

# 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	The generalised Lomb-Scargle periodogram. <i>Astronomy and Astrophysics</i> , 2009, 496, 577-584.	5.1	1,164
2	A terrestrial planet candidate in a temperate orbit around Proxima Centauri. <i>Nature</i> , 2016, 536, 437-440.	27.8	1,033
3	Spectrum radial velocity analyser (SERVAL). <i>Astronomy and Astrophysics</i> , 2018, 609, A12.	5.1	266
4	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
5	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 612, A49.	5.1	173
6	CARMENES instrument overview. <i>Proceedings of SPIE</i> , 2014, , .	0.8	132
7	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 625, A68.	5.1	123
8	Detection of He I $\lambda$ 10830 absorption on HD 189733 b with CARMENES high-resolution transmission spectroscopy. <i>Astronomy and Astrophysics</i> , 2018, 620, A97.	5.1	120
9	A candidate super-Earth planet orbiting near the snow line of Barnard's star. <i>Nature</i> , 2018, 563, 365-368.	27.8	109
10	Public HARPS radial velocity database corrected for systematic errors. <i>Astronomy and Astrophysics</i> , 2020, 636, A74.	5.1	107
11	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 609, A117.	5.1	103
12	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
13	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 627, A49.	5.1	95
14	CARMENES input catalogue of M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 614, A76.	5.1	92
15	Flat-relative optimal extraction. <i>Astronomy and Astrophysics</i> , 2014, 561, A59.	5.1	91
16	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
17	A giant exoplanet orbiting a very-low-mass star challenges planet formation models. <i>Science</i> , 2019, 365, 1441-1445.	12.6	78
18	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 623, A44.	5.1	70

#	ARTICLE	IF	CITATIONS
19	Correcting HIRES/Keck radial velocities for small systematic errors. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 484, L8-L13.	3.3	69
20	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2021, 653, A114.	5.1	67
21	A He I upper atmosphere around the warm Neptune GJ 3470 b. Astronomy and Astrophysics, 2020, 638, A61.	5.1	65
22	Magnetism, rotation, and nonthermal emission in cool stars. Astronomy and Astrophysics, 2022, 662, A41.	5.1	64
23	Calibrating echelle spectrographs with Fabry-Pérot etalons. Astronomy and Astrophysics, 2015, 581, A117.	5.1	62
24	CARMENES: an overview six months after first light. Proceedings of SPIE, 2016, , .	0.8	59
25	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2019, 627, A161.	5.1	58
26	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 636, A36.	5.1	51
27	A nearby transiting rocky exoplanet that is suitable for atmospheric investigation. Science, 2021, 371, 1038-1041.	12.6	41
28	CARMENES: high-resolution spectra and precise radial velocities in the red and infrared. , 2018, , .		37
29	RedDots: a temperate 1.5 Earth-mass planet candidate in a compact multiterrestrial planet system around GJ 1061. Monthly Notices of the Royal Astronomical Society, 2020, 493, 536-550.	4.4	34
30	Precise mass and radius of a transiting super-Earth planet orbiting the M dwarf TOI-1235: a planet in the radius gap?. Astronomy and Astrophysics, 2020, 639, A132.	5.1	33
31	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 643, A112.	5.1	31
32	Detection of the hydrogen Balmer lines in the ultra-hot Jupiter WASP-33b. Astronomy and Astrophysics, 2021, 645, A22.	5.1	31
33	CARMENES detection of the Ca II infrared triplet and possible evidence of He I in the atmosphere of WASP-76b. Astronomy and Astrophysics, 2021, 654, A163.	5.1	29
34	H $\alpha$ and He I absorption in HAT-P-32 b observed with CARMENES. Astronomy and Astrophysics, 2022, 657, A6.	5.1	29
35	The CARMENES search for exoplanets around M dwarfs. Astronomy and Astrophysics, 2020, 640, A50.	5.1	28
36	Discovery of a hot, transiting, Earth-sized planet and a second temperate, non-transiting planet around the M4 dwarf GJ 3473 (TOI-488). Astronomy and Astrophysics, 2020, 642, A236.	5.1	27

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37	A multiplanet system of super-Earths orbiting the brightest red dwarf star GJ 887. <i>Science</i> , 2020, 368, 1477-1481.	12.6	27
38	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 644, A127.	5.1	27
39	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 636, A119.	5.1	24
40	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2021, 652, A28.	5.1	23
41	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 640, A52.	5.1	23
42	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
43	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
44	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 642, A22.	5.1	19
45	CARMENES: data flow. <i>Proceedings of SPIE</i> , 2016, , .	0.8	17
46	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 638, A16.	5.1	16
47	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 632, A24.	5.1	15
48	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2022, 663, A27.	5.1	15
49	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2021, 654, A118.	5.1	14
50	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 642, A227.	5.1	14
51	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 637, A93.	5.1	12
52	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2022, 663, A48.	5.1	12
53	CORDIC-like method for solving Kepler's equation. <i>Astronomy and Astrophysics</i> , 2018, 619, A128.	5.1	11
54	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2021, 653, A49.	5.1	11

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55	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
56	A Transiting, Temperate Mini-Neptune Orbiting the M Dwarf TOI-1759 Unveiled by TESS. <i>Astronomical Journal</i> , 2022, 163, 133.	4.7	10
57	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
58	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
59	Solving Kepler's equation with CORDIC double iterations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 109-117.	4.4	6
60	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 638, A115.	5.1	5
61	A Close-in Puffy Neptune with Hidden Friends: The Enigma of TOI 620. <i>Astronomical Journal</i> , 2022, 163, 269.	4.7	4
62	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
63	Dynamical Architecture of the HD 107148 Planetary System. <i>Astronomical Journal</i> , 2022, 163, 198.	4.7	0