

Pier Paolo Lottici

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3470989/publications.pdf>

Version: 2024-02-01

234
papers

6,769
citations

87843

38
h-index

85498

71
g-index

234
all docs

234
docs citations

234
times ranked

7552
citing authors

#	ARTICLE	IF	CITATIONS
1	Phonon confinement effects in the Raman scattering by TiO ₂ nanocrystals. Applied Physics Letters, 1998, 72, 73-75.	1.5	560
2	Micro-Raman investigation of iron oxide films and powders produced by sol-gel syntheses. Journal of Raman Spectroscopy, 1999, 30, 355-360.	1.2	464
3	Raman fingerprint of chromate, aluminate and ferrite spinels. Journal of Raman Spectroscopy, 2015, 46, 1255-1264.	1.2	280
4	Thermal stability of 12-tungstophosphoric acid supported on zirconia. Applied Catalysis A: General, 2000, 193, 215-225.	2.2	156
5	Raman scattering characterization of gel-derived titania glass. Journal of Materials Science, 1993, 28, 177-183.	1.7	151
6	Study of silica nanoparticles " polysiloxane hydrophobic treatments for stone-based monument protection. Journal of Cultural Heritage, 2011, 12, 356-363.	1.5	145
7	"Green earths": vibrational and elemental characterization of glauconites, celadonites and historical pigments. Journal of Raman Spectroscopy, 2008, 39, 1066-1073.	1.2	137
8	Raman study of nanosized titania prepared by sol-gel route. Journal of Non-Crystalline Solids, 1998, 232-234, 175-181.	1.5	126
9	Raman spectroscopy of minerals and mineral pigments in archaeometry. Journal of Raman Spectroscopy, 2016, 47, 499-530.	1.2	126
10	Study of Anatase to Rutile Phase Transition in Nanocrystalline Titania Films. Journal of Sol-Gel Science and Technology, 2002, 24, 255-264.	1.1	121
11	Low Temperature Sol-Gel Preparation of Nanocrystalline TiO ₂ Thin Films. Journal of Sol-Gel Science and Technology, 2002, 24, 247-254.	1.1	111
12	Green pigments of the Pompeian artists' palette. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 73, 532-538.	2.0	109
13	Micro-Raman mapping of the polymorphs of serpentine. Journal of Raman Spectroscopy, 2015, 46, 953-958.	1.2	107
14	3D printed chitosan scaffolds: A new TiO ₂ support for the photocatalytic degradation of amoxicillin in water. Water Research, 2019, 163, 114841.	5.3	102
15	Applications of Raman spectroscopy to gemology. Analytical and Bioanalytical Chemistry, 2010, 397, 2631-2646.	1.9	85
16	Pigments used in Roman wall paintings in the Vesuvian area. Journal of Raman Spectroscopy, 2010, 41, 1537-1542.	1.2	85
17	Micro-Raman spectroscopy as a routine tool for garnet analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 73, 484-491.	2.0	81
18	Titanium dioxide nanoparticles promote arrhythmias via a direct interaction with rat cardiac tissue. Particle and Fibre Toxicology, 2014, 11, 63.	2.8	76

#	ARTICLE	IF	CITATIONS
19	Sol-Gel Preparation of Fe_2O_3 Thin Films: Structural Characterization by XAFS and Raman. <i>Journal of Sol-Gel Science and Technology</i> , 1998, 13, 667-671.	1.1	75
20	Sol-gel nanocrystalline brookite-rich titania films. <i>Materials Letters</i> , 2004, 58, 2618-2622.	1.3	66
21	Oxidative and pro-inflammatory effects of cobalt and titanium oxide nanoparticles on aortic and venous endothelial cells. <i>Toxicology in Vitro</i> , 2015, 29, 426-437.	1.1	64
22	Enhanced self-cleaning properties of N-doped TiO_2 coating for Cultural Heritage. <i>Microchemical Journal</i> , 2017, 133, 1-12.	2.3	61
23	The Raman spectrum of diopside: a comparison between ab initio calculated and experimentally measured frequencies. <i>European Journal of Mineralogy</i> , 2012, 24, 457-464.	0.4	60
24	Synthesis and characterization of photocatalytic hydrophobic hybrid TiO_2 - SiO_2 coatings for building applications. <i>Building and Environment</i> , 2017, 111, 72-79.	3.0	60
25	Hydroxy- and fluorapatite films on Ti alloy substrates: Sol-gel preparation and characterization. <i>Journal of Materials Science</i> , 2001, 36, 3253-3260.	1.7	58
26	A study of medieval illuminated manuscripts by means of portable Raman equipments. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 1012-1018.	1.2	55
27	WO_3 thin films by sol-gel for electrochromic applications. <i>Journal of Non-Crystalline Solids</i> , 2004, 345-346, 500-504.	1.5	52
28	Micro-Raman study of copper hydroxychlorides and other corrosion products of bronze samples mimicking archaeological coins. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1451-1457.	1.9	52
29	Characterization of colorants and opacifiers in roman glass mosaic tesserae through spectroscopic and spectrometric techniques. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 238-245.	1.2	50
30	Analysis of artist's palette on a 16th century wood panel painting by portable and laboratory Raman instruments. <i>Vibrational Spectroscopy</i> , 2016, 85, 62-70.	1.2	49
31	A micro-Raman study of iron-titanium oxides obtained by sol-gel synthesis. <i>Journal of Materials Science</i> , 2000, 35, 4301-4305.	1.7	46
32	New insight on the interaction of diammonium hydrogenphosphate conservation treatment with carbonatic substrates: A multi-analytical approach. <i>Microchemical Journal</i> , 2016, 127, 79-86.	2.3	45
33	Raman microspectrometric investigation of wall paintings in S. Giovanni Evangelista Abbey in Parma: a comparison between two artists of the 16th century. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 2409-2417.	2.0	44
34	Raman spectroscopy of $(\text{Ca},\text{Mg})\text{MgSi}_2\text{O}_6$ clinopyroxenes. <i>American Mineralogist</i> , 2012, 97, 1339-1347.	0.9	44
35	A comparison between ab initio calculated and measured Raman spectrum of triclinic albite ($\text{NaAlSi}_3\text{O}_8$). <i>Journal of Raman Spectroscopy</i> , 2015, 46, 501-508.	1.2	42
36	Raman scattering study of residual strain in GaAs/InP heterostructures. <i>Journal of Applied Physics</i> , 1994, 75, 4156-4160.	1.1	41

#	ARTICLE	IF	CITATIONS
37	Plagioclase composition by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 684-698.	1.2	41
38	Photo-induced birefringence in DR1-doped sol-gel silica and ORMOSILs thin films. <i>Optical Materials</i> , 2000, 15, 175-180.	1.7	40
39	Confinement effects on the LO-phonons in CdSe-doped glasses. <i>Physica Status Solidi (B): Basic Research</i> , 1992, 174, 575-582.	0.7	39
40	A comparison of the raman spectra of ZnGa ₂ Se ₄ and other gallium defect chalcopyrites. <i>Solid State Communications</i> , 1983, 46, 681-684.	0.9	38
41	Micro-Raman spectroscopy and ancient ceramics: applications and problems. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1244-1250.	1.2	38
42	XAFS characterization of the structural site of Yb in synthetic pyrope and grossular garnets. <i>Physics and Chemistry of Minerals</i> , 1999, 26, 251-256.	0.3	37
43	Nanocrystalline TiO ₂ by sol-gel: Characterisation and photocatalytic activity on Modica and Comiso stones. <i>Applied Surface Science</i> , 2013, 282, 165-173.	3.1	37
44	An integrated multi-analytical approach to the study of the dome wall paintings by Correggio in Parma cathedral. <i>Microchemical Journal</i> , 2014, 114, 80-88.	2.3	37
45	Synthesis and characterization of nanocrystalline TiO ₂ with application as photoactive coating on stones. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13264-13277.	2.7	37
46	In situ decoration of laser-scribed graphene with TiO ₂ nanoparticles for scalable high-performance micro-supercapacitors. <i>Carbon</i> , 2021, 176, 296-306.	5.4	37
47	A Raman study of Bi ₄ (Ge _x Si _{1-x}) ₃ O ₁₂ crystals. <i>Solid State Communications</i> , 1995, 93, 143-146.	0.9	35
48	Raman scattering of the ordered-vacancy compound CdGa ₂ Se ₄ . <i>Journal of Physics C: Solid State Physics</i> , 1979, 12, 3603-3614.	1.5	34
49	Extended x-ray-absorption fine-structure Debye-Waller factors and vibrational density of states in amorphous arsenic. <i>Physical Review B</i> , 1987, 35, 1236-1241.	1.1	33
50	Nondestructive investigation on the 17 th -18 th centuries Sicilian jewelry collection at the Messina regional museum using mobile Raman equipment. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 989-995.	1.2	33
51	Ternary and pseudoternary AB ₂ X ₄ compounds (A = Zn, Cd; B = Ga, In; X = S, Se). <i>Materials Chemistry and Physics</i> , 1984, 11, 65-83.	2.0	32
52	Characterization of emeralds by micro-Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1293-1300.	1.2	32
53	Physical-chemical properties and metal budget of Au-transporting hydrothermal fluids in orogenic deposits. <i>Geological Society Special Publication</i> , 2014, 402, 71-102.	0.8	32
54	A combined use of optical microscopy, X-ray powder diffraction and micro-Raman spectroscopy for the characterization of ancient ceramic from Ebla (Syria). <i>Ceramics International</i> , 2014, 40, 16409-16419.	2.3	32

#	ARTICLE	IF	CITATIONS
55	Pigments and binders in "Madonna col Bambino e S. Giovannino" by Botticelli investigated by micro-Raman and GC/MS. <i>Journal of Cultural Heritage</i> , 2008, 9, 97-102.	1.5	31
56	Micro-Raman spectroscopy on polyethylene-glycol assisted sol-gel meso and macroporous WO ₃ thin films for electrochromic applications. <i>Thin Solid Films</i> , 2008, 516, 4128-4132.	0.8	31
57	The Nature of the Pigments in Corals and Pearls: A Contribution from Raman Spectroscopy. <i>Spectroscopy Letters</i> , 2011, 44, 453-458.	0.5	31
58	Raman spectroscopy as a PAT for pharmaceutical blending: Advantages and disadvantages. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 149, 329-334.	1.4	31
59	Nanocrystalline γ -Fe ₂ O ₃ sol-gel thin films: a microstructural study. <i>Journal of Non-Crystalline Solids</i> , 1995, 192-193, 435-438.	1.5	30
60	X-ray absorption spectroscopy study of crystallization processes in sol-gel-derived TiO ₂ . <i>Journal of Non-Crystalline Solids</i> , 1995, 192-193, 519-523.	1.5	29
61	Multi-technique investigation of archaeological pottery from Parma (Italy). <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1556-1561.	1.2	29
62	Ag-functionalized nanocrystalline cellulose for paper preservation and strengthening. <i>Carbohydrate Polymers</i> , 2020, 231, 115773.	5.1	29
63	A Raman Scattering Study of PbTiO ₃ and TiO ₂ Obtained by Sol-Gel. <i>Journal of Sol-Gel Science and Technology</i> , 1998, 13, 849-853.	1.1	28
64	Fe ₂ O ₃ films for $\lambda/3$ optics: Raman and XAS characterization. <i>Optical Materials</i> , 1998, 9, 368-372.	1.7	28
65	Holographic gratings in DR1-doped sol-gel silica and ORMOSILs thin films. <i>Optical Materials</i> , 2001, 15, 279-284.	1.7	28
66	Hybrid sol-gel based coatings for the protection of historical window glass. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 66, 253-263.	1.1	28
67	Nanocrystalline TiO ₂ coatings by sol-gel: photocatalytic activity on Pietra di Noto biocalcarene. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 141-151.	1.1	28
68	Raman study of Bi ₂ O ₃ -GeO ₂ -SiO ₂ glasses. <i>Journal of Non-Crystalline Solids</i> , 1995, 192-193, 258-262.	1.5	27
69	A portable versus micro-Raman equipment comparison for gemmological purposes: the case of sapphires and their imitations. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1309-1317.	1.2	27
70	A connection between Raman intensities and EXAFS Debye-Waller factors in amorphous solids. <i>Solid State Communications</i> , 1980, 35, 565-567.	0.9	26
71	Phase transformations in sol-gel prepared PbTiO ₃ . <i>Journal of Materials Science</i> , 1996, 31, 3153-3157.	1.7	26
72	Structural and Electrical Properties of Sol-Gel-processed CdTiO ₃ Powders and Films. , 1997, 11, 137-146.		26

#	ARTICLE	IF	CITATIONS
73	Micro-Raman monitoring of solvent-free TEOS hydrolysis. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 495-498.	1.5	26
74	Technological fingerprints of Black-Gloss Ware from Motya (Western Sicily, Italy). <i>Applied Clay Science</i> , 2014, 88-89, 202-213.	2.6	26
75	Characterization of alteration phases on Potash-Lime-Silica glass. <i>Corrosion Science</i> , 2014, 80, 434-441.	3.0	26
76	A Multi-Analytical Approach to the Study of the Mural Paintings in the Presbytery of Santa Maria Antiqua Al Foro Romano in Rome. <i>Archaeometry</i> , 2017, 59, 1050-1064.	0.6	26
77	Single-crystal X-ray and Raman investigation on melanophlogite from Varano Marchesi (Parma, Italy). <i>American Mineralogist</i> , 2008, 93, 88-94.	0.9	25
78	Characterization of archeological glasses by micro-Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1682-1687.	1.2	25
79	Micro-Raman investigation of pigments and carbonate phases in corals and molluscan shells. <i>European Journal of Mineralogy</i> , 2014, 25, 845-853.	0.4	25
80	Raman spectroscopy of $\text{CaMg}_2\text{Ge}_2\text{O}_6$ (Mg^{2+} = Mg , Mn). <i>Tj ETQg 0 0 rgBT</i>	1.2	25
81	On the lattice dynamics of some defective gallium ternary compounds. <i>Journal of Physics C: Solid State Physics</i> , 1983, 16, 3449-3456.	1.5	24
82	Structure and lattice dynamics of nonmagnetic defective AlIBIII2XIV4 compounds and alloys. <i>Progress in Crystal Growth and Characterization</i> , 1987, 15, 43-73.	0.8	24
83	Structural changes induced by the catalyst in hybrid sol-gel films: a micro-Raman investigation. <i>Materials Letters</i> , 2001, 51, 208-212.	1.3	24
84	Pigments and binders in the wall paintings of Santa Maria della Steccata in Parma (Italy): the ultimate technique of Parmigianino. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 694-703.	1.2	24
85	OctTES/TEOS system for hybrid coatings: real-time monitoring of the hydrolysis and condensation by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 699-705.	1.2	24
86	Weathering resistance of PMMA/SiO ₂ /ZrO ₂ hybrid coatings for sandstone conservation. <i>Polymer Degradation and Stability</i> , 2018, 147, 274-283.	2.7	24
87	EXAFS investigations of the coordination state of germanium in $x\text{Bi}_2\text{O}_3 \cdot (100 - x)\text{GeO}_2$ glasses. <i>Journal of Non-Crystalline Solids</i> , 1993, 159, 173-183.	1.5	23
88	Vitreous tesserae from the calidarium mosaics of the Villa dei Quintili, Rome. Chemical composition and production technology. <i>Microchemical Journal</i> , 2016, 124, 726-735.	2.3	23
89	Oblique phonon Raman scattering in CdGa_2Se_4 . <i>Journal of Physics C: Solid State Physics</i> , 1982, 15, 5657-5665.	1.5	22
90	Raman modes in Pbca enstatite ($\text{Mg}_2\text{Si}_2\text{O}_6$): an assignment by quantum mechanical calculation to interpret experimental results. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1247-1258.	1.2	22

#	ARTICLE	IF	CITATIONS
91	Photocatalytic self-cleaning TiO ₂ coatings on carbonatic stones. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	22
92	XANES study of titanium coordination in natural diopsidic pyroxenes. European Journal of Mineralogy, 1993, 5, 1101-1110.	0.4	22
93	The key role of micro-Raman spectroscopy in the study of ancient pottery: the case of pre-classical Jordanian ceramics from the archaeological site of Khirbet al-Batrawy. European Journal of Mineralogy, 2014, 25, 881-893.	0.4	21
94	Darkening of lead- and iron-based pigments on late Gothic Italian wall paintings: Energy dispersive X-ray fluorescence, Raman, and powder X-ray diffraction analyses for diagnosis: Presence of PbO (plattnerite) and PbO (scrutinyite). Journal of Raman Spectroscopy, 2020, 51, 680-692.	1.2	21
95	A Raman Study of Compositional Disorder in Defect Chalcopyrites. Physica Status Solidi (B): Basic Research, 1983, 118, 743-749.	0.7	20
96	Crystallization processes from amorphous PbTiO ₃ powders prepared by the sol-gel method. Journal of Non-Crystalline Solids, 1995, 192-193, 490-493.	1.5	20
97	Structural and vibrational characterization of medieval like glass samples. Journal of Non-Crystalline Solids, 2012, 358, 814-819.	1.5	20
98	Characterization and photocatalytic activity of TiO ₂ by sol-gel in acid and basic environments. Journal of Sol-Gel Science and Technology, 2015, 73, 91-102.	1.1	20
99	Raman study of model glass with medieval compositions: artificial weathering and comparison with ancient samples. Journal of Raman Spectroscopy, 2012, 43, 1817-1823.	1.2	19
100	The use of polyamidoamines for the conservation of iron-gall inked paper. Cellulose, 2019, 26, 1277-1296.	2.4	19
101	The structure of the defect chalcopyrite ZnGa ₂ Se ₄ studied by EXAFS. Physica Status Solidi (B): Basic Research, 1989, 152, 39-49.	0.7	18
102	IR and EXAFS analysis of xBi ₂ O ₃ · (1 - x)GeO ₂ glasses. Journal of Non-Crystalline Solids, 1994, 177, 170-178.	1.5	18
103	Synthesis and structural characterization of mesoporous V ₂ O ₅ thin films for electrochromic applications. Thin Solid Films, 2006, 515, 1500-1505.	0.8	18
104	Red gemstone characterization by micro-Raman spectroscopy: the case of rubies and their imitations. Journal of Raman Spectroscopy, 2016, 47, 1534-1539.	1.2	18
105	Raman Investigation of Precious Jewelry Collections Preserved in Paolo Orsi Regional Museum (Siracusa, Sicily) Using Portable Equipment. Applied Spectroscopy, 2016, 70, 1420-1431.	1.2	18
106	Raman Scattering in Defective AlB ₂ IV Compounds and Alloys. Japanese Journal of Applied Physics, 1993, 32, 431.	0.8	17
107	Raman Study of the Polymerization Processes in Trimethoxysilylpropyl Methacrylate (TMSPM). Journal of Raman Spectroscopy, 1999, 30, 1043-1047.	1.2	17
108	Photorefractive gratings in DR1-doped hybrid sol-gel films. Optical Materials, 2004, 25, 419-423.	1.7	17

#	ARTICLE	IF	CITATIONS
109	Micro-Raman study of indium doped zirconia obtained by sol-gel. Journal of Non-Crystalline Solids, 2004, 345-346, 116-119.	1.5	17
110	Thermal nonlinear refraction in the dye-doped sol-gel $x\text{TiO}_2 \cdot (100-x)\text{SiO}_2$ system. Optical Materials, 1999, 12, 447-452.	1.7	16
111	Spectroscopic study of the degradation products in the holy water fonts in Santa Maria della Steccata Church in Parma (Italy). Analytica Chimica Acta, 2008, 610, 74-79.	2.6	16
112	A calibrated database of Raman spectra for natural silicate glasses: implications for modelling melt physical properties. Journal of Raman Spectroscopy, 2020, 51, 1822-1838.	1.2	16
113	Raman scattering in defect chalcopyrite crystals. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1983, 2, 2050-2057.	0.4	15
114	An EXAFS study of the local structure around Zr atoms in Y_2O_3 -stabilized ZrO_2 by the sol-gel method. Journal of Non-Crystalline Solids, 1994, 177, 179-186.	1.5	15
115	Coordination changes in telluro-vanadate glasses containing ZnO or CdO. Journal of Non-Crystalline Solids, 1998, 232-234, 293-299.	1.5	15
116	Bio-inspired consolidants derived from crystalline nanocellulose for decayed wood. Carbohydrate Polymers, 2018, 202, 164-171.	5.1	15
117	Polarization analysis of the Raman spectrum of As_2S_3 crystals. Solid State Communications, 1979, 29, 361-364.	0.9	14
118	Temperature dependence of EXAFS in amorphous arsenic. Solid State Communications, 1982, 43, 561-565.	0.9	14
119	Effects of Group III Cation Substitution in the Raman Spectra of Some Defective Chalcopyrites. Crystal Research and Technology, 1992, 27, 685-690.	0.6	14
120	Raman scattering of strained GaAs layers grown by MOVPE on InP (111) A and B. Solid State Communications, 1994, 90, 291-294.	0.9	14
121	Sol-gel preparation and raman characterization of CdTiO_3 . Journal of Sol-Gel Science and Technology, 1997, 8, 337-342.	1.1	14
122	An integrated Raman and petrographic characterization of Italian mediaeval artifacts in <i>pietra ollare</i> (soapstone). Journal of Raman Spectroscopy, 2014, 45, 114-122.	1.2	14
123	X-ray absorption study at the Fe K-edge of garnets from the Ivrea-Verbano zone. Mineralogical Magazine, 1993, 57, 249-255.	0.6	14
124	X-ray absorption study of titanium coordination in sol-gel derived TiO_2 . Physica B: Condensed Matter, 1995, 208-209, 607-608.	1.3	13
125	Is Khirbet Kerak Ware from Khirbet al-Batrawy (Jordan) local or imported pottery?. Analytical Methods, 2013, 5, 6622.	1.3	13
126	Raman and structural comparison between the new gemstone pezzottaite $\text{Cs}(\text{Be}_{2/3}\text{Li})\text{Al}_2\text{Si}_6\text{O}_{18}$ and Cs -beryl. Journal of Raman Spectroscopy, 2014, 45, 993-999.	1.2	13

#	ARTICLE	IF	CITATIONS
127	High-pressure Raman spectroscopy of $\text{Ca}(\text{Mg},\text{Co})\text{Si}_2\text{O}_6$ and $\text{Ca}(\text{Mg},\text{Co})\text{Ge}_2\text{O}_6$ clinopyroxenes. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1443-1448.	1.2	13
128	Raman Spectrum of ZnIn_2S_4 . <i>Physica Status Solidi (B): Basic Research</i> , 1980, 100, K23.	0.7	12
129	Preparation and Raman spectroscopy of $\text{Zn}_x\text{Cd}_{1-x}\text{In}_2\text{S}_4$ mixed cation layered compounds. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1983, 2, 2044-2049.	0.4	12
130	Temperature dependence of extended x-ray absorption fine structure in the high- T_c superconducting system Bi-Ca-Sr-Cu-O . <i>Physica C: Superconductivity and Its Applications</i> , 1988, 152, 468-474.	0.6	12
131	Raman spectroscopy of $\text{CaCoSi}_2\text{O}_6$ – $\text{Co}_2\text{Si}_2\text{O}_6$ clinopyroxenes. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 179-189.	0.3	12
132	Raman and NMR kinetics study of the formation of amidoamines containing N-hydroxyethyl groups and investigations on their $\text{Cu}(\text{II})$ complexes in water. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 171, 515-524.	2.0	12
133	Efficiency assessment of hybrid coatings for natural building stones: Advanced and multi-scale laboratory investigation. <i>Construction and Building Materials</i> , 2018, 180, 412-424.	3.2	12
134	A MREI Model for Zincblende-Like Phonons in $\text{CdGa}_2(\text{S}_x\text{Se}_{1-x})_4$ Mixed Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1985, 129, 539-548.	0.7	11
135	EXAFS in $\text{Zn}_x\text{Cd}_{1-x}\text{Ga}_2\text{S}_4$ Defect Chalcopyrite Solid Solution. <i>Physica Status Solidi (B): Basic Research</i> , 1988, 145, 401-407.	0.7	11
136	Effective bond-stretching force constants in chalcopyrite CuGaSe_2 by temperature dependence of extended x-ray-absorption fine-structure spectra. <i>Physical Review B</i> , 1988, 37, 9017-9021.	1.1	11
137	Ordered-vacancy compound semiconductors: An exafs study of the structure of $\text{In}_2\text{CdIn}_2\text{Se}_4$. <i>Journal of Physics and Chemistry of Solids</i> , 1989, 50, 967-973.	1.9	11
138	Crystallization of Gel-Derived Glassy TiO_2 : A Raman Study. <i>Physica Status Solidi (B): Basic Research</i> , 1992, 170, K5.	0.7	11
139	Effects of the Cations on the Raman Spectra of Sulphur Defect Chalcopyrites. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 561.	0.8	11
140	A temperature dependent X-ray Absorption Fine Structure study of dynamic X-site disorder in almandine: a comparison to diffraction data. <i>Physics and Chemistry of Minerals</i> , 1997, 24, 200-205.	0.3	11
141	Raman investigation of protonation of DR1 molecules in silica or ORMOSILs matrices by the sol-gel technique. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 555-558.	1.2	11
142	Composition of Amphiboles in the Tremolite–Ferro–Actinolite Series by Raman Spectroscopy. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 491.	0.8	11
143	On the layered phases in $\text{Zn}_x\text{Cd}_{1-x}\text{In}_2\text{S}_4$, $\text{ZnIn}_2\text{Ga}_2(1-x)\text{S}_4$ and $\text{CdIn}_2\text{Ga}_2(1-x)\text{S}_4$ systems. <i>Materials Chemistry and Physics</i> , 1983, 9, 87-92.	2.0	10
144	Effective ionic charges in CdGa_2Se_4 and CdGa_2S_4 . <i>Solid State Communications</i> , 1984, 51, 691-695.	0.9	10

#	ARTICLE	IF	CITATIONS
145	Local order in sol-gel derived glassy TiO ₂ . Nuclear Instruments & Methods in Physics Research B, 1995, 97, 198-201.	0.6	10
146	Polarization holographic gratings in hybrid solgel films doped with Disperse Red 1. Optics Letters, 2003, 28, 2240.	1.7	10
147	Photoinduced effects in hybrid sol-gel materials. Journal of Sol-Gel Science and Technology, 2006, 37, 201-206.	1.1	10
148	Raman Investigation on Pigeonite in Ureilite. Spectroscopy Letters, 2011, 44, 480-485.	0.5	10
149	High-pressure Raman spectroscopy on low albite. Physics and Chemistry of Minerals, 2017, 44, 213-220.	0.3	10
150	Photocatalytic N-doped TiO ₂ for self-cleaning of limestones. European Physical Journal Plus, 2019, 134, 1.	1.2	10
151	Exposure to nanoparticles derived from diesel particulate filter equipped engine increases vulnerability to arrhythmia in rat hearts. Environmental Pollution, 2021, 284, 117163.	3.7	10
152	Raman scattering in mixed defect chalcopyrite crystals. Journal of Molecular Structure, 1984, 115, 133-136.	1.8	9
153	Raman spectroscopy in AB ₂ X ₄ pseudoternary layered compounds. Journal of Molecular Structure, 1984, 115, 153-156.	1.8	9
154	Bond strengths in defect chalcopyrite ZnGa ₂ Se ₄ by temperature dependence of EXAFS. Journal of Physics and Chemistry of Solids, 1988, 49, 1057-1061.	1.9	9
155	Chemical-physical characterization of ancient paper with functionalized polyamidoamines (PAAs). Cellulose, 2017, 24, 1057-1068.	2.4	9
156	Facile preparation of functionalized poly(amidoamine)s with biocidal activity on wood substrates. European Polymer Journal, 2019, 116, 232-241.	2.6	9
157	Super-adsorbent polyacrylate under swelling in water for passive solar control of building envelope. SN Applied Sciences, 2020, 2, 1.	1.5	9
158	Use of Temperature Controlled Stage Confocal Raman Microscopy to Study Phase Transition of Lead Dioxide (Plattnerite). Minerals (Basel, Switzerland), 2020, 10, 468.	0.8	9
159	Raman scattering in (111) strained heterostructures. Microelectronics Journal, 1995, 26, 797-804.	1.1	8
160	EXAFS at the BiLIII edge in Bi ₄ Ge ₃ O ₁₂ and in xBi ₂ O ₃ -(100-x)GeO ₂ glasses. Journal of Non-Crystalline Solids, 1998, 224, 23-30.	1.5	8
161	Characterization of HVPE GaN layers by atomic force microscopy and Raman spectroscopy. Semiconductor Science and Technology, 2001, 16, 776-782.	1.0	8
162	Chromophore aggregation and photoinduced dichroism in sol-gel films. Journal of Non-Crystalline Solids, 2008, 354, 688-692.	1.5	8

#	ARTICLE	IF	CITATIONS
163	Cathodoluminescence and micro-Raman characterisation of GaN/AlN QDs grown on Si (111). <i>Physica Status Solidi A</i> , 2003, 195, 26-31.	1.7	7
164	Modeling and experimental study of photoinduced anisotropy in hybrid sol-gel films. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 504.	0.9	7
165	Raman and micro-thermometric investigation of the fluid inclusions in quartz in a gold-rich formation from Lepaguare mining district (Honduras, Central America). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 73, 443-449.	2.0	7
166	Al ³⁺ Si ⁴⁺ ordering in albite: A combined single-crystal X-ray diffraction and Raman spectroscopy study. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 2028-2035.	1.2	7
167	Some features of the Resonant Raman Scattering by LO phonons. <i>Solid State Communications</i> , 1978, 25, 427-430.	0.9	6
168	Raman investigation of lattice dynamics of pseudoternary mixed crystals. <i>Progress in Crystal Growth and Characterization</i> , 1984, 10, 289-296.	0.8	6
169	Synthesis and characterization of the ZnxCd1-xIn2S4 pseudoternary solid solution. <i>Journal of Solid State Chemistry</i> , 1987, 69, 289-298.	1.4	6
170	Synthesis and Characterization of the Layered Compounds in the ZnIn ₂ S ₄ -ZnIn ₂ Se ₄ System. <i>Physica Status Solidi (B): Basic Research</i> , 1992, 173, 525-531.	0.7	6
171	Nanocrystalline sol-gel prepared titania films by Raman, FTIR, XRD, and atomic force microscopy. , 2001, 4469, 70.		6
172	Photoinduced dichroism in dye-doped hybrid sol-gel films. <i>Optical Materials</i> , 2006, 28, 909-912.	1.7	6
173	Photodegradation of Pharmaceutical Pollutants: New Photocatalytic Systems Based on 3D Printed Scaffold-Supported Ag/TiO ₂ Nanocomposite. <i>Catalysts</i> , 2022, 12, 580.	1.6	6
174	Comments on the Optic Vibrational Modes in Defect Chalcopyrites. <i>Physica Status Solidi (B): Basic Research</i> , 1984, 125, K7.	0.7	5
175	Raman Scattering in ZnSi ₂ In ₂ S ₃ Layered Compounds. <i>Physica Status Solidi (B): Basic Research</i> , 1993, 177, 525-532.	0.7	5
176	Morphological characterization and strain release of GaAs/InAs (001) heterostructures. <i>Applied Physics Letters</i> , 1996, 69, 957-959.	1.5	5
177	Restoration of a Parmigianino's fresco: a micro-Raman investigation of the pictorial surface. , 2001, , .		5
178	A Study of the External Coloration of Historic Buildings in Parma (Italy) and Surroundings by Micro-Raman Technique. <i>Studies in Conservation</i> , 2002, 47, 24.	0.6	5
179	Wide-field polarimetric analysis of photoinduced birefringence in azo-dye-doped thin films: irradiance and time dependence. <i>Applied Physics B: Lasers and Optics</i> , 2007, 86, 687-692.	1.1	5
180	An investigation of photoinduced birefringence in Disperse Red 1-polymethylmethacrylate films by polariscopic imaging. <i>Thin Solid Films</i> , 2008, 516, 8462-8467.	0.8	5

#	ARTICLE	IF	CITATIONS
181	Micro-Raman Determination of the Composition of Ugrandite Garnets. , 2009, , .		5
182	High-pressure Raman study of CH ₄ in melanophlogite (type I clathrate). Mineralogical Magazine, 2014, 78, 1661-1669.	0.6	5
183	Structural investigation of N,N- ϵ -methylenebisacrylamide via X-ray diffraction assisted by crystal structure prediction. Journal of Applied Crystallography, 2015, 48, 550-557.	1.9	5
184	Green Extraction of Cellulose Nanocrystals of Polymorph II from <i>Cynara scolymus</i> L.: Challenge for a "Zero Waste" Economy. Crystals, 2022, 12, 672.	1.0	5
185	Resonant Raman Scattering in As ₂ S ₃ Amorphous Thin Films. Physica Status Solidi (B): Basic Research, 1978, 87, 479-483.	0.7	4
186	Resonance effects in the Raman spectrum of CdGa ₂ Se ₄ . Physica Status Solidi (B): Basic Research, 1986, 134, 81-86.	0.7	4
187	A MREI Model for the Zincblende-Like Phonons in the Mixed Defect Chalcopyrite ZnGa ₂ (S _x Se _{1-x}) ₄ . Physica Status Solidi (B): Basic Research, 1988, 146, 503-510.	0.7	4
188	Breathing-Like A _g Symmetry Vibrations in ZnGa ₂ (S _x Se _{1-x}) ₄ and CdGa ₂ (S _x Se _{1-x}) ₄ . Physica Status Solidi (B): Basic Research, 1989, 154, K117.	0.7	4
189	Silica-based photorefractive sol-gel films for holography. Journal of Non-Crystalline Solids, 2004, 345-346, 428-432.	1.5	4
190	Multi-scale laboratory routine in the efficacy assessment of conservative products for natural stones. MethodsX, 2018, 5, 1095-1101.	0.7	4
191	⁵⁷ Fe-Mössbauer investigation on garnets from the Ivrea-Verbano Zone. Mineralogical Magazine, 1993, 57, 671-676.	0.6	4
192	On the Optic Vibrational Modes in Amorphous Arsenic. Physica Status Solidi (B): Basic Research, 1984, 122, 431-434.	0.7	3
193	Phonon and Fraction Dynamics in Amorphous Arsenic. Physica Status Solidi (B): Basic Research, 1988, 146, K81.	0.7	3
194	An EXAFS study of the effective interactions between third neighbours in chalcopyrite CuGaSe ₂ . Journal of Physics and Chemistry of Solids, 1988, 49, 1459-1464.	1.9	3
195	Temperature dependence of EXAFS and effective interactions in CuGaSe ₂ and ZnGa ₂ Se ₄ . Physica B: Condensed Matter, 1989, 158, 517-518.	1.3	3
196	A comprehensive study of the magnetic properties of the pyroxenes series CaMgSi ₂ O ₆ -Co ₂ Si ₂ O ₆ as a function of Co content. Journal of Physics Condensed Matter, 2018, 30, 285801.	0.7	3
197	Experimental and calculated Raman spectra in Ca-Zn pyroxenes and a comparison between (Ca _x M _{2-1x})M ₂ Si ₂ O ₆ pyroxenes (M = Mg, Co, Zn, Fe ²⁺). Physics and Chemistry of Minerals, 2019, 46, 827-837.	0.6	3
198	Resonant Raman scattering in thallium chloride: simple model calculations. Solid State Communications, 1975, 16, 457-460.	0.9	2

#	ARTICLE	IF	CITATIONS
199	Defective Pseudoternary Alloys The CdGa ₂ Se ₄ -CdIn ₂ Se ₄ System. <i>Physica Status Solidi A</i> , 1989, 111, 411-416.	1.7	2
200	Ga ^{II} -Se bond lengths and EXAFS phase-shifts in tetrahedrally coordinated compounds. <i>Solid State Communications</i> , 1990, 74, 313-317.	0.9	2
201	A Raman study of the strain in InP/GaAs heterostructures grown by MOVPE. <i>Superlattices and Microstructures</i> , 1995, 17, 107-110.	1.4	2
202	Raman scattering characterization of strained layers grown by MOVPE. <i>Solid State Communications</i> , 1996, 99, 537-540.	0.9	2
203	Photoinduced optical retardation in mesostructured dye-doped films investigated by an imaging pump-probe technique. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 384.	0.9	2
204	The effect of water on particle size, porosity and the rate of drug release from implanted titania reservoirs. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 93B, 401-406.	1.6	2
205	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
206	Measuring Weathering and Nanoparticle Coating Impact on Surface Roughness of Natural Stones. <i>Studies in Conservation</i> , 2019, 64, 298-309.	0.6	2
207	Toxic metal sequential sequestration in water using new amido-aminoacid ligand as a model for the interaction with polyamidoamines. <i>Journal of Hazardous Materials</i> , 2021, 410, 124585.	6.5	2
208	EXAFS in Mixed Defect Chalcopyrite ZnGa ₂ (S _x Se _{1-x}) ₄ . <i>Springer Proceedings in Physics</i> , 1984, , 355-357.	0.1	2
209	THE LOCAL STRUCTURE IN THE MIXED CHALCOPYRITE CuGa _x In _{1-x} Se ₂ . <i>Journal De Physique Colloque</i> , 1986, 47, C8-431-C8-434.	0.2	2
210	A Study on Correggio Wall Paintings: Characterization of Technique and Materials of Abbey Church of S. Giovanni Evangelista in Parma, Italy. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4810.	1.3	2
211	Polaron effects in exciton mediated resonant Raman scattering. <i>Solid State Communications</i> , 1976, 19, 1137-1140.	0.9	1
212	An EXAFS study of the structure of the chalcopyrite CuGaSe ₂ and of the defect chalcopyrite ZnGa ₂ Se ₄ . <i>Physica B: Condensed Matter</i> , 1989, 158, 501.	1.3	1
213	A Study of the Second and Third Neighbour Structure in Chalcopyrite CuGaSe ₂ by EXAFS. <i>Physica Status Solidi (B): Basic Research</i> , 1989, 154, 461-468.	0.7	1
214	EXAFS and Effective Bond Strengths in the Defective Chalcopyrite ZnGa ₂ S ₄ . <i>Physica Status Solidi (B): Basic Research</i> , 1991, 168, K85.	0.7	1
215	Metal-organic vapour phase epitaxy growth and Raman characterization of (111) A and B oriented GaAs/InP heterostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1994, 28, 164-168.	1.7	1
216	Raman scattering in GaAs/GaP strained heterostructures grown by MOVPE. <i>Solid State Communications</i> , 1994, 91, 599-602.	0.9	1

#	ARTICLE	IF	CITATIONS
217	Thin films for nonlinear optics: sol-gel preparation, Raman and XAS characterization of Fe_2O_3 . , 1998, 3359, 334.		1
218	Polariscopic imaging and vibrational characterization of hybrid films for packaging. Packaging Technology and Science, 2008, 21, 329-338.	1.3	1
219	Analysis of photoinduced birefringence in azo-dye doped films by a fast imaging technique. Thin Solid Films, 2010, 518, 4960-4963.	0.8	1
220	Raman And SEM Characterization Of Sol-Gel Derived Nanofibers Of Tungsten Oxide. , 2010, , .		1
221	Micro-Raman spectroscopy to investigate production techniques: A focus on fine ware potteries. Journal of Raman Spectroscopy, 2021, 52, 199-207.	1.2	1
222	Investigation on Painting Materials in "Madonna col Bambino e S. Giovannino" by Botticelli. , 2007, , 383-390.		1
223	Synthesis and Raman Characterization of Some Selenium Defect Chalcopyrite Alloys. Japanese Journal of Applied Physics, 1993, 32, 564.	0.8	1
224	Phase Development in Sol-Gel Derived Lead Titanate : A XAS Study. European Physical Journal Special Topics, 1997, 7, C2-1161-C2-1162.	0.2	1
225	Temperature Dependence of Disorder and Correlation Effects in the Almandine X-Site. European Physical Journal Special Topics, 1997, 7, C2-1157-C2-1158.	0.2	1
226	A classical Kubo formula with velocity-dependent forces. Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica, 1974, 10, 541-544.	0.4	0
227	Momentum autocorrelation functions from classical Green's functions. American Journal of Physics, 1978, 46, 507-508.	0.3	0
228	<title>Holographic gratings in hybrid sol-gel films</title>. , 2003, , .		0
229	<title>Polarization gratings in sol-gel thin films investigated through the moving grating technique</title>. , 2006, 6252, 543.		0
230	XAS analysis on mesoporous vanadium oxide thin films by sol-gel. X-Ray Spectrometry, 2007, 36, 226-229.	0.9	0
231	Raman Investigation Of Nanostructured Titania For Drug Delivery. , 2010, , .		0
232	Raman Investigation On 18th Century Painted Wooden Sculptures. , 2010, , .		0
233	Hybrid sol-gel films for holographic applications. , 2003, , 307-316.		0
234	CHAPTER 10. Micro-Raman and Provenance Studies: The Case of Levantine Ceramics. , 2018, , 141-156.		0