

# Edward W Schwieterman

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

2,391  
citations

257450

24  
h-index

315739

38  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1957  
citing authors

#	ARTICLE	IF	CITATIONS
1	Disruption of a Planetary Nitrogen Cycle as Evidence of Extraterrestrial Agriculture. <i>Astrophysical Journal Letters</i> , 2022, 929, L28.	8.3	7
2	Earliest Photic Zone Niches Probed by Ancestral Microbial Rhodopsins. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	5
3	Searching for technosignatures in exoplanetary systems with current and future missions. <i>Acta Astronautica</i> , 2022, 198, 194-207.	3.2	5
4	Early evolution of purple retinal pigments on Earth and implications for exoplanet biosignatures. <i>International Journal of Astrobiology</i> , 2021, 20, 241-250.	1.6	34
5	Claimed Detection of PH <sub>3</sub> in the Clouds of Venus Is Consistent with Mesospheric SO <sub>2</sub> . <i>Astrophysical Journal Letters</i> , 2021, 908, L44.	8.3	40
6	Giant Outer Transiting Exoplanet Mass (GOT ~EM) Survey. I. Confirmation of an Eccentric, Cool Jupiter with an Interior Earth-sized Planet Orbiting Kepler-1514*. <i>Astronomical Journal</i> , 2021, 161, 103.	4.7	12
7	L 98-59: A Benchmark System of Small Planets for Future Atmospheric Characterization. <i>Astronomical Journal</i> , 2021, 162, 169.	4.7	14
8	Giant Outer Transiting Exoplanet Mass (GOT ~EM) Survey. II. Discovery of a Failed Hot Jupiter on a 2.7 Yr, Highly Eccentric Orbit*. <i>Astronomical Journal</i> , 2021, 162, 154.	4.7	14
9	Extremophilic models for astrobiology: haloarchaeal survival strategies and pigments for remote sensing. <i>Extremophiles</i> , 2020, 24, 31-41.	2.3	42
10	Sensitive probing of exoplanetary oxygen via mid-infrared collisional absorption. <i>Nature Astronomy</i> , 2020, 4, 372-376.	10.1	32
11	Observational Constraints on the Great Filter. <i>Astrobiology</i> , 2020, 20, 572-579.	3.0	11
12	Photochemistry of Anoxic Abiotic Habitable Planet Atmospheres: Impact of New H <sub>2</sub> O Cross Sections. <i>Astrophysical Journal</i> , 2020, 896, 148.	4.5	45
13	A Limited Habitable Zone for Complex Life. <i>Astrophysical Journal</i> , 2019, 878, 19.	4.5	30
14	Rethinking CO Antibiosignatures in the Search for Life Beyond the Solar System. <i>Astrophysical Journal</i> , 2019, 874, 9.	4.5	23
15	Earthshine as an illumination source at the Moon. <i>Icarus</i> , 2019, 321, 841-856.	2.5	9
16	Earth: Atmospheric Evolution of a Habitable Planet. , 2018, , 1-37.		4
17	Exoplanet Biosignatures: A Review of Remotely Detectable Signs of Life. <i>Astrobiology</i> , 2018, 18, 663-708.	3.0	328
18	Surface and Temporal Biosignatures. , 2018, , 1-29.		1

#	ARTICLE	IF	CITATIONS
19	The Habitability of Proxima Centauri b: Environmental States and Observational Discriminants. <i>Astrobiology</i> , 2018, 18, 133-189.	3.0	102
20	Earth: Atmospheric Evolution of a Habitable Planet. , 2018, , 2817-2853.		6
21	Surface and Temporal Biosignatures. , 2018, , 3173-3201.		5
22	Detecting Ocean Glint on Exoplanets Using Multiphase Mapping. <i>Astronomical Journal</i> , 2018, 156, 301.	4.7	49
23	Exoplanet Biosignatures: Understanding Oxygen as a Biosignature in the Context of Its Environment. <i>Astrobiology</i> , 2018, 18, 630-662.	3.0	194
24	Exoplanet Biosignatures: Future Directions. <i>Astrobiology</i> , 2018, 18, 779-824.	3.0	85
25	Atmospheric Seasonality as an Exoplanet Biosignature. <i>Astrophysical Journal Letters</i> , 2018, 858, L14.	8.3	40
26	Exoplanet Biosignatures: At the Dawn of a New Era of Planetary Observations. <i>Astrobiology</i> , 2018, 18, 619-629.	3.0	54
27	Pale Orange Dots: The Impact of Organic Haze on the Habitability and Detectability of Earthlike Exoplanets. <i>Astrophysical Journal</i> , 2017, 836, 49.	4.5	122
28	False Negatives for Remote Life Detection on Ocean-Bearing Planets: Lessons from the Early Earth. <i>Astrobiology</i> , 2017, 17, 287-297.	3.0	97
29	Correlations Between Life-Detection Techniques and Implications for Sampling Site Selection in Planetary Analog Missions. <i>Astrobiology</i> , 2017, 17, 1009-1021.	3.0	17
30	Modeling $N_2$ through Geological Time: Implications for Planetary Climates and Atmospheric Biosignatures. <i>Astrobiology</i> , 2016, 16, 949-963.	3.0	53
31	The Pale Orange Dot: The Spectrum and Habitability of Hazy Archean Earth. <i>Astrobiology</i> , 2016, 16, 873-899.	3.0	229
32	IS THE PALE BLUE DOT UNIQUE? OPTIMIZED PHOTOMETRIC BANDS FOR IDENTIFYING EARTH-LIKE EXOPLANETS. <i>Astrophysical Journal</i> , 2016, 817, 31.	4.5	31
33	IDENTIFYING PLANETARY BIOSIGNATURE IMPOSTORS: SPECTRAL FEATURES OF $CO$ AND $O_4$ RESULTING FROM ABIOTIC $O_2/O_3$ PRODUCTION. <i>Astrophysical Journal Letters</i> , 2016, 819, L13.	8.3	100
34	DETECTING AND CONSTRAINING $N_2$ ABUNDANCES IN PLANETARY ATMOSPHERES USING COLLISIONAL PAIRS. <i>Astrophysical Journal</i> , 2015, 810, 57.	4.5	73
35	Synchronous in-field application of life-detection techniques in planetary analog missions. <i>Planetary and Space Science</i> , 2015, 106, 1-10.	1.7	10
36	Nonphotosynthetic Pigments as Potential Biosignatures. <i>Astrobiology</i> , 2015, 15, 341-361.	3.0	61

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37	ABIOTIC O <sub>2</sub> LEVELS ON PLANETS AROUND F, G, K, AND M STARS: POSSIBLE FALSE POSITIVES FOR LIFE?. <i>Astrophysical Journal</i> , 2015, 812, 137.	4.5	173
38	DETECTION OF OCEAN GLINT AND OZONE ABSORPTION USING <i>LCROSS</i> EARTH OBSERVATIONS. <i>Astrophysical Journal</i> , 2014, 787, 171.	4.5	93
39	A QUARTER-CENTURY OF OBSERVATIONS OF COMET 10P/TEMPEL 2 AT LOWELL OBSERVATORY: CONTINUED SPIN-DOWN, COMA MORPHOLOGY, PRODUCTION RATES, AND NUMERICAL MODELING. <i>Astronomical Journal</i> , 2012, 144, 153.	4.7	19
40	THE INCREASING ROTATION PERIOD OF COMET 10P/TEMPEL 2. <i>Astronomical Journal</i> , 2011, 141, 2.	4.7	19
41	<i>EPOXI</i> : COMET 103P/HARTLEY 2 OBSERVATIONS FROM A WORLDWIDE CAMPAIGN. <i>Astrophysical Journal Letters</i> , 2011, 734, L1.	8.3	96