

Morgan Cable

List of Publications by Year in descending order

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56
papers

1,912
citations

331670

21
h-index

254184

43
g-index

56
all docs

56
docs citations

56
times ranked

2407
citing authors

#	ARTICLE	IF	CITATIONS
1	An introduction to the NASA Hyperspectral InfraRed Imager (HyspIRI) mission and preparatory activities. <i>Remote Sensing of Environment</i> , 2015, 167, 6-19.	11.0	278
2	The NASA Roadmap to Ocean Worlds. <i>Astrobiology</i> , 2019, 19, 1-27.	3.0	209
3	Titan Tholins: Simulating Titan Organic Chemistry in the Cassini-Huygens Era. <i>Chemical Reviews</i> , 2012, 112, 1882-1909.	47.7	193
4	Bacterial Spore Detection by [Tb ³⁺ (macrocycle)(dipicolinate)] Luminescence. <i>Journal of the American Chemical Society</i> , 2007, 129, 1474-1475.	13.7	171
5	Detection of Bacterial Spores with Lanthanide~Macrocycle Binary Complexes. <i>Journal of the American Chemical Society</i> , 2009, 131, 9562-9570.	13.7	108
6	Science Goals and Objectives for the Dragonfly Titan Rotorcraft Relocatable Lander. <i>Planetary Science Journal</i> , 2021, 2, 130.	3.6	80
7	The Enceladus Orbilander Mission Concept: Balancing Return and Resources in the Search for Life. <i>Planetary Science Journal</i> , 2021, 2, 77.	3.6	74
8	Enhancement of Anion Binding in Lanthanide Optical Sensors. <i>Accounts of Chemical Research</i> , 2013, 46, 2576-2584.	15.6	51
9	Science Goals and Mission Architecture of the Europa Lander Mission Concept. <i>Planetary Science Journal</i> , 2022, 3, 22.	3.6	42
10	The Science Case for a Return to Enceladus. <i>Planetary Science Journal</i> , 2021, 2, 132.	3.6	40
11	Luminescent lanthanide sensors. <i>Advances in Inorganic Chemistry</i> , 2011, 63, 1-45.	1.0	39
12	Enceladus Life Finder: The search for life in a habitable Moon. , 2016, , .		39
13	Discriminating Abiotic and Biotic Fingerprints of Amino Acids and Fatty Acids in Ice Grains Relevant to Ocean Worlds. <i>Astrobiology</i> , 2020, 20, 1168-1184.	3.0	38
14	Analog Experiments for the Identification of Trace Biosignatures in Ice Grains from Extraterrestrial Ocean Worlds. <i>Astrobiology</i> , 2020, 20, 179-189.	3.0	37
15	Low-Temperature Microchip Nonaqueous Capillary Electrophoresis of Aliphatic Primary Amines: Applications to Titan Chemistry. <i>Analytical Chemistry</i> , 2013, 85, 1124-1131.	6.5	35
16	Prospects for mineralogy on Titan. <i>American Mineralogist</i> , 2018, 103, 343-349.	1.9	35
17	Understanding Hypervelocity Sampling of Biosignatures in Space Missions. <i>Astrobiology</i> , 2021, 21, 421-442.	3.0	31
18	The Acetylene-Ammonia Co-crystal on Titan. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 366-375.	2.7	30

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19	Spectroscopic Analysis of Ligand Binding to Lanthanide ^{III} Macrocycle Platforms. <i>Analytical Chemistry</i> , 2008, 80, 5750-5754.	6.5	27
20	Terbium-Macrocycle Complexes as Chemical Sensors: Detection of an Aspirin Metabolite in Urine Using a Salicylurate-Specific Receptor Site. <i>Inorganic Chemistry</i> , 2010, 49, 4643-4647.	4.0	26
21	A co-crystal between benzene and ethane: a potential evaporite material for Saturn's moon Titan. <i>IUCr</i> , 2016, 3, 192-199.	2.2	26
22	Formation of a New Benzene ^{II} Ethane Co-Crystalline Structure Under Cryogenic Conditions. <i>Journal of Physical Chemistry A</i> , 2014, 118, 4087-4094.	2.5	23
23	Experimental determination of the kinetics of formation of the benzene ^{II} ethane co ^{II} crystal and implications for Titan. <i>Geophysical Research Letters</i> , 2014, 41, 5396-5401.	4.0	21
24	Science Objectives for Flagship-Class Mission Concepts for the Search for Evidence of Life at Enceladus. <i>Astrobiology</i> , 2022, 22, 685-712.	3.0	21
25	Identifying the n=2 reaction mechanism of FAD through voltammetric simulations. <i>Analytica Chimica Acta</i> , 2005, 537, 299-306.	5.4	20
26	A Co-Crystal between Acetylene and Butane: A Potentially Ubiquitous Molecular Mineral on Titan. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2808-2815.	2.7	19
27	Synthesis and magnetic characterization of microstructures prepared from microbial templates of differing morphology. <i>Materials Letters</i> , 2006, 60, 19-22.	2.6	18
28	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
29	Titan in a Test Tube: Organic Co-crystals and Implications for Titan Mineralogy. <i>Accounts of Chemical Research</i> , 2021, 54, 3050-3059.	15.6	17
30	Design rules and operational optimization for rapid, contamination-free microfluidic transfer using monolithic membrane valves. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 668-675.	7.8	15
31	Properties and Behavior of the Acetonitrile ^{II} Acetylene Co-Crystal under Titan Surface Conditions. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1375-1385.	2.7	13
32	Mixed Hydrocarbon and Cyanide Ice Compositions for Titan ^{II} s Atmospheric Aerosols: A Ternary-Phase Co-crystal Predicted by Density Functional Theory. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1195-1200.	2.7	11
33	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
34	Microchip nonaqueous capillary electrophoresis of saturated fatty acids using a new fluorescent dye. <i>Analytical Methods</i> , 2014, 6, 9532-9535.	2.7	9
35	Sampling Accelerated Micron Scale Ice Particles with a Quadrupole Ion Trap Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1162-1168.	2.8	9
36	Imaging spectrometer emulates Landsat: A case study with Airborne Visible Infrared Imaging Spectrometer (AVIRIS) and Operational Land Imager (OLI) data. <i>Remote Sensing of Environment</i> , 2018, 215, 157-169.	11.0	8

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37	Sampling Plume Deposits on Enceladus™ Surface to Explore Ocean Materials and Search for Traces of Life or Biosignatures. <i>Planetary Science Journal</i> , 2021, 2, 100.	3.6	8
38	The Role of Seasonal Sediment Transport and Sintering in Shaping Titan's Landscapes: A Hypothesis. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	8
39	Hydrolysis of 3-carboxy-6,8-difluoro-7-hydroxycoumarin (Pacific Blue®, ©) succinimidyl ester under acidic and basic conditions. <i>Dyes and Pigments</i> , 2013, 96, 148-151.	3.7	7
40	Raman Signatures and Thermal Expansivity of Acetylene Clathrate Hydrate. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7051-7056.	2.5	7
41	Analytical Chemistry in Astrobiology. <i>Analytical Chemistry</i> , 2021, 93, 5981-5997.	6.5	7
42	Anisotropic thermal expansion of the acetylene-ammonia co-crystal under Titan's conditions. <i>Journal of Applied Crystallography</i> , 2020, 53, 1524-1530.	4.5	7
43	Preferably Plinian and Pumaceous: Implications of Microbial Activity in Modern Volcanic Deposits at Askja Volcano, Iceland, and Relevancy for Mars Exploration. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1500-1514.	2.7	6
44	Balloon-Based Concept Vehicle for Extreme Terrain Mobility. , 2019, , .		3
45	Modeling transmission windows in Titan™s lower troposphere: Implications for infrared spectrometers aboard future aerial and surface missions. <i>Icarus</i> , 2021, 357, 114228.	2.5	3
46	Developing compelling and science-focused mission concepts for NASA competed mission proposals. <i>Acta Astronautica</i> , 2021, 191, 502-502.	3.2	3
47	Inelastic scattering dynamics of naphthalene and 2-octanone on highly oriented pyrolytic graphite. <i>Journal of Chemical Physics</i> , 2020, 152, 244709.	3.0	2
48	A simple gas introduction system for cryogenic powder X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2021, 54, 1268-1270.	4.5	2
49	Enceladus. , 2005, , 1-1.		2
50	Quantitative and Compositional Analysis of Trace Amino Acids in Icy Moon Analogues Using a Microcapillary Electrophoresis Laser-Induced Fluorescence Detection System. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 333-345.	2.7	2
51	Analytical Chemistry Throughout This Solar System. <i>Annual Review of Analytical Chemistry</i> , 2022, 15, 197-219.	5.4	2
52	Spatial Variation in Results of Biosignature Analyses of Apparently Homogeneous Samples from Mars Analogue Environments in Iceland. <i>ACS Earth and Space Chemistry</i> , 0, , .	2.7	2
53	FIRE - Flyby of Io with Repeat Encounters: A conceptual design for a New Frontiers mission to Io. <i>Advances in Space Research</i> , 2017, 60, 1080-1100.	2.6	1
54	Understanding Icy Worlds to Maximize Science Return on Future Missions. <i>Eos</i> , 2014, 95, 256-256.	0.1	0

#	ARTICLE	IF	CITATIONS
55	Chapter 3 Solids and Fluids at Low Temperatures. , 2016, , 27-54.		0
56	Balloon Locomotion for Extreme Terrain. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	0