star Formation Timescale: Ambipolarâ€Diffusionâ€“controlled or Turbulenceâ€induced Star Formation?. Astrophysical Journal, 2006, 646, 1043-1049.	4.5	112
80	Magnetically Controlled Spasmodic Accretion during Star Formation. II. Results. Astrophysical Journal, 2005, 618, 783-794.	4.5	56
81	Magnetically Controlled Spasmodic Accretion during Star Formation. I. Formulation of the Problem and Method of Solution. Astrophysical Journal, 2005, 618, 769-782.	4.5	35
82	Ambipolarâ€Diffusion Timescale, Star Formation Timescale, and the Ages of Molecular Clouds: Is There a Discrepancy?. Astrophysical Journal, 2004, 616, 283-287.	4.5	94
83	Numerical Simulations of Highâ€Redshift Star Formation in Dwarf Galaxies. Astrophysical Journal, 2003, 587, 13-24.	4.5	41
84	Radiative falloff in neutron star spacetimes. Physical Review D, 2000, 62, .	4.7	11
85	A new method for probing magnetic field strengths from striations in the interstellar medium. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	12
86	Python Radiative Transfer Emission code (PyRaTE): non-LTE spectral lines simulations. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	6