Raymond F Kokaly

List of Publications by Year
in descending order

43	4,532	236925 25	377865 34
papers	citations	h-index	g-index

127	127	127	4794
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	11.0	700
2	Imaging spectroscopy: Earth and planetary remote sensing with the USGS Tetracorder and expert systems. Journal of Geophysical Research, 2003, 108, .	3.3	561
3	Characterizing canopy biochemistry from imaging spectroscopy and its application to ecosystem studies. Remote Sensing of Environment, 2009, 113, S78-S91.	11.0	478
4	Investigating a Physical Basis for Spectroscopic Estimates of Leaf Nitrogen Concentration. Remote Sensing of Environment, 2001, 75, 153-161.	11.0	301
5	Mapping vegetation in Yellowstone National Park using spectral feature analysis of AVIRIS data. Remote Sensing of Environment, 2003, 84, 437-456.	11.0	230
6	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.	11.0	178
7	NASA's surface biology and geology designated observable: A perspective on surface imaging algorithms. Remote Sensing of Environment, 2021, 257, 112349.	11.0	148
8	Postfire soil burn severity mapping with hyperspectral image unmixing. Remote Sensing of Environment, 2007, 108, 467-480.	11.0	134
9	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.	11.0	115
10	Plant phenolics and absorption features in vegetation reflectance spectra near 1.66 Î¼m. International Journal of Applied Earth Observation and Geoinformation, 2015, 43, 55-83.	2.8	109
11	Characterizing regional soil mineral composition using spectroscopy and geostatistics. Remote Sensing of Environment, 2013, 139, 415-429.	11.0	87
12	Diagnosis of the record minimum in Arctic sea ice area during 1990 and associated snow cover extremes. Geophysical Research Letters, 1995, 22, 2183-2186.	4.0	79
13	Spectroscopic remote sensing of plant stress at leaf and canopy levels using the chlorophyll 680nm absorption feature with continuum removal. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 97, 111-122.	11.1	79
14	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.	2.5	59
15	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. Aeolian Research, 2014, 15, 73-90.	2.7	54
16	Application of Imaging Spectroscopy for Mineral Exploration in Alaska: A Study over Porphyry Cu Deposits in the Eastern Alaska Range. Economic Geology, 2018, 113, 489-510.	3.8	45
17	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.	4.9	37
18	Oil detection in the coastal marshes of Louisiana using MESMA applied to band subsets of AVIRIS data. Remote Sensing of Environment, 2015, 159, 222-231.	11.0	36

#	Article	IF	Citations
19	Comparison of Methods for Modeling Fractional Cover Using Simulated Satellite Hyperspectral Imager Spectra. Remote Sensing, 2019, 11, 2072.	4.0	36
20	Mapping potentially asbestos-bearing rocks using imaging spectroscopy. Geology, 2009, 37, 763-766.	4.4	34
21	Quantifying mineral abundances of complex mixtures by coupling spectral deconvolution of SWIR spectra (2.1â€“2.4 Î¼m) and regression tree analysis. Geoderma, 2013, 207-208, 279-290.	5.1	32
22	Asphaltene content and composition as a measure of Deepwater Horizon oil spill losses within the first 80days. Organic Geochemistry, 2014, 75, 54-60.	1.8	32
23	Quantifying uncertainty for remote spectroscopy of surface composition. Remote Sensing of Environment, 2020, 247, 111898.	11.0	31
24	Iron oxide minerals in dust of the Red Dawn event in eastern Australia, September 2009. Aeolian Research, 2014, 15, 1-13.	2.7	27
25	Iron oxide minerals in dust-source sediments from the BodÃ©lÃ© Depression, Chad: Implications for radiative properties and Fe bioavailability of dust plumes from the Sahara. Aeolian Research, 2016, 22, 93-106.	2.7	26
26	Oiling accelerates loss of salt marshes, southeastern Louisiana. PLoS ONE, 2017, 12, e0181197.	2.5	24
27	Remote Sensing of Biological Soil Crusts. Ecological Studies, 2001, , 431-455.	1.2	23
28	Mapping changing distributions of dominant species in oil-contaminated salt marshes of Louisiana using imaging spectroscopy. Remote Sensing of Environment, 2016, 182, 192-207.	11.0	19
29	Dust Deposited on Snow Cover in the San Juan Mountains, Colorado, 2011â€“2016: Compositional Variability Bearing on Snowâ€Melt Effects. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032210.	3.3	17
30	Evaluation of SWIR Crop Residue Bands for the Landsat Next Mission. Remote Sensing, 2021, 13, 3718.	4.0	15
31	Hyperspectral remote sensing of white mica: A review of imaging and point-based spectrometer studies for mineral resources, with spectrometer design considerations. Remote Sensing of Environment, 2022, 275, 113000.	11.0	14
32	The Future of Imaging Spectroscopy Prospective Technologies and Applications. , 2006, , .		13
33	Modeling the bidirectional reflectance distribution function of mixed finite plant canopies and soil. Journal of Geophysical Research, 1994, 99, 10577.	3.3	10
34	Spectroscopic remote sensing for material identification, vegetation characterization, and mapping. , 2012, , .		9
35	Classification of Leafy Spurge With Earth Observing-1 Advanced Land Imager. Rangeland Ecology and Management, 2006, 59, 507-511.	2.3	7
36	DRILL CORE MINERAL ANALYSIS BY MEANS OF THE HYPERSPECTRAL IMAGING SPECTROMETER HySpex, XRD AND ASD IN PROXIMITY OF THE MÃŤINA 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

#	Article	IF	Citations
37	Evaluating Minerals of Environmental Concern Using Spectroscopy. , 2006, , .		4
38	Mapping the distribution of materials in hyperspectral data using the USGS Material Identification and Characterization Algorithm (MICA). , 2011, , .		3
39	Hyperspectral remote sensing data maps minerals in Afghanistan. Eos, 2012, 93, 325-326.	0.1	3
40	The USGS PRISM system for spectral analysis â€" An ENVI/IDL-based software. , 2014, , .		1
41	Spectroscopic detection of microbial colonization in Antarctic sandstone. Antarctic Science, 0, , 1-8.	0.9	0
42	Multiscale Hyperspectral Imaging of Hydrothermal Alteration in Yellowstone National Park, USA. , 2021, , .		0
43	Imaging Spectroscopy Applied to Mineral Mapping Over Large Areas: Impact of Residual Atmospheric Artefacts in Reflectance Spectra on Mineral Identification and Mapping. , 2021, , .		0