

Raymond F Kokaly

List of Publications by Year in descending order

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43
papers

4,532
citations

270111

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34
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127
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docs citations

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times ranked

5334
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperspectral remote sensing of white mica: A review of imaging and point-based spectrometer studies for mineral resources, with spectrometer design considerations. <i>Remote Sensing of Environment</i> , 2022, 275, 113000.	4.6	14
2	NASA's surface biology and geology designated observable: A perspective on surface imaging algorithms. <i>Remote Sensing of Environment</i> , 2021, 257, 112349.	4.6	148
3	Evaluation of SWIR Crop Residue Bands for the Landsat Next Mission. <i>Remote Sensing</i> , 2021, 13, 3718.	1.8	15
4	Multiscale Hyperspectral Imaging of Hydrothermal Alteration in Yellowstone National Park, USA. , 2021, , .		0
5	Imaging Spectroscopy Applied to Mineral Mapping Over Large Areas: Impact of Residual Atmospheric Artefacts in Reflectance Spectra on Mineral Identification and Mapping. , 2021, , .		0
6	Quantifying uncertainty for remote spectroscopy of surface composition. <i>Remote Sensing of Environment</i> , 2020, 247, 111898.	4.6	31
7	Dust Deposited on Snow Cover in the San Juan Mountains, Colorado, 2011â€“2016: Compositional Variability Bearing on Snowâ€™Melt Effects. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032210.	1.2	17
8	Comparison of Methods for Modeling Fractional Cover Using Simulated Satellite Hyperspectral Imager Spectra. <i>Remote Sensing</i> , 2019, 11, 2072.	1.8	36
9	Application of Imaging Spectroscopy for Mineral Exploration in Alaska: A Study over Porphyry Cu Deposits in the Eastern Alaska Range. <i>Economic Geology</i> , 2018, 113, 489-510.	1.8	45
10	Oiling accelerates loss of salt marshes, southeastern Louisiana. <i>PLoS ONE</i> , 2017, 12, e0181197.	1.1	24
11	Iron oxide minerals in dust-source sediments from the BodÃ© Depression, Chad: Implications for radiative properties and Fe bioavailability of dust plumes from the Sahara. <i>Aeolian Research</i> , 2016, 22, 93-106.	1.1	26
12	Mapping changing distributions of dominant species in oil-contaminated salt marshes of Louisiana using imaging spectroscopy. <i>Remote Sensing of Environment</i> , 2016, 182, 192-207.	4.6	19
13	Plant phenolics and absorption features in vegetation reflectance spectra near 1.66 μ m. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015, 43, 55-83.	1.4	109
14	Oil detection in the coastal marshes of Louisiana using MESMA applied to band subsets of AVIRIS data. <i>Remote Sensing of Environment</i> , 2015, 159, 222-231.	4.6	36
15	Asphaltene content and composition as a measure of Deepwater Horizon oil spill losses within the first 80days. <i>Organic Geochemistry</i> , 2014, 75, 54-60.	0.9	32
16	Spectroscopic remote sensing of plant stress at leaf and canopy levels using the chlorophyll 680nm absorption feature with continuum removal. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 97, 111-122.	4.9	79
17	Iron oxide minerals in dust of the Red Dawn event in eastern Australia, September 2009. <i>Aeolian Research</i> , 2014, 15, 1-13.	1.1	27
18	Composition of dust deposited to snow cover in the Wasatch Range (Utah, USA): Controls on radiative properties of snow cover and comparison to some dust-source sediments. <i>Aeolian Research</i> , 2014, 15, 73-90.	1.1	54

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19	The USGS PRISM system for spectral analysis – An ENVI/IDL-based software. , 2014, , .		1
20	Characterizing regional soil mineral composition using spectroscopy and geostatistics. Remote Sensing of Environment, 2013, 139, 415-429.	4.6	87
21	EO-1 Hyperion Reflectance Time Series at Calibration and Validation Sites: Stability and Sensitivity to Seasonal Dynamics. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 276-290.	2.3	37
22	Quantifying mineral abundances of complex mixtures by coupling spectral deconvolution of SWIR spectra (2.1–2.4 μ m) and regression tree analysis. Geoderma, 2013, 207-208, 279-290.	2.3	32
23	Spectroscopic remote sensing of the distribution and persistence of oil from the Deepwater Horizon spill in Barataria Bay marshes. Remote Sensing of Environment, 2013, 129, 210-230.	4.6	115
24	Detection of Salt Marsh Vegetation Stress and Recovery after the Deepwater Horizon Oil Spill in Barataria Bay, Gulf of Mexico Using AVIRIS Data. PLoS ONE, 2013, 8, e78989.	1.1	59
25	Hyperspectral remote sensing data maps minerals in Afghanistan. Eos, 2012, 93, 325-326.	0.1	3
26	Spectroscopic remote sensing for material identification, vegetation characterization, and mapping. , 2012, , .		9
27	Mapping the distribution of materials in hyperspectral data using the USGS Material Identification and Characterization Algorithm (MICA). , 2011, , .		3
28	Mapping potentially asbestos-bearing rocks using imaging spectroscopy. Geology, 2009, 37, 763-766.	2.0	34
29	Characterizing canopy biochemistry from imaging spectroscopy and its application to ecosystem studies. Remote Sensing of Environment, 2009, 113, S78-S91.	4.6	478
30	Characterization of post-fire surface cover, soils, and burn severity at the Cerro Grande Fire, New Mexico, using hyperspectral and multispectral remote sensing. Remote Sensing of Environment, 2007, 106, 305-325.	4.6	178
31	Postfire soil burn severity mapping with hyperspectral image unmixing. Remote Sensing of Environment, 2007, 108, 467-480.	4.6	134
32	Classification of Leafy Spurge With Earth Observing-1 Advanced Land Imager. Rangeland Ecology and Management, 2006, 59, 507-511.	1.1	7
33	Evaluating Minerals of Environmental Concern Using Spectroscopy. , 2006, , .		4
34	The Future of Imaging Spectroscopy Prospective Technologies and Applications. , 2006, , .		13
35	Mapping vegetation in Yellowstone National Park using spectral feature analysis of AVIRIS data. Remote Sensing of Environment, 2003, 84, 437-456.	4.6	230
36	Imaging spectroscopy: Earth and planetary remote sensing with the USGS Tetracorder and expert systems. Journal of Geophysical Research, 2003, 108, .	3.3	561

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37	Investigating a Physical Basis for Spectroscopic Estimates of Leaf Nitrogen Concentration. Remote Sensing of Environment, 2001, 75, 153-161.	4.6	301
38	Remote Sensing of Biological Soil Crusts. Ecological Studies, 2001, , 431-455.	0.4	23
39	Spectroscopic Determination of Leaf Biochemistry Using Band-Depth Analysis of Absorption Features and Stepwise Multiple Linear Regression. Remote Sensing of Environment, 1999, 67, 267-287.	4.6	700
40	Diagnosis of the record minimum in Arctic sea ice area during 1990 and associated snow cover extremes. Geophysical Research Letters, 1995, 22, 2183-2186.	1.5	79
41	Modeling the bidirectional reflectance distribution function of mixed finite plant canopies and soil. Journal of Geophysical Research, 1994, 99, 10577.	3.3	10
42	Spectroscopic detection of microbial colonization in Antarctic sandstone. Antarctic Science, 0, , 1-8.	0.5	0
43	DRILL CORE MINERAL ANALYSIS BY MEANS OF THE HYPERSPECTRAL IMAGING SPECTROMETER HySpex, XRD AND ASD IN PROXIMITY OF THE MĀTINA MAAR, CZECH REPUBLIC. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W5, 417-424.	0.2	6