

# Dirk Schulze-Makuch

## List of Publications by Year in descending order

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179  
papers

4,744  
citations

117625

34  
h-index

128289

60  
g-index

190  
all docs

190  
docs citations

190  
times ranked

4143  
citing authors

#	ARTICLE	IF	CITATIONS
1	Longitudinal dispersivity data and implications for scaling behavior. <i>Ground Water</i> , 2005, 43, 443-456.	1.3	264
2	Scale Dependency of Hydraulic Conductivity in Heterogeneous Media. <i>Ground Water</i> , 1999, 37, 904-919.	1.3	212
3	Transitory microbial habitat in the hyperarid Atacama Desert. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2670-2675.	7.1	172
4	A Sulfur-Based Survival Strategy for Putative Phototrophic Life in the Venusian Atmosphere. <i>Astrobiology</i> , 2004, 4, 11-18.	3.0	149
5	Exploration of hydrothermal targets on Mars. <i>Icarus</i> , 2007, 189, 308-324.	2.5	140
6	Water droplets in oil are microhabitats for microbial life. <i>Science</i> , 2014, 345, 673-676.	12.6	118
7	A Two-Tiered Approach to Assessing the Habitability of Exoplanets. <i>Astrobiology</i> , 2011, 11, 1041-1052.	3.0	117
8	Limits of Life and the Habitability of Mars: The ESA Space Experiment BIOMEX on the ISS. <i>Astrobiology</i> , 2019, 19, 145-157.	3.0	111
9	GRS evidence and the possibility of paleooceans on Mars. <i>Planetary and Space Science</i> , 2009, 57, 664-684.	1.7	107
10	Biologically Enhanced Energy and Carbon Cycling on Titan?. <i>Astrobiology</i> , 2005, 5, 560-567.	3.0	106
11	The prospect of alien life in exotic forms on other worlds. <i>Die Naturwissenschaften</i> , 2006, 93, 155-172.	1.6	105
12	Reassessing the Possibility of Life on Venus: Proposal for an Astrobiology Mission. <i>Astrobiology</i> , 2002, 2, 197-202.	3.0	104
13	Recent geological and hydrological activity on Mars: The Tharsis/Elysium corridor. <i>Planetary and Space Science</i> , 2008, 56, 985-1013.	1.7	92
14	Supercritical Carbon Dioxide and Its Potential as a Life-Sustaining Solvent in a Planetary Environment. <i>Life</i> , 2014, 4, 331-340.	2.4	88
15	The Search for Alien Life in Our Solar System: Strategies and Priorities. <i>Astrobiology</i> , 2009, 9, 335-343.	3.0	87
16	Adaptation of an Antarctic lichen to Martian niche conditions can occur within 34 days. <i>Planetary and Space Science</i> , 2014, 98, 182-190.	1.7	82
17	Variations in hydraulic conductivity with scale of measurement during aquifer tests in heterogeneous, porous carbonate rocks. <i>Hydrogeology Journal</i> , 1998, 6, 204-215.	2.1	78
18	Optimizing the detection of carotene in cyanobacteria in a martian regolith analogue with a Raman spectrometer for the ExoMars mission. <i>Planetary and Space Science</i> , 2012, 60, 356-362.	1.7	77

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19	Noachian and more recent phyllosilicates in impact craters on Mars. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12095-12100.	7.1	73
20	Microbial Survival Rates of Escherichia coli and Deinococcus radiodurans Under Low Temperature, Low Pressure, and UV-Irradiation Conditions, and Their Relevance to Possible Martian Life. Astrobiology, 2006, 6, 332-347.	3.0	68
21	Energy Cycling and Hypothetical Organisms in Europa's Ocean. Astrobiology, 2002, 2, 105-121.	3.0	64
22	The Last Possible Outposts for Life on Mars. Astrobiology, 2016, 16, 159-168.	3.0	63
23	Searching for Life on Mars Before It Is Too Late. Astrobiology, 2017, 17, 962-970.	3.0	61
24	A possible biogenic origin for hydrogen peroxide on Mars: the Viking results reinterpreted. International Journal of Astrobiology, 2007, 6, 147-152.	1.6	60
25	Assessing the Plausibility of Life on Other Worlds. Astrobiology, 2001, 1, 143-160.	3.0	49
26	Microbial Life in a Liquid Asphalt Desert. Astrobiology, 2011, 11, 241-258.	3.0	49
27	Scenarios for the evolution of life on Mars. Journal of Geophysical Research, 2005, 110, .	3.3	48
28	Assessing the Possibility of Biological Complexity on Other Worlds, with an Estimate of the Occurrence of Complex Life in the Milky Way Galaxy. Challenges, 2014, 5, 159-174.	1.7	48
29	Limnology of Pavilion Lake, B. C., Canada Characterization of a microbialite forming environment. Fundamental and Applied Limnology, 2009, 173, 329-351.	0.7	46
30	Subsurface formation of oxidants on Mars and implications for the preservation of organic biosignatures. Earth and Planetary Science Letters, 2008, 272, 456-463.	4.4	45
31	Venus, Mars, and the Ices on Mercury and the Moon: Astrobiological Implications and Proposed Mission Designs. Astrobiology, 2005, 5, 778-795.	3.0	44
32	Deliquescence-induced wetting and RSL-like darkening of a Mars analogue soil containing various perchlorate and chloride salts. Geophysical Research Letters, 2016, 43, 4880-4884.	4.0	41
33	Locating Potential Biosignatures on Europa from Surface Geology Observations. Astrobiology, 2003, 3, 851-861.	3.0	39
34	Formation and disruption of aquifers in southwestern Chryse Planitia, Mars. Icarus, 2007, 191, 545-567.	2.5	38
35	Venus, an Astrobiology Target. Astrobiology, 2021, 21, 1163-1185.	3.0	38
36	The case for life on Mars. International Journal of Astrobiology, 2008, 7, 117-141.	1.6	37

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37	Evidence for Amazonian acidic liquid water on Mars—A reinterpretation of MER mission results. <i>Planetary and Space Science</i> , 2009, 57, 276-287.	1.7	36
38	The Effect of Critical pH on Virus Fate and Transport in Saturated Porous Medium. <i>Ground Water</i> , 2003, 41, 701-708.	1.3	35
39	<i>Cosmic Biology</i> , 2011, , .		35
40	A cold hydrological system in Gale crater, Mars. <i>Planetary and Space Science</i> , 2014, 93-94, 101-118.	1.7	34
41	Strategy for Modeling Putative Multilevel Ecosystems on Europa. <i>Astrobiology</i> , 2003, 3, 813-821.	3.0	33
42	Tier-Scalable Reconnaissance Missions For The Autonomous Exploration Of Planetary Bodies. , 2007, , .		32
43	The Biological Oxidant and Life Detection (BOLD) mission: A proposal for a mission to Mars. <i>Planetary and Space Science</i> , 2012, 67, 57-69.	1.7	32
44	Enhanced Microbial Survivability in Subzero Brines. <i>Astrobiology</i> , 2018, 18, 1171-1180.	3.0	32
45	New evidence for a magmatic influence on the origin of Valles Marineris, Mars. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 185, 12-27.	2.1	31
46	New Priorities in the Robotic Exploration of Mars: The Case for <i>In Situ</i> Search for Extant Life. <i>Astrobiology</i> , 2010, 10, 705-710.	3.0	31
47	The Development of an Effective Bacterial Single-Cell Lysis Method Suitable for Whole Genome Amplification in Microfluidic Platforms. <i>Micromachines</i> , 2018, 9, 367.	2.9	31
48	Bacterial Growth in Chloride and Perchlorate Brines: Halotolerances and Salt Stress Responses of <i>Planococcus halocryophilus</i> . <i>Astrobiology</i> , 2019, 19, 1377-1387.	3.0	30
49	Methanogenic Archaea Can Produce Methane in Deliquescence-Driven Mars Analog Environments. <i>Scientific Reports</i> , 2020, 10, 6.	3.3	30
50	Thermal Energy and the Origin of Life. <i>Origins of Life and Evolution of Biospheres</i> , 2006, 36, 177-189.	1.9	28
51	Drastic environmental change and its effects on a planetary biosphere. <i>Icarus</i> , 2013, 225, 775-780.	2.5	28
52	Search parameters for the remote detection of extraterrestrial life. <i>Planetary and Space Science</i> , 2002, 50, 675-683.	1.7	27
53	Diverse Viruses Carrying Genes for Microbial Extremotolerance in the Atacama Desert Hyperarid Soil. <i>MSystems</i> , 2021, 6, .	3.8	27
54	Method developed for extrapolating scale behavior. <i>Eos</i> , 1997, 78, 3.	0.1	26

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55	A New Record for Microbial Perchlorate Tolerance: Fungal Growth in NaClO <sub>4</sub> Brines and its Implications for Putative Life on Mars. <i>Life</i> , 2020, 10, 53.	2.4	26
56	The overprotection of Mars. <i>Nature Geoscience</i> , 2013, 6, 510-511.	12.9	25
57	Energy Sources and Life. , 2018, , 75-100.		25
58	Field Evaluation of the Effectiveness of Surfactant Modified Zeolite and Iron-Oxide-Coated Sand for Removing Viruses and Bacteria from Ground Water. <i>Ground Water Monitoring and Remediation</i> , 2003, 23, 68-74.	0.8	24
59	Geological and hydrological histories of the Argyre province, Mars. <i>Icarus</i> , 2015, 253, 66-98.	2.5	24
60	The Cosmic Zoo: The (Near) Inevitability of the Evolution of Complex, Macroscopic Life. <i>Life</i> , 2016, 6, 25.	2.4	24
61	Effects of Oxygen-Containing Salts on the Detection of Organic Biomarkers on Mars and in Terrestrial Analog Soils. <i>Astrobiology</i> , 2019, 19, 711-721.	3.0	24
62	Extraterrestrial hydrogeology. <i>Hydrogeology Journal</i> , 2005, 13, 51-68.	2.1	23
63	The search for life beyond Earth through fuzzy expert systems. <i>Planetary and Space Science</i> , 2008, 56, 448-472.	1.7	23
64	The Adaptability of Life on Earth and the Diversity of Planetary Habitats. <i>Frontiers in Microbiology</i> , 2017, 8, 2011.	3.5	23
65	Life in the Universe. , 2018, , .		23
66	Prime candidate sites for astrobiological exploration through the hydrogeological history of Mars. <i>Planetary and Space Science</i> , 2005, 53, 1355-1375.	1.7	22
67	Was There an Early Habitability Window for Earth's Moon?. <i>Astrobiology</i> , 2018, 18, 985-988.	3.0	22
68	Surfactant-modified zeolite can protect drinking water wells from viruses and bacteria. <i>Eos</i> , 2002, 83, 193-201.	0.1	20
69	Correlation between microbiological and chemical parameters of some hydrothermal springs in New Mexico, USA. <i>Journal of Hydrology</i> , 2003, 280, 272-284.	5.4	20
70	Thiophenes on Mars: Biotic or Abiotic Origin?. <i>Astrobiology</i> , 2020, 20, 552-561.	3.0	20
71	Adaptations to environmental extremes by multicellular organisms. <i>International Journal of Astrobiology</i> , 2007, 6, 199-215.	1.6	19
72	Fluorine-Rich Planetary Environments as Possible Habitats for Life. <i>Life</i> , 2014, 4, 374-385.	2.4	19

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73	Microbial Hotspots in Lithic Microhabitats Inferred from DNA Fractionation and Metagenomics in the Atacama Desert. <i>Microorganisms</i> , 2021, 9, 1038.	3.6	19
74	A roadmap for planetary caves science and exploration. <i>Nature Astronomy</i> , 2021, 5, 524-525.	10.1	19
75	Nearly Forty Years after Viking: Are We Ready for a New Life-Detection Mission?. <i>Astrobiology</i> , 2015, 15, 413-419.	3.0	18
76	Leave no stone unturned: individually adapted xerotolerant Thaumarchaeota sheltered below the boulders of the Atacama Desert hyperarid core. <i>Microbiome</i> , 2021, 9, 234.	11.1	18
77	Effects of pH and Geological Medium on Bacteriophage MS2 Transport in a Model Aquifer. <i>Geomicrobiology Journal</i> , 2003, 20, 73-84.	2.0	17
78	Meteorites at Meridiani Planum provide evidence for significant amounts of surface and near-surface water on early Mars. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1832-1841.	1.6	17
79	The Astrobiology of Alien Worlds: Known and Unknown Forms of Life. <i>Universe</i> , 2020, 6, 130.	2.5	17
80	Locally Targeted Ecosynthesis: A Proactive <i>in situ</i> Search for Extant Life on Other Worlds. <i>Astrobiology</i> , 2013, 13, 674-678.	3.0	16
81	In Search for a Planet Better than Earth: Top Contenders for a Superhabitable World. <i>Astrobiology</i> , 2020, 20, 1394-1404.	3.0	16
82	Sorption heat engines: Simple inanimate negative entropy generators. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 362, 369-381.	2.6	15
83	Another Earth 2.0? Not So Fast. <i>Astrobiology</i> , 2016, 16, 817-821.	3.0	15
84	The Microbial Enhanced Oil Recovery (MEOR) potential of Halanaerobiales under dynamic conditions in different porous media. <i>Journal of Petroleum Science and Engineering</i> , 2021, 196, 107578.	4.2	15
85	Microbiological and chemical characterization of hydrothermal fluids at Tortugas Mountain Geothermal Area, southern New Mexico, USA. <i>Hydrogeology Journal</i> , 2000, 8, 295-309.	2.1	14
86	Genetic code: Lucky chance or fundamental law of nature?. <i>Physics of Life Reviews</i> , 2004, 1, 202-229.	2.8	14
87	The Cosmic Zoo. , 2017, , .		14
88	The First Cell and the Origin of Life Challenge. , 2017, , 35-52.		14
89	Mechanisms of Evolutionary Innovation Point to Genetic Control Logic as the Key Difference Between Prokaryotes and Eukaryotes. <i>Journal of Molecular Evolution</i> , 2015, 81, 34-53.	1.8	13
90	Habitability Models for Astrobiology. <i>Astrobiology</i> , 2021, 21, 1017-1027.	3.0	13

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91	Automated Global Feature Analyzer - A Driver for Tier-Scalable Reconnaissance. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	12
92	A formation mechanism for hematite-rich spherules on Mars. Planetary and Space Science, 2010, 58, 401-410.	1.7	12
93	New types of boulder accumulations in the hyper-arid Atacama Desert. Geomorphology, 2020, 350, 106897.	2.6	12
94	Applications of particle-tracking techniques to bank infiltration: a case study from El Paso, Texas, USA. Environmental Geology, 2008, 55, 505-515.	1.2	11
95	Planetary Protection and the astrobiological exploration of Mars: Proactive steps in moving forward. Advances in Space Research, 2019, 63, 1491-1497.	2.6	11
96	New type of sand wedge polygons in the salt cemented soils of the hyper-arid Atacama Desert. Geomorphology, 2021, 373, 107481.	2.6	11
97	Low frequency electromagnetic waves as a supplemental energy source to sustain microbial growth?. Die Naturwissenschaften, 2005, 92, 115-120.	1.6	10
98	Pavilion Lake Microbialites: Morphological, Molecular and Biochemical Evidence for a Cold-Water Transition to Colonial Aggregates. Life, 2013, 3, 21-37.	2.4	10
99	Microbial and chemical characterization of a groundwater flow system in an intermontane basin of southern New Mexico, USA. Hydrogeology Journal, 2003, 11, 401-412.	2.1	9
100	Testing the H <sub>2</sub> O <sub>2</sub> -H <sub>2</sub> O Hypothesis for Life on Mars with the TEGA Instrument on the Phoenix Lander. Astrobiology, 2008, 8, 205-214.	3.0	9
101	How Many Biochemistries Are Available To Build a Cell?. ChemBioChem, 2015, 16, 2137-2139.	2.6	9
102	The Physical, Chemical and Physiological Limits of Life. Life, 2015, 5, 1472-1486.	2.4	9
103	Autonomous exploration of planetary lava tubes using a multi-rover framework. , 2015, , .		9
104	Inhibition of microbial souring with molybdate and its application under reservoir conditions. International Biodeterioration and Biodegradation, 2021, 157, 105158.	3.9	9
105	Influence of surface mineralogy on the activity of Halanaerobium sp. during microbial enhanced oil recovery (MEOR). Fuel, 2021, 290, 119973.	6.4	9
106	Long-lived volcanism within Argyre basin, Mars. Icarus, 2017, 293, 8-26.	2.5	8
107	Is Searching for Martian Life a Priority for the Mars Community?. Astrobiology, 2018, 18, 101-107.	3.0	8
108	The Naked Mole-Rat: An Unusual Organism with an Unexpected Latent Potential for Increased Intelligence?. Life, 2019, 9, 76.	2.4	8

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109	Geochemical proxies for water-soil interactions in the hyperarid Atacama Desert, Chile. <i>Catena</i> , 2021, 206, 105531.	5.0	8
110	Physicochemical Parameters Limiting Growth of <i>Debaryomyces hansenii</i> in Solutions of Hygroscopic Compounds and Their Effects on the Habitability of Martian Brines. <i>Life</i> , 2021, 11, 1194.	2.4	8
111	A new hypothesis for the origin and redistribution of sulfates in the equatorial region of western Mars. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	7
112	Investigation of water signatures at gully-exposed sites on Mars by hyperspectral image analysis. <i>Planetary and Space Science</i> , 2009, 57, 93-104.	1.7	7
113	Extremophiles on Alien Worlds: What Types of Organismic Adaptations are Feasible on Other Planetary Bodies. <i>Cellular Origin and Life in Extreme Habitats</i> , 2013, , 253-265.	0.3	7
114	Planetary Imaging in Powers of Ten: A Multiscale, Multipurpose Astrobiological Imager. <i>Astrobiology</i> , 2013, 13, 1005-1010.	3.0	7
115	Nutrient and population dynamics in a subglacial reservoir: a simulation case study of the Blood Falls ecosystem with implications for astrobiology. <i>International Journal of Astrobiology</i> , 2013, 12, 304-311.	1.6	7
116	Amino acid synthesis in Europa's subsurface environment. <i>International Journal of Astrobiology</i> , 2008, 7, 193-203.	1.6	6
117	Possibilities for the detection of hydrogen peroxide“water-based life on Mars by the Phoenix Lander. <i>Planetary and Space Science</i> , 2009, 57, 449-453.	1.7	6
118	The power of social structure: how we became an intelligent lineage. <i>International Journal of Astrobiology</i> , 2011, 10, 15-23.	1.6	6
119	Glacial paleoenvironments on Mars revealed by the paucity of hydrated silicates in the Noachian crust of the Northern Lowlands. <i>Planetary and Space Science</i> , 2012, 70, 126-133.	1.7	6
120	Simulations of Prebiotic Chemistry under Post-Impact Conditions on Titan. <i>Life</i> , 2013, 3, 538-549.	2.4	6
121	Time to consider search strategies for complex life on exoplanets. <i>Nature Astronomy</i> , 2018, 2, 432-433.	10.1	6
122	Machine Learning Algorithms Applied to Identify Microbial Species by Their Motility. <i>Life</i> , 2021, 11, 44.	2.4	6
123	The Case (or Not) for Life in the Venusian Clouds. <i>Life</i> , 2021, 11, 255.	2.4	6
124	Whole genome sequencing of cyanobacterium <i>Nostoc</i> sp. CCCryo 231-06 using microfluidic single cell technology. <i>IScience</i> , 2022, 25, 104291.	4.1	6
125	Functional Traits Co-Occurring with Mobile Genetic Elements in the Microbiome of the Atacama Desert. <i>Diversity</i> , 2019, 11, 205.	1.7	5
126	A chemical and microbial characterization of selected mud volcanoes in Trinidad reveals pathogens introduced by surface water and rain water. <i>Science of the Total Environment</i> , 2020, 707, 136087.	8.0	5



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127	Physicochemical Salt Solution Parameters Limit the Survival of <i>Planococcus halocryophilus</i> in Martian Cryobrine. <i>Frontiers in Microbiology</i> , 2020, 11, 1284.	3.5	5
128	Introduction to the Special Paper Collection: Methodologies and Techniques for Detecting Extraterrestrial (Microbial) Life. <i>Astrobiology</i> , 2003, 3, 487-488.	3.0	4
129	The Solar Wind Power Satellite as an alternative to a traditional Dyson Sphere and its implications for remote detection. <i>International Journal of Astrobiology</i> , 2010, 9, 89-99.	1.6	4
130	The landscape of life. , 2015, , 81-94.		4
131	The Argyre Region as a Prime Target for <i>in situ</i> Astrobiological Exploration of Mars. <i>Astrobiology</i> , 2016, 16, 143-158.	3.0	4
132	Pre-conditions for Complex Life. , 2017, , 13-32.		4
133	Life and the Need for a Solvent. , 2018, , 123-147.		3
134	Suspended Animation. , 2011, , 153-172.		3
135	Application of Raman Spectroscopy as In Situ Technology for the Search for Life. <i>Cellular Origin and Life in Extreme Habitats</i> , 2013, , 331-345.	0.3	3
136	The Biological Oxidant and Life Detection (BOLD) mission: an outline for a new mission to Mars. <i>Proceedings of SPIE</i> , 2007, , .	0.8	2
137	Session 3. Approaches and Technologies to Detect Life on Mars. <i>Astrobiology</i> , 2008, 8, 302-305.	3.0	2
138	The immune system as key to cancer treatment: Triggering its activity with microbial agents. <i>Bioscience Hypotheses</i> , 2009, 2, 388-392.	0.2	2
139	Effects of Low-Temperature Plasma-Sterilization on Mars Analog Soil Samples Mixed with <i>Deinococcus radiodurans</i> . <i>Life</i> , 2016, 6, 22.	2.4	2
140	Evaluating the Microbial Habitability of Rogue Planets and Proposing Speculative Scenarios on How They Might Act as Vectors for Panspermia. <i>Life</i> , 2021, 11, 833.	2.4	2
141	Organic Molecules in Lunar Ice: A Window to the Early Evolution of Life on Earth. <i>Cellular Origin and Life in Extreme Habitats</i> , 2013, , 115-125.	0.3	2
142	Astrobiology and the Search for Life in the Universe. , 0, , 349-358.		2
143	Building Blocks of Life. , 2018, , 101-121.		2
144	Searching for Life Beyond Our Planet: Are We There Yet?. <i>Eos</i> , 2010, 91, 280-280.	0.1	1

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145	A Dynamic Scheme to Assess Habitability of Exoplanets. Cellular Origin and Life in Extreme Habitats, 2012, , 307-321.	0.3	1
146	The First Multicellular Organisms. , 2017, , 107-120.		1
147	The ALH84001 Case for Life on Mars. Cellular Origin and Life in Extreme Habitats, 2009, , 471-489.	0.3	1
148	Survey of the Outline of an Early Roman Marching-camp in Germany by Rammner's Current Line Perturbation Method. Journal of Archaeological Science, 1996, 23, 883-887.	2.4	0
149	The hydrogen peroxide-water hypothesis for life on Mars and the problem of detection. Proceedings of SPIE, 2007, , .	0.8	0
150	Frozen Desert. , 2011, , 105-135.		0
151	Rare Earths and Life Unseen. , 2011, , 1-14.		0
152	A question of Curiosity. New Scientist, 2016, 231, 18-19.	0.0	0
153	Endosymbiosis and the First Eukaryotes. , 2017, , 77-94.		0
154	How to Test the Cosmic Zoo Hypothesis. , 2017, , 181-200.		0
155	Life Detection: Past and Present. , 2018, , 183-202.		0
156	Exoplanets and Exomoons. , 2018, , 229-246.		0
157	The Future and Fate of Living Systems. , 2018, , 255-264.		0
158	The Search for Extraterrestrial Intelligent Life. , 2018, , 265-273.		0
159	Optimizing Space Exploration. , 2018, , 275-286.		0
160	Signatures of Life. , 2018, , 165-181.		0
161	Lessons from the History of Life on Earth. , 2018, , 51-73.		0
162	Review of David Deamer's Book Assembling Life: How Can Life Begin on Earth and Other Habitable Planets?. Astrobiology, 2019, 19, 1540-1541.	3.0	0

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163	Evolution of default genetic control mechanisms. PLoS ONE, 2021, 16, e0251568.	2.5	0
164	Petrolakes. , 2011, , 225-251.		0
165	Deep and Dark. , 2011, , 173-200.		0
166	Astrobiologyâ€™a melting pot of open scientific questions. Science and Fiction, 2014, , 225-236.	0.0	0
167	Alien Encounter. Science and Fiction, 2014, , .	0.0	0
168	Intelligence, a New Concept?. , 2017, , 137-162.		0
169	Technologically Advanced Intelligence. , 2017, , 163-177.		0
170	The Cosmic Zoo Hypothesis and the Evolutionary Tool Set. , 2017, , 3-12.		0
171	Habitats of Life. , 2018, , 149-164.		0
172	Intelligenz â€™ ein neues Konzept?. , 2019, , 163-192.		0
173	Wie erkennen wir ein lebendiges Universum?. , 2019, , 213-236.		0
174	Die erste Zelle und das Problem vom Ursprung des Lebens. , 2019, , 41-62.		0
175	Die ersten Vielzeller. , 2019, , 127-142.		0
176	Die Hypothese vom lebendigen Universum und der Werkzeugkasten der Evolution. , 2019, , 3-13.		0
177	Technologisch fortgeschrittene Intelligenz. , 2019, , 193-209.		0
178	Voraussetzungen für komplexes Leben. , 2019, , 15-38.		0
179	Endosymbiose und die ersten Eukaryoten. , 2019, , 93-112.		0