

# Mathias Zechmeister

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

5,306  
citations

172457

29  
h-index

123424

61  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3623  
citing authors

#	ARTICLE	IF	CITATIONS
1	H $\alpha$ and He I absorption in HAT-P-32 b observed with CARMENES. <i>Astronomy and Astrophysics</i> , 2022, 657, A6.	5.1	29
2	Discovery and mass measurement of the hot, transiting, Earth-sized planet, GJ 3929 b. <i>Astronomy and Astrophysics</i> , 2022, 659, A17.	5.1	9
3	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2022, 663, A27.	5.1	15
4	A Transiting, Temperate Mini-Neptune Orbiting the M Dwarf TOI-1759 Unveiled by TESS. <i>Astronomical Journal</i> , 2022, 163, 133.	4.7	10
5	A Second Planet Transiting LTT 1445A and a Determination of the Masses of Both Worlds. <i>Astronomical Journal</i> , 2022, 163, 168.	4.7	23
6	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2022, 663, A48.	5.1	12
7	Magnetism, rotation, and nonthermal emission in cool stars. <i>Astronomy and Astrophysics</i> , 2022, 662, A41.	5.1	64
8	Dynamical Architecture of the HD 107148 Planetary System. <i>Astronomical Journal</i> , 2022, 163, 198.	4.7	0
9	A Close-in Puffy Neptune with Hidden Friends: The Enigma of TOI 620. <i>Astronomical Journal</i> , 2022, 163, 269.	4.7	4
10	A nearby transiting rocky exoplanet that is suitable for atmospheric investigation. <i>Science</i> , 2021, 371, 1038-1041.	12.6	41
11	A super-Earth on a close-in orbit around the M1V star GJ 740. <i>Astronomy and Astrophysics</i> , 2021, 648, A20.	5.1	7
12	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2021, 652, A28.	5.1	23
13	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2021, 654, A118.	5.1	14
14	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2021, 653, A49.	5.1	11
15	CARMENES detection of the Ca II infrared triplet and possible evidence of He I in the atmosphere of WASP-76b. <i>Astronomy and Astrophysics</i> , 2021, 654, A163.	5.1	29
16	Probing the atmosphere of WASP-69 b with low- and high-resolution transmission spectroscopy. <i>Astronomy and Astrophysics</i> , 2021, 656, A142.	5.1	11
17	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2021, 653, A114.	5.1	67
18	TOI-1201 b: A mini-Neptune transiting a bright and moderately young M dwarf. <i>Astronomy and Astrophysics</i> , 2021, 656, A124.	5.1	22

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19	Detection of the hydrogen Balmer lines in the ultra-hot Jupiter WASP-33b. <i>Astronomy and Astrophysics</i> , 2021, 645, A22.	5.1	31
20	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 637, A93.	5.1	12
21	Precise mass and radius of a transiting super-Earth planet orbiting the M dwarf TOI-1235: a planet in the radius gap?. <i>Astronomy and Astrophysics</i> , 2020, 639, A132.	5.1	33
22	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 636, A119.	5.1	24
23	Discovery of a hot, transiting, Earth-sized planet and a second temperate, non-transiting planet around the M4 dwarf GJ 3473 (TOI-488). <i>Astronomy and Astrophysics</i> , 2020, 642, A236.	5.1	27
24	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 640, A50.	5.1	28
25	Solving Kepler's equation with CORDIC double iterations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 109-117.	4.4	6
26	Public HARPS radial velocity database corrected for systematic errors. <i>Astronomy and Astrophysics</i> , 2020, 636, A74.	5.1	107
27	A multiplanet system of super-Earths orbiting the brightest red dwarf star GJ 887. <i>Science</i> , 2020, 368, 1477-1481.	12.6	27
28	Radial velocity constraints on the long-period transiting planet Kepler-1625 b with CARMENES. <i>Astronomy and Astrophysics</i> , 2020, 635, A59.	5.1	2
29	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 638, A16.	5.1	16
30	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 636, A36.	5.1	51
31	A He I upper atmosphere around the warm Neptune GJ 3470 b. <i>Astronomy and Astrophysics</i> , 2020, 638, A61.	5.1	65
32	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 644, A127.	5.1	27
33	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 640, A52.	5.1	23
34	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 642, A22.	5.1	19
35	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 643, A112.	5.1	31
36	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 642, A227.	5.1	14

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37	RedDots: a temperate 1.5 Earth-mass planet candidate in a compact multiterrestrial planet system around GJ 1061. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 536-550.	4.4	34
38	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 638, A115.	5.1	5
39	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 625, A68.	5.1	123
40	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 627, A161.	5.1	58
41	Planetary system around the nearby M dwarf GJ 357 including a transiting, hot, Earth-sized planet optimal for atmospheric characterization. <i>Astronomy and Astrophysics</i> , 2019, 628, A39.	5.1	97
42	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 627, A49.	5.1	95
43	A giant exoplanet orbiting a very-low-mass star challenges planet formation models. <i>Science</i> , 2019, 365, 1441-1445.	12.6	78
44	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 623, A44.	5.1	70
45	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 632, A24.	5.1	15
46	Ionized calcium in the atmospheres of two ultra-hot exoplanets WASP-33b and KELT-9b. <i>Astronomy and Astrophysics</i> , 2019, 632, A69.	5.1	85
47	Correcting HIRES/Keck radial velocities for small systematic errors. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 484, L8-L13.	3.3	69
48	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 609, A117.	5.1	103
49	CORDIC-like method for solving Kepler's equation. <i>Astronomy and Astrophysics</i> , 2018, 619, A128.	5.1	11
50	A candidate super-Earth planet orbiting near the snow line of Barnard's star. <i>Nature</i> , 2018, 563, 365-368.	27.8	109
51	Detection of He I 10830 Å absorption on HD 189733 b with CARMENES high-resolution transmission spectroscopy. <i>Astronomy and Astrophysics</i> , 2018, 620, A97.	5.1	120
52	CARMENES input catalogue of M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 614, A76.	5.1	92
53	Ground-based detection of an extended helium atmosphere in the Saturn-mass exoplanet WASP-69b. <i>Science</i> , 2018, 362, 1388-1391.	12.6	174
54	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 612, A49.	5.1	173

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55	Spectrum radial velocity analyser (SERVAL). <i>Astronomy and Astrophysics</i> , 2018, 609, A12.	5.1	266
56	CARMENES: high-resolution spectra and precise radial velocities in the red and infrared. , 2018, , .		37
57	A terrestrial planet candidate in a temperate orbit around Proxima Centauri. <i>Nature</i> , 2016, 536, 437-440.	27.8	1,033
58	CARMENES: an overview six months after first light. <i>Proceedings of SPIE</i> , 2016, , .	0.8	59
59	CARMENES: data flow. <i>Proceedings of SPIE</i> , 2016, , .	0.8	17
60	Calibrating echelle spectrographs with Fabry-Pérot etalons. <i>Astronomy and Astrophysics</i> , 2015, 581, A117.	5.1	62
61	Flat-relative optimal extraction. <i>Astronomy and Astrophysics</i> , 2014, 561, A59.	5.1	91
62	CARMENES instrument overview. <i>Proceedings of SPIE</i> , 2014, , .	0.8	132
63	The generalised Lomb-Scargle periodogram. <i>Astronomy and Astrophysics</i> , 2009, 496, 577-584.	5.1	1,164