Mario Parente

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4096496/publications.pdf

Version: 2024-02-01

41 papers	3,793 citations	430874 18 h-index	526287 27 g-index
42 all docs	42 docs citations	42 times ranked	3037 citing authors

#	Article	IF	Citations
1	Hyperspectral Unmixing Overview: Geometrical, Statistical, and Sparse Regression-Based Approaches. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 354-379.	4.9	2,181
2	A Review of Nonlinear Hyperspectral Unmixing Methods. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1844-1868.	4.9	401
3	Phyllosilicate Diversity and Past Aqueous Activity Revealed at Mawrth Vallis, Mars. Science, 2008, 321, 830-833.	12.6	328
4	An improvement to the volcano-scan algorithm for atmospheric correction of CRISM and OMEGA spectral data. Planetary and Space Science, 2009, 57, 809-815.	1.7	166
5	What the ancient phyllosilicates at Mawrth Vallis can tell us about possible habitability on early Mars. Planetary and Space Science, 2013, 86, 130-149.	1.7	99
6	Mineralogy of the Paso Robles soils on Mars. American Mineralogist, 2008, 93, 728-739.	1.9	80
7	Mineralogy and morphology of geologic units at Libya Montes, Mars: Ancient aqueously derived outcrops, mafic flows, fluvial features, and impacts. Journal of Geophysical Research E: Planets, 2013, 118, 487-513.	3.6	56
8	Orbital Identification of Hydrated Silica in Jezero Crater, Mars. Geophysical Research Letters, 2019, 46, 12771-12782.	4.0	53
9	The Mawrth Vallis Region of Mars: A Potential Landing Site for the Mars Science Laboratory (MSL) Mission. Astrobiology, 2010, 10, 687-703.	3.0	48
10	Interpretation of reflectance spectra of clay mineral-silica mixtures: implications for Martian clay mineralogy at Mawrth Vallis. Clays and Clay Minerals, 2011, 59, 400-415.	1.3	46
11	Hyperspectral Band Selection From Statistical Wavelet Models. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2111-2123.	6.3	46
12	Decomposition of mineral absorption bands using nonlinear least squares curve fitting: Application to Martian meteorites and CRISM data. Planetary and Space Science, 2011, 59, 423-442.	1.7	35
13	Spectral unmixing for mineral identification in pancam images of soils in Gusev crater, Mars. Icarus, 2009, 203, 421-436.	2.5	26
14	Predicting olivine composition using Raman spectroscopy through band shift and multivariate analyses. American Mineralogist, 2018, 103, 1827-1836.	1.9	25
15	Multiple mineral horizons in layered outcrops at Mawrth Vallis, Mars, signify changing geochemical environments on early Mars. Icarus, 2020, 341, 113634.	2.5	24
16	Nonlinear Hyperspectral Unmixing With Graphical Models. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4844-4856.	6.3	23
17	Neural network radiative transfer for imaging spectroscopy. Atmospheric Measurement Techniques, 2019, 12, 2567-2578.	3.1	21
18	Updated Perspectives and Hypotheses on the Mineralogy of Lower Mt. Sharp, Mars, as Seen From Orbit. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006372.	3.6	21

#	Article	IF	Citations
19	Characteristics, Origins, and Biosignature Preservation Potential of Carbonateâ€Bearing Rocks Within and Outside of Jezero Crater. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006898.	3.6	16
20	A new method for atmospheric correction and de-noising of CRISM hyperspectral data. Icarus, 2021, 354, 114024.	2.5	12
21	Estimation of the Number of Endmembers in a Hyperspectral Image via the Hubness Phenomenon. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2191-2200.	6.3	11
22	Perfect Recovery Conditions for Non-negative Sparse Modeling. IEEE Transactions on Signal Processing, 2017, 65, 69-80.	5.3	11
23	Adversarial feature learning for improved mineral mapping of CRISM data. Icarus, 2021, 355, 114107.	2.5	11
24	Successes and challenges of factor analysis/target transformation application to visible-to-near-infrared hyperspectral data. Icarus, 2021, 365, 114402.	2.5	8
25	Non-homogeneous hidden Markov chain models for wavelet-based hyperspectral image processing. , 2013, , .		6
26	A new semantic wavelet-based spectral representation. , 2013, , .		4
27	Tailoring non-homogeneous Markov chain wavelet models for hyperspectral signature classification. , 2014, , .		4
28	Semisupervised Endmember Identification in Nonlinear Spectral Mixtures via Semantic Representation. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3272-3286.	6.3	4
29	On Clustering and Embedding Mixture Manifolds Using a Low Rank Neighborhood Approach. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3890-3903.	6.3	4
30	Clay sediments derived from fluvial activity in and around Ladon basin, Mars. Icarus, 2022, 384, 115090.	2.5	4
31	Graph-based identification of boundary points for unmixing and anomaly detection. , 2013, , .		3
32	Hyperspectral unmixing via semantic spectral representations. , 2014, , .		3
33	Estimation of the number of endmembers via the hubness phenomenon. , 2016, , .		3
34	Simultaneous clustering and embedding for multiple intimate mixtures. , 2015, , .		2
35	New CRISM Data Products for Improved Characterization and Analysis of the Mars2020 Landing Site. , 2019, , .		2
36	Unmixing multiple intimate mixtures using manifold clustering. , 2014, , .		1

#	Article	IF	Citations
37	On the performance of sparse unmixing on non-linear mixtures. , 2016, , .		1
38	Unmixing multiple intimate mixtures via a locally low-rank representation. , 2016, , .		1
39	Sparse unmixing with adaptive background. , 2017, , .		1
40	Pixel purity vertex component analysis. , 2017, , .		1
41	Unmixing in the presence of nuisances with deep generative models. , 2017, , .		1