

Silvia A Centeno

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,209
citations

361413

20
h-index

377865

34
g-index

51
all docs

51
docs citations

51
times ranked

1566
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of NMR spectroscopy in cultural heritage science. , 2022, , .		0
2	Altered identity: fleeting colors and obscured surfaces in Van Gogh's Landscapes in Paris, Arles, and Saint-Rémy. Heritage Science, 2021, 9, .	2.3	10
3	Discovering the evolution of Jacques-Louis David's portrait of Antoine-Laurent and Marie-Anne Pierrette Paulze Lavoisier. Heritage Science, 2021, 9, .	2.3	2
4	Water Diffusion and Transport in Oil Paints as Studied by Unilateral NMR and ¹ H High-Resolution MAS-NMR Spectroscopy. ChemPhysChem, 2020, 21, 113-119.	2.1	13
5	Nano- to microscale three-dimensional morphology relevant to transport properties in reactive porous composite paint films. Scientific Reports, 2020, 10, 18320.	3.3	5
6	The Exhibition and Characterization of Seven Salted Paper Prints. Journal of the American Institute for Conservation, 2020, 59, 171-185.	0.5	2
7	Review of the use of NMR spectroscopy to investigate structure, reactivity, and dynamics of lead soap formation in paintings. Magnetic Resonance in Chemistry, 2020, 58, 798-811.	1.9	10
8	Johannes Vermeer's Mistress and Maid: new discoveries cast light on changes to the composition and the discoloration of some paint passages. Heritage Science, 2020, 8, .	2.3	2
9	Nineteenth-century nanotechnology: The plasmonic properties of daguerreotypes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13791-13798.	7.1	14
10	Understanding the Dynamics and Structure of Lead Soaps in Oil Paintings Using Multinuclear NMR. Cultural Heritage Science, 2019, , 69-84.	0.4	9
11	Molecular dynamics of palmitic acid and lead palmitate in cross-linked linseed oil films: Implications from deuterium magnetic resonance for lead soap formation in traditional oil paintings. Solid State Nuclear Magnetic Resonance, 2018, 89, 21-26.	2.3	9
12	On the formation of hÃ¶rnesite in a Fatimid manuscript folio. Heritage Science, 2018, 6, .	2.3	1
13	A Hidden Photograph by Julia Margaret Cameron. Metropolitan Museum Journal, 2018, 53, 162-171.	0.0	1
14	Analysis of Lead Carboxylates and Lead-Containing Pigments in Oil Paintings by Solid-State Nuclear Magnetic Resonance. Materials Research Society Symposia Proceedings, 2017, 1656, 149-156.	0.1	6
15	DNP-enhanced ultrawide-line ²⁰⁷ Pb solid-state NMR spectroscopy: an application to cultural heritage science. Dalton Transactions, 2017, 46, 3535-3540.	3.3	23
16	A complete Raman study of common acid red dyes: application to the identification of artistic materials in polychrome prints. Journal of Raman Spectroscopy, 2017, 48, 601-609.	2.5	34
17	Elemental and Molecular Segregation in Oil Paintings due to Lead Soap Degradation. Scientific Reports, 2017, 7, 11656.	3.3	21
18	Van Gogh's Irises and Roses: the contribution of chemical analyses and imaging to the assessment of color changes in the red lake pigments. Heritage Science, 2017, 5, .	2.3	45

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19	Composition and spectroscopic properties of historic Cr logwood inks. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1422-1428.	2.5	6
20	Investigation of the possible origins of sulfur in 19th century salted paper photographs by x-ray fluorescence spectroscopy. <i>X-Ray Spectrometry</i> , 2016, 45, 176-184.	1.4	7
21	Identification of artistic materials in paintings and drawings by Raman spectroscopy: some challenges and future outlook. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 9-15.	2.5	42
22	Early science commissioning results of the sub-micron resolution X-ray spectroscopy beamline (SRX) in the field of materials science and engineering. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	16
23	An insight into the metal coordination and spectroscopic properties of artistic Fe and Fe/Cu logwood inks. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 153, 522-529.	3.9	9
24	AN INVESTIGATION INTO JAPANESE PLATINUM PHOTOGRAPHS: WILLIAM WILLIS'S PROPRIETARY PAPER. <i>Journal of the American Institute for Conservation</i> , 2015, 54, 213-223.	0.5	1
25	Exposing the sub-surface of historical daguerreotypes and the effects of sulfur-induced corrosion. <i>Corrosion Science</i> , 2015, 94, 438-444.	6.6	23
26	Identification of pyroxene minerals used as black pigments in painted human bones excavated in Northern Patagonia by Raman spectroscopy and XRD. <i>Microchemical Journal</i> , 2015, 121, 157-162.	4.5	10
27	Coordination geometry of lead carboxylates – spectroscopic and crystallographic evidence. <i>Dalton Transactions</i> , 2015, 44, 2340-2347.	3.3	57
28	An improved methodology for the characterization and identification of sepia in works of art by normal Raman and SERS, complemented by FTIR, Py-GC/MS, and XRF. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1160-1171.	2.5	50
29	Characterization of unprocessed historic platinum photographic papers by Raman, FTIR and XRF. <i>Microchemical Journal</i> , 2014, 114, 8-15.	4.5	15
30	²⁰⁷ Pb and ¹¹⁹ Sn Solid-State NMR and Relativistic Density Functional Theory Studies of the Historic Pigment Lead-Tin Yellow Type I and Its Reactivity in Oil Paintings. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7952-7958.	2.5	35
31	Nuclear Magnetic Resonance Spectra and ²⁰⁷ Pb Chemical-Shift Tensors of Lead Carboxylates Relevant to Soap Formation in Oil Paintings. <i>Applied Spectroscopy</i> , 2014, 68, 280-286.	2.2	30
32	FTIR, Raman and XRF identification of the image materials in turn of the 20th century pigment-based photographs. <i>Microchemical Journal</i> , 2013, 106, 255-262.	4.5	18
33	“Picasso in The Metropolitan Museum of Art”: An Investigation of Materials and Techniques. <i>Journal of the American Institute for Conservation</i> , 2013, 52, 140-155.	0.5	14
34	Raman Mapping in the Scientific Investigations of Works of Art. <i>Springer Series in Optical Sciences</i> , 2012, , 189-217.	0.7	3
35	In Situ Unilateral ¹ H-NMR Studies of the Interaction Between Lead White Pigments and Collagen-Based Binders. <i>Applied Magnetic Resonance</i> , 2012, 42, 363-376.	1.2	10
36	Characterization of surface decorations in Prehispanic archaeological ceramics by Raman spectroscopy, FTIR, XRD and XRF. <i>Vibrational Spectroscopy</i> , 2012, 58, 119-124.	2.2	62

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37	Absorption and diffusion measurements of water in acrylic paint films by single-sided NMR. <i>Progress in Organic Coatings</i> , 2011, 71, 283-289.	3.9	36
38	The formation of chlorine-induced alterations in daguerreotype image particles: a high resolution SEM-EDS study. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 105, 55-63.	2.3	20
39	Characterization of Al(III) complexes with hematein in artistic alum logwood inks. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 445-451.	2.5	7
40	Unilateral NMR applied to the conservation of works of art. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 213-220.	3.7	37
41	Advances in Raman mapping of works of art. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1462-1467.	2.5	43
42	Combined X-ray Diffraction and Raman Identification of Synthetic Organic Pigments in Works of Art: From Powder Samples to Artists'™ Paints. <i>Analytical Chemistry</i> , 2009, 81, 6096-6106.	6.5	36
43	The daguerreotype surface as a SERS substrate: characterization of image deterioration in plates from the 19th century studio of Southworth & Hawes. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 914-921.	2.5	27
44	Raman identification of yellow synthetic organic pigments in modern and contemporary paintings: Reference spectra and case studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 69, 486-497.	3.9	89
45	Surface enhanced Raman scattering (SERS) and FTIR characterization of the sepia melanin pigment used in works of art. <i>Journal of Molecular Structure</i> , 2008, 873, 149-159.	3.6	209
46	Raman study of synthetic organic pigments and dyes in early lithographic inks (1890-1920). <i>Journal of Raman Spectroscopy</i> , 2006, 37, 1111-1118.	2.5	49
47	A Technical Study of John Singer Sargent's Portrait of Madame Pierre Gautreau. <i>Metropolitan Museum Journal</i> , 2005, 40, 121-129.	0.0	8
48	Examination of a Spanish medieval processional crucifix substantially reworked in the 20th century. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 774-780.	2.5	16
49	Characterization by FTIR of the Effect of Lead White on Some Properties of Proteinaceous Binding Media. <i>Journal of the American Institute for Conservation</i> , 2004, 43, 139.	0.5	7
50	Analysis of Gypsum-Containing Lime Mortars: Possible Errors Due to the Use of Different Drying Conditions. <i>Journal of the American Institute for Conservation</i> , 2002, 41, 269.	0.5	4