

Wendy Meulebroeck

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

505
citations

759233

12
h-index

677142

22
g-index

46
all docs

46
docs citations

46
times ranked

483
citing authors

#	ARTICLE	IF	CITATIONS
1	Late antique glass distribution and consumption in Cyprus: a chemical study. <i>Journal of Archaeological Science</i> , 2015, 61, 213-222.	2.4	55
2	Optical detection of aflatoxins in maize using one- and two-photon induced fluorescence spectroscopy. <i>Food Control</i> , 2015, 51, 408-416.	5.5	45
3	Iron speciation in soda-lime-silica glass: a comparison of XANES and UV-vis-NIR spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1552-1561.	3.0	42
4	Using Raman spectroscopy as a tool for the detection of iron in glass. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1789-1795.	2.5	38
5	Cobalt absorption bands for the differentiation of historical Na and Ca/K rich glass. <i>Surface and Interface Analysis</i> , 2012, 44, 219-226.	1.8	33
6	A XANES study of chromophores: the case of black glass. <i>Analytical Methods</i> , 2014, 6, 2662-2671.	2.7	29
7	Optical spectroscopy as a rapid and low-cost tool for the first-line analysis of glass artefacts: a step-by-step plan for Roman green glass. <i>Journal of Archaeological Science</i> , 2011, 38, 2387-2398.	2.4	26
8	Unravelling provenance and recycling of late antique glass from Cyprus with trace elements. <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 279-291.	1.8	26
9	Performance of a lime-based insulating render for heritage buildings. <i>Construction and Building Materials</i> , 2018, 159, 376-389.	7.2	25
10	Authenticity screening of stained glass windows using optical spectroscopy. <i>Scientific Reports</i> , 2016, 6, 37726.	3.3	22
11	Raman spectroscopy as a rapid screening method for ancient plain window glass. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1055-1061.	2.5	18
12	Non-destructive detection of mycotoxins in maize kernels using diffuse reflectance spectroscopy. <i>Food Control</i> , 2016, 70, 48-57.	5.5	13
13	50 shades of colour: how thickness, iron redox and manganese/antimony contents influence perceived and intrinsic colour in Roman glass. <i>Archaeological and Anthropological Sciences</i> , 2020, 12, 1.	1.8	12
14	Photonics enhanced sensors for food monitoring: part 1. <i>IEEE Instrumentation and Measurement Magazine</i> , 2016, 19, 35-45.	1.6	11
15	Light through glass: The spectrum of Late Antique glass from Cyprus. <i>Journal of Archaeological Science: Reports</i> , 2016, 7, 614-624.	0.5	11
16	Semianalytical Model for Design and Analysis of Grating-Assisted Radiation Emission of Quantum Emitters in Hyperbolic Metamaterials. <i>ACS Photonics</i> , 2018, 5, 1951-1959.	6.6	11
17	Comparison of four mobile, non-invasive diagnostic techniques for differentiating glass types in historical leaded windows: μ XRF, UV-Vis-NIR, Raman spectroscopy and IRT. <i>X-Ray Spectrometry</i> , 2021, 50, 293-309.	1.4	11
18	The identification of chromophores in ancient glass by the use of UV-VIS-NIR spectroscopy. , 2010, , .		10

#	ARTICLE	IF	CITATIONS
19	Colour and Chemistry of the Glass Finds in the Roman Villa of Treignes, Belgium. <i>Procedia Chemistry</i> , 2013, 8, 55-64.	0.7	10
20	Optical spectroscopy applied to the analysis of medieval and post-medieval plain flat glass fragments excavated in Belgium. , 2010, , .		9
21	The potential of UV-VIS-NIR absorption spectroscopy in glass studies. <i>Proceedings of SPIE</i> , 2012, , .	0.8	8
22	Using optical spectroscopy to characterize the material of a 16thc. stained glass window. , 2012, , .		6
23	Photonics enhanced sensors for food monitoring: part 2. <i>IEEE Instrumentation and Measurement Magazine</i> , 2017, 20, 31-37.	1.6	6
24	Photonics enhanced sensors for food monitoring: Part 3. <i>IEEE Instrumentation and Measurement Magazine</i> , 2017, 20, 46-55.	1.6	5
25	The potential of Raman spectroscopy in glass studies. , 2012, , .		3
26	Potential prospects in archaeological research by using optical spectroscopy through a black glass ocular. <i>Proceedings of SPIE</i> , 2012, , .	0.8	3
27	The interaction between daylight and fifteenth and sixteenth century glass windows from the Low Countries. <i>Scientific Reports</i> , 2021, 11, 21338.	3.3	3
28	Optical detection techniques for laser sorting machines. , 2006, , .		2
29	The use of one- and two- photon induced fluorescence spectroscopy for the optical characterization of carcinogenic aflatoxins. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
30	Semianalytical modeling of arbitrarily distributed quantum emitters embedded in nanopatterned hyperbolic metamaterials. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1273.	2.1	2
31	Prestige markers in art: subtle stratagems in material selection for fifteenth-century stained-glass windows. <i>Heritage Science</i> , 2022, 10, .	2.3	2
32	The study of vegetation indices for the monitoring of differences in chlorophyll and carotenoid composition in green vegetables. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
33	The experimental characterization of the absorption and scatter properties of photopolymers. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
34	Lost transparency! Weathering phenomena on the archaeological window glass collection of the Cistercian Abbey of the Dunes - Koksijde (Belgium). , 2012, , .		1
35	One- and two-photon induced fluorescence spectroscopy enabling the detection of localized aflatoxin contamination in individual maize kernels. , 2016, , .		1
36	Internal scattering as an optical screening method to identify peeled potatoes giving rise to an excess of acrylamide. <i>Journal of Food Engineering</i> , 2017, 195, 255-261.	5.2	1

#	ARTICLE	IF	CITATIONS
37	Using UV-Vis-NIR absorption spectroscopy as a tool for the detection of iron and cobalt in glass: A case-study on HLLA material from the Low Countries. Journal of Archaeological Science: Reports, 2022, 44, 103517.	0.5	1
38	A novel optical detection system for chromatography applications. , 2006, , .		0
39	Design of a light-guide used for the real-time monitoring of LCD-displays. , 2006, , .		0
40	Improved design of a laser scanning system for food analysis applications. , 2008, , .		0
41	A novel optical technique for the detection of stone fragments in fruits. , 2008, , .		0
42	An iterative approach for modeling the interaction of a partial coherent light distribution with an absorbing photosensitive polymer. , 2012, , .		0
43	Measuring the colour of rendering mortars. Proceedings of SPIE, 2014, , .	0.8	0
44	Improving Food Safety by Using One- and Two-Photon- Induced Fluorescence Spectroscopy for the Detection of Mycotoxins. , 0, , .		0
45	Design of an optical refocusing illumination system for use in laser-scanning devices. , 2018, , .		0
46	Terranova, a Popular Stone Imitation Cladding: Strategies and Techniques for Restoration. , 2019, , 91-107.		0