Vincenzo Crupi

List of Publications by Year
in descending order

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86	1,600	257357	360920
papers	citations	24 h-index	35 g-index

87	87	87	1804
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of the solvent in the dynamical transitions of proteins: The case of the lysozyme-water system. Journal of Chemical Physics, 2007, 127, 045104.	1.2	96
2	A new insight on the hydrogen bonding structures of nanoconfined water: a Raman study. Journal of Raman Spectroscopy, 2008, 39, 244-249.	1.2	59
3	Diffusive Relaxations and Vibrational Properties of Water and H-bonded Systems in Confined State by Neutrons and Light Scattering:Â State of the Art. Journal of Physical Chemistry A, 2000, 104, 11000-11012.	1.1	55
4	TiO2â€“SiO2â€“PDMS nanocomposite coating with self-cleaning effect for stone material: Finding the optimal amount of TiO2. Construction and Building Materials, 2018, 166, 464-471.	3.2	54
5	T dependence of vibrational dynamics of water in ion-exchanged zeolites A: A detailed Fourier transform infrared attenuated total reflection study. Journal of Chemical Physics, 2005, 123, 154702.	1.2	53
6	Physicochemical Characterization and Antioxidant Activity Evaluation of Idebenone/Hydroxypropyl-Î²-Cyclodextrin Inclusion Complex â€. Biomolecules, 2019, 9, 531.	1.8	51
7	Effect of Cross-Linking Properties on the Vibrational Dynamics of Cyclodextrins-Based Polymers: An Experimentalâ€“Numerical Study. Journal of Physical Chemistry B, 2012, 116, 7952-7958.	1.2	50
8	Dynamical response of liquid water in confined geometry by laser and neutron spectroscopiesPresented at the LANMAT 2001 Conference on the Interaction of Laser Radiation with matter at Nanoscopic Scales: From Single Molecule Spectroscopy to Materials Processing, Venice, 3â€“6 October, 2001.. Physical Chemistry Chemical Physics, 2002, 4, 2768-2773.	1.3	45
9	Neutron Scattering Study and Dynamic Properties of Hydrogen-Bonded Liquids in Mesoscopic Confinement. 2. The Zeolitic Water Case. Journal of Physical Chemistry B, 2004, 108, 4314-4323.	1.2	43
10	Modelling the interplay between covalent and physical interactions in cyclodextrin-based hydrogel: effect of water confinement. Soft Matter, 2013, 9, 6457.	1.2	39
11	Connection between the vibrational dynamics and the crossâ€linking properties in cyclodextrinsâ€based polymers. Journal of Raman Spectroscopy, 2013, 44, 1457-1462.	1.2	36
12	Multi-technique investigation of Roman decorated plasters from Villa dei Quintili (Rome, Italy). Applied Surface Science, 2015, 349, 924-930.	3.1	36
13	Aggregation Phenomena in Aqueous Solutions of Uncharged Star Polymers with a Porphyrin Core. Journal of Physical Chemistry B, 2003, 107, 5095-5100.	1.2	35
14	Temperature Effect on the Vibrational Dynamics of Cyclodextrin Inclusion Complexes: Investigation by FTIR-ATR Spectroscopy and Numerical Simulation. Journal of Physical Chemistry A, 2010, 114, 6811-6817.	1.1	34
15	Inside New Materials: An Experimental Numerical Approach for the Structural Elucidation of Nanoporous Cross-Linked Polymers. Journal of Physical Chemistry B, 2012, 116, 13133-13140.	1.2	33
16	Combined non-destructive XRF and SR-XAS study of archaeological artefacts. Analytical and Bioanalytical Chemistry, 2011, 399, 3147-3153.	1.9	32
17	Direct evidence of gelâ€“sol transition in cyclodextrin-based hydrogels as revealed by FTIR-ATR spectroscopy. Soft Matter, 2014, 10, 2320-2326.	1.2	29
18	Vibrational spectroscopy investigation of swelling phenomena in cyclodextrin nanosponges. Journal of Raman Spectroscopy, 2013, 44, 1463-1469.	1.2	28

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19	Synthesis and characterization of a hyper-branched water-soluble Î²-cyclodextrin polymer. Beilstein Journal of Organic Chemistry, 2014, 10, 2586-2593.	1.3	28
20	A portableÂversus microâ€Raman equipment comparison for gemmological purposes: the case of sapphires and their imitations. Journal of Raman Spectroscopy, 2014, 45, 1309-1317.	1.2	27
21	Vibrational Density of States and Elastic Properties of Cross-Linked Polymers: Combining Inelastic Light and Neutron Scattering. Journal of Physical Chemistry B, 2014, 118, 624-633.	1.2	27
22	Cross-linked cellulose nano-sponges: a small angle neutron scattering (SANS) study. Cellulose, 2019, 26, 9005-9019.	2.4	26
23	Inelastic Neutron Scattering Study of Water in Hydrated LTA-Type Zeolites. Journal of Physical Chemistry A, 2006, 110, 1190-1195.	1.1	25
24	Water Diffusion in Nanoporous Glass:â€‰ An NMR Study at Different Hydration Levels. Journal of Physical Chemistry B, 2008, 112, 3927-3930.	1.2	25
25	The effect of hydrogen bond on the vibrational dynamics of genistein free and complexed with Î²â€cyclodextrins. Journal of Raman Spectroscopy, 2010, 41, 764-770.	1.2	24
26	A multi-technique approach for the determination of the porous structure of building stone. European Journal of Mineralogy, 2014, 26, 189-198.	0.4	23
27	2D Correlation Spectroscopy (2DCoS) Analysis of Temperature-Dependent FTIR-ATR Spectra in Branched Polyethyleneimine/TEMPO-Oxidized Cellulose Nano-Fiber Xerogels. Polymers, 2021, 13, 528.	2.0	23
28	Dynamical properties of liquids in restricted geometries. Journal of Molecular Liquids, 2005, 117, 165-171.	2.3	22
29	FTIR-ATR analysis of the H-bond network of water in branched polyethyleneimine/TEMPO-oxidized cellulose nano-fiber xerogels. Cellulose, 2020, 27, 8605-8618.	2.4	21
30	Rutin-Loaded Solid Lipid Nanoparticles: Characterization and In Vitro Evaluation. Molecules, 2021, 26, 1039.	1.7	21
31	FTIR/ATR study of water encapsulated in Na-A and Mg-exchanged A-zeolites. Vibrational Spectroscopy, 2006, 42, 375-380.	1.2	20
32	Iron speciation in ancient Attic pottery pigments: aÂnon-destructive SR-XAS investigation. Journal of Synchrotron Radiation, 2012, 19, 782-788.	1.0	19
33	Spectroscopic investigation of Roman decorated plasters by combining FT-IR, micro-Raman and UV-Raman analyses. Vibrational Spectroscopy, 2016, 83, 78-84.	1.2	19
34	â€œHost-guestâ€•interactions in CaptisolÂ®/Coumestrol inclusion complex: UVâ€“vis, FTIR-ATR and Raman studies. Journal of Molecular Structure, 2017, 1146, 512-521.	1.8	19
35	Toward an understanding of the thermosensitive behaviour of pH-responsive hydrogels based on cyclodextrins. Soft Matter, 2015, 11, 5862-5871.	1.2	18
36	Thermal fluctuations in chemically cross-linked polymers of cyclodextrins. Soft Matter, 2015, 11, 2183-2192.	1.2	17

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37	Archaeometric Characterisation of Decorated Pottery from the Archaeological Site of Villa dei Quintili (Rome, Italy): Preliminary Study. Geosciences (Switzerland), 2019, 9, 172.	1.0	17
38	Raman Spectroscopy as Noninvasive Method of Diagnosis of Pediatric Onset Inflammatory Bowel Disease. Applied Sciences (Switzerland), 2020, 10, 6974.	1.3	15
39	Improvement of water solubility of non-competitive AMPA receptor antagonists by complexation with Î²-cyclodextrin. Bioorganic and Medicinal Chemistry, 2008, 16, 8706-8712.	1.4	14
40	Study of Late Roman and Byzantine glass by the combined use of analytical techniques. Journal of Non-Crystalline Solids, 2012, 358, 1554-1561.	1.5	14
41	In situ diagnostic analysis of the XVIII century Madonna della Lettera panel painting (Messina, Italy). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 228, 117822.	2.0	14
42	Nondestructive analyses of carbonate rocks: applications and potentiality for museum materials. X-Ray Spectrometry, 2013, 42, 8-15.	0.9	13
43	Evaluation of the Radiological and Chemical Risk for Public Health from Flour Sample Investigation. Applied Sciences (Switzerland), 2021, 11, 3646.	1.3	13
44	A detailed spectroscopic study of an Italian fresco. Journal of Applied Physics, 2005, 97, 044907.	1.1	12
45	A Phase Solubility Study on the Chiral Discrimination of Ibuprofen by Î²-Cyclodextrin Complexes. Food Biophysics, 2011, 6, 267-273.	1.4	12
46	Mobile Spectroscopy in Archaeometry: Some Case Study. Journal of Spectroscopy, 2018, 2018, 1-11.	0.6	12
47	The hydrogen-bond network in propylene-glycol studied by Raman spectroscopy. Journal of Molecular Structure, 2006, 790, 141-146.	1.8	11
48	Multi-technique characterization of ancient findings from Gela (Sicily, Italy). Journal of Analytical Atomic Spectrometry, 2011, 26, 977.	1.6	11
49	Physicochemical properties of inclusion complexes of highly soluble Î²-cyclodextrins with highly hydrophobic testosterone propionate. International Journal of Pharmaceutics, 2017, 534, 316-324.	2.6	11
50	A combined SR-based Raman and InfraRed investigation of pigmenting matter used in wall paintings: The San Gennaro and San Gaudioso Catacombs (Naples, Italy) case. European Physical Journal Plus, 2018, 133, 1.	1.2	11
51	Multi-analytical study of Roman frescoes from Villa dei Quintili (Rome, Italy). Journal of Archaeological Science: Reports, 2018, 21, 422-432.	0.2	11
52	Chitosan-Hyaluronan Nanoparticles for Vinblastine Sulfate Delivery: Characterization and Internalization Studies on K-562 Cells. Pharmaceutics, 2022, 14, 942.	2.0	11
53	Influence of the â€œHostâˆ'Guestâ€•Interactions on the Mobility of Genistein/Î²-Cyclodextrin Inclusion Complex. Journal of Physical Chemistry B, 2009, 113, 11032-11038.	1.2	10
54	Comparison between TOF-ND and XRD quantitative phase analysis of ancient potteries. Journal of Analytical Atomic Spectrometry, 2011, 26, 1060.	1.6	10

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55	RBS, PIXE, Ion-Microbeam and SR-FTIR Analyses of Pottery Fragments from Azerbaijan. Heritage, 2019, 2, 1852-1873.	0.9	10
56	Radioactivity, Metals Pollution and Mineralogy Assessment of a Beach Stretch from the Ionian Coast of Calabria (Southern Italy). International Journal of Environmental Research and Public Health, 2021, 18, 12147.	1.2	10
57	Characterization of pottery fragments by nondestructive neutron diffraction. Journal of Applied Physics, 2005, 98, 103520.	1.1	9
58	Spectroscopic analyses of Hellenistic painted plasters from 2nd century B.C., Sicily (South Italy). Journal of Cultural Heritage, 2012, 13, 229-233.	1.5	8
59	Temperature-Dependent Dynamical Evolution in Coum/SBE-Î²-CD Inclusion Complexes Revealed by Two-Dimensional FTIR Correlation Spectroscopy (2D-COS). Molecules, 2021, 26, 3749.	1.7	8
60	Neutron diffraction study of the structure of water confined in a solâ€“gel silica glass. Physica B: Condensed Matter, 2004, 350, E599-E601.	1.3	7
61	Handheld and non-destructive methodologies for the compositional investigation of meteorite fragments. Analytical Methods, 2014, 6, 6301-6309.	1.3	7
62	Pore Structure and Water Transfer in Pietra dâ€™Aspra Limestone: A Neutronographic Study. Applied Sciences (Switzerland), 2020, 10, 6745.	1.3	7
63	Evaluating the protecting effects of two consolidants applied on Pietra di Lecce limestone: A neutronographic study. Journal of Cultural Heritage, 2020, 46, 31-41.	1.5	7
64	Neutrons as a probe of large volume specimens: the case of archaeological pottery findings. Journal of Archaeological Science, 2007, 34, 1148-1152.	1.2	6
65	Small angle neutron scattering study of ancient pottery from Syracuse (Sicily, Southern Italy). Journal of Archaeological Science, 2013, 40, 983-991.	1.2	6
66	Cyclodextrin-Complexation Effects on the Low-Frequency Vibrational Dynamics of Ibuprofen by Combined Inelastic Light and Neutron Scattering Experiments. Journal of Physical Chemistry B, 2013, 117, 3917-3926.	1.2	6
67	A multi-technique approach for the characterization of decorative stones and non-destructive method for the discrimination of similar rocks. X-Ray Spectrometry, 2014, 43, 83-92.	0.9	6
68	Soluteâ€“Solvent Interactions in Aqueous Solutions of Sulfobutyl Ether-Î²-cyclodextrin As Probed by UV-Raman and FTIR-ATR Analysis. Journal of Physical Chemistry B, 2016, 120, 3746-3753.	1.2	6
69	SANS investigation of the salt-crystallization- and surface-treatment-induced degradation on limestones of historicâ€“artistic interest. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	6
70	Multi-Technique Diagnostic Analysis of Plasters and Mortars from the Church of the Annunciation (Tortorici, Sicily). Materials, 2022, 15, 958.	1.3	6
71	Dynamic Light Scattering Studies on Lecithin Polymer-Like Gels. Molecular Crystals and Liquid Crystals, 1992, 212, 255-262.	0.3	5
72	Influence of Chirality on Vibrational and Relaxational Properties of (S)- and (R,S)-Ibuprofen/methyl-Î²-cyclodextrin Inclusion Complexes: An INS and QENS Study. Journal of Physical Chemistry B, 2013, 117, 11466-11472.	1.2	5

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73	Analysis of the thermal fluctuations in inclusion complexes of genistein with Î²-cyclodextrin derivatives. Chemical Physics, 2019, 516, 125-131.	0.9	5
74	Multitechnique diagnostic analysis and 3D surveying prior to the restoration of St. Michael defeating Evil painting by Mattia Preti. Environmental Science and Pollution Research, 2021, , 1.	2.7	5
75	New insights to assess the consolidation of stone materials used in built heritage: the case study of ancient graffiti (Tituli Picti) in the archaeological site of Pompeii. Heritage Science, 2020, 8, .	1.0	5
76	Tituli Picti in the archaeological site of Pompeii: diagnostic analysis and conservation strategies. European Physical Journal Plus, 2018, 133, 1.	1.2	4
77	A combined 3D surveying, XRF and Raman in situ investigation on The Conversion of St Paul painting (Mdina, Malta) by Mattia Preti. Acta IMEKO (2012), 2021, 10, 173.	0.4	4
78	Combined XRFâ€šSEM analysis of varnished pottery: the case of Syracuse and Adrano (Sicily) archaelogical finds. X-Ray Spectrometry, 2013, 42, 38-44.	0.9	3
79	Bio-Based Adhesives for Wooden Boatbuilding. Journal of Marine Science and Engineering, 2021, 9, 28.	1.2	3
80	A New Methodological Approach for the Assessment of the 238U Content in Drinking Water. Applied Sciences (Switzerland), 2022, 12, 3380.	1.3	3
81	Spectroscopic evidence of the effects induced by non-ionizing radiation on tissue samples. Vibrational Spectroscopy, 2006, 42, 369-374.	1.2	2
82	Investigation of glazed pottery fragments (XIX century A. D.) from Agsu site (Azerbaijan) by XRF and Raman techniques. EPJ Web of Conferences, 2020, 230, 00012.	0.1	2
83	Natural and Anthropogenic Radioactivity Content and Radiation Hazard Assessment of Baby Food Consumption in Italy. Applied Sciences (Switzerland), 2022, 12, 5244.	1.3	2
84	Dynamics of H-Bonded Systems in Nanosized Pores. Progress of Theoretical Physics Supplement, 1997, 126, 367-372.	0.2	1
85	Multi-Technique Diagnostic Investigation in View of the Restoration of â€œThe Glory of St. Barbaraâ€• Painting by Mattia Preti. Applied Sciences (Switzerland), 2022, 12, 1385.	1.3	1
86	Introduction to Cultural Heritage Analysis. , 2022, , 3-9.		0