

The identification of synthetic organic pigments in modern art using pyrolysis-gas chromatography–mass spectrometry

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Investigation of the materials found in the studio of Francis Bacon (1909â€“1992). <i>Studies in Conservation</i> , 2012, 57, 195-206.	0.6	9
2	The materials and techniques used in the paintings of Francis Bacon (1909â€“1992). <i>Studies in Conservation</i> , 2012, 57, 207-217.	0.6	7
3	Acrylic and Vinyl Resins Identification by Pyrolysis-Gas Chromatography/Mass Spectrometry: A Study of Cases in Modern Art Conservation. <i>Analytical Letters</i> , 2013, 46, 1869-1884.	1.0	12
4	Multivariate analysis studies of the ageing effect for artist's oil paints containing modern organic pigments. <i>Surface and Interface Analysis</i> , 2014, 46, 786-790.	0.8	1
5	The use of laser pyrolysisâ€“GCâ€“MS for the analysis of paint cross sections. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 105, 327-334.	2.6	12
6	The use of Raman microscopy and laser desorption ionization mass spectrometry in the examination of synthetic organic pigments in modern works of art. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 448-455.	1.2	17
7	Formation of highly toxic hydrogen cyanide upon ruby laser irradiation of the tattoo pigment phthalocyanine blue. <i>Scientific Reports</i> , 2015, 5, 12915.	1.6	47
8	Py-GC/MS applied to the analysis of synthetic organic pigments: characterization and identification in paint samples. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1415-1431.	1.9	51
9	Durable and flexible graphene composites based on artistsâ€™ paint for conductive paper applications. <i>Carbon</i> , 2015, 87, 163-174.	5.4	41
10	Pyrolysis gas chromatography mass spectrometry of two green phthalocyanine pigments and their identification in paint systems. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 115, 175-183.	2.6	16
11	A multi-analytical study on the photochemical degradation of synthetic organic pigments. <i>Dyes and Pigments</i> , 2015, 123, 396-403.	2.0	51
12	Trends in High Performance Liquid Chromatography for Cultural Heritage. <i>Topics in Current Chemistry</i> , 2016, 374, 20.	3.0	33
13	Multi-analytical investigation on felt-tip pen inks: Formulation and preliminary photo-degradation study. <i>Microchemical Journal</i> , 2016, 124, 919-928.	2.3	16
14	Identification and hazard prediction of tattoo pigments by means of pyrolysisâ€“gas chromatography/mass spectrometry. <i>Archives of Toxicology</i> , 2016, 90, 1639-1650.	1.9	36
15	Revealing the composition of organic materials in polychrome works of art: the role of mass spectrometry-based techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6957-6981.	1.9	30
16	Influence of phthalocyanine pigments on the photo-degradation of alkyd artists' paints under different conditions of artificial solar radiation. <i>Polymer Degradation and Stability</i> , 2016, 134, 157-168.	2.7	36
17	Analytical Approaches Based on Gas Chromatography Mass Spectrometry (GC/MS) to Study Organic Materials in Artworks and Archaeological Objects. <i>Topics in Current Chemistry</i> , 2016, 374, 6.	3.0	49
18	Chemical characterisation of spray paints by a multi-analytical (Py/GCâ€“MS, FTIR, $\hat{1}/4$ -Raman) approach. <i>Microchemical Journal</i> , 2016, 124, 929-939.	2.3	50

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19	A chemical study of organic materials in three murals by Keith Haring: A comparison of painting techniques. <i>Microchemical Journal</i> , 2016, 124, 940-948.	2.3	38
20	Identification and imaging of modern paints using Secondary Ion Mass Spectrometry with MeV ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 406, 296-301.	0.6	8
21	HPLC-DAD and HPLC-ESI-Q-ToF characterisation of early 20th century lake and organic pigments from Lefranc archives. <i>Heritage Science</i> , 2017, 5, .	1.0	37
22	Synthesis of Historical Azo Pigments: The Challenge and Opportunity of the Nearly Forgotten. <i>MRS Advances</i> , 2017, 2, 2007-2019.	0.5	3
23	Photostability and influence of phthalocyanine pigments on the photodegradation of acrylic paints under accelerated solar radiation. <i>Polymer Degradation and Stability</i> , 2017, 146, 13-23.	2.7	20
24	Pyrolysis gas chromatography-mass spectrometry of triarylmethane dyes. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 127, 229-239.	2.6	16
25	Forensic applications of direct analysis in real time (DART) coupled to Q-orbitrap tandem mass spectrometry for the in situ analysis of pigments from paint evidence. <i>Forensic Science International</i> , 2017, 277, 179-187.	1.3	15
26	A colourful bond between art and chemistry. <i>Foundations of Chemistry</i> , 2017, 19, 125-138.	0.4	1
27	Direct and indirect approaches based on paper analysis by Py-GC/MS for estimating the age of documents. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 131, 9-16.	2.6	20
28	Spectroscopic methods for the identification and photostability study of red synthetic organic pigments in alkyd and acrylic paints. <i>Microchemical Journal</i> , 2018, 139, 155-163.	2.3	19
29	Chemical composition of felt-tip pen inks. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1079-1094.	1.9	25
30	A preliminary study on the physicochemical properties of pigmented Sty/nBA/MMA emulsion films: The effect of thermal ageing. <i>Polymer Degradation and Stability</i> , 2018, 158, 157-167.	2.7	2
31	Mass Spectrometric Analysis of Synthetic Organic Pigments. <i>Journal of AOAC INTERNATIONAL</i> , 2018, 101, 1328-1340.	0.7	2
32	Analytical characterization of artist's paint systems based on emulsion polymers and synthetic organic pigments. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 135, 231-241.	2.6	21
33	A novel methodological approach for the assessment of surface cleaning of acrylic emulsion paints. <i>Microchemical Journal</i> , 2018, 141, 25-39.	2.3	13
34	Triarylmethine dyes: Characterization of isomers using integrated mass spectrometry. <i>Dyes and Pigments</i> , 2019, 160, 587-596.	2.0	29
35	OPLS multivariate regression of FTIR-ATR spectra of acrylic paints for age estimation in contemporary artworks. <i>Talanta</i> , 2019, 205, 120114.	2.9	20
36	Unmasking Art Forgery: Scientific Approaches. , 2019, , 381-406.		20

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37	Synthetic materials in art: a new comprehensive approach for the characterization of multi-material artworks by analytical pyrolysis. <i>Heritage Science</i> , 2019, 7, .	1.0	34
38	The deposition from the Cross in the church of Saint-Germain-en-Laye (France): A masterpiece of Romanesque sculpture? Materials characterization to solve a 20th c. mystery. <i>Journal of Cultural Heritage</i> , 2019, 40, 133-142.	1.5	2
39	Disclosing the composition of historical commercial felt-tip pens used in art by integrated vibrational spectroscopy and pyrolysis-gas chromatography/mass spectrometry. <i>Journal of Cultural Heritage</i> , 2019, 35, 242-253.	1.5	15
40	Non-invasive identification of synthetic organic pigments in contemporary art paints by visible-excited spectrofluorimetry and visible reflectance spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 229, 117907.	2.0	10
42	Identification of Synthetic Organic Pigments (SOPs) Used in Modern Artists' Paints with Secondary Ion Mass Spectrometry with MeV Ions. <i>Analytical Chemistry</i> , 2020, 92, 9287-9294.	3.2	10
43	Chemistry of modern paint media: The strained and collapsed painting by Alexis Harding. <i>Microchemical Journal</i> , 2020, 155, 104659.	2.3	11
44	Painting on polyurethane foam: "Composizione-Superficie Lunare" by Giulio Turcato. <i>Microchemical Journal</i> , 2020, 156, 104872.	2.3	7
45	Development of a method based on high-performance liquid chromatography coupled with diode array, fluorescence, and mass spectrometric detectors for the analysis of eosin at trace levels. <i>Separation Science Plus</i> , 2020, 3, 207-215.	0.3	9
46	Discoloration of Historical Plastic Objects: New Insight into the Degradation of 1 ² -Naphthol Pigment Lakes. <i>Polymers</i> , 2021, 13, 2278.	2.0	11
47	Analytical approaches for the characterization of early synthetic organic pigments for artists' paints. <i>Microchemical Journal</i> , 2021, 170, 106708.	2.3	11
48	PLS-DA and data fusion of visible Reflectance, XRF and FTIR spectroscopy in the classification of mixed historical pigments. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120384.	2.0	18
49	A Study on Conservation of Outdoor Painted Sculptures: Niki de Saint Phalle's 'Black Nana'. <i>Journal of Conservation Science</i> , 2016, 32, 333-343.	0.1	5
50	Comparison Study on the Material Characteristics of Oil Paints (I). <i>Journal of Conservation Science</i> , 2017, 33, 85-95.	0.1	0
51	An in-and-out-the-lab Raman spectroscopy study on street art murals from Reggio Emilia in Italy. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	10
52	Mass spectrometry in art conservation" With focus on paintings. <i>Mass Spectrometry Reviews</i> , 2023, 42, 1625-1646.	2.8	2
53	The Nucleus of Color: Analysis of H&Olio Oiticica's Studio Materials. <i>Studies in Conservation</i> , 2023, 68, 627-656.	0.6	1
54	Analysis of Natural and Synthetic Organic Lakes and Pigments by Chromatographic and Mass Spectrometric Techniques. <i>Cultural Heritage Science</i> , 2022, , 247-287.	0.3	1
55	Analytical Pyrolysis of Organic Paint Materials for Authentication and Attribution. <i>Cultural Heritage Science</i> , 2022, , 157-180.	0.3	2

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56	Review of recent advances on the use of mass spectrometry techniques for the study of organic materials in painted artworks. <i>Analytica Chimica Acta</i> , 2023, 1246, 340575.	2.6	5