Silvia Bruni

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4826300/publications.pdf

Version: 2024-02-01

80 papers	2,692 citations	201674 27 h-index	189892 50 g-index
82 all docs	82 docs citations	82 times ranked	3160 citing authors

#	Article	IF	Citations
1	The Art of Everyday Objects: A Non-Invasive In Situ Investigation of Materials and Techniques of Italian Pop Art Paintings on Aluminium. Heritage, 2022, 5, 42-60.	1.9	4
2	A Multiwavelength Approach for the Study of Contemporary Painting Materials by Means of Fluorescence Imaging Techniques: An Integration to Spectroscopic Methods. Applied Sciences (Switzerland), 2022, 12, 94.	2.5	3
3	Etruscan Fine Ware Pottery: Near-Infrared (NIR) Spectroscopy as a Tool for the Investigation of Clay Firing Temperature and Atmosphere. Minerals (Basel, Switzerland), 2022, 12, 412.	2.0	6
4	Surface-Enhanced Raman Spectroscopy for the Investigation of Chromogenic Motion Picture Films: A Preliminary Study. Chemosensors, 2022, 10, 101.	3.6	2
5	FT-NIR Spectroscopy for the Non-Invasive Study of Binders and Multi-Layered Structures in Ancient Paintings: Artworks of the Lombard Renaissance as Case Studies. Sensors, 2022, 22, 2052.	3.8	7
6	Hyper-dimensional Visualization of Cultural Heritage: A Novel Multi-analytical Approach on 3D Pomological Models in the Collection of the University of Milan. Journal on Computing and Cultural Heritage, 2022, 15, 1-15.	2.1	1
7	The Green Patina and Chromatic Alterations on Surfaces of Gypsum Plaster Casts by Lucio Fontana: Multidisciplinary Investigations in a Case Study of Contemporary Art. Coatings, 2022, 12, 426.	2.6	0
8	UV-Excited Fluorescence as a Basis for the In-Situ Identification of Natural Binders in Historical Painting: A Critical Study on Model Samples. Chemosensors, 2022, 10, 256.	3.6	4
9	A Silver Monochrome â€œConcetto spazialeâ€•by Lucio Fontana: A Spectroscopic Non- and Micro-Invasive Investigation of Materials. Molecules, 2022, 27, 4442.	3.8	1
10	Imaging and spectroscopic data combined to disclose the painting techniques and materials in the fifteenth century Leonardo atelier in Milan. Dyes and Pigments, 2021, 187, 109112.	3.7	16
11	The brightest colors: A Fourierâ€transform Raman, surfaceâ€enhanced Raman, and thinâ€layer chromatographyâ€surfaceâ€enhanced Raman spectroscopy study of fluorescent artists' paints. Journal of Raman Spectroscopy, 2020, 51, 1108-1117.	2.5	13
12	Use of integrated non-invasive analyses for pigment characterization and indirect dating of old restorations on one Egyptian coffin of the XXI dynasty. Microchemical Journal, 2018, 138, 122-131.	4.5	20
13	A non-destructive spectroscopic study of the decoration of archaeological pottery: from matt-painted bichrome ceramic sherds (southern Italy, VIII-VII B.C.) to an intact Etruscan cinerary urn. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 191, 88-97.	3.9	18
14	CHAPTER 11. Raman Spectroscopy for the Identification of Materials in Contemporary Painting. , 2018, , 157-173.		1
15	Multi-technique investigation of historical Chinese dyestuffs used in Ningxia carpets. Archaeological and Anthropological Sciences, 2017, 9, 1789-1798.	1.8	12
16	In-situ spectrofluorimetric identification of natural red dyestuffs in ancient tapestries. Microchemical Journal, 2017, 132, 77-82.	4.5	7
17	A multi-technique approach to the chemical characterization of colored inks in contemporary art: The materials of Lucio Fontana. Journal of Cultural Heritage, 2017, 23, 87-97.	3.3	23
18	Earliest direct evidence of plant processing in prehistoric Saharan pottery. Nature Plants, 2017, 3, 16194.	9.3	117

#	Article	IF	Citations
19	â€œDry-stateâ€•surface-enhanced Raman scattering (SERS): toward non-destructive analysis of dyes on textile fibers. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	19
20	Online coupling of highâ€performance liquid chromatography with surfaceâ€enhanced Raman spectroscopy for the identification of historical dyes. Journal of Raman Spectroscopy, 2016, 47, 607-615.	2.5	34
21	Non-invasive in situ analytical techniques working in synergy: The application on graduals held in the Certosa di Pavia. Microchemical Journal, 2016, 126, 172-180.	4.5	26
22	Ageing of flax textiles: Fingerprints in micro-Raman spectra of single fibres. Microchemical Journal, 2016, 125, 69-74.	4.5	9
23	Identification of anthocyanins in plant sources and textiles by surface-enhanced Raman spectroscopy (SERS). Journal of Raman Spectroscopy, 2016, 47, 269-276.	2.5	21
24	Colour in context. Pigments and other coloured residues from the Early-Middle Holocene site of Takarkori (SW Libya). Archaeological and Anthropological Sciences, 2016, 8, 381-402.	1.8	22
25	In Situ Nondestructive Identification of Natural Dyes in Ancient Textiles by Reflection Fourier Transform Mid-Infrared (FT-MIR) Spectroscopy. Applied Spectroscopy, 2015, 69, 222-229.	2.2	7
26	Surface-enhanced Raman scattering (SERS) study of anthocyanidins. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 41-47.	3.9	46
27	Exploiting external reflection FTIR spectroscopy for the in-situ identification of pigments and binders in illuminated manuscripts. Brochantite and posnjakite as a case study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 1076-1085.	3.9	42
28	Fourierâ€transform surfaceâ€enhanced Raman spectroscopy (FTâ€SERS) applied to the identification of natural dyes in textile fibers: an extractionless approach to the analysis. Journal of Raman Spectroscopy, 2014, 45, 211-218.	2.5	36
29	Identification of archaeological triterpenic resins by the non-separative techniques FTIR and 13C NMR: The case of Pistacia resin (mastic) in comparison with frankincense. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 121, 613-622.	3.9	33
30	Sample Treatment Considerations in the Analysis of Organic Colorants by Surface-Enhanced Raman Scattering. Analytical Chemistry, 2012, 84, 3751-3757.	6.5	106
31	Multi-technique characterization of dyes in ancient Kaitag textiles from Caucasus. Archaeological and Anthropological Sciences, 2012, 4, 185-197.	1.8	36
32	First dairying in green Saharan Africa in the fifth millennium bc. Nature, 2012, 486, 390-394.	27.8	314
33	Identification of Natural Dyes on Laboratory-Dyed Wool and Ancient Wool, Silk, and Cotton Fibers Using Attenuated Total Reflection (ATR) Fourier Transform Infrared (FT-IR) Spectroscopy and Fourier Transform Raman Spectroscopy. Applied Spectroscopy, 2011, 65, 1017-1023.	2.2	26
34	FIELD AND LABORATORY MULTIâ€TECHNIQUE ANALYSIS OF PIGMENTS AND ORGANIC PAINTING MEDIA FROM AN EGYPTIAN COFFIN (26TH DYNASTY). Archaeometry, 2011, 53, 1212-1230.	1.3	28
35	Surfaceâ€enhanced Raman spectroscopy (SERS) on silver colloids for the identification of ancient textile dyes. Part II: pomegranate and sumac. Journal of Raman Spectroscopy, 2011, 42, 465-473.	2.5	41
36	Historical organic dyes: a surfaceâ€enhanced Raman scattering (SERS) spectral database on Ag Leeâ€“Meisel colloids aggregated by NaClO₄. Journal of Raman Spectroscopy, 2011, 42, 1267-1281.	2.5	98

#	Article	IF	Citations
37	Surfaceâ€enhanced Raman spectroscopy (SERS) on silver colloids for the identification of ancient textile dyes: Tyrian purple and madder. Journal of Raman Spectroscopy, 2010, 41, 175-180.	2.5	34
38	ARCHAEOMETRIC STUDY OF SHELLS OF HELICIDAE FROM THE EDERA CAVE (NORTHEASTERN ITALY)*. Archaeometry, 2009, 51, 151-173.	1.3	11
39	The joined use of n.i. spectroscopic analyses â€“ FTIR, Raman, visible reflectance spectrometry and EDXRF â€“ to study drawings and illuminated manuscripts. Applied Physics A: Materials Science and Processing, 2008, 92, 103-108.	2.3	62
40	Terpyridine Zn(II), Ru(III), and Ir(III) Complexes:â€‰ The Relevant Role of the Nature of the Metal Ion and of the Ancillary Ligands on the Second-Order Nonlinear Response of Terpyridines Carrying Electron Donor or Electron Acceptor Groups. Inorganic Chemistry, 2005, 44, 8967-8978.	4.0	82
41	A multitechnique investigation of the second order NLO response of a 10,20-diphenylporphyrinato nickel(II) complex carrying a phenylethynyl based push-pull system in the 5- and 15-positions. Journal of Porphyrins and Phthalocyanines, 2004, 08, 1311-1324.	0.8	22
42	[Cu(imidazole)2(CO3)]â‹…H2O: an intermediate in the formation of the copper bis-imidazolate polymer (blue phase). Zeitschrift Fur Kristallographie - Crystalline Materials, 2002, 217, .	0.8	3
43	Organometallic Counterparts of Pushâ^'Pull Aromatic Chromophores for Nonlinear Optics:â€‰ Pushâ^'Pull Heteronuclear Bimetallic Complexes with Pyrazine and trans-1,2-Bis(4-pyridyl)ethylene as Linkers. Organometallics, 2002, 21, 5830-5840.	2.3	43
44	Field and Laboratory Spectroscopic Methods for the Identification of Pigments in a Northern Italian Eleventh Century Fresco Cycle. Applied Spectroscopy, 2002, 56, 827-833.	2.2	35
45	Terpyridine Zn(ii), Ru(iii) and Ir(iii) complexes as new asymmetric chromophores for nonlinear optics: first evidence for a shift from positive to negative value of the quadratic hyperpolarizability of a ligand carrying an electron donor substituent upon coordination to different metal centres. Chemical Communications, 2002, , 846-847.	4.1	50
46	Effect of the Coordination to M(II) Metal Centers (M = Zn, Cd, Pt) on the Quadratic Hyperpolarizability of Various Substituted 5-X-1,10-phenanthrolines (X = Donor Group) and of trans-4-(Dimethylamino)-4â€˜-stilbazole. Organometallics, 2002, 21, 161-170.	2.3	49
47	Extended Polymorphism in Copper(II) Imidazolate Polymers:Â A Spectroscopic and XRPD Structural Study. Inorganic Chemistry, 2001, 40, 5897-5905.	4.0	158
48	Determination of the quadratic hyperpolarizability of trans-4-[4-(dimethylamino)styryl]pyridine and 5-dimethylamino-1,10-phenanthroline from solvatochromism of absorption and fluorescence spectra: a comparison with the electric-field-induced second-harmonic generation technique. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 1417-1426.	3.9	84
49	XRD, TEM, IR and 29Si MAS NMR characterization of NiO-SiO2 nanocomposites. Journal of Materials Science, 2001, 36, 3731-3735.	3.7	24
50	Micro-Raman identification of the palette of a precious XVI century illuminated Persian codex. Journal of Cultural Heritage, 2001, 2, 291-296.	3.3	38
51	A spectroscopic and magnetic study of complexes of bis(2â€“benzothiazolyl)methanate and bis(2â€“benzoxazolyl) methanate with Co(II), Ni(II), Cu(II) and Zn(II). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2000, 56, 1543-1552.	3.9	16
52	Speciation and structure of copper(II) complexes with histidine-containing peptides in aqueous medium: a combined potentiometric and spectroscopic study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2000, 56, 815-827.	3.9	25
53	MSWI Fly Ash Native Carbon Thermal Degradation:Â A TG-FTIR Studyâ€. Environmental Science & Technology, 2000, 34, 4370-4375.	10.0	11
54	Quadratic Hyperpolarizability Enhancement of para-Substituted Pyridines upon Coordination to Organometallic Moieties:â€‰ The Ambivalent Donor or Acceptor Role of the Metal. Organometallics, 2000, 19, 1775-1788.	2.3	103

#	Article	IF	Citations
55	Influence of some transition metal cations on the properties of BaO-containing glasses and glass-ceramics. Materials Research Bulletin, 1999, 34, 1825-1836.	5.2	6
56	IR and NMR study of nanoparticle-support interactions in a Fe2O3-SiO2 nanocomposite prepared by a Sol-gel method. Scripta Materialia, 1999, 11, 573-586.	0.5	156
57	Single-Crystal Vibrational Spectrum of Phenakite, Be2SiO4, and Its Interpretation Using a Transferable Empirical Force Field. Journal of Physical Chemistry A, 1998, 102, 4990-4996.	2.5	14
58	Lead-resistant microorganisms from red stains of marble of the Certosa of Pavia, Italy and use of nucleic acid-based techniques for their detection. International Biodeterioration and Biodegradation, 1997, 40, 171-182.	3.9	29
59	Organic/inorganic composite materials: synthesis and properties of one-dimensional polymeric haloplumbate(II) systems. Inorganica Chimica Acta, 1997, 254, 137-143.	2.4	33
60	Ethoxylation of fatty alcohols promoted by an aluminum alkoxide sulphate catalyst. Journal of Molecular Catalysis A, 1996, 112, 235-251.	4.8	20
61	Infrared specular reflection spectra of copper-zinc phosphate glasses. Vibrational Spectroscopy, 1994, 7, 169-173.	2.2	18
62	A study of the reactivity and structure of cyclic Î±,Î²-unsaturated Fischer-type carbene complexes. Inorganica Chimica Acta, 1994, 220, 233-247.	2.4	23
63	Research on chromatic alterations of marbles from the fountain of Villa Litta (Lainate, Milan). International Biodeterioration and Biodegradation, 1994, 33, 153-164.	3.9	14
64	Ferromagnetic Coupling between Semiquinone Type Tridentate Radical Ligands Mediated by Metal Ions. Journal of the American Chemical Society, 1994, 116, 1388-1394.	13.7	136
65	Oxidation of primary benzylic amines by Mo(O) (O2)2 (H2O) (HMPA). Journal of Molecular Catalysis, 1993, 83, 311-322.	1.2	28
66	A revision on gold(I)-carbon stretching frequencies. Inorganica Chimica Acta, 1993, 203, 127-128.	2.4	5
67	Crystal and molecular structure and spectroscopic properties of diaquabis(N-acetyl-D,L-phenylglycinato)bis(imidazole)copper(II). Inorganica Chimica Acta, 1993, 205, 99-104.	2.4	17
68	Atomic thermal parameters and thermodynamic functions for chrysoberyl (BeAl2O4) from vibrational spectra and transfer of empirical force fields. Acta Crystallographica Section B: Structural Science, 1993, 49, 216-222.	1.8	15
69	Colouring inorganic oxides in MgOî—¸CaOî—¸Al2O3î—¸SiO2 glass-ceramic systems. Journal of Non-Crystalline Solids, 1993, 155, 231-244.	3.1	5
70	Electronic conductivity in copper- and iron-based phosphate glasses exhibiting clustering and spinodal decomposition. Journal of Materials Chemistry, 1993, 3, 1179.	6.7	0
71	POlymeric Complexes of 3-Hydroxy-4-Methoxy- And 3-Methoxy-4-Hydroxybenzoic Acids. Crystal Structure of the Linear-Chain Complex of CO^{II}With 3-Hydroxy-4-Methoxybenzoic Acid. Journal of Coordination Chemistry, 1992, 25, 75-84.	2.2	27
72	Preparation and characterization of some P-quaternary salts of tetracoordinate halogenozincate(II) and halogenocadmiate(II) anions. Inorganica Chimica Acta, 1992, 192, 233-236.	2.4	5

#	Article	IF	Citations
73	Coordinative capability of propane-l,3-diamine: spectroscopic and structural properties of a complex of formula [Cd(pnH)4Cl2]Cl4. Inorganica Chimica Acta, 1991, 189, 13-18.	2.4	2
74	Syntheses and spectroscopic properties of halocadmates(II): crystal and molecular structure of a new tribromo[N-benzylpiperazinium]cadmium(II) compound. Inorganica Chimica Acta, 1991, 183, 221-227.	2.4	6
75	1,4,5,8-Tetraoxonaphthalene redox species in dinuclear ruthenium complexes: resonance Raman and electronic spectra. Inorganica Chimica Acta, 1991, 186, 157-160.	2.4	11
76	Piperazinium and N-methyl-piperazinium tetrahalocadmates(II) containing discrete [CdX4]2â^' units. Inorganica Chimica Acta, 1991, 187, 141-147.	2.4	9
77	Li2OSiO2Al2O3MeIIO Glass-Ceramic Systems for Tile Glaze Applications. Journal of the American Ceramic Society, 1991, 74, 983-987.	3.8	28
78	Raman and infrared spectra of NiI2 Â· 6H2O. Journal of Raman Spectroscopy, 1991, 22, 397-401.	2.5	9
79	Coordinative capabilities of substituted propane-1,3-diamine: Zinc(II) halide adducts of 2,2-dimethylpropane-1,3-diamine. Inorganica Chimica Acta, 1989, 159, 173-180.	2.4	5
80	Flexibility in coordinative behavior of propane-1,3-diamine toward Zn(II) and Cd(II) halides: M(1,3pn)2X2 (M=Zn, Cd; X=Cl, Br, I). Inorganica Chimica Acta, 1989, 158, 9-16.	2.4	21