

# Silvia Bruni

## List of Publications by Year in descending order

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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	First dairying in green Saharan Africa in the fifth millennium bc. <i>Nature</i> , 2012, 486, 390-394.	27.8	314
2	Extended Polymorphism in Copper(II) Imidazolate Polymers: A Spectroscopic and XRPD Structural Study. <i>Inorganic Chemistry</i> , 2001, 40, 5897-5905.	4.0	158
3	IR and NMR study of nanoparticle-support interactions in a Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> nanocomposite prepared by a Sol-gel method. <i>Scripta Materialia</i> , 1999, 11, 573-586.	0.5	156
4	Ferromagnetic Coupling between Semiquinone Type Tridentate Radical Ligands Mediated by Metal Ions. <i>Journal of the American Chemical Society</i> , 1994, 116, 1388-1394.	13.7	136
5	Earliest direct evidence of plant processing in prehistoric Saharan pottery. <i>Nature Plants</i> , 2017, 3, 16194.	9.3	117
6	Sample Treatment Considerations in the Analysis of Organic Colorants by Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2012, 84, 3751-3757.	6.5	106
7	Quadratic Hyperpolarizability Enhancement of para-Substituted Pyridines upon Coordination to Organometallic Moieties: The Ambivalent Donor or Acceptor Role of the Metal. <i>Organometallics</i> , 2000, 19, 1775-1788.	2.3	103
8	Historical organic dyes: a surface-enhanced Raman scattering (SERS) spectral database on Ag Lee-Meisel colloids aggregated by NaClO <sub>4</sub> . <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1267-1281.	2.5	98
9	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. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2001, 57, 1417-1426.	3.9	84
10	Terpyridine Zn(II), Ru(III), and Ir(III) Complexes: 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. <i>Inorganic Chemistry</i> , 2005, 44, 8967-8978.	4.0	82
11	The joined use of n.i. spectroscopic analyses – FTIR, Raman, visible reflectance spectrometry and EDXRF – to study drawings and illuminated manuscripts. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 103-108.	2.3	62
12	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. <i>Chemical Communications</i> , 2002, , 846-847.	4.1	50
13	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)-4-stilbazole. <i>Organometallics</i> , 2002, 21, 161-170.	2.3	49
14	Surface-enhanced Raman scattering (SERS) study of anthocyanidins. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 41-47.	3.9	46
15	Organometallic Counterparts of Push~Pull Aromatic Chromophores for Nonlinear Optics: Push~Pull Heteronuclear Bimetallic Complexes with Pyrazine and trans-1,2-Bis(4-pyridyl)ethylene as Linkers. <i>Organometallics</i> , 2002, 21, 5830-5840.	2.3	43
16	Exploiting external reflection FTIR spectroscopy for the in-situ identification of pigments and binders in illuminated manuscripts. Brochantite and posnjakite as a case study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1076-1085.	3.9	42
17	Surface-enhanced Raman spectroscopy (SERS) on silver colloids for the identification of ancient textile dyes. Part II: pomegranate and sumac. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 465-473.	2.5	41
18	Micro-Raman identification of the palette of a precious XVI century illuminated Persian codex. <i>Journal of Cultural Heritage</i> , 2001, 2, 291-296.	3.3	38

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19	Multi-technique characterization of dyes in ancient Kaitag textiles from Caucasus. <i>Archaeological and Anthropological Sciences</i> , 2012, 4, 185-197.	1.8	36
20	Fourier transform surface enhanced Raman spectroscopy (FTSERS) applied to the identification of natural dyes in textile fibers: an extractionless approach to the analysis. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 211-218.	2.5	36
21	Field and Laboratory Spectroscopic Methods for the Identification of Pigments in a Northern Italian Eleventh Century Fresco Cycle. <i>Applied Spectroscopy</i> , 2002, 56, 827-833.	2.2	35
22	Surface enhanced Raman spectroscopy (SERS) on silver colloids for the identification of ancient textile dyes: Tyrian purple and madder. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 175-180.	2.5	34
23	Online coupling of high performance liquid chromatography with surface enhanced Raman spectroscopy for the identification of historical dyes. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 607-615.	2.5	34
24	Organic/inorganic composite materials: synthesis and properties of one-dimensional polymeric haloplumbate(II) systems. <i>Inorganica Chimica Acta</i> , 1997, 254, 137-143.	2.4	33
25	Identification of archaeological triterpenic resins by the non-separative techniques FTIR and <sup>13</sup> C NMR: The case of Pistacia resin (mastic) in comparison with frankincense. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 613-622.	3.9	33
26	Lead-resistant microorganisms from red stains of marble of the Certosa of Pavia, Italy and use of nucleic acid-based techniques for their detection. <i>International Biodeterioration and Biodegradation</i> , 1997, 40, 171-182.	3.9	29
27	Li <sub>2</sub> OSiO <sub>2</sub> Al <sub>2</sub> O <sub>3</sub> MelIO Glass-Ceramic Systems for Tile Glaze Applications. <i>Journal of the American Ceramic Society</i> , 1991, 74, 983-987.	3.8	28
28	Oxidation of primary benzylic amines by Mo(O) (O <sub>2</sub> ) <sub>2</sub> (H <sub>2</sub> O) (HMPA). <i>Journal of Molecular Catalysis</i> , 1993, 83, 311-322.	1.2	28
29	FIELD AND LABORATORY MULTI-TECHNIQUE ANALYSIS OF PIGMENTS AND ORGANIC PAINTING MEDIA FROM AN EGYPTIAN COFFIN (26TH DYNASTY). <i>Archaeometry</i> , 2011, 53, 1212-1230.	1.3	28
30	Polymeric Complexes of 3-Hydroxy-4-Methoxy- And 3-Methoxy-4-Hydroxybenzoic Acids. Crystal Structure of the Linear-Chain Complex of CO <sub>2</sub> With 3-Hydroxy-4-Methoxybenzoic Acid. <i>Journal of Coordination Chemistry</i> , 1992, 25, 75-84.	2.2	27
31	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. <i>Applied Spectroscopy</i> , 2011, 65, 1017-1023.	2.2	26
32	Non-invasive in situ analytical techniques working in synergy: The application on graduals held in the Certosa di Pavia. <i>Microchemical Journal</i> , 2016, 126, 172-180.	4.5	26
33	Speciation and structure of copper(II) complexes with histidine-containing peptides in aqueous medium: a combined potentiometric and spectroscopic study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2000, 56, 815-827.	3.9	25
34	XRD, TEM, IR and <sup>29</sup> Si MAS NMR characterization of NiO-SiO <sub>2</sub> nanocomposites. <i>Journal of Materials Science</i> , 2001, 36, 3731-3735.	3.7	24
35	A study of the reactivity and structure of cyclic $\hat{\text{I}}^{\pm}, \hat{\text{I}}^2$ -unsaturated Fischer-type carbene complexes. <i>Inorganica Chimica Acta</i> , 1994, 220, 233-247.	2.4	23
36	A multi-technique approach to the chemical characterization of colored inks in contemporary art: The materials of Lucio Fontana. <i>Journal of Cultural Heritage</i> , 2017, 23, 87-97.	3.3	23

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37	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. <i>Journal of Porphyrins and Phthalocyanines</i> , 2004, 08, 1311-1324.	0.8	22
38	Colour in context. Pigments and other coloured residues from the Early-Middle Holocene site of Takarkori (SW Libya). <i>Archaeological and Anthropological Sciences</i> , 2016, 8, 381-402.	1.8	22
39	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). <i>Inorganica Chimica Acta</i> , 1989, 158, 9-16.	2.4	21
40	Identification of anthocyanins in plant sources and textiles by surface-enhanced Raman spectroscopy (SERS). <i>Journal of Raman Spectroscopy</i> , 2016, 47, 269-276.	2.5	21
41	Ethoxylation of fatty alcohols promoted by an aluminum alkoxide sulphate catalyst. <i>Journal of Molecular Catalysis A</i> , 1996, 112, 235-251.	4.8	20
42	Use of integrated non-invasive analyses for pigment characterization and indirect dating of old restorations on one Egyptian coffin of the XXI dynasty. <i>Microchemical Journal</i> , 2018, 138, 122-131.	4.5	20
43	“Dry-state” surface-enhanced Raman scattering (SERS): toward non-destructive analysis of dyes on textile fibers. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	19
44	Infrared specular reflection spectra of copper-zinc phosphate glasses. <i>Vibrational Spectroscopy</i> , 1994, 7, 169-173.	2.2	18
45	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. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 191, 88-97.	3.9	18
46	Crystal and molecular structure and spectroscopic properties of diaquabis(N-acetyl-D,L-phenylglycinato)bis(imidazole)copper(II). <i>Inorganica Chimica Acta</i> , 1993, 205, 99-104.	2.4	17
47	A spectroscopic and magnetic study of complexes of bis(2-“benzothiazolyl)methanate and bis(2-“benzoxazolyl)methanate with Co(II), Ni(II), Cu(II) and Zn(II). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2000, 56, 1543-1552.	3.9	16
48	Imaging and spectroscopic data combined to disclose the painting techniques and materials in the fifteenth century Leonardo atelier in Milan. <i>Dyes and Pigments</i> , 2021, 187, 109112.	3.7	16
49	Atomic thermal parameters and thermodynamic functions for chrysoberyl (BeAl <sub>2</sub> O <sub>4</sub> ) from vibrational spectra and transfer of empirical force fields. <i>Acta Crystallographica Section B: Structural Science</i> , 1993, 49, 216-222.	1.8	15
50	Research on chromatic alterations of marbles from the fountain of Villa Litta (Lainate, Milan). <i>International Biodeterioration and Biodegradation</i> , 1994, 33, 153-164.	3.9	14
51	Single-Crystal Vibrational Spectrum of Phenakite, Be <sub>2</sub> SiO <sub>4</sub> , and Its Interpretation Using a Transferable Empirical Force Field. <i>Journal of Physical Chemistry A</i> , 1998, 102, 4990-4996.	2.5	14
52	The brightest colors: A Fourier transform Raman, surface enhanced Raman, and thin layer chromatography surface enhanced Raman spectroscopy study of fluorescent artists' paints. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1108-1117.	2.5	13
53	Multi-technique investigation of historical Chinese dyestuffs used in Ningxia carpets. <i>Archaeological and Anthropological Sciences</i> , 2017, 9, 1789-1798.	1.8	12
54	1,4,5,8-Tetraoxonaphthalene redox species in dinuclear ruthenium complexes: resonance Raman and electronic spectra. <i>Inorganica Chimica Acta</i> , 1991, 186, 157-160.	2.4	11

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55	MSWI Fly Ash Native Carbon Thermal Degradation: A TG-FTIR Study. <i>Environmental Science &amp; Technology</i> , 2000, 34, 4370-4375.	10.0	11
56	ARCHAEOLOGICAL STUDY OF SHELLS OF HELICIDAE FROM THE EDERA CAVE (NORTHEASTERN ITALY)*. <i>Archaeometry</i> , 2009, 51, 151-173.	1.3	11
57	Piperazinium and N-methyl-piperazinium tetrahalocadmates(II) containing discrete $[CdX_4]^{2-}$ units. <i>Inorganica Chimica Acta</i> , 1991, 187, 141-147.	2.4	9
58	Raman and infrared spectra of $NiI_2 \cdot 6H_2O$ . <i>Journal of Raman Spectroscopy</i> , 1991, 22, 397-401.	2.5	9
59	Ageing of flax textiles: Fingerprints in micro-Raman spectra of single fibres. <i>Microchemical Journal</i> , 2016, 125, 69-74.	4.5	9
60	In Situ Nondestructive Identification of Natural Dyes in Ancient Textiles by Reflection Fourier Transform Mid-Infrared (FT-MIR) Spectroscopy. <i>Applied Spectroscopy</i> , 2015, 69, 222-229.	2.2	7
61	In-situ spectrofluorimetric identification of natural red dyestuffs in ancient tapestries. <i>Microchemical Journal</i> , 2017, 132, 77-82.	4.5	7
62	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. <i>Sensors</i> , 2022, 22, 2052.	3.8	7
63	Syntheses and spectroscopic properties of halocadmates(II): crystal and molecular structure of a new tribromo[N-benzylpiperazinium]cadmium(II) compound. <i>Inorganica Chimica Acta</i> , 1991, 183, 221-227.	2.4	6
64	Influence of some transition metal cations on the properties of BaO-containing glasses and glass-ceramics. <i>Materials Research Bulletin</i> , 1999, 34, 1825-1836.	5.2	6
65	Etruscan Fine Ware Pottery: Near-Infrared (NIR) Spectroscopy as a Tool for the Investigation of Clay Firing Temperature and Atmosphere. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 412.	2.0	6
66	Coordinative capabilities of substituted propane-1,3-diamine: Zinc(II) halide adducts of 2,2-dimethylpropane-1,3-diamine. <i>Inorganica Chimica Acta</i> , 1989, 159, 173-180.	2.4	5
67	Preparation and characterization of some P-quaternary salts of tetracoordinate halogenozincate(II) and halogenocadmiate(II) anions. <i>Inorganica Chimica Acta</i> , 1992, 192, 233-236.	2.4	5
68	A revision on gold(I)-carbon stretching frequencies. <i>Inorganica Chimica Acta</i> , 1993, 203, 127-128.	2.4	5
69	Colouring inorganic oxides in $MgO-CaO-Al_2O_3-SiO_2$ glass-ceramic systems. <i>Journal of Non-Crystalline Solids</i> , 1993, 155, 231-244.	3.1	5
70	The Art of Everyday Objects: A Non-Invasive In Situ Investigation of Materials and Techniques of Italian Pop Art Paintings on Aluminium. <i>Heritage</i> , 2022, 5, 42-60.	1.9	4
71	UV-Excited Fluorescence as a Basis for the In-Situ Identification of Natural Binders in Historical Painting: A Critical Study on Model Samples. <i>Chemosensors</i> , 2022, 10, 256.	3.6	4
72	$[Cu(imidazole)_2(CO_3)] \cdot nH_2O$ : an intermediate in the formation of the copper bis-imidazolate polymer (blue phase). <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2002, 217, .	0.8	3

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73	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
74	Coordinative capability of propane-1,3-diamine: spectroscopic and structural properties of a complex of formula $[Cd(pnH)4Cl_2]Cl_4$ . Inorganica Chimica Acta, 1991, 189, 13-18.	2.4	2
75	Surface-Enhanced Raman Spectroscopy for the Investigation of Chromogenic Motion Picture Films: A Preliminary Study. Chemosensors, 2022, 10, 101.	3.6	2
76	CHAPTER 11. Raman Spectroscopy for the Identification of Materials in Contemporary Painting. , 2018, , 157-173.		1
77	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
78	A Silver Monochrome "Concetto spaziale" by Lucio Fontana: A Spectroscopic Non- and Micro-Invasive Investigation of Materials. Molecules, 2022, 27, 4442.	3.8	1
79	Electronic conductivity in copper- and iron-based phosphate glasses exhibiting clustering and spinodal decomposition. Journal of Materials Chemistry, 1993, 3, 1179.	6.7	0
80	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