

Giuseppe Capobianco

List of Publications by Year in descending order

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papers

513
citations

623188

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docs citations

42
times ranked

488
citing authors

#	ARTICLE	IF	CITATIONS
1	A hierarchical classification approach for recognition of low-density (LDPE) and high-density polyethylene (HDPE) in mixed plastic waste based on short-wave infrared (SWIR) hyperspectral imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 198, 115-122.	2.0	67
2	Surface Investigation of Photo-Degraded Wood by Colour Monitoring, Infrared Spectroscopy, and Hyperspectral Imaging. <i>Journal of Spectroscopy</i> , 2013, 2013, 1-13.	0.6	56
3	Asbestos containing materials detection and classification by the use of hyperspectral imaging. <i>Journal of Hazardous Materials</i> , 2018, 344, 981-993.	6.5	38
4	Chemometrics approach to FT-IR hyperspectral imaging analysis of degradation products in artwork cross-section. <i>Microchemical Journal</i> , 2017, 132, 69-76.	2.3	35
5	Modeling color and chemical changes on normal and red heart beech wood by reflectance spectrophotometry, Fourier Transform Infrared spectroscopy and hyperspectral imaging. <i>Polymer Degradation and Stability</i> , 2015, 113, 10-21.	2.7	30
6	Protective behaviour monitoring on wood photo-degradation by spectroscopic techniques coupled with chemometrics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 172, 34-42.	2.0	27
7	A methodological approach to study the stability of selected watercolours for painting reintegration, through reflectance spectrophotometry, Fourier transform infrared spectroscopy and hyperspectral imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 198, 92-106.	2.0	20
8	Hyperspectral Imaging and Hierarchical PLS-DA Applied to Asbestos Recognition in Construction and Demolition Waste. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4587.	1.3	20
9	Phytoextraction efficiency of <i>Pteris vittata</i> grown on a naturally As-rich soil and characterization of As-resistant rhizosphere bacteria. <i>Scientific Reports</i> , 2021, 11, 6794.	1.6	20
10	Contaminant detection in pistachio nuts by different classification methods applied to short-wave infrared hyperspectral images. <i>Food Control</i> , 2021, 130, 108202.	2.8	20
11	Analytical chemistry approach in cultural heritage: the case of Vincenzo Pasqualoni's wall paintings in S. Nicola in Carcere (Rome). <i>Microchemical Journal</i> , 2020, 156, 104920.	2.3	19
12	A new approach for the modelling of chestnut wood photo-degradation monitored by different spectroscopic techniques. <i>Environmental Science and Pollution Research</i> , 2017, 24, 13874-13884.	2.7	18
13	Hyperspectral Imaging as Powerful Technique for Investigating the Stability of Painting Samples. <i>Journal of Imaging</i> , 2019, 5, 8.	1.7	18
14	X-ray fluorescence investigation on yellow pigments based on lead, tin and antimony through the comparison between laboratory and portable instruments. <i>Journal of Cultural Heritage</i> , 2018, 29, 19-29.	1.5	17
15	The use of micro-energy dispersive X-ray fluorescence spectrometry combined with a multivariate approach to determine element variation and distribution in tobacco seedlings exposed to arsenate. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 147, 132-140.	1.5	12
16	Hyperspectral imaging as a technique for investigating the effect of consolidating materials on wood. <i>Journal of Electronic Imaging</i> , 2016, 26, 011003.	0.5	11
17	Recycling-Oriented Characterization of Post-Earthquake Building Waste by Different Sensing Techniques. <i>Journal of Imaging</i> , 2021, 7, 182.	1.7	9
18	Hyperspectral imaging as powerful technique for evaluating the stability of Tattoo WallÂ®. <i>Microchemical Journal</i> , 2020, 157, 104866.	2.3	7

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19	^{254}Cf XRF Mapping as a Powerful Technique for Investigating Metal Objects from the Archaeological Site of Ferento (Central Italy). <i>Journal of Imaging</i> , 2020, 6, 59.	1.7	6
20	Effective Recycling Solutions for the Production of High-Quality PET Flakes Based on Hyperspectral Imaging and Variable Selection. <i>Journal of Imaging</i> , 2021, 7, 181.	1.7	6
21	Hyperspectral imaging applied to the identification and classification of asbestos fibers. , 2015, , .		5
22	A Multi-Technique Approach to Evaluate the Surface Properties of Heat-Treated Chestnut Wood Finished with a Water-Based Coating. <i>Coatings</i> , 2021, 11, 706.	1.2	5
23	Recycling-oriented characterization of PET waste stream by SWIR hyperspectral imaging and variable selection methods. <i>Detritus</i> , 2022, , 42-49.	0.4	5
24	Arsenic accumulation in <i>Pteris vittata</i> : Time course, distribution, and arsenic-related gene expression in fronds and whole plantlets. <i>Environmental Pollution</i> , 2022, 309, 119773.	3.7	5
25	Performance Evaluation of Classical Classifiers and Deep Learning Approaches for Polymers Classification Based on Hyperspectral Images. <i>Lecture Notes in Computer Science</i> , 2021, , 281-292.	1.0	4
26	Yellow Pigment Powders Based on Lead and Antimony: Particle Size and Colour Hue. <i>Journal of Imaging</i> , 2021, 7, 127.	1.7	4
27	Optimized Method for Mapping Inorganic Pigments by Means of Multispectral Imaging Combined with Hyperspectral Spectroscopy for the Study of Vincenzo Pasqualoni's Wall Painting at the Basilica of S. Nicola in Carcere in Rome. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 839.	0.8	4
28	Hyperspectral imaging applied to asbestos containing materials detection: specimen preparation and handling. , 2019, , .		4
29	A Scientific Approach in the Recovery of the Historic Center of Rome: Limits and Potentials of the "Color Plan". <i>Procedia Chemistry</i> , 2013, 8, 212-220.	0.7	3
30	MICRO X-RAY FLUORESCENCE IMAGING COUPLED WITH CHEMOMETRICS TO DETECT AND CLASSIFY ASBESTOS FIBERS IN DEMOLITION WASTE. <i>Detritus</i> , 2020, , 150-159.	0.4	3
31	Colour modifications and hyperspectral imaging: non-invasive analysis of photo-degraded wood surfaces. <i>Journal of Agricultural Engineering</i> , 2013, 44, .	0.7	2
32	An innovative approach based on hyperspectral imaging (HSI) combined with chemometrics for soil phytoremediation monitoring. , 2020, , .		2
33	Image data fusion applied to pictorial layers recognition. , 2020, , .		2
34	Pigment identification in pictorial layers by Hyperspectral Imaging. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
35	Study of consolidating materials applied on wood by hyperspectral imaging. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
36	EVALUATION OF ELEMENTS DISTRIBUTION IN PRINTED CIRCUIT BOARDS FROM MOBILE PHONES BY MICRO X-RAY FLUORESCENCE. <i>Detritus</i> , 2021, , 78-85.	0.4	1

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37	A dataset of visible & Short wave InfraRed reflectance spectra collected on pre-cooked pasta products. <i>Data in Brief</i> , 2021, 36, 106989.	0.5	1
38	Tattoo Wall: study of the stability of an innovative decorative technique through hyperspectral imaging and possible application in the mural painting's restoration. , 2019, , .		1
39	Data Fusion of PRISMA Satellite Imagery for Asbestos-containing Materials: An Application on Balangero's Mine Site (Italy). , 2022, , .		1
40	A Green Approach Based on Micro-X-ray Fluorescence for Arsenic, Micro- and Macronutrients Detection in <i>Pteris vittata</i> . <i>Water (Switzerland)</i> , 2022, 14, 2202.	1.2	1
41	Experimental tests for evaluating the stability of a new nano-silica based protective for Sperone stone in comparison to traditional products. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0