

Ph Colomban

List of Publications by Year in descending order

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471
papers

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11610
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman Spectroscopy of nanomaterials: How spectra relate to disorder, particle size and mechanical properties. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2007, 53, 1-56.	4.0	865
2	Raman scattering and lattice defects in nanocrystalline CeO ₂ thin films. <i>Solid State Ionics</i> , 2002, 149, 99-105.	2.7	496
3	Nanostructure of Nafion [®] membranes at different states of hydration. <i>Vibrational Spectroscopy</i> , 2001, 26, 215-225.	2.2	341
4	Raman identification of natural red to yellow pigments: ochre and iron-containing ores. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 560-568.	2.5	255
5	Raman identification of glassy silicates used in ceramics, glass and jewellery: a tentative differentiation guide. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 841-852.	2.5	232
6	Polymerization degree and Raman identification of ancient glasses used for jewelry, ceramic enamels and mosaics. <i>Journal of Non-Crystalline Solids</i> , 2003, 323, 180-187.	3.1	227
7	Differentiation of antique ceramics from the Raman spectra of their coloured glazes and paintings. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 351-360.	2.5	223
8	Raman Spectroscopy of Nanocrystalline Ceria and Zirconia Thin Films. <i>Journal of the American Ceramic Society</i> , 2002, 85, 2646-2650.	3.8	179
9	Electrical Conductivity and Lattice Defects in Nanocrystalline Cerium Oxide Thin Films. <i>Journal of the American Ceramic Society</i> , 2001, 84, 2007-2014.	3.8	177
10	Proton transfer and superionic conductivity in solids and gels. <i>Journal of Molecular Structure</i> , 1988, 177, 277-308.	3.6	175
11	Raman identification of corrosion products on automotive galvanized steel sheets. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 881-886.	2.5	158
12	Identification and differentiation of ancient and modern European porcelains by Raman macro- and micro-spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 93-102.	2.5	154
13	The on-site/remote Raman analysis with mobile instruments: a review of drawbacks and success in cultural heritage studies and other associated fields. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1529-1535.	2.5	146
14	The Use of Metal Nanoparticles to Produce Yellow, Red and Iridescent Colour, from Bronze Age to Present Times in Lustre Pottery and Glass: <i>Solid State Chemistry, Spectroscopy and Nanostructure. Journal of Nano Research</i> , 0, 8, 109-132.	0.8	143
15	Gel technology in ceramics, glass-ceramics and ceramic-ceramic composites. <i>Ceramics International</i> , 1989, 15, 23-50.	4.8	137
16	Glass corrosion mechanisms: A multiscale analysis. <i>Solid State Ionics</i> , 2008, 179, 2142-2154.	2.7	136
17	Thermally induced phase transformations of 12-tungstophosphoric acid 29-hydrate: synthesis and characterization of PW8O ₂₆ -type bronzes. <i>Journal of Materials Science</i> , 1994, 29, 3705-3718.	3.7	127
18	Relation structure-fast ion conduction in the NASICON solid solution. <i>Journal of Solid State Chemistry</i> , 1988, 73, 160-171.	2.9	126

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19	Orientational disorder, glass/crystal transition and superionic conductivity in nasicon. Solid State Ionics, 1986, 21, 97-115.	2.7	125
20	X-ray-scattering study of the fast-ion conductor α -alumina. Physical Review B, 1980, 22, 5912-5923.	3.2	121
21	Infrared and Raman study of polyaniline Part II: Influence of ortho substituents on hydrogen bonding and UV/Vis near-IR electron charge transfer. Journal of Molecular Structure, 1994, 328, 153-167.	3.6	119
22	Raman signature modification induced by copper nanoparticles in silicate glass. Journal of Raman Spectroscopy, 2005, 36, 884-890.	2.5	117
23	A non-invasive study of Roman Age mosaic glass tesserae by means of Raman spectroscopy. Journal of Archaeological Science, 2009, 36, 2551-2559.	2.4	116
24	Vibrational Study of Short-Range Order and Structure of Polyaniline Bases and Salts. Macromolecules, 1999, 32, 3080-3092.	4.8	113
25	On-site Raman identification and dating of ancient glasses: A review of procedures and tools. Journal of Cultural Heritage, 2008, 9, e55-e60.	3.3	113
26	Structure of oxide gels and glasses by infrared and raman scattering. Journal of Materials Science, 1989, 24, 3002-3010.	3.7	111
27	Nanosize ferrites obtained by ball milling: Crystal structure, cation distribution, size-strain analysis and Raman investigations. Solid State Sciences, 2006, 8, 908-915.	3.2	109
28	Fast ion transport in $\text{LiZr}_2(\text{PO}_4)_3$: Structure and conductivity. Materials Research Bulletin, 1986, 21, 365-371.	5.2	108
29	Equilibrium of the protonic species in hydrates of some heteropolyacids at elevated temperatures. Solid State Ionics, 1991, 46, 103-109.	2.7	107
30	Non-Destructive Determination of the Structure and Composition of Glazes by Raman Spectroscopy. Journal of the American Ceramic Society, 2005, 88, 390-395.	3.8	107
31	On-site Raman analysis of Iznik pottery glazes and pigments. Journal of Raman Spectroscopy, 2004, 35, 527-535.	2.5	106
32	Crystal structure of the true nasicon: $\text{Na}_3\text{Zr}_2\text{Si}_2\text{PO}_{12}$. Materials Research Bulletin, 1987, 22, 669-676.	5.2	100
33	On-site Raman identification and dating of ancient/modern stained glasses at the Sainte-Chapelle, Paris. Journal of Cultural Heritage, 2007, 8, 242-256.	3.3	100
34	Oxide ceramic matrix/oxide fibre woven fabric composites exhibiting dissipative fracture behaviour. Composites, 1995, 26, 175-182.	0.7	98
35	Lapis lazuli as unexpected blue pigment in Iranian <i>Lajvardina</i> ceramics. Journal of Raman Spectroscopy, 2003, 34, 420-423.	2.5	96
36	Nondestructive on-site identification of ancient glasses: genuine artefacts, embellished pieces or forgeries?. Journal of Raman Spectroscopy, 2009, 40, 604-617.	2.5	96

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37	The first <i>in situ</i> Raman spectroscopic study of San rock art in South Africa: procedures and preliminary results. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 399-406.	2.5	96
38	Heteropoly compounds—From proton conductors to biomedical agents. <i>Solid State Ionics</i> , 2005, 176, 3005-3017.	2.7	95
39	Infrared and Raman study of polyaniline Part I. Hydrogen bonding and electronic mobility in emeraldine salts. <i>Journal of Molecular Structure</i> , 1994, 317, 261-271.	3.6	94
40	Latest developments in proton conductors. <i>Annales De Chimie: Science Des Materiaux</i> , 1999, 24, 1-18.	0.4	90
41	Raman study of the microstructure, composition and processing of ancient Vietnamese (proto)porcelains and celadons (13-16th centuries). <i>Journal of Raman Spectroscopy</i> , 2000, 31, 933-942.	2.5	90
42	On-site Raman analysis of Medici porcelain. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 68-72.	2.5	90
43	FTIR spectroscopic semi-quantification of iron phases: A new method to evaluate the protection ability index (PAI) of archaeological artefacts corrosion systems. <i>Corrosion Science</i> , 2018, 133, 68-77.	6.6	86
44	Raman spectrometry, a unique tool to analyze and classify ancient ceramics and glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 167-170.	2.3	85
45	On-site Raman analysis of the earliest known Meissen porcelain and stoneware. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 606-613.	2.5	85
46	Raman intensity: An important tool to study the structure and phase transitions of amorphous/crystalline materials. <i>Optical Materials</i> , 2009, 31, 1759-1763.	3.6	84
47	Vibrational study of and conduction mechanism in γ -alumina. I. Stoichiometric γ -alumina. <i>Journal of Chemical Physics</i> , 1980, 72, 1213-1224.	3.0	83
48	Proton-conducting sol-gel hybrids containing heteropoly acids. <i>Solid State Ionics</i> , 2001, 145, 109-118.	2.7	83
49	Structure of and Interactions between P/SiWA Keggin Nanocrystals Dispersed in an Organically Modified Electrolyte Membrane. <i>Chemistry of Materials</i> , 2000, 12, 3745-3753.	6.7	82
50	Raman identification of materials used for jewellery and mosaics in Ifriqiya. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 205-213.	2.5	82
51	Nanomechanics of single keratin fibres: A Raman study of the α -helix \rightarrow β -sheet transition and the effect of water. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 504-514.	2.5	82
52	Microstructure, composition and processing of 15th century Vietnamese porcelains and celadons. <i>Journal of Cultural Heritage</i> , 2003, 4, 187-197.	3.3	75
53	Non-destructive Raman study of the glazing technique in lustre potteries and faience (9 th -14 th) Tj ETQq1 1 0.784314 rgBT /Overlock 2004, 35, 195-207.	2.5	75
54	Raman spectroscopy of nanostructures and nanosized materials. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 598-603.	2.5	75

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55	Raman Study of the Chemical and Thermal Degradation of As-Received and Sol-Gel Embedded Nicalon and Hi-Nicalon SiC Fibres Used in Ceramic Matrix Composites. <i>Journal of Raman Spectroscopy</i> , 1997, 28, 219-228.	2.5	72
56	Well densified nasicon type ceramics, elaborated using sol-gel process and sintering at low temperatures. <i>Materials Research Bulletin</i> , 1984, 19, 621-631.	5.2	71
57	Raman identification of ancient stained glasses and their degree of deterioration. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 614-626.	2.5	71
58	On-site analysis of <i>Limoges</i> enamels from sixteenth to nineteenth centuries: an attempt to differentiate between genuine artefacts and copies. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1240-1247.	2.5	71
59	γ alumina, a typical solid electrolyte. <i>Journal of Physics and Chemistry of Solids</i> , 1984, 45, 981-1013.	4.0	69
60	Double perovskites with oxygen structural vacancies: Raman spectra, conductivity and water uptake. <i>Solid State Ionics</i> , 2001, 145, 339-347.	2.7	69
61	Phase transitions in superionic protonic conductors CsHSO ₄ and CsHSeO ₄ . <i>Solid State Communications</i> , 1985, 55, 265-270.	1.9	68
62	Off-resonance Raman analysis of wurtzite CdS ground to the nanoscale: structural and size-related effects. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1007-1015.	2.5	68
63	UV-Vis-NIR and micro Raman spectroscopies for the non destructive identification of Cd ¹⁺ x Zn x S solid solutions in cadmium yellow pigments. <i>Microchemical Journal</i> , 2016, 124, 856-867.	4.5	68
64	Microwave absorbent: preparation, mechanical properties and r.f.-microwave conductivity of SiC (and/or mullite) fibre reinforced Nasicon matrix composites. <i>Journal of Materials Science</i> , 1996, 31, 323-334.	3.7	67
65	Reliability of Raman micro-spectroscopy in analysing ancient ceramics: the case of ancient Vietnamese porcelain and celadon glazes. <i>Journal of Raman Spectroscopy</i> , 2002, 33, 287-294.	2.5	66
66	Disorder of tetrahedra in Nasicon-type structure. <i>Journal of Physics and Chemistry of Solids</i> , 1986, 47, 843-854.	4.0	63
67	Graphene and related 2D materials: An overview of the Raman studies. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 8-12.	2.5	63
68	Vibrational spectra of and phase transitions in caesium hydrogen sulphate. <i>Journal of Raman Spectroscopy</i> , 1987, 18, 185-194.	2.5	62
69	Micro-Raman study of Ba _{1-x} Sr _x TiO ₃ ceramics. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 147-149.	2.5	62
70	Indirect Raman identification of the proton insertion in the high-temperature [Ba/Sr] ₃ [Zr/Ti]O ₁₂ modified perovskite protonic conductors. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 513-521.	2.5	62
71	Proton conductors and their applications: A tentative historical overview of the early researches. <i>Solid State Ionics</i> , 2019, 334, 125-144.	2.7	62
72	A Raman spectroscopic study of the Mapungubwe oblates: glass trade beads excavated at an Iron Age archaeological site in South Africa. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 79-90.	2.5	61

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73	Vibrational spectra and structure of $H^+(H_2O)_n$ in alumina. Journal of Chemical Physics, 1977, 67, 5244-5251.	3.0	60
74	Role of the TiO_6 octahedra on the ferroelectric and piezoelectric behaviour of the poled $PbMg_{1/3}Nb_{2/3}O_3-xPbTiO_3$ (PMN-xPT) single crystal and textured ceramic. Journal of Physics and Chemistry of Solids, 2008, 69, 2503-2513.	4.0	60
75	Proton and Protonic Species: The Hidden Face of Solid State Chemistry. How to Measure H ⁺ Content in Materials?. Fuel Cells, 2013, 13, 6-18.	2.4	60
76	Influence of thermal and mechanical treatment and of water on structural phase transitions in $CsHSO_4$. Solid State Ionics, 1987, 24, 193-203.	2.7	59
77	Structure of oxide gels and glasses by infrared and Raman scattering. Journal of Materials Science, 1989, 24, 3011-3020.	3.7	59
78	Novel forms of hydrogen in solids: the 'ionic' proton and the 'quasi-free' proton. Solid State Ionics, 1997, 97, 123-134.	2.7	59
79	Proton Dynamics and Structural Modifications in the Protonic Conductor Perovskites. Journal of the Physical Society of Japan, 2010, 79, 1-6.	1.6	59
80	The Destructive/Non-Destructive Identification of Enamelled Pottery, Glass Artifacts and Associated Pigments – A Brief Overview. Arts, 2013, 2, 77-110.	0.3	59
81	Raman spectroscopy of copper nanoparticle-containing glass matrices: ancient red stained glass windows. Journal of Raman Spectroscopy, 2009, 40, 1949-1955.	2.5	58
82	Relations between sublattice disorder, phase transitions and conductivity in NASICON. Solid State Ionics, 1983, 9-10, 845-850.	2.7	57
83	Vietnamese (15th Century) Blue-And-White, Tam Thai and Lustre Porcelains/Stonewares: Glaze Composition and Decoration Techniques*. Archaeometry, 2004, 46, 125-136.	1.3	57
84	Probing the Nanodomain Origin and Phase Transition Mechanisms in (Un)Poled PMN-PT Single Crystals and Textured Ceramics. Materials, 2010, 3, 5007-5028.	2.9	57
85	Water dependent structural changes of silk from Bombyx mori gland to fibre as evidenced by Raman and IR spectroscopies. Vibrational Spectroscopy, 2014, 73, 79-89.	2.2	56
86	Infrared and Raman study of some heteropolyacid hydrates. Journal of Molecular Structure, 1990, 218, 123-128.	3.6	55
87	Yttria-doped zirconia thin films deposited by atomic layer deposition ALD: a structural, morphological and electrical characterisation. Journal of Physics and Chemistry of Solids, 2003, 64, 1761-1770.	4.0	55
88	Micro-Raman study of the fatigue and fracture behaviour of single PA66 fibres: Comparison with single PET and PP fibres. Engineering Fracture Mechanics, 2006, 73, 2463-2475.	4.3	55
89	Protective ability index measurement through Raman quantification imaging to diagnose the conservation state of weathering steel structures. Journal of Raman Spectroscopy, 2014, 45, 1076-1084.	2.5	55
90	Thermal history and phase transitions in the superionic protonic conductors $CsHSO_4$ and $CsHSeO_4$. Solid State Ionics, 1986, 20, 125-134.	2.7	54

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91	Study of Polyanilines by High-Resolution Electron Microscopy. <i>Macromolecules</i> , 1999, 32, 8504-8508.	4.8	54
92	Non-destructive mechanical characterization of SiC fibers by Raman spectroscopy. <i>Journal of the European Ceramic Society</i> , 2001, 21, 1249-1259.	5.7	54
93	Ancient Portuguese Ceramic Wall Tiles (Azulejos): Characterization of the Glaze and Ceramic Pigments. <i>Journal of Nano Research</i> , 0, 8, 79-88.	0.8	54
94	Conductivity of ion rich \hat{I}^2 and $\hat{I}^2\hat{A}^3$ alumina: Sodium and potassium compounds. <i>Materials Research Bulletin</i> , 1981, 16, 259-265.	5.2	52
95	Analysis of Strain and Stress in Ceramic, Polymer and Metal Matrix Composites by Raman Spectroscopy. <i>Advanced Engineering Materials</i> , 2002, 4, 535-542.	3.5	52
96	Cationic conductivity, water species motions and phase transitions in $H_3O_2PO_4 \cdot 3H_2O$ (HUP) and mup related compounds ($M^+ = Na^+, K^+, Ag^+, Li^+, NH_4^+$). <i>Solid State Ionics</i> , 1985, 17, 295-306.	2.7	50
97	Sol-gel routes leading to nasicon ceramics. <i>Ceramics International</i> , 1986, 12, 39-52.	4.8	50
98	On-site Raman spectroscopic analysis of $\frac{1}{4}$ tahya fritwares. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 857-863.	2.5	50
99	On-site Raman and XRF analysis of Japanese/Chinese bronze/brass patina – the search for specific Raman signatures. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 799-808.	2.5	50
100	Formation of superionic gels and glasses by low temperature chemical polymerization. <i>Solid State Ionics</i> , 1983, 9-10, 639-643.	2.7	49
101	Structure and proton conductivity of 12-tungstophosphoric acid doped silica. <i>Solid State Ionics</i> , 1997, 97, 239-246.	2.7	49
102	Optimization of photoluminescence of $Y_{2O_3}:Eu$ and $Gd_{2O_3}:Eu$ phosphors synthesized by thermolysis of 2,4-pentanedione complexes. <i>Nanotechnology</i> , 2010, 21, 245702.	2.6	49
103	Mobile Raman spectroscopy analysis of ancient enamelled glass masterpieces. <i>Analytical Methods</i> , 2013, 5, 4345.	2.7	49
104	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.	2.2	49
105	Non-invasive Raman analyses of Chinese huafalang and related porcelain wares. Searching for evidence for innovative pigment technologies. <i>Ceramics International</i> , 2017, 43, 12079-12088.	4.8	49
106	Raman Intensity: An Important Tool in the Study of Nanomaterials and Nanostructures. <i>Acta Physica Polonica A</i> , 2009, 116, 7-12.	0.5	49
107	Inelastic neutron scattering study of protonic species during the thermal dehydration of 12-tungstophosphoric hexahydrate. <i>Journal of Molecular Structure</i> , 1994, 326, 99-107.	3.6	48
108	Pigments and enamelling/gilding technology of Mamluk mosque lamps and bottle. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1975-1984.	2.5	48

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109	In search of the optimum Raman/IR signatures of potential ingredients used in San/Bushman rock art paint. <i>Journal of Archaeological Science</i> , 2013, 40, 2981-2990.	2.4	48
110	Rocks as blue, green and black pigments/dyes of glazed pottery and enamelled glass artefacts ? A review. <i>European Journal of Mineralogy</i> , 2014, 25, 863-879.	1.3	47
111	Crystal structure and ion-ion correlation of ion-rich \hat{I}^2 alumina type compounds I. Magnesium doped potassium rich \hat{I}^2 alumina. <i>Solid State Ionics</i> , 1980, 1, 59-68.	2.7	46
112	Structure, vibrational study and conductivity of the trihydrated uranyl bis(dihydrogenophosphate): $UO_2(H_2PO_4)_2 \cdot 3H_2O$. <i>Solid State Ionics</i> , 1985, 15, 113-126.	2.7	46
113	Raman Study of Hiâ€Nicalonâ€Fiberâ€Reinforced Celsian Composites: II, Residual Stress in Fibers. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1136-1142.	3.8	45
114	Raman analysis of materials corrosion: the example of SiC fibers. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2002, 53, 306-315.	1.5	45
115	Ochre decor and cinnabar residues in Neolithic pottery from VinÄ, Serbia. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 843-846.	2.5	45
116	Characterization of pottery from the Republic of Macedonia I: Raman analyses of Byzantine glazed pottery excavated from Prilep and Skopje (12thâ€14th century). <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1240-1248.	2.5	45
117	Comparative analysis of wucai Chinese porcelains using mobile and fixed Raman microspectrometers. <i>Ceramics International</i> , 2017, 43, 14244-14256.	4.8	45
118	Raman study of the formation of transition alumina single crystal from protonic ??? aluminas. <i>Journal of Materials Science Letters</i> , 1988, 7, 1324-1326.	0.5	44
119	â€Smartâ™ Raman/Rayleigh imaging of nanosized SiC materials using the spatial correlation model. <i>Journal of Materials Science</i> , 2004, 39, 6183-6190.	3.7	44
120	Late Roman and Byzantine mosaic opaque â€glass-ceramicsâ€tesserae (5th-9th century). <i>Ceramics International</i> , 2016, 42, 18859-18869.	4.8	44
121	Pink pigment optimization by resonance Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 290-294.	2.5	43
122	Raman spectroscopic analysis of an English soft-paste porcelain plaque-mounted table. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 656-661.	2.5	43
123	A Raman spectroscopic study of glass trade beads excavated at Mapungubwe hill and K2, two archaeological sites in southern Africa, raises questions about the last occupation date of the hill. <i>Journal of Archaeological Science</i> , 2011, 38, 3264-3277.	2.4	43
124	Germanium mullite: Structure and vibrational spectra of gels, glasses and ceramics. <i>Journal of the European Ceramic Society</i> , 1996, 16, 161-168.	5.7	40
125	Zn,Ni ferrite/NiO nanocomposite powder obtained from acetylacetonato complexes. <i>Nanotechnology</i> , 2006, 17, 4877-4884.	2.6	40
126	Toward a fast non-destructive identification of pottery: The sourcing of 14thâ€16th century Vietnamese and Chinese ceramic shards. <i>Journal of Cultural Heritage</i> , 2015, 16, 159-172.	3.3	40

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127	X-Ray Scattering Evidence for Sublattice Phase Transition in Stoichiometric Silver ² -Alumina. Physical Review Letters, 1979, 42, 785-787.	7.8	39
128	(Nano)structure, skin/core and tension behaviour of polyamide fibres. Journal of Raman Spectroscopy, 2004, 35, 308-315.	2.5	39
129	Proton Content and Nature in Perovskite Ceramic Membranes for Medium Temperature Fuel Cells and Electrolysers. Membranes, 2012, 2, 493-509.	3.0	39
130	The origin of syngenite in black crusts on the limestone monument King's Gate (Belgrade Fortress,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.3	39
131	Vibrational properties of silicates: A cluster model able to reproduce the effect of SiO ₄ polymerization on Raman intensities. Journal of Non-Crystalline Solids, 2013, 370, 10-17.	3.1	39
132	On-site Raman analysis of 17th and 18th century Limoges enamels: Implications on the European cobalt sources and the technological relationship between Limoges and Chinese enamels. Ceramics International, 2017, 43, 10158-10165.	4.8	39
133	Morphological, X-ray and vibrational study of various uranyl phosphate hydrates. Journal of the Less Common Metals, 1985, 108, 189-216.	0.8	38
134	Nanocomposites in mullite-ZrO ₂ and mullite-TiO ₂ systems synthesised through alkoxide hydrolysis gel routes: microstructure and fractography. Journal of Materials Science, 1991, 26, 3503-3510.	3.7	38
135	Na ⁺ and Li ⁺ NASICON Superionic Conductors Thick Films. Japanese Journal of Applied Physics, 1984, 23, 534-543.	1.5	37
136	Equilibrium between protonic species and conductivity mechanism in antimonite acid, H ₂ SbO ₄ ·nH ₂ O. Journal of Molecular Structure, 1989, 213, 83-96.	3.6	37
137	Optical and vibrational spectra of sols/solutions of polyaniline: water as secondary dopant. Synthetic Metals, 1996, 81, 221-225.	3.9	37
138	In Situ Resonance Raman Microspectroscopy of a Solid-State Dye-Sensitized Photoelectrochemical Cell. Journal of the Electrochemical Society, 2002, 149, E413.	2.9	36
139	Characterization of pottery from Republic of Macedonia II. Raman and infrared analyses of glazed pottery finds from Skopsko Kale. Journal of Raman Spectroscopy, 2010, 41, 431-439.	2.5	36
140	On-site Identification of Early Böttger Red Stoneware Using Portable XRF/Raman Instruments: 2, Glaze & Gilding Analysis. Journal of the American Ceramic Society, 2015, 98, 3006-3013.	3.8	36
141	On-site Raman study of artwork: Procedure and illustrative examples. Journal of Raman Spectroscopy, 2018, 49, 921-934.	2.5	36
142	Non-invasive Raman identification of crystalline and glassy phases in a 1781 Sèvres Royal Factory soft paste porcelain plate. Journal of the European Ceramic Society, 2018, 38, 5228-5233.	5.7	36
143	Sodium and lithium superionic gels and glasses. Journal of Materials Science Letters, 1985, 4, 22-24.	0.5	35
144	Vibrational study of structure and phase transitions in caesium hydrogen selenate (CsHSeO ₄). Journal of Molecular Structure, 1987, 161, 1-14.	3.6	35

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145	Sol-gel mullite matrix-SiC and -mullite 2D woven fabric composites with or without zirconia containing interphase: Elaboration and properties. <i>Journal of the European Ceramic Society</i> , 1996, 16, 301-314.	5.7	35
146	Raman/Cr ³⁺ fluorescence mapping of a melt-grown Al ₂ O ₃ /GdAlO ₃ eutectic. <i>Journal of the European Ceramic Society</i> , 2005, 25, 1447-1453.	5.7	35
147	Nanomechanics of single silkworm and spider fibres: a Raman and micro-mechanical <i>in situ</i> study of the conformation change with stress. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 1749-1764.	2.5	35
148	Substitution and proton doping effect on SrZrO ₃ behaviour: high-pressure Raman study. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 2089-2099.	2.5	35
149	Testing of Raman spectroscopy as a non-invasive tool for the investigation of glass-protected miniature portraits. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 294-302.	2.5	35
150	Aqua oxyhydroxycarbonate second phases at the surface of Ba/Sr-based proton conducting perovskites: a source of confusion in the understanding of proton conduction. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 312-320.	2.5	35
151	γ ² -alumina-like thin films. <i>Solid State Ionics</i> , 1981, 5, 291-294.	2.7	34
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