Ph Colomban

List of Publications by Citations

470 papers	14,481 citations	58 h-index	93 g-index
493 ext. papers	15,676 ext. citations	3.2 avg, IF	6.93 L-index

#	Paper	IF	Citations
470	Raman Spectroscopy of nanomaterials: How spectra relate to disorder, particle size and mechanical properties. *Progress in Crystal Growth and Characterization of Materials*, **2007**, 53, 1-56	3.5	745
469	Raman scattering and lattice defects in nanocrystalline CeO2 thin films. *Solid State Ionics*, **2002**, 149, 99-105	3.3	420
468	Nanostructure of Nafion membranes at different states of hydration. *Vibrational Spectroscopy*, **2001**, 26, 215-225	2.1	296
467	Raman identification of natural red to yellow pigments: ochre and iron-containing ores. *Journal of Raman Spectroscopy*, **2008**, 39, 560-568	2.3	222
466	Differentiation of antique ceramics from the Raman spectra of their coloured glazes and paintings. *Journal of Raman Spectroscopy*, **2001**, 32, 351-360	2.3	201
465	Raman identification of glassy silicates used in ceramics, glass and jewellery: a tentative differentiation guide. *Journal of Raman Spectroscopy*, **2006**, 37, 841-852	2.3	197
464	Polymerization degree and Raman identification of ancient glasses used for jewelry, ceramic enamels and mosaics. *Journal of Non-Crystalline Solids*, **2003**, 323, 180-187	3.9	187
463	Raman Spectroscopy of Nanocrystalline Ceria and Zirconia Thin Films. *Journal of the American Ceramic Society*, **2004**, 85, 2646-2650	3.8	160
462	Electrical Conductivity and Lattice Defects in Nanocrystalline Cerium Oxide Thin Films. *Journal of the American Ceramic Society*, **2004**, 84, 2007-2014	3.8	146
461	Proton transfer and superionic conductivity in solids and gels. *Journal of Molecular Structure*, **1988**, 177, 277-308	3.4	141
460	The on-site/remote Raman analysis with mobile instruments: a review of drawbacks and success in cultural heritage studies and other associated fields. *Journal of Raman Spectroscopy*, **2012**, 43, 1529-1535	2.3	134
459	Identification and differentiation of ancient and modern European porcelains by Raman macro- and micro-spectroscopyâ *Journal of Raman Spectroscopy*, **2001**, 32, 93-102	2.3	131
458	Raman identification of corrosion products on automotive galvanized steel sheets. *Journal of Raman Spectroscopy*, **2008**, 39, 881-886	2.3	126
457	Gel technology in ceramics, glass-ceramics and ceramic-ceramic composites. *Ceramics International*, **1989**, 15, 23-50	5.1	120
456	The Use of Metal Nanoparticles to Produce Yellow, Red and Iridescent Colour, from Bronze Age to Present Times in Lustre Pottery and Glass: Solid State Chemistry, Spectroscopy and Nanostructure. *Journal of Nano Research*, **2009**, 8, 109-132	1	118
455	Glass corrosion mechanisms: A multiscale analysis. *Solid State Ionics*, **2008**, 179, 2142-2154	3.3	112
454	Infrared and Raman study of polyaniline Part II: Influence of ortho substituents on hydrogen bonding and UV/Visâear-IR electron charge transfer. *Journal of Molecular Structure*, **1994**, 328, 153-167	3.4	109

453	Vibrational Study of Short-Range Order and Structure of Polyaniline Bases and Salts. *Macromolecules*, **1999**, 32, 3080-3092	5.5	103
452	Structure of oxide gels and glasses by infrared and raman scattering. *Journal of Materials Science*, **1989**, 24, 3002-3010	4.3	102
451	A non-invasive study of Roman Age mosaic glass tesserae by means of Raman spectroscopy. *Journal of Archaeological Science*, **2009**, 36, 2551-2559	2.9	99
450	X-ray-scattering study of the fast-ion conductor β-alumina. *Physical Review B*, **1980**, 22, 5912-5923	3.3	99
449	Raman signature modification induced by copper nanoparticles in silicate glass. *Journal of Raman Spectroscopy*, **2005**, 36, 884-890	2.3	98
448	Orientational disorder, glass/crystal transition and superionic conductivity in nasicon. *Solid State Ionics*, **1986**, 21, 97-115	3.3	98
447	Thermally induced phase transformations of 12-tungstophosphoric acid 29-hydrate: synthesis and characterization of PW8O26-type bronzes. *Journal of Materials Science*, **1994**, 29, 3705-3718	4.3	97
446	Nanosize ferrites obtained by ball milling: Crystal structure, cation distribution, size-strain analysis and Raman investigations. *Solid State Sciences*, **2006**, 8, 908-915	3.4	96
445	On-site Raman analysis of Iznik pottery glazes and pigments. *Journal of Raman Spectroscopy*, **2004**, 35, 527-535	2.3	96
444	On-site Raman identification and dating of ancient glasses: A review of procedures and tools. *Journal of Cultural Heritage*, **2008**, 9, e55-e60	2.9	95
443	On-site Raman identification and dating of ancient/modern stained glasses at the Sainte-Chapelle, Paris. *Journal of Cultural Heritage*, **2007**, 8, 242-256	2.9	91
442	Relation structure-fast ion conduction in the NASICON solid solution. *Journal of Solid State Chemistry*, **1988**, 73, 160-171	3.3	90
441	The first in situ Raman spectroscopic study of San rock art in South Africa: procedures and preliminary results. *Journal of Raman Spectroscopy*, **2011**, 42, 399-406	2.3	88
440	Fast ion transport in LiZr2(PO4)3: Structure and conductivity. *Materials Research Bulletin*, **1986**, 21, 365-371	5.1	86
439	Nondestructive on-site identification of ancient glasses: genuine artefacts, embellished pieces or forgeries?. *Journal of Raman Spectroscopy*, **2009**, 40, 604-617	2.3	85
438	Oxide ceramic matrix/oxide fibre woven fabric composites exhibiting dissipative fracture behaviour. *Composites*, **1995**, 26, 175-182		85
437	Infrared and Raman study of polyaniline Part I. Hydrogen bonding and electronic mobility in emeraldine salts. *Journal of Molecular Structure*, **1994**, 317, 261-271	3.4	85
436	Equilibrium of the protonic species in hydrates of some heteropolyacids at elevated temperatures. *Solid State Ionics*, **1991**, 46, 103-109	3.3	85

435	Lapis lazuli as unexpected blue pigment in Iranian Lâ□vardina ceramics. *Journal of Raman Spectroscopy*, **2003**, 34, 420-423	2.3	84
434	On-site Raman analysis of Medici porcelain. *Journal of Raman Spectroscopy*, **2004**, 35, 68-72	2.3	83
433	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	83
432	Heteropoly compoundsâ□from proton conductors to biomedical agents. *Solid State Ionics*, **2005**, 176, 3005-3017	3.3	80
431	Latest Developments in Proton Conductors. *Annales De Chimie: Science Des Materiaux*, **1999**, 24, 1-18	2.1	79
430	Raman spectrometry, a unique tool to analyze and classify ancient ceramics and glasses. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 167-170	2.6	78
429	On-site Raman analysis of the earliest known Meissen porcelain and stoneware. *Journal of Raman Spectroscopy*, **2006**, 37, 606-613	2.3	75
428	Proton-conducting solâ□gel hybrids containing heteropoly acids. *Solid State Ionics*, **2001**, 145, 109-118	3.3	75
427	Raman identification of materials used for jewellery and mosaics in Ifriqiya. *Journal of Raman Spectroscopy*, **2003**, 34, 205-213	2.3	74
426	Raman study of the microstructure, composition and processing of ancient Vietnamese (proto)porcelains and celadons (13â□16th centuries). *Journal of Raman Spectroscopy*, **2000**, 31, 933-942	2.3	74
425	Structure of and Interactions between P/SiWA Keggin Nanocrystals Dispersed in an Organically Modified Electrolyte Membrane. *Chemistry of Materials*, **2000**, 12, 3745-3753	9.6	73
424	Non-destructive Raman study of the glazing technique in lustre potteries and faience (9â□14th centuries): silver ions, nanoclusters, microstructure and processing. *Journal of Raman Spectroscopy*, **2004**, 35, 195-207	2.3	71
423	Crystal structure of the true nasicon: Na3Zr2Si2PO12. *Materials Research Bulletin*, **1987**, 22, 669-676	5.1	71
422	Nanomechanics of single keratin fibres: A Raman study of the □helix ->□sheet transition and the effect of water. *Journal of Raman Spectroscopy*, **2007**, 38, 504-514	2.3	69
421	Vibrational study of and conduction mechanism in □alumina. I. Stoichiometric □alumina. *Journal of Chemical Physics*, **1980**, 72, 1213-1224	3.9	67
420	On-site analysis of Limoges enamels from sixteenth to nineteenth centuries: an attempt to differentiate between genuine artefacts and copies. *Journal of Raman Spectroscopy*, **2010**, 41, 1240-1247	2.3	65
419	Raman Study of the Chemical and Thermal Degradation of As-Received and Solâ□Gel Embedded Nicalon and Hi-Nicalon SiC Fibres Used in Ceramic Matrix Composites. *Journal of Raman Spectroscopy*, **1997**, 28, 219-228	2.3	64
418	Microstructure, composition and processing of 15th century Vietnamese porcelains and celadons. *Journal of Cultural Heritage*, **2003**, 4, 187-197	2.9	63

417	Double perovskites with oxygen structural vacancies: Raman spectra, conductivity and water uptake. *Solid State Ionics*, **2001**, 145, 339-347	3.3	62
416	Raman intensity: An important tool to study the structure and phase transitions of amorphous/crystalline materials. *Optical Materials*, **2009**, 31, 1759-1763	3.3	61
415	Raman identification of ancient stained glasses and their degree of deterioration. *Journal of Raman Spectroscopy*, **2006**, 37, 614-626	2.3	59
414	Reliability of Raman micro-spectroscopy in analysing ancient ceramics: the case of ancient Vietnamese porcelain and celadon glazes. *Journal of Raman Spectroscopy*, **2002**, 33, 287-294	2.3	59
413	Off-resonance Raman analysis of wurtzite CdS ground to the nanoscale: structural and size-related effects. *Journal of Raman Spectroscopy*, **2011**, 42, 1007-1015	2.3	58
412	A Raman spectroscopic study of the Mapungubwe oblates: glass trade beads excavated at an Iron Age archaeological site in South Africa. *Journal of Raman Spectroscopy*, **2008**, 39, 79-90	2.3	56
411	Role of the TiO6 octahedra on the ferroelectric and piezoelectric behaviour of the poled PbMg1/3Nb2/3O3âPbTiO3 (PMNâPT) single crystal and textured ceramic. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 2503-2513	3.9	55
410	Structure of oxide gels and glasses by infrared and Raman scattering. *Journal of Materials Science*, **1989**, 24, 3011-3020	4.3	55
409	Phase transitions in superionic protonic conductors CsHSO4 and CsHSeO4. *Solid State Communications*, **1985**, 55, 265-270	1.6	55
408	UVâVis-NIR and micro Raman spectroscopies for the non destructive identification of Cd 1â Zn x S solid solutions in cadmium yellow pigments. *Microchemical Journal*, **2016**, 124, 856-867	4.8	54
407	Microwave absorbent: preparation, mechanical properties and r.f.-microwave conductivity of SiC (and/or mullite) fibre reinforced Nasicon matrix composites. *Journal of Materials Science*, **1996**, 31, 323-334	4.3	54
406	Indirect Raman identification of the proton insertion in the high-temperature [Ba/Sr][Zr/Ti]O3-modified perovskite protonic conductors. *Journal of Raman Spectroscopy*, **2009**, 40, 513-521	2.3	53
405	Micro-Raman study of Ba1 âxSrxTiO3 ceramics. *Journal of Raman Spectroscopy*, **2001**, 32, 147-149	2.3	53
404	Relations between sublattice disorder, phase transitions and conductivity in NASICON. *Solid State Ionics*, **1983**, 9-10, 845-850	3.3	53
403	alumina, a typical solid electrolyte. *Journal of Physics and Chemistry of Solids*, **1984**, 45, 981-1013	3.9	53
402	The Destructive/Non-Destructive Identification of Enameled Pottery, Glass Artifacts and Associated PigmentsâA Brief Overview. *Arts*, **2013**, 2, 77-110	0.3	52
401	Study of Polyanilines by High-Resolution Electron Microscopy. *Macromolecules*, **1999**, 32, 8504-8508	5.5	52
400	Well densified nasicon type ceramics, elaborated using sol-gel process and sintering at low temperatures. *Materials Research Bulletin*, **1984**, 19, 621-631	5.1	52

399	FTIR spectroscopic semi-quantification of iron phases: A new method to evaluate the protection ability index (PAI) of archaeological artefacts corrosion systems. *Corrosion Science*, **2018**, 133, 68-77	6.8	51
398	Proton Dynamics and Structural Modifications in the Protonic Conductor Perovskites. *Journal of the Physical Society of Japan*, **2010**, 79, 1-6	1.5	50
397	Vibrational spectra of and phase transitions in caesium hydrogen sulphate. *Journal of Raman Spectroscopy*, **1987**, 18, 185-194	2.3	50
396	Vietnamese (15th Century) Blue-And-White, Tam Thai and Lustre Porcelains/Stonewares: Glaze Composition and Decoration Techniques*. *Archaeometry*, **2004**, 46, 125-136	1.6	49
395	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	3.9	49
394	Raman spectroscopy of copper nanoparticle-containing glass matrices: ancient red stained-glass windows. *Journal of Raman Spectroscopy*, **2009**, 40, 1949-1955	2.3	48
393	Influence of thermal and mechanical treatment and of water on structural phase transitions in CsHSO4. *Solid State Ionics*, **1987**, 24, 193-203	3.3	48
392	Formation of superionic gels and glasses by low temperature chemical polymerization. *Solid State Ionics*, **1983**, 9-10, 639-643	3.3	48
391	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	2.1	47
390	Proton and Protonic Species: The Hidden Face of Solid State Chemistry. How to Measure H-Content in Materials?. *Fuel Cells*, **2013**, 13, 6-18	2.9	47
389	Probing the Nanodomain Origin and Phase Transition Mechanisms in (Un)Poled PMN-PT Single Crystals and Textured Ceramics. *Materials*, **2010**, 3, 5007-5028	3.5	47
388	Analysis of Strain and Stress in Ceramic, Polymer and Metal Matrix Composites by Raman Spectroscopy. *Advanced Engineering Materials*, **2002**, 4, 535-542	3.5	47
387	Non-destructive mechanical characterization of SiC fibers by Raman spectroscopy. *Journal of the European Ceramic Society*, **2001**, 21, 1249-1259	6	47
386	Disorder of tetrahedra in Nasicon-type structureâ□. *Journal of Physics and Chemistry of Solids*, **1986**, 47, 843-854	3.9	47
385	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	4.2	46
384	Vibrational spectra and structure of H+(H2O)n□alumina. *Journal of Chemical Physics*, **1977**, 67, 5244-5251	3.9	46
383	On-site Raman spectroscopic analysis of K□ahya fritwares. *Journal of Raman Spectroscopy*, **2005**, 36, 857-863	2.3	45
382	Graphene and related 2D materials: An overview of the Raman studies. *Journal of Raman Spectroscopy*, **2018**, 49, 8-12	2.3	44

381	Pigments and enamelling/gilding technology of Mamluk mosque lamps and bottle. *Journal of Raman Spectroscopy*, **2012**, 43, 1975-1984	2.3	44
380	Optimization of photoluminescence of Y(2)O(3):Eu and Gd(2)O(3):Eu phosphors synthesized by thermolysis of 2,4-pentanedione complexes. *Nanotechnology*, **2010**, 21, 245702	3.4	43
379	Infrared and Raman study of some heteropolyacid hydrates. *Journal of Molecular Structure*, **1990**, 218, 123-128	3.4	43
378	Cationic conductivity, water species motions and phase transitions in H3OUO2PO4□3H2O(HUP) and mup related compounds (M+= Na+, K+, Ag+, Li+, NH+4). *Solid State Ionics*, **1985**, 17, 295-306	3.3	43
377	Ancient Portuguese Ceramic Wall Tiles (â□Azulejosâ□): Characterization of the Glaze and Ceramic Pigments. *Journal of Nano Research*, **2009**, 8, 79-88	1	42
376	Characterization of pottery from the Republic of Macedonia I: Raman analyses of Byzantine glazed pottery excavated from Prilep and Skopje (12thâ□14th century). *Journal of Raman Spectroscopy*, **2009**, 40, 1240-1248	2.3	42
375	On-site Raman and XRF analysis of Japanese/Chinese bronze/brass patina â□the search for specific Raman signatures. *Journal of Raman Spectroscopy*, **2012**, 43, 799-808	2.3	41
374	Raman Study of Hi-Nicalon-Fiber-Reinforced Celsian Composites: II, Residual Stress in Fibers. *Journal of the American Ceramic Society*, **2001**, 84, 1136-1142	3.8	41
373	Crystal structure and ion-ion correlation of ion-rich □alumina type compounds I. Magnesium doped potassium rich □alumina. *Solid State Ionics*, **1980**, 1, 59-68	3.3	41
372	Mobile Raman spectroscopy analysis of ancient enamelled glass masterpieces. *Analytical Methods*, **2013**, 5, 4345	3.2	40
371	In search of the optimum Raman/IR signatures of potential ingredients used in San/Bushman rock art paint. *Journal of Archaeological Science*, **2013**, 40, 2981-2990	2.9	40
370	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. *Journal of Archaeological Science*, **2011**, 38, 3264-3277	2.9	40
369	Novel forms of hydrogen in solids: the 'ionic' proton and the 'quasi-free' proton. *Solid State Ionics*, **1997**, 97, 123-134	3.3	40
368	Structure and proton conductivity of 12-tungstophosphoric acid doped silica. *Solid State Ionics*, **1997**, 97, 239-246	3.3	40
367	Ochre decor and cinnabar residues in Neolithic pottery from Vin□, Serbia. *Journal of Raman Spectroscopy*, **2004**, 35, 843-846	2.3	40
366	Sol-gel routes leading to nasicon ceramics. *Ceramics International*, **1986**, 12, 39-52	5.1	40
365	Comparative analysis of wucai Chinese porcelains using mobile and fixed Raman microspectrometers. *Ceramics International*, **2017**, 43, 14244-14256	5.1	39
364	â□smartâ□Raman/Rayleigh imaging of nanosized SiC materials using the spatial correlation model. *Journal of Materials Science*, **2004**, 39, 6183-6190	4.3	39

363	Raman study of the formation of transition alumina single crystal from protonic aluminas. *Journal of Materials Science Letters*, **1988**, 7, 1324-1326		39
362	Raman Intensity: An Important Tool in the Study Nanomaterials and Nanostructures. *Acta Physica Polonica A*, **2009**, 116, 7-12	0.6	39
361	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	2.3	38
360	Raman spectroscopic analysis of an English soft-paste porcelain plaque-mounted table. *Journal of Raman Spectroscopy*, **2004**, 35, 656-661	2.3	38
359	Raman analysis of materials corrosion: the example of SiC fibers. *Materials and Corrosion - Werkstoffe Und Korrosion*, **2002**, 53, 306-315	1.6	38
358	Thermal history and phase transitions in the superionic protonic conductors CsHSO4 and CsHSeO4. *Solid State Ionics*, **1986**, 20, 125-134	3.3	38
357	Zn,Ni ferrite/NiO nanocomposite powder obtained from acetylacetonato complexes. *Nanotechnology*, **2006**, 17, 4877-4884	3.4	37
356	Pink pigment optimization by resonance Raman spectroscopy. *Journal of Raman Spectroscopy*, **2003** , 34, 290-294	2.3	37
355	Germanium mullite: Structure and vibrational spectra of gels, glasses and ceramics. *Journal of the European Ceramic Society*, **1996**, 16, 161-168	6	37
354	Non-invasive Raman analyses of Chinese huafalang and related porcelain wares. Searching for evidence for innovative pigment technologies. *Ceramics International*, **2017**, 43, 12079-12088	5.1	36
353	(Nano)structure, skin/core and tension behaviour of polyamide fibres. *Journal of Raman Spectroscopy*, **2004**, 35, 308-315	2.3	36
352	Optical and vibrational spectra of sols/solutions of polyaniline: water as secondary dopant. *Synthetic Metals*, **1996**, 81, 221-225	3.6	36
351	Nanocomposites in mullite-ZrO2 and mullite-TiO2 systems synthesised through alkoxide hydrolysis gel routes: microstructure and fractography. *Journal of Materials Science*, **1991**, 26, 3503-3510	4.3	36
350	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	5.1	35
349	Analysis of artistâ palette on a 16th century wood panel painting by portable and laboratory Raman instruments. *Vibrational Spectroscopy*, **2016**, 85, 62-70	2.1	35
348	Inelastic neutron scattering study of protonic species during the thermal dehydration of 12-tungstophosphoric hexahydrate. *Journal of Molecular Structure*, **1994**, 326, 99-107	3.4	35
347	Sodium and lithium superionic gels and glasses. *Journal of Materials Science Letters*, **1985**, 4, 22-24		35
346	Rocks as blue, green and black pigments/dyes of glazed pottery and enamelled glass artefacts ? A review. *European Journal of Mineralogy*, **2014**, 25, 863-879	2.2	34

345	The origin of syngenite in black crusts on the limestone monument King's Gate (Belgrade Fortress, Serbia) â the role of agriculture fertiliser. *Journal of Cultural Heritage*, **2012**, 13, 175-186	2.9	33
344	Aqua oxyhydroxycarbonate second phases at the surface of Ba/Sr-based proton conducting perovskites: a source of confusion in the understanding of proton conduction. *Journal of Raman Spectroscopy*, **2013**, 44, 312-320	2.3	33
343	Vibrational study of structure and phase transitions in caesium hydrogen selenate (CsHSeO4). *Journal of Molecular Structure*, **1987**, 161, 1-14	3.4	33
342	Structure, vibrational study and conductivity of the trihydrated uranyl bis(dihydrogenophosphate): UO2(H2PO4)2 3H2O. *Solid State Ionics*, **1985**, 15, 113-126	3.3	33
341	Proton conductors and their applications: A tentative historical overview of the early researches. *Solid State Ionics*, **2019**, 334, 125-144	3.3	32
340	Toward a fast non-destructive identification of pottery: The sourcing of 14th–16th century Vietnamese and Chinese ceramic shards. *Journal of Cultural Heritage*, **2015**, 16, 159-172	2.9	32
339	Proton content and nature in perovskite ceramic membranes for medium temperature fuel cells and electrolysers. *Membranes*, **2012**, 2, 493-509	3.8	32
338	Micro-mechanisms, mechanical behaviour and probabilistic fracture analysis of PA 66 fibres. *Journal of Materials Science*, **2003**, 38, 2117-2141	4.3	32
337	Raman/Cr3+ fluorescence mapping of a melt-grown Al2O3/GdAlO3 eutectic. *Journal of the European Ceramic Society*, **2005**, 25, 1447-1453	6	32
336	Equilibrium between protonic species and conductivity mechanism in antimonic acid, H2Sb4O11 nH2O. *Journal of Molecular Structure*, **1989**, 213, 83-96	3.4	32
335	MorphologicaL, X-ray and vibrational study of various uranyl phosphate hydrates. *Journal of the Less Common Metals*, **1985**, 108, 189-216		32
334	alumina-like thin films. *Solid State Ionics*, **1981**, 5, 291-294	3.3	32
333	Conductivity of ion rich and alumina: Sodium and potassium compounds. *Materials Research Bulletin*, **1981**, 16, 259-265	5.1	32
332	On-site Raman study of artwork: Procedure and illustrative examples. *Journal of Raman Spectroscopy*, **2018**, 49, 921-934	2.3	31
331	Testing of Raman spectroscopy as a non-invasive tool for the investigation of glass-protected miniature portraits. *Journal of Raman Spectroscopy*, **2012**, 43, 294-302	2.3	31
330	On-Site Identification of Early Bttger Red Stoneware Using Portable XRF/Raman Instruments: 2, Glaze & Gilding Analysis. *Journal of the American Ceramic Society*, **2015**, 98, 3006-3013	3.8	31
329	Substitution and proton doping effect on SrZrO3 behaviour: high-pressure Raman study. *Journal of Raman Spectroscopy*, **2011**, 42, 2089-2099	2.3	31
328	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	2.3	31

327	In Situ Resonance Raman Microspectroscopy of a Solid-State Dye-Sensitized Photoelectrochemical Cell. *Journal of the Electrochemical Society*, **2002**, 149, E413	3.9	31
326	Influence of hydrolysis conditions on crystallization, phase transitions and sintering of zirconia gels prepared by alkoxide hydrolysis. *Journal of Non-Crystalline Solids*, **1992**, 147-148, 201-205	3.9	31
325	Structural and mechanical characterizations of microporous silicaâBoron membranes for gas separation. *Journal of Membrane Science*, **2009**, 326, 514-525	9.6	30
324	Sol-gel mullite matrix-SiC and -mullite 2D woven fabric composites with or without zirconia containing interphase: Elaboration and properties. *Journal of the European Ceramic Society*, **1996**, 16, 301-314	6	30
323	On-Site Identification of Early BTTGER Red Stoneware Made at Meissen Using Portable XRF: 1, Body Analysis. *Journal of the American Ceramic Society*, **2014**, 97, 2745-2754	3.8	29
322	Testing of Raman spectroscopy as a non-invasive tool for the investigation of glass-protected pastels. *Journal of Raman Spectroscopy*, **2011**, 42, 790-798	2.3	29
321	Nanomechanics of single silkworm and spider fibres: a Raman and micro-mechanical in situ study of the conformation change with stress. *Journal of Raman Spectroscopy*, **2008**, 39, 1749-1764	2.3	29
320	Ion exchange and hot corrosion of ceramic composites matrices: A vibrational and microstructural study. *Solid State Ionics*, **1994**, 70-71, 109-120	3.3	29
319	Proton conductors: classification and conductivity **1992**, 38-60		29
318	Na+and Li+NASICON Superionic Conductors Thick Films. *Japanese Journal of Applied Physics*, **1984**, 23, 534-543	1.4	29
317	Lacquerware Pigment Identification with Fixed and Mobile Raman Microspectrometers: A Potential Technique to Differentiate Original/Fake Artworks. *Arts*, **2013**, 2, 111-123	0.3	28
316	Vibrational properties of silicates: A cluster model able to reproduce the effect of âSiO4â polymerization on Raman intensities. *Journal of Non-Crystalline Solids*, **2013**, 370, 10-17	3.9	28
315	Raman identification of strongly absorbing phases: the ceramic black pigments. *Journal of Raman Spectroscopy*, **2011**, 42, 839-843	2.3	28
314	Sintering of alumina and mullites prepared by slow hydrolysis of alkoxides: the role of the protonic species and pore topology. *Journal of Non-Crystalline Solids*, **1992**, 147-148, 245-250	3.9	28
313	X-RayâScattering Evidence for Sublattice Phase Transition in Stoichiometric Silver Alumina. *Physical Review Letters*, **1979**, 42, 785-787	7.4	28
312	Non-invasive Raman identification of crystalline and glassy phases in a 1781 Sres Royal Factory soft paste porcelain plate. *Journal of the European Ceramic Society*, **2018**, 38, 5228-5233	6	28
311	Colouring Agents in the Pottery Glazes of Western Anatolia: New Evidence for the Use of Naples Yellow Pigment Variations During The Late Byzantine Period. *Archaeometry*, **2015**, 57, 476-496	1.6	27
310	Combined bulk and surface analysis of the BaCe0.5Zr0.3Y0.16Zn0.04O3 â(BCZYZ) ceramic proton-conducting electrolyte. *Solid State Ionics*, **2014**, 262, 870-874	3.3	27

309	Raman spectroscopic study of the stress distribution in continuous fibre-reinforced ceramic matrix composites. *Journal of Raman Spectroscopy*, **1997**, 28, 523-529	2.3	27
308	Micro-Raman study of SiC fibre-oxide matrix reaction. *Composites Part B: Engineering*, **1998**, 29, 41-50	10	27
307	Micro-Raman study of the fatigue fracture and tensile behaviour of polyamide (PA 66) fibres. *Journal of Raman Spectroscopy*, **2004**, 35, 1063-1072	2.3	27
306	Raman spectroscopy and X-ray diffraction studies of some deposited carbon layers in Tore Supra. *Journal of Nuclear Materials*, **2005**, 337-339, 990-994	3.3	27
305	Identification des porcelaines «tendres» du 18e si□le par spectroscopie Raman : Saint-Cloud, Chantilly, Mennecy et Vincennes/S□res. *ArcheoSciences*, **2004**, 28, 153-167		27
304	Late Roman and Byzantine mosaic opaque â□glass-ceramicsâ□tesserae (5th-9th century). *Ceramics International*, **2016**, 42, 18859-18869	5.1	27
303	Chemical and structural stability of La0.6Sr0.4Co0.2Fe0.8O3â□eramic vs. medium/high water vapor pressure. *Ceramics International*, **2015**, 41, 14137-14147	5.1	26
302	Raman classification of glass beads excavated on Mapungubwe hill and K2, two archaeological sites in South Africa. *Journal of Raman Spectroscopy*, **2012**, 43, 532-542	2.3	26
301	Origin of the self-organisation of Cu°/Ag° nanoparticles in ancient lustre pottery. A TEM study. *Phase Transitions*, **2008**, 81, 253-266	1.3	26
300	Protonation, sol formation and precipitation of poly- and oligoanilines. *Journal of Raman Spectroscopy*, **2003**, 34, 438-450	2.3	26
299	States of H+-containing species and proton migration forms in hydrated niobates and tantalates of alkaline-earth metals with a perovskite-related structure. *Solid State Ionics*, **2003**, 162-163, 73-81	3.3	26
298	Phase relations during water incorporation in the oxygen and proton conductor Sr6Ta2O11. *Solid State Ionics*, **2003**, 156, 95-102	3.3	26
297	Micro-Raman study of the compressive behaviour of advanced PA66 polyamide fibres in a diamond-anvil cell. *Vibrational Spectroscopy*, **2005**, 37, 83-90	2.1	26
296	Defect-induced smoothing of the superionic phase transition in Cs1â□MxHSO4 protonic conductors. III. Rubidium substitution. *Solid State Ionics*, **1991**, 44, 235-243	3.3	26
295	Neutron scattering study of the proton dynamics in NH+4 and OH+3 □lumina. *Journal De Physique* , **1980**, 41, 273-280		26
294	Non-invasive on-site Raman study of blue-decorated early soft-paste porcelain: The use of arsenic-rich (European) cobalt ores â□Comparison with huafalang Chinese porcelains. *Ceramics International*, **2018**, 44, 9018-9026	5.1	25
293	Testing the Chemical/Structural Stability of Proton Conducting Perovskite Ceramic Membranes by in Situ/ex Situ Autoclave Raman Microscopy. *Membranes*, **2013**, 3, 311-30	3.8	25
292	Toward a Raman/FORS discrimination between Art Nouveau and contemporary stained glasses from CdSxSe1 â□x nanoparticles signatures. *Journal of Raman Spectroscopy*, **2015**, 46, 1129-1139	2.3	25

291	Crack propagation and stress distribution in binary and ternary directionally solidified eutectic ceramics. *Journal of the European Ceramic Society*, **2011**, 31, 1199-1210	6	25
290	Tentative differentiation between Iznik tiles and copies with Raman spectroscopy using both laboratory and portable instruments. *Journal of Raman Spectroscopy*, **2010**, 41, 529-536	2.3	25
289	Structural and spectroscopic characterization of the quenched hexacelsian. *Journal of Physics and Chemistry of Solids*, **2003**, 64, 2253-2268	3.9	25
288	Chain length effect on intrachain electronic excitation and interchain coupling in poly- and oligo-anilines. *Synthetic Metals*, **2000**, 110, 219-227	3.6	25
287	Vibrational study of H3OUO2PO4 □3 H2O (HUP) and related compounds. phase transitions and conductivity mechanisms: part I, KUO2PO4 □3 H2O (KUP). *Journal of Physics and Chemistry of Solids*, **1985**, 46, 493-504	3.9	25
286	Etude comparative des structures des alumines ß stoechiometrique et non stoechiometrique: Etude par diffraction des rayons X (I). *Journal of Physics and Chemistry of Solids*, **1980**, 41, 47-54	3.9	25
285	The role of marine aerosol in the formation of (double) sulfate/nitrate salts in plasters. *Microchemical Journal*, **2015**, 123, 148-157	4.8	24
284	Phase transitions in the H+-conducting perovskite ceramics by the quasi-elastic neutron and high-pressure Raman scattering. *Ionics*, **2008**, 14, 215-222	2.7	24
283	Rayleigh and Raman images of the bulk/surface nanostructure of SiC based fibres. *Composites Part B: Engineering*, **2004**, 35, 139-147	10	24
282	Development of solâ□gel redox I3â□/Iâ□electrolytes and their application in hybrid electrochromic devices. *Solid State Ionics*, **2003**, 165, 235-246	3.3	24
281	Phase diagram and Raman imaging of grain growth mechanisms in highly textured Pb(Mg1/3Nb2/3)O3â□PbTiO3 piezoelectric ceramics. *Journal of the European Ceramic Society*, **2005**, 25, 3335-3346	6	24
280	Solâ□Gel-Prepared Pure and Lithium-Doped Hexacelsian Polymorphs: An Infrared, Raman, and Thermal Expansion Study of the ß-Phase Stabilization by Frozen Short-Range Disorder. *Journal of the American Ceramic Society*, **2000**, 83, 2974-2982	3.8	24
279	Review Raman Studies of Inorganic Gels and of Their Sol-to-Gel, Gel-to-Glass and Glass-to-Ceramics Transformation. *Journal of Raman Spectroscopy*, **1996**, 27, 747-758	2.3	24
278	Host lattices and superionic properties in beta - and beta "-alumina. I. Structures and local correlations. *Physical Review B*, **1986**, 34, 5838-5849	3.3	24
277	Conductivity of ß and ion rich ß alumina.I.H.+(H2O)n compounds. *Solid State Ionics*, **1981**, 2, 107-113	3.3	24
276	Metal nanoparticles in contemporary pottersâ□master pieces: Lustre and red â□pigeon bloodâ□ potteries as models to understand the ancient pottery. *Ceramics International*, **2016**, 42, 15349-15357	5.1	23
275	A Raman spectroscopic study of the igneous rocks on Marion Island: a possible terrestrial analogue for the geology on Mars. *Journal of Raman Spectroscopy*, **2011**, 42, 626-632	2.3	23
274	Temperature-induced structure and microstructure evolution of nanostructured Ni0.9Zn0.1O. *Journal of Applied Crystallography*, **2010**, 43, 699-709	3.8	23

273	Phonon confinement in SiC nanocrystals: comparison of the size determination using transmission electron microscopy and Raman spectroscopy. *Applied Spectroscopy*, **2007**, 61, 855-9	3.1	23
272	Keggin's ion structural modification and expansion of dodecatungstophosphoric acid hexahydrate induced by temperature treatment: In situ X-ray powder diffraction and raman investigations. *Solid State Ionics*, **2000**, 132, 39-53	3.3	23
271	Identification of the high-temperature impact/friction of aeroengine blades and cases by micro Raman spectroscopy. *Aerospace Science and Technology*, **1999**, 3, 447-459	4.9	23
270	Vibrational study of H3OUO2PO4□ H2O (HUP) and related compounds. Phase transitions and conductivity mechanism: Part II, H3OUO2PO4□ H2O. *Journal of Physics and Chemistry of Solids*, **1985**, 46, 565-578	3.9	23
269	Crystal structure and ion-ion correlation in ion-rich □alumina type compounds. II. potassium □ ferrite. *Solid State Ionics*, **1980**, 1, 69-76	3.3	23
268	On-site identification of Sceaux porcelain and faience using a portable Raman instrument. *Ceramics International*, **2016**, 42, 14918-14927	5.1	23
267	UVâ□Vis-NIR and microRaman spectroscopies for investigating the composition of ternary CdS1 â□ xSex solid solutions employed as artists' pigments. *Microchemical Journal*, **2016**, 125, 279-289	4.8	22
266	The influence of building materials on salt formation in rural environments. *Environmental Earth Sciences*, **2014**, 72, 1939-1951	2.9	22
265	The source of blue colour of archaeological glass and glazes: the Raman spectroscopy/SEM-EDS answers. *Journal of Raman Spectroscopy*, **2014**, 45, 1251-1259	2.3	22
264	Micro-Raman study of PET single fibres under high hydrostatic pressure: phase/conformation transition and amorphization. *Journal of Raman Spectroscopy*, **2007**, 38, 1097-1105	2.3	22
263	Microstructural mechanisms governing the fatigue failure of polyamide 66 fibres. *Journal of Materials Science*, **2006**, 41, 7261-7271	4.3	22
262	Lattice distortions, magnetoresistance and hopping conductivity in LaMnO(3+)□ *Journal of Physics Condensed Matter*, **2005**, 17, 105-18	1.8	22
261	Structural properties and proton conductivity of the 12-tungstophosphoric acid doped aluminosilicate gels. *Solid State Ionics*, **1999**, 125, 417-424	3.3	22
260	Nasicon : Amorphous to crystalline compounds. *Solid State Ionics*, **1986**, 18-19, 974-980	3.3	22
259	Origin of the variability of the mechanical properties of silk fibres: 1 - The relationship between disorder, hydration and stress/strain behaviour. *Journal of Raman Spectroscopy*, **2012**, 43, 425-432	2.3	21
258	Raman extensometry study of NLM202□ and Hi-nicalon□ SiC fibres. *Composites Part B: Engineering*, **1998**, 29, 251-261	10	21
257	A Y2O3:Yb nanoscale magnet obtained by HEBM: C3i/C2site occupancies, size/strain analysis and crystal field levels of Yb3+ions. *Nanotechnology*, **2007**, 18, 145616	3.4	21
256	Phase transitions and electrical properties of Cs1â□ M x HSO4 â□glassy crystalsâ□and solid solutions. *Phase Transitions*, **1989**, 14, 233-242	1.3	21

255	Inside the glassmaker technology: search of Raman criteria to discriminate between Emile Gall' and Philippe-Joseph Brocard enamels and pigment signatures. *Journal of Raman Spectroscopy*, **2014**, 45, 456-464	2.3	20
254	Portuguese tin-glazed earthenware from the 17th century. Part 1: pigments and glazes characterization. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 104, 437-44	4.4	20
253	Origin of the variability of the mechanical properties of silk fibres: 2 The nanomechanics of single silkworm and spider fibres. *Journal of Raman Spectroscopy*, **2012**, 43, 1035-1041	2.3	20
252	Raman stress measurement in opaque industrial Cf/epoxy composites submitted to tensile strain. *Composites Part A: Applied Science and Manufacturing*, **2006**, 37, 646-651	8.4	20
251	Raman imaging of stress-induced phase transformation in transparent ZnSe ceramic and sapphire single crystals. *Journal of Raman Spectroscopy*, **2002**, 33, 789-795	2.3	20
250	UV-Visible and IR Spectroelectrochemical Studies of FeVO4 Sol-Gel Films for Electrochromic Applications. *Journal of Sol-Gel Science and Technology*, **2002**, 23, 165-181	2.3	20
249	Skin/bulk nanostructure and corrosion of SiC-based fibres: a surface Rayleigh and Raman study. *Journal of Raman Spectroscopy*, **2003**, 34, 786-794	2.3	20
248	Raman Study of Hi-Nicalon-Fiber-Reinforced Celsian Composites: I, Distribution and Nanostructure of Different Phases. *Journal of the American Ceramic Society*, **2001**, 84, 1129-1135	3.8	20
247	How to tailor the porous structure of alumina and aluminosilicate gels and glasses. *Journal of Materials Research*, **1996**, 11, 518-528	2.5	20
246	Phase Transitions in Ammonium Hydrogen Selenates NH4HSeO4 and ND4DSeO4. *Physica Status Solidi A*, **1989**, 114, 531-543		20
245	Infrared study of H+(H2O)n□ alumina. *Solid State Communications*, **1979**, 32, 467-471	1.6	20
244	Vibrational study of and conduction mechanism in □alumina. II. Nonstoichiometric □alumina. *Journal of Chemical Physics*, **1981**, 75, 1388-1399	3.9	20
243	Pigments and glassy matrix of the 17thâ□18th century enamelled French watches: A non-invasive on-site Raman and pXRF study. *Journal of Cultural Heritage*, **2020**, 44, 1-14	2.9	20
242	Portuguese tin-glazed earthenware from the 16th century: A spectroscopic characterization of pigments, glazes and pastes. *Applied Surface Science*, **2013**, 285, 144-152	6.7	19
241	Non-destructive Raman characterization of Capodimonte and Buen Retiro porcelain. *Journal of Raman Spectroscopy*, **2008**, 39, 1113-1119	2.3	19
240	Phase Diagram, Short-Range Structure, and Amorphous Phases in the ZrO2-GeO2(-H2O) System. *Journal of the American Ceramic Society*, **2004**, 82, 735-741	3.8	19
239	Structural modifications of dodecatungstophosphoric acid hexahydrate induced by temperature in the 10â□358 K range. In situ high-resolution neutron powder diffraction investigation. *Solid State Ionics*, **2002**, 150, 431-442	3.3	19
238	Sol-gel control of the micro/nanostructure of functional ceramic-ceramic and metal-ceramic composites. *Journal of Materials Research*, **1998**, 13, 803-811	2.5	19

237	Nature of the protonic species and the gelâ□crystal transition in hydrated zirconium phosphate. *Journal of Molecular Structure*, **1989**, 198, 277-295	3.4	19
236	Glass Beads, Markers of Ancient Trade in Sub-Saharan Africa: Methodology, State of the Art and Perspectives. *Heritage*, **2019**, 2, 2343-2369	1.6	18
235	Raman and IR micro-analysis of high performance polymer fibres tested in traction and compression. *Composites Science and Technology*, **2009**, 69, 10-16	8.6	18
234	Densification mechanisms of alumina, aluminosilicates and aluminoborosilicates gels, glasses and ceramics. *Journal of Sol-Gel Science and Technology*, **1994**, 2, 407-411	2.3	18
233	Defect-induced smoothing of the superionic phase transition in Cs1â□MxHSO4 protonic conductors: I. potassium substitution. *Solid State Ionics*, **1991**, 44, 215-225	3.3	18
232	Hydrogen bonding in hydrogen-substituted lithium aluminosilicates. *Journal of Molecular Structure*, **1992**, 270, 407-416	3.4	18
231	Frequency dependent conductivity and microwave relaxations in protonic conductors. *Solid State Ionics*, **1993**, 61, 55-62	3.3	18
230	Elaboration and thermal stability of (alumina, aluminosilicate/iron, cobalt, nickel) magnetic nanocomposites prepared through a sol-gel route. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1993**, 168, 199-203	5.3	18
229	Vibrational study of phase transitions and conductivity mechanism in H3OUO2PO4.3 H2O (HUP). *Solid State Communications*, **1985**, 53, 747-751	1.6	18
228	Ceramiques d'alumine □et de ferrite □pour sonde a protons. *Materials Research Bulletin*, **1980**, 15, 1817-1827	5.1	18
227	The structural and dynamics neutron study of proton conductors: Difficulties and improvement procedures in protonated perovskite. *European Physical Journal: Special Topics*, **2012**, 213, 171-193	2.3	17
226	Bulkâ□urface nanostructure and defects in polyaniline films and fibres. *Synthetic Metals*, **2003**, 139, 215-220	3.9	17
225	Low-temperature sintering and optimal physical properties: a challenge â□the NASICON ceramics case. *Journal of Materials Science Letters*, **1985**, 4, 956-959		17
224	Protonic species, conductivity, and vibrational spectra of □alumina. *Solid State Ionics*, **1981**, 5, 241-244	3.3	17
223	Non-Invasive On-Site Raman Study of Pigments and Glassy Matrix of 17thâ□18th Century Painted Enamelled Chinese Metal Wares: Comparison with French Enamelling Technology. *Coatings*, **2020**, 10, 471	2.9	16
222	Towards refining the classification of glass trade beads imported into Southern Africa from the 8th to the 16th century AD. *Journal of Cultural Heritage*, **2016**, 19, 435-444	2.9	16
221	Raman study of model glass with medieval compositions: artificial weathering and comparison with ancient samples. *Journal of Raman Spectroscopy*, **2012**, 43, 1817-1823	2.3	16
220	Sa Huynh and Cham potteries: microstructure and likely processing. *Journal of Cultural Heritage*, **2004**, 5, 149-155	2.9	16

219	Vibrational Spectroscopy and Analytical Electron Microscopy Studies of FeâVâO and InâVâO Thin Films. *Monatshefte Fü Chemie*, **2002**, 133, 889-908	1.4	16
218	Determination of the hydroxyl content in gels and porous âglassesâ from alkoxide hydrolysis by combined TGA and BET analysis. *Journal of Porous Materials*, **1996**, 3, 193-200	2.4	16
217	Complex dielectric permittivity, bulk and surface conductivity of 12-tungstophosphoric acid hexahydrate and its dehydrated forms. *Solid State Ionics*, **1993**, 61, 179-185	3.3	16
216	Performance of a hydrogen uranyl phosphateâcarbon double-layer solid capacitor. *Applied Physics Letters*, **1986**, 48, 1348-1350	3.4	16
215	Protonic conductivity of and ion-rich alumina. II: Ammonium compounds. *Solid State Ionics*, **1984**, 13, 233-236	3.3	16
214	On-site pXRF analysis of glaze composition and colouring agents of âİznikâ tiles at Edirne mosques (15th and 16th-centuries). *Ceramics International*, **2019**, 45, 595-605	5.1	16
213	Protonation and structural/chemical stability of Ln2NiO4+ ceramics vs. H2O/CO2: High temperature/water pressure ageing tests. *Journal of Alloys and Compounds*, **2015**, 622, 1074-1085	5.7	15
212	Origin of the variability of the mechanical properties of silk fibres: 3. Order and macromolecule orientation in Bombyx mori bave, hand-stretched strings and Nephila madagascarensis spider fibres. *Journal of Raman Spectroscopy*, **2012**, 43, 1042-1048	2.3	15
211	Heterogeneity and Disorder in Ti1âFeyO2â Nanocrystal Rutile-Based Flowerlike Aggregates: Detection of Anatase. *Journal of Physical Chemistry C*, **2011**, 115, 4395-4403	3.8	15
210	Sol-gel control of matrix net-shape sintering in 3D fibre reinforced ceramic matrix composites. *Journal of the European Ceramic Society*, **1997**, 17, 1475-1483	6	15
209	Inelastic neutron scattering studies of polyanilines and partially deuterated analogues. *Chemical Physics*, **1997**, 216, 281-293	2.3	15
208	Hydrogen in perovskites: Mechanism of solubility, chemical state, effect on electron subsystem, phase transformation. *Ionics*, **1998**, 4, 347-354	2.7	15
207	Defect-induced smoothing of the superionic phase transition in Cs1âMxHSO4 protonic conductors. II. Lithium substitution. *Solid State Ionics*, **1991**, 44, 227-234	3.3	15
206	Vibrational study of hydrogen beta alumina. *Journal of Physics C: Solid State Physics*, **1981**, 14, 4325-4333		15
205	European ceramic technology in the Far East: enamels and pigments in Japanese art from the 16th to the 20th century and their reverse influence on China. *Heritage Science*, **2020**, 8,	2.5	15
204	The ideal ceramic-fibre/oxide-matrix composite: how to reconcile antagonist physical and chemical requirements?. *European Journal of Control*, **2005**, 30, 673-688	2.5	15
203	Raman spectroscopic and SEM/EDXS analyses of high translucent Nantgarw porcelain. *Journal of the European Ceramic Society*, **2020**, 40, 4664-4675	6	15
202	Phase transitions and dielectric relaxations in superionic protonic conductor HUP (H3OUO2PO4.3H2O) in the broad frequency range (10-2-1010 Hz). *Journal De Physique*, **1987**, 48, 1325-1336		15

201	Non-invasive on-site Raman study of polychrome and white enamelled glass artefacts in imitation of porcelain assigned to Bernard Perrot and his followers. *Journal of Raman Spectroscopy*, **2020**, 51, 133-146	2.3	15
200	Origin of the variability of the mechanical properties of silk fibers: 4. Order/crystallinity along silkworm and spider fibers. *Journal of Raman Spectroscopy*, **2014**, 45, 895-902	2.3	14
199	Structural modifications induced by free protons in proton conducting perovskite zirconate membrane. *Solid State Ionics*, **2012**, 225, 214-218	3.3	14
198	Nanomechanics of advanced polymer fibres. *Composites Science and Technology*, **2009**, 69, 1437-1441	8.6	14
197	Effects of O2+ ions beam irradiation on crystal structure of rare earth sesquioxides. *Applied Surface Science*, **2009**, 255, 7601-7604	6.7	14
196	Micro-Raman stress imaging of ceramic (C, SiC)-fiber-reinforced ceramic-matrix and metalâmatrix composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2000**, 288, 132-137	5.3	14
195	Silver -alumina. *Journal of Solid State Chemistry*, **1980**, 33, 149-151	3.3	14
194	Characterization of pottery from Republic of Macedonia. III. A study of comparative mineralogical detection efficiency using micro-Raman mapping and X-ray diffraction. *Journal of Raman Spectroscopy*, **2012**, 43, 792-798	2.3	13
193	The Corrosion of Ceramic-Matrix Composites*. *Materials Science Forum*, **1997**, 251-254, 833-844	0.4	13
192	Micro-Raman and IR study of the compressive behaviour of poly(paraphenylene benzobisoxazole) (PBO) fibres in a diamond-anvil cell. *Journal of Raman Spectroscopy*, **2007**, 38, 100-109	2.3	13
191	Pressureâemperature-induced conductivity in polyaniline base and salts. *Synthetic Metals*, **1996**, 81, 227-231	3.6	13
190	Radio and microwave frequency relaxations and conductivity in superionic conductor NASICON. *Solid State Ionics*, **1992**, 53-56, 813-824	3.3	13
189	Defects, phase transitions and dynamical disorder in superionic protonic conductors H3OUO2PO4 3H2O and CsHSO4. *Phase Transitions*, **1989**, 14, 55-68	1.3	13
188	SiO2-Al2O3 phase diagram and mullite non-stoichiometry of sol-gel prepared monoliths: influence on mechanical properties. *Journal of Materials Science Letters*, **1990**, 9, 1077-1079		13
187	Fast divalent ion conductionâon ordering in AND alumina (Sr2+, Cd2+, Pb2+). *Journal of Physics and Chemistry of Solids*, **1986**, 47, 693-706	3.9	13
186	Stoichiometry-structure-fast ion conduction in the nasicon solid solution. *Solid State Ionics*, **1988**, 28-30, 403-410	3.3	13
185	Li+ eucryptite superionic conductors thick films. *Journal of Materials Science Letters*, **1985**, 4, 344-346		13
184	New glasses from metal organic precursors: Preparation and properties. *Journal of Non-Crystalline Solids*, **1986**, 82, 205-209	3.9	13

183	Revisiting Baranda: a multi-analytical approach in classifying sixteenth/seventeenth-century glass beads from northern Zimbabwe. *Antiquity*, **2017**, 91, 751-764	1	12
182	Unravelling the glass trade bead sequence from Magoro Hill, South Africa: separating pre-seventeenth-century Asian imports from later European counterparts. *Heritage Science*, **2016**, 4,	2.5	12
181	Ruby micro-piezospectroscopy in GdAlO3/Al2O3(/ZrO2), Er3Al5O12/Al2O3(/ZrO2) and Y3Al5O12/Al2O3(/ZrO2) binary and ternary directionally solidified eutectics. *Journal of the European Ceramic Society*, **2012**, 32, 2145-2151	6	12
180	Raman Mapping for the Investigation of Nano-phased Materials. *Springer Series in Optical Sciences*, **2012**, 85-118	0.5	12
179	Types, structure and mechanical properties of silk **2009**, 144-178		12
178	Raman and infrared analysis of glues used for pottery conservation treatments. *Journal of Raman Spectroscopy*, **2009**, 40, 1641-1644	2.3	12
177	Optical spectroscopy of silicates and glasses. *Spectroscopic Properties of Inorganic and Organometallic Compounds*,128-149		12
176	Identification of protonic species and their dynamic equilibrium in magnesium and calcium salts of 12-tungstophosphoric acid. *Solid State Ionics*, **1999**, 125, 425-429	3.3	12
175	Foreword to the special issue on Raman (micro)spectrometry and materials science. *Journal of Raman Spectroscopy*, **1999**, 30, 863-866	2.3	12
174	New sol-gel matrices of chemically stable composites of BAS, NAS and CAS. *Composites Science and Technology*, **1996**, 56, 739-746	8.6	12
173	Chemical reactions at the liquid-solid interface in meso/microporous inorganic gels and glasses. *Journal of Physics and Chemistry of Solids*, **1996**, 57, 1907-1918	3.9	12
172	Raman study of the inorganic polymer -> superionic nasicon tranformation : dynamical, static orientational disorder and superionic conductivity. *Journal of Molecular Structure*, **1986**, 143, 191-194	3.4	12
171	Nasicon analog Na3Sc2(PO4)3: Thermal behaviour of the □ and □ types, structure, correlations and transitions. *Solid State Ionics*, **1988**, 28-30, 437-441	3.3	12
170	Hydrogenated □alumina-like thin films. *Solid State Ionics*, **1983**, 9-10, 1465-1468	3.3	12
169	Identification par microscopie Raman des tessons et pigments de gla□ures de c□amiques de L'Ifriqiya (Dougga, XI-XVIII□mes si□cles). *ArcheoSciences*, **2001**, 25, 101-112		12
168	Investigation of the Pigments and Glassy Matrix of Painted Enamelled Qing Dynasty Chinese Porcelains by Noninvasive On-Site Raman Microspectrometry. *Heritage*, **2020**, 3, 915-940	1.6	12
167	On-site pXRF analysis of body, glaze and colouring agents of the tiles at the excavation site of Iznik kilns. *Journal of the European Ceramic Society*, **2019**, 39, 2199-2209	6	11
166	Solvent Effects on Cobalt Nanocrystal Synthesisâ□A Facile Strategy To Control the Size of Co Nanocrystals. *Journal of Physical Chemistry C*, **2016**, 120, 22054-22061	3.8	11

165	Towards Microwave Absorbing Metal-Oxide Nanocomposites: The Problem of Metal/Matrix Reaction. *Journal of Sol-Gel Science and Technology*, **1998**, 11, 299-307	2.3	11
164	High-temperature phase equilibria in the oxide systems SrFe1â□GaxO2.5â□SrFe1â□GaxO3 (, 0.1, 0.2). *Journal of Solid State Chemistry*, **2006**, 179, 1093-1099	3.3	11
163	The O2/H2O redox couple as the origin of the structural/electronic defects in polyanilines. *Synthetic Metals*, **2003**, 139, 175-186	3.6	11
162	Physical chemistry and mechanical imaging of ceramic-fibre-reinforced ceramic- or metal-matrix composites. *Composites Science and Technology*, **2001**, 61, 383-388	8.6	11
161	Electrochromic and Ex Situ IR and Raman Spectroelectrochemical Studies of Li[sub x]InVO[sub 4] Films Charged/Discharged in the 0 Journal of the Electrochemical Society, **2001**, 148, H49	3.9	11
160	Percolation threshold and interface optimization in a HUP/C doublelayer supercapacitor. *Journal of Materials Science Letters*, **1986**, 5, 415-417		11
159	EPR study of ordering in stoichiometric □aluminate. *Physica Status Solidi A*, **1983**, 76, 565-574		11
158	Elaboration de ceramiques superconductrices anisotropes (Na+ □Al2O3) par chauffage microondes. *Materials Research Bulletin*, **1978**, 13, 135-139	5.1	11
157	Portable X-ray Fluorescence (p-XRF) Uncertainty Estimation for Glazed Ceramic Analysis: Case of Iznik Tiles. *Heritage*, **2020**, 3, 1302-1329	1.6	11
156	Cobalt and Associated Impurities in Blue (and Green) Glass, Glaze and Enamel: Relationships between Raw Materials, Processing, Composition, Phases and International Trade. *Minerals (Basel, Switzerland)*, **2021**, 11, 633	2.4	11
155	The short-range structure and hydration process of fluorine-substituted double perovskites based on barium-calcium niobate Ba2CaNbO5.5. *Journal of Physics and Chemistry of Solids*, **2018**, 118, 32-39	3.9	10
154	Low wavenumber Raman scattering of cobalt nanoparticles self-organized in 3D superlattices far from surface plasmon resonance. *Journal of Raman Spectroscopy*, **2016**, 47, 248-251	2.3	10
153	Amino-methyl coumarin as a potential SERS@Ag probe for the evaluation of protease activity and inhibition. *Journal of Raman Spectroscopy*, **2017**, 48, 82-88	2.3	10
152	Chapter 8:Pottery, Glass and Enamelled Artefacts: How to Extract Information on their Manufacture Technology, Origin and Age? **2012**, 245-267		10
151	Pigment identification of a rare 18th century wallpaper from Buffon library. *Journal of Raman Spectroscopy*, **2011**, 42, 192-194	2.3	10
150	Heterogeneity, nucleation, shrinkage and bloating in solâ□el glass ceramics (the case of lithium aluminosilicate compositions). *Journal of Materials Science*, **1997**, 32, 3541-3548	4.3	10
149	Pore size and liquid impregnation of microporous aluminosilicate gels and glasses. *Microporous Materials*, **1996**, 5, 389-400		10
148	Phase transition in, thermal history and expansion of NASICON, solid solution and lithium derivative ceramics and of SiC (mullite) fibers-NASICON composites. *Solid State Ionics*, **1994**, 73, 209-220	3.3	10

147	RF-microwave dielectric relaxation and conductivity in Cs1âMxHSO4 disordered protonic conductors. *Solid State Ionics*, **1991**, 46, 151-157	3.3	10
146	Acetone intercalation/de-intercalation processes in the HUP (H3OUO2PO4H2O) framework: A model for electrochemical degradation. *Journal of Materials Science*, **1986**, 21, 1591-1600	4.3	10
145	Quasi-long range order in rich, alumina with a composition close to that of : Consequences on ionic conductivity. *Solid State Ionics*, **1981**, 5, 157-158	3.3	10
144	Beads excavated from Antsiraka Boira necropolis (Mayotte Island, 12th-13th centuries). *ArcheoSciences*, **2016**, 83-102	0.1	10
143	CdSxSe1-x quantum dots as colouring agents of Art Nouveau and contemporary stained glass: a combined transmission electron microscopy and Raman study. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2016**, 374,	3	10
142	The Raman signature of protonic species as a potential tool for dating or authentication of glazed pottery. *Journal of Raman Spectroscopy*, **2019**, 50, 696-710	2.3	9
141	Structural stability of anhydrous proton conducting SrZr0.9Er0.1O3â perovskite ceramic vs. protonation/deprotonation cycling: Neutron diffraction and Raman studies. *Journal of Physics and Chemistry of Solids*, **2015**, 83, 85-95	3.9	9
140	Understanding the nano- and macromechanical behaviour, the failure and fatigue mechanisms of advanced and natural polymer fibres by Raman/IR microspectrometry. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2013**, 4, 013001	1.6	9
139	Bulk protons in anhydrous perovskitesâneutron scattering studies. *Solid State Ionics*, **2013**, 252, 7-11	3.3	9
138	What is the true nature of conducting proton in perovskite ceramic membrane: hydroxyl ion or interstitial proton ?. *Materials Research Society Symposia Proceedings*, **2011**, 1309, 141		9
137	Potential and Drawbacks of Raman (Micro)spectrometry for the Understanding of Iron and Steel Corrosion **2011**,		9
136	Influence of Heat Treatment on the Physical Transformations of Flint Used by Neolithic Societies in the Western Mediterranean. *Materials Research Society Symposia Proceedings*, **2011**, 1319, 1		9
135	In Situ Resonance Raman Spectroelectrochemical Studies of a Semisolid Redox (I[sub 3][sup â]/I[sup â]) Electrolyte Encapsulated in a Hybrid Electrochromic Cell. *Journal of the Electrochemical Society*, **2004**, 151, E150	3.9	9
134	Choice of the working conditions for Raman extensometry of carbon and SiC fibers by 2D correlation. *Composites Science and Technology*, **2002**, 62, 505-511	8.6	9
133	Inelastic neutron-scattering study of proton dynamics in alumina. *Solid State Ionics*, **1995**, 77, 45-50	3.3	9
132	Inelastic neutron scattering study of proton dynamics in polyanilines. *Synthetic Metals*, **1996**, 81, 211-214	3.6	9
131	Radiowave and microwave frequency dielectric relaxations at the superionic, incommensurate and ferroelectric phase transitions in NH4HSeO4and ND4DSeO4. *Journal of Physics Condensed Matter*, **1992**, 4, 5625-5638	1.8	9
130	Vibrational study of hydrogenated uranyl phosphates hydrates (HUP). *Solid State Ionics*, **1983**, 9-10, 1055-1060	3.3	9

129	Regenerated silk matrix composite materials reinforced by silk fibres: Relationship between processing and mechanical properties. *Journal of Composite Materials*, **2018**, 52, 2301-2311	2.7	9
128	Structural modifications of lanthanum silicate oxyapatite exposed to high water pressure. *Journal of the European Ceramic Society*, **2017**, 37, 2149-2158	6	8
127	The Chronology of Insiza Cluster Khami-Phase Sites in South-Western Zimbabwe: Compositional Insights from pXRF and Raman Analysis of Excavated Exotic Glass Finds. *Archaeometry*, **2019**, 61, 874-890	1.6	8
126	The origin of Mg sulphate and other salts formed on pure calcium carbonate substrate â Tufa stone blocks built into the Gradac Monastery, Serbia. *Construction and Building Materials*, **2015**, 98, 25-34	6.7	8
125	Optimum temperature range for the proton dynamics in H-doped BaZrO3:Yb dense ceramicsâ neutron scattering study. *Journal of Materials Research*, **2012**, 27, 1939-1949	2.5	8
124	Origins of rapid aging of Ba-based proton conducting perovskites. *Materials Research Society Symposia Proceedings*, **2011**, 1311, 10701		8
123	Non-Destructive Mechanical Characterization of (Nano-Sized) Ceramic Fibers. *Key Engineering Materials*, **2001**, 206-213, 677-680	0.4	8
122	Nature of Protons, Phase Transitions, and Dynamic Disorder in Poly- and Oligoaniline Bases and Salts: An Inelastic Neutron Scattering Study. *Macromolecules*, **2002**, 35, 5203-5211	5.5	8
121	Gyromagnetic microwave resonance of cobalt-aluminoborosilicate nanocomposites. *Journal of Materials Science Letters*, **1996**, 15, 137-141		8
120	EXAFS and XANES study of (Si, Ge) mullite gels and glasses prepared by slow hydrolysis of alkoxides. *Journal of Non-Crystalline Solids*, **1992**, 147-148, 135-140	3.9	8
119	Vibrational study of some solid protonic superionic conductors. *Journal of Molecular Structure*, **1986**, 141, 211-218	3.4	8
118	Stoichiometry fluctuations in divalent rich and alumina. *Solid State Ionics*, **1983**, 9-10, 315-321	3.3	8
117	Stress- and Nanostructure-Imaging of Ceramic Fibers and Abradable Thermal Barrier Coatings by Raman Microspectrometry-State of the Art and Perspectives. *Ceramic Engineering and Science Proceedings*,143-153	0.1	8
116	Fourier Transform Raman and Statistical Analysis of Thermally Altered Samples of Amber. *Applied Spectroscopy*, **2015**, 69, 1457-63	3.1	7
115	Core and shell structure of ytterbium sesquioxide nanoparticles. *Journal of Alloys and Compounds*, **2010**, 502, 107-111	5.7	7
114	Effects of Eu3+ concentration on structural, optical and vibrational properties of multifunctional Ce(1-x)Eu(x)O2-delta) nanoparticles synthesized by thermolysis of 2,4-pentanedione complexes. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 8893-9	1.3	7
113	Chromogenic WPA/TiO2 hybrid gels and films. *Journal of Sol-Gel Science and Technology*, **1997**, 8, 965-971	1.3	7
112	The influence of monovalent and bivalent cations on the electrical properties of 12-Tungstophosphoric acid salts. *Solid State Ionics*, **2005**, 176, 2881-2885	3.3	7

111	Polymorphism and disorder in oligo- and polyanilines.. *Synthetic Metals*, **1999**, 101, 795-796	3.6	7
110	Polymerized aniline in porous amorphous frameworks: A vibrational and conductivity study. *Microporous Materials*, **1995**, 4, 65-81		7
109	Structure and local order in monovalent and divalent and ; alumina. *Solid State Ionics*, **1986**, 18-19, 663-667	3.3	7
108	Etude comparative des structures des alumines stoechiometrique et non stoechiometrique: Transition de phase dans l'alumine stoechiometrique (II). *Journal of Physics and Chemistry of Solids* , **1980**, 41, 253-258	3.9	7
107	-and ion-rich alumina: Comparison of vibrational spectra and conductivity parameters. *Solid State Ionics*, **1981**, 2, 277-288	3.3	7
106	Dorures des c̀amiques et tesselles anciennes´: technologies et accrochage. *ArcheoSciences*, **2005**, 7-20	0.1	7
105	Raman microspectroscopy for Cultural Heritage studies. *Physical Sciences Reviews*, **2018**, 3,	1.4	7
104	Raman and XRF classification of Asian and European glass beads recovered at Mutamba, a southern African Middle Iron Age site. *Journal of Archaeological Science: Reports*, **2017**, 13, 333-340	0.7	6
103	Double particle reinforcement of ceramic-matrix composites prepared by a sol-gel route. *Composites Science and Technology*, **1998**, 58, 653-658	8.6	6
102	Raman/ Rayleigh Study of Nanophases. *Materials Science Forum*, **2004**, 453-454, 269-276	0.4	6
101	Calorimetric (DSC) study of phase transitions in NH4HSeO4 and ND4DSeO4 crystals. *Solid State Communications*, **1988**, 67, 969-974	1.6	6
100	Vibrational spectra of different phases belonging to the and alumina and to the nasicon family. *Solid State Ionics*, **1981**, 5, 193-196	3.3	6
99	The enamels of the first (soft-paste) European blue-and-white porcelains: Rouen, Saint-Cloud and Paris factories: Complementarity of Raman and X-ray fluorescence analyses with mobile instruments to identify the cobalt ore. *Journal of Raman Spectroscopy*,	2.3	6
98	Face to face with enemyâanalysis of aqua carbonate hydroxide second surface phases in proton conducting perovskite ceramic electrolytic membrane.. *Materials Research Society Symposia Proceedings*, **2012**, 1384, 1		5
97	Synthesis and characterisation of proton conducting ceramic membranes. *Desalination*, **2006**, 200, 92-94	10.3	5
96	Raman and Rayleigh mapping of corrosion and mechanical aging in SiC fibres. *Composites Science and Technology*, **2005**, 65, 353-358	8.6	5
95	Aniline polymerisation in HUP-like frameworks. *Solid State Ionics*, **1995**, 78, 19-30	3.3	5
94	Fuel-cells, steam-electrolysis for hydrogen production and hydrogen separation using high temperature protonic conductors **1992**, 511-522		5

93	Electron accumulation layer at n-Si/non-liquid electrolyte interfaces. *Applied Physics Letters*, **1987**, 51, 1121-1123	3.4	5
92	Post-15th century European glass beads in southern Africa: Composition and classification using pXRF and Raman spectroscopy. *Journal of Archaeological Science: Reports*, **2020**, 29, 102183	0.7	4
91	Silk **2018**, 137-183		4
90	Heterogeneity in iron-doped titania flower-like nanocrystalline aggregates: detection of brookite and anatase/rutile sizeâ€Strain modeling. *Journal of Applied Crystallography*, **2013**, 46, 1874-1876	3.8	4
89	On-site analysis of Chinese Cloisonn'enamels from fifteenth to nineteenth centuries. *Journal of Raman Spectroscopy*, **2009**, 41, n/a-n/a	2.3	4
88	Polarized micro-Raman study of Al2O3-based directionally solidified oxide eutectics containing GdAlO3 perovskite, Er3Al5O12 garnet and cubic ZrO2. *Journal of Raman Spectroscopy*, **2010**, 41, 969-977	2.3	4
87	In situ resonance micro-Raman and UVâ€visible spectroelectrochemical studies of an electrochromic device with an I3â€/Iâ€redox solâ€gel electrolyte. *Solid State Ionics*, **2003**, 165, 247-255	3.3	4
86	Structural evolution in polyolysed hybrid organic-inorganic alumina gels. *Journal of Materials Science*, **2000**, 35, 1565-1570	4.3	4
85	Sol-Gel Routes towards Magnetic Nanocomposites with Tailored Microwave Absorption. *Materials Research Society Symposia Proceedings*, **1996**, 457, 451		4
84	Proton dynamics in β-alumina. *Physica B: Condensed Matter*, **1995**, 213-214, 634-636	2.8	4
83	Anhydrous materials: oxonium perchlorate, acid phosphates, arsenates, sulphates and selenates **1992**, 165-182		4
82	The monoclinic phase of true NASICON: Structure, correlations and transition. *Solid State Ionics*, **1988**, 28-30, 427-431	3.3	4
81	Fast potassium ion conduction in quenched kasicon glass. *Journal of Non-Crystalline Solids*, **1982**, 51, 273-276	3.3	4
80	Liaison hydrogène, mobilité protonique, structure et transfert électronique dans les polyanilines. *Journal De Chimie Physique Et De Physico-Chimie Biologique*, **1995**, 92, 951-954		4
79	RELATION STRUCTURE-CONDUCTIVITÉ IONIQUE DANS LES COMPOSÉS DE TYPE ALUMINE β. *Journal De Physique Colloque*, **1978**, 39, C2-204-C2-213		4
78	On-Site Raman Spectroscopic Study of Beads from the Necropolis of Vohemar, Northern Madagascar (>13th C.). *Heritage*, **2021**, 4, 524-540	1.6	4
77	The Technology Transfer from Europe to China in the 17th-18th Centuries: Non-Invasive On-Site XRF and Raman Analyses of Chinese Qing Dynasty Enameled Masterpieces Made Using European Ingredients/Recipes. *Materials*, **2021**, 14,	3.5	4
76	Crystal structure, chemical stability and electrical properties of Sr2MnNbO6 â€Sr2Cr0.5Mn0.5NbO6 â€and Sr2CuNbO6 â€perovskites. *Journal of Solid State Electrochemistry*, **2017**, 21, 3179-3187	2.6	3

75	Identification of Lithol Red Synthetic Organic Pigment Reveals the Cause of Paint Layer Degradation on the Lazar Vozarevi Painting â Untitledâ with Copper Plates. *Heritage*, **2019**, 2, 2612-2624	1.6	3
74	Nonâ Destructive Raman Analysis of Ancient Glasses and Glazes **2013**, 275-300		3
73	High water pressure - high temperature autoclave for in situ Raman study of fuel cell/electrolyser materials. *Materials Research Society Symposia Proceedings*, **2012**, 1385, 1		3
72	Lattice defects in nanocrystalline CeO2 thin films. *Radiation Effects and Defects in Solids*, **2001**, 156, 109-115	0.9	3
71	The hydrogen bond and chemical parameters favouring proton mobility in solids **1992**, 1-17		3
70	Frequency dependent conductivity, microwave dielectric relaxation and proton dynamics **1992**, 389-408		3
69	Proton-containing and -alumina structure type compounds **1992**, 190-209		3
68	Vibrational spectroscopy of proton conductors **1992**, 367-376		3
67	Structure, ion-ion correlation and compensation mechanisms in and -alumina. *Solid State Ionics*, **1988**, 28-30, 324-332	3.3	3
66	Neutron scattering in Ag+ and Na+ aluminas. *Solid State Communications*, **1983**, 45, 203-207	1.6	3
65	Dilatometric study of alumina single crystals. *Solid State Ionics*, **1981**, 2, 185-189	3.3	3
64	X-ray study of alumina: Consequence of the conduction slab on electrical properties. *Solid State Ionics*, **1981**, 5, 151-152	3.3	3
63	Evidence for 3-D ion-ion correlations in silver alumina. *Solid State Communications*, **1981**, 38, 1171-1174	1.6	3
62	Non-invasive Raman Analysis of 18th Century Chinese Export/Armorial Overglazed Porcelain: Identification of the Different Enameling Techniques. *Heritage*, **2022**, 5, 233-259	1.6	3
61	Nano/microstructure and Property Control of Single and Multiphase Materials. *Materials Engineering*, **2005**, 303-340		3
60	Micro- et nanom canique des fibres naturelles (animales). *Revue Des Composites Et Des Materiaux Avances*, **2008**, 18, 163-75	2.1	3
59	Relations conductivit /microstructure dans des c ramiques composites superconducteur (NASICON)/verre isolant. *Revue De Physique Appliqu* , **1987**, 22, 719-727		3
58	Chemical Preparation Routes and Lowering the Sintering Temperature of Ceramics. *Ceramics*, **2020**, 3, 312-339	1.7	3

57	Asbestos-Based Pottery from Corsica: The First Fiber-Reinforced Ceramic Matrix Composite. *Materials*, **2020**, 13,	3.5	3
56	On-site contactless surface analysis of modern paintings from Galleria Nazionale (Rome) by reflectance FTIR and Raman spectroscopies. *Talanta*, **2021**, 227, 122159	6.2	3
55	Raman identification of the different glazing technologies of Blue-and-White Ming porcelains. *Ceramics International*, **2021**, 48, 1673-1673	5.1	3
54	SiC, from Amorphous to Nanosized Materials, the Exemple of SiC Fibres Issued of Polymer Precursors **2011**,		2
53	Raman Spectroscopy of Ceramics and Glasses **2012**, 469-479		2
52	Cultural heritage materials: structural and spectroscopic evidence for ancient technologies. *Phase Transitions*, **2008**, 81, 139-144	1.3	2
51	Investigation of (PO4)/(WO6)3 - Lattice Components of Keggin's Anion Interaction with Cations in Alkaline-Earth Salts of 12-Tungstophosphoric Acid. *Materials Science Forum*, **2007**, 555, 201-206	0.4	2
50	Raman Spectrometry, a Unique Tool for On-Site Analysis and Identification of Ancient Ceramics and Glasses. *Materials Research Society Symposia Proceedings*, **2004**, 852, 210		2
49	Raman imaging of grain growth mechanism in highly textured Pb(Mg1/3Nb2/3)O3-PbTiO3piezoelectric ceramics*. *European Physical Journal Special Topics*, **2005**, 126, 73-76		2
48	Identification of Antique and Modern European or Asian Porcelains by Non-Destructive Raman Spectrometry. *Key Engineering Materials*, **2001**, 206-213, 901-904	0.4	2
47	A Nanocomposite Gel Electrolyte Made by the Sol-Gel Route for a Solid-State Dye-Sensitized Photoelectrochemical and Electrochromic Cells. *Materials Research Society Symposia Proceedings*, **2002**, 725, 1		2
46	Raman and dilatometric studies of RbAgSO4 and TlAgSO4 fast ion conductors. *Solid State Ionics*, **1994**, 70-71, 167-175	3.3	2
45	Solid-state gas sensors operating at room temperature **1992**, 527-538		2
44	Supercapacitors and interfacial charge accumulation devices **1992**, 567-572		2
43	Thermal behavior of ion rich Na and Na alumina. *Solid State Ionics*, **1983**, 9-10, 311-313	3.3	2
42	Low frequency vibrational study of and conduction mechanism in alumina. *Solid State Communications*, **1981**, 39, 83-88	1.6	2
41	Applications of Modern Analysis Techniques in Searching back Ancient Art Ceramic Technologies. *Journal of Analytical Science and Technology*, **2011**, 2, A78-A83	3.4	2
40	Vibrational Spectroscopy and Analytical Electron Microscopy Studies of Fe-V-O and In-V-O Thin Films **2002**, 153-172		2

39	Glazes and Enamels **2021**, 1309-1325		2
38	7. Raman microspectroscopy for Cultural Heritage studies **2020**, 151-180		1
37	Stress and temperature driven phase transitions in single crystalline KNbO3 and textured KNL-NTS ceramics: A Raman andthermal expansion study **2014**,		1
36	Water pressure enhanced sintering of alkaline-earth perovskite ceramics. *Ceramics International*, **2015**, 41, 11528-11533	5.1	1
35	Raman scattering investigation of poled and unpoled PbMg1/3Nb2/3O3-PbTiO3single crystals and textured ceramics. *Journal of Physics: Conference Series*, **2007**, 92, 012159	0.3	1
34	Recent Case Studies in the Raman Analysis of Ancient Ceramics: Glaze Opacification in Abbasid Pottery, Medici and 18th century French Porcelains, Iznik and Kȗtayha Ottoman Fritwares and an Unexpected Lapis Lazuli Pigment in Lajvardina Wares. *Materials Research Society Symposia Proceedings*, **2004**, 852, 225		1
33	Measurement of the Residual Stress of Matrix-Embedded Fibers by Raman Spectrometry: State of the Art and Perspectives. *Key Engineering Materials*, **2001**, 206-213, 617-620	0.4	1
32	Interaction of oligoaniline molecules with metallic surfaces. a hreels study.. *Synthetic Metals*, **1999**, 101, 650-651	3.6	1
31	Sol-gel route to functional and hierarchical ceramic matrix composites **1996**, 2779, 813		1
30	Rayleigh study of the conduction mechanism in non-stoichiometric ß alumina. *Ferroelectrics*, **1992**, 125, 391-394	0.6	1
29	From crystalline to amorphous (particle) hydrates: inorganic polymers, glasses, clays, gels and porous media **1992**, 272-293		1
28	Hydrogen uranyl phosphate, H3OUO4PO4. 3H2O (HUP), and related materials **1992**, 254-271		1
27	Raman spectroscopic studies of proton conductors **1992**, 377-388		1
26	Mullite and SiC Matrix SiC Fibre Composites for High Temperature Application **1992**, 726-734		1
25	âBlue-â and âBrown-speckledâ pottery from Qalhâ, the Sultanate of Oman (13â16th centuries): Comparison with traditional Omani 19â20 century productions. *Boletin De La Sociedad Espanola De Ceramica Y Vidrio*, **2020**, 61, 13-13	1.9	1
24	An on-site Raman and pXRF study of Joseph Coteau and Philippe Parpetteâs jewelled porcelain: a summit of ceramic art. *Journal of Cultural Heritage*, **2020**, 46, 82-94	2.9	1
23	Enhanced structural and magnetic properties of fcc colloidal crystals of cobalt nanoparticles. *Nanoscale*, **2020**, 12, 24020-24029	7.7	1
22	Stability of lauric acid at high pressure studied by Raman spectroscopy and picosecond acoustics. *European Physical Journal B*, **2019**, 92, 1	1.2	0

21	The early porcelain kilns of Arita: Identification of raw materials and their use from the 17th to the 19th century. *Open Ceramics*, **2022**, 9, 100217	3.3	0
20	On-Site Identification of Pottery with pXRF: An Example of European and Chinese Red Stonewares. *Heritage*, **2022**, 5, 88-102	1.6	0
19	Understanding Fracture and Fatigue at the Chemical Bond Scale: Potential of Raman Spectroscopy **2018**, 1-19		
18	Natural Nanosized Raw Materials and Sol-Gel Technology: The Base of Pottery Since Millenniums **2016**, 59-73		
17	Sol-Gel Routes and Proton Conductors **2012**, 59-71		
16	Structural and Electrical Properties of Nanostructured Ba0.8Sr0.2TiO3 Films Deposited by Pulsed Laser Deposition. *Journal of Nano Research*, **2012**, 18-19, 299-306	1	
15	Raman Image of the SiC Fibers Nanostructure. *Ceramic Transactions*, **2012**, 101-108	0.1	
14	Confocal Raman Imaging of (Uncoated/Coated) HPZ Fibers Reinforcing Celsian Matrix Composites, Before and After Alkaline Corrosion. *Ceramic Transactions*, **2012**, 203-215	0.1	
13	Raman and Rayleigh Imaging of the Corrosion Process of SiC Fibers. *Ceramic Transactions*, **2012**, 47-54	0.1	
12	Raman Scattering Theory and Elements of Raman Instrumentation **2008**, 11-29		
11	Microstructural Mechanisms of Fatigue Failure in PA66 Fibers. *Materials Science Forum*, **2007**, 560, 133-138	0.4	
10	Raman Imaging and Thermal Expansion of Highly Textured Pb(Mg1/3Nb2/3)O3-PbTiO3 Piezoelectric Ceramics. *Materials Research Society Symposia Proceedings*, **2004**, 855, 48		
9	Raman and Rayleigh Smart Imaging of Nanophases and Nanosized Materials. Alternatives Techniques to SEM, TEM and AFM ?. *Materials Research Society Symposia Proceedings*, **2004**, 838, 103		
8	Dynamics investigations of the proton conductor 12-tungstophosphoric acid by neutron scattering. *Acta Physica Hungarica*, **1994**, 75, 285-289		
7	Defects, non-stoichiometry and phase transitions **1992**, 61-78		
6	Conductivity mechanisms and models in anhydrous protonic conductors **1992**, 457-473		
5	Understanding Fracture and Fatigue at the Chemical Bond Scale: Potential of Raman Spectroscopy **2019**, 655-672		
4	Radiofrequency and microwave relaxations. A method to determine local and long-range dynamics of charge carriers **1992**, 587-592		

3	Porous Structures of Sol-Gel Al2O3(-3SiO2) Gels and âGlassesâInfiltrated by Aqueous Solutions **1993**, 339-344	
2	Alkaline Corrosion of SiC and Carbon Fibers Surface - A Raman and Electron Microscopy Study. *Ceramic Transactions*,157-168	0.1
1	Raman/Rayleigh Study of Nanophases. *Ceramic Engineering and Science Proceedings*,41-50	0.1