

# Joel McCorkel

## List of Publications by Year in descending order

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76  
papers

3,243  
citations

623734

14  
h-index

276875

41  
g-index

79  
all docs

79  
docs citations

79  
times ranked

4484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Landsat-8: Science and product vision for terrestrial global change research. Remote Sensing of Environment, 2014, 145, 154-172.	11.0	1,599
2	Current status of Landsat program, science, and applications. Remote Sensing of Environment, 2019, 225, 127-147.	11.0	586
3	NASA Goddard's LiDAR, Hyperspectral and Thermal (G-LiHT) Airborne Imager. Remote Sensing, 2013, 5, 4045-4066.	4.0	278
4	Landsat 9: Empowering open science and applications through continuity. Remote Sensing of Environment, 2020, 248, 111968.	11.0	174
5	The Ground-Based Absolute Radiometric Calibration of Landsat 8 OLI. Remote Sensing, 2015, 7, 600-626.	4.0	135
6	High productivity in hybrid-poplar plantations without isoprene emission to the atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1596-1605.	7.1	31
7	Vicarious Calibration of EO-1 Hyperion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 400-407.	4.9	29
8	An inter-comparison exercise of Sentinel-2 radiometric validations assessed by independent expert groups. Remote Sensing of Environment, 2019, 233, 111369.	11.0	25
9	Validation of EO-1 Hyperion and Advanced Land Imager Using the Radiometric Calibration Test Site at Railroad Valley, Nevada. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 816-826.	4.9	22
10	The terrestrial organism and biogeochemistry spatial sampling design for the National Ecological Observatory Network. Ecosphere, 2019, 10, e02540.	2.2	20
11	Interactions between temperature and intercellular CO <sub>2</sub> concentration in controlling leaf isoprene emission rates. Plant, Cell and Environment, 2016, 39, 2404-2413.	5.7	18
12	GOES-16 ABI solar reflective channel validation for earth science application. Remote Sensing of Environment, 2020, 237, 111438.	11.0	18
13	Landsat 9 Thermal Infrared Sensor 2 Characterization Plan Overview. , 2018, , .		17
14	Reviews and syntheses: Ongoing and emerging opportunities to improve environmental science using observations from the Advanced Baseline Imager on the Geostationary Operational Environmental Satellites. Biogeosciences, 2021, 18, 4117-4141.	3.3	16
15	Absolute Radiometric Calibration of Narrow-Swath Imaging Sensors With Reference to Non-Coincident Wide-Swath Sensors. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1309-1318.	6.3	15
16	Earth-observing satellite intercomparison using the Radiometric Calibration Test Site at Railroad Valley. Journal of Applied Remote Sensing, 2017, 12, 1.	1.3	15
17	Temporal, spectral, and spatial study of the automated vicarious calibration test site at Railroad Valley, Nevada. Proceedings of SPIE, 2008, , .	0.8	13
18	Landsat 9 Thermal Infrared Sensor 2 Architecture and Design. , 2018, , .		12

#	ARTICLE	IF	CITATIONS
19	Goddard Laser for Absolute Measurement of Radiance for Instrument Calibration in the Ultraviolet to Short Wave Infrared. , 2018, , .		12
20	Quantifying Libya-4 Surface Reflectance Heterogeneity With WorldView-1, 2 and EO-1 Hyperion. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2277-2281.	3.1	10
21	Ultra-portable field transfer radiometer for vicarious calibration of earth imaging sensors. Metrologia, 2018, 55, S104-S117.	1.2	10
22	Goes-17 advanced baseline imager performance recovery summary. , 2019, , .		10
23	Overview of the 2015 Algodones Sand Dunes field campaign to support sensor intercalibration. Journal of Applied Remote Sensing, 2017, 12, 1.	1.3	9
24	Landsat 9 Thermal Infrared Sensor 2 (TIRS-2) Stray Light Mitigation and Assessment. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-8.	6.3	9
25	Landsat 9 Thermal Infrared Sensor 2 On-Orbit Calibration and Initial Performance. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-8.	6.3	9
26	VIIRS/J1 polarization narrative. , 2015, , .		8
27	Prelaunch Radiometric Calibration and Uncertainty Analysis of Landsat Thermal Infrared Sensor 2. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2715-2726.	6.3	8
28	Test plan for a calibration demonstration system for the reflected solar instrument for the climate absolute radiance and refractivity observatory. , 2012, , .		7
29	In-Situ Transfer Standard and Coincident-View Intercomparisons for Sensor Cross-Calibration. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1088-1097.	6.3	7
30	Landsat 9 Thermal Infrared Sensor 2 Preliminary Stray Light Assessment. , 2018, , .		6
31	Landsat 9: Mission Status and Prelaunch Instrument Performance Characterization and Calibration. , 2019, , .		6
32	The JPSS-2 VIIRS version 2 (at-launch) relative spectral response characterization. , 2019, , .		6
33	Vicarious calibration of the ASTER SWIR sensor including crosstalk correction. , 2005, , .		5
34	Instrumentation and first results of the reflected solar demonstration system for the Climate Absolute Radiance and Refractivity Observatory. Proceedings of SPIE, 2012, , .	0.8	5
35	Demonstrating the error budget for the Climate Absolute Radiance and Refractivity Observatory through solar irradiance measurements. Proceedings of SPIE, 2015, , .	0.8	5
36	Imager-to-radiometer in-flight cross calibration: RSP radiometric comparison with airborne and satellite sensors. Atmospheric Measurement Techniques, 2016, 9, 955-962.	3.1	5

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37	Landsat 9 Thermal Infrared Sensor 2 Subsystem-Level Spectral Test Results. , 2018, , .		5
38	Characterization of FIREFLY, an Imaging Spectrometer Designed for Remote Sensing of Solar Induced Fluorescence. Sensors, 2020, 20, 4682.	3.8	5
39	Development of a simulation environment to support intercalibration studies over the Algodones Dunes system. Journal of Applied Remote Sensing, 2017, 12, 1.	1.3	5
40	The Operational Land Imager-2: prelaunch spectral characterization. , 2019, , .		5
41	Landsat 9 Mission update and status. , 2020, , .		5
42	Radiometric calibration of Advanced Land Imager using reflectance-based results between 2001 and 2005. , 2006, , .		4
43	Early algorithm development efforts for the National Ecological Observatory Network Airborne Observation Platform imaging spectrometer and waveform lidar instruments. Proceedings of SPIE, 2011, , .	0.8	4
44	The development of a DIRSIG simulation environment to support instrument trade studies for the SOLARIS sensor. Proceedings of SPIE, 2015, , .	0.8	4
45	Landsat-8 on-orbit and Landsat-9 pre-launch sensor radiometric characterization. , 2018, , .		4
46	Airborne remote sensing instrumentation for NEON: Status and development. , 2011, , .		3
47	NEON ground validation capabilities for airborne and space-based imagers. Proceedings of SPIE, 2011, , .	0.8	3
48	Progress in the development of airborne remote sensing instrumentation for the National Ecological Observatory Network. Proceedings of SPIE, 2011, , .	0.8	3
49	Error budget for a calibration demonstration system for the reflected solar instrument for the climate absolute radiance and refractivity observatory. , 2013, , .		3
50	Data products of NASA Goddardâ€™s LiDAR, hyperspectral, and thermal airborne imager (G-LiHT). Proceedings of SPIE, 2015, , .	0.8	3
51	Intercomparison of Imaging Sensors using Automated Ground Measurements. , 2008, , .		2
52	Radiometric characterization of hyperspectral imagers using multispectral sensors. Proceedings of SPIE, 2009, , .	0.8	2
53	Cross-calibration of Earth Observing System Terra satellite sensors MODIS and ASTER. Proceedings of SPIE, 2014, , .	0.8	2
54	The characterization of a DIRSIG simulation environment to support the inter-calibration of spaceborne sensors. Proceedings of SPIE, 2016, , .	0.8	2

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55	Monitoring Orbital Precession of EO-1 Hyperion With Three Atmospheric Correction Models in the Libya-4 PICS. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1797-1801.	3.1	2
56	Evaluation of GLAMR-based calibration for SI-traceable field reflectance retrievals. , 2016, , .		2
57	Landsat 9 Thermal Infrared Sensor 2 Spectral Response Test: Updates And Perspective. , 2019, , .		2
58	First Results from Laser-Based Spectral Characterization of Landsat 9 Operational Land Imager-2. , 2019, , .		2
59	Reflective solar band striping mitigation method for the GOES-R series advanced baseline imager using special scans. Journal of Applied Remote Sensing, 2020, 14, 1.	1.3	2
60	Retrieval of surface BRDF for reflectance-based calibration. Proceedings of SPIE, 2007, , .	0.8	1
61	Transmittance measurement of a heliostat facility used in the preflight radiometric calibration of Earth-observing sensors. Proceedings of SPIE, 2009, , .	0.8	1
62	Radiometric calibration of G-LiHT's imaging spectrometer using GLAMR for satellite sensor intercalibration. Proceedings of SPIE, 2015, , .	0.8	1
63	Results from source-based and detector-based calibrations of a CLARREO calibration demonstration system. , 2016, , .		1
64	Spectral testing of the Landsat-9 OLI-2 instrument using the Goddard Laser Absolute Measurement of Radiance (GLAMR). , 2018, , .		1
65	Time resolved irradiance of an integrating sphere illuminated by a mode-locked optical parametric oscillator. , 2019, , .		1
66	Mitigating the GOES-17 ABI thermal anomaly using predictive calibration. , 2020, , .		1
67	Validation of GOES-17 ABI reflective channels performance: Salar de Uyuni 2018 field campaign results. , 2020, , .		1
68	The First Atmospheric Radio Occultation Profiles From a GPS Receiver in Geostationary Orbit. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	1
69	A Prototype Airborne Visible Imaging Spectrometer (PAVIS). , 2007, , .		0
70	Calibration system stability plans for a long-term Ecological Airborne remote sensing project. , 2010, , .		0
71	Cross-calibration of imaging sensors using model-based, SI-traceable predictions of AT-sensor radiance. Proceedings of SPIE, 2012, , .	0.8	0
72	Laser-based spectral and radiometric calibration of the clarreo imaging spectrometer. , 2013, , .		0

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73	Radiometric cross-calibration of Terra ASTER and MODIS. Proceedings of SPIE, 2015, , .	0.8	0
74	Online resource for Earth-observing satellite sensor calibration. , 2015, , .		0
75	Characterization of Firefly, an Imaging Spectrometer Designed for Airborne Measurements of Solar-Induced Fluorescence. , 2018, , .		0
76	Landsat 9 Thermal Infrared Sensor 2 pre-launch characterization: initial imaging and spectral performance results. , 2018, , .		0