

# Vincenzo Crupi

## List of Publications by Year in descending order

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g-index

87  
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docs citations

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times ranked

1804  
citing authors

#	ARTICLE	IF	CITATIONS
1	Introduction to Cultural Heritage Analysis. , 2022, , 3-9.		0
2	Multi-Technique Diagnostic Investigation in View of the Restoration of "The Glory of St. Barbara" Painting by Mattia Preti. Applied Sciences (Switzerland), 2022, 12, 1385.	1.3	1
3	Multi-Technique Diagnostic Analysis of Plasters and Mortars from the Church of the Annunciation (Tortorici, Sicily). Materials, 2022, 15, 958.	1.3	6
4	A New Methodological Approach for the Assessment of the <sup>238</sup> U Content in Drinking Water. Applied Sciences (Switzerland), 2022, 12, 3380.	1.3	3
5	Chitosan-Hyaluronan Nanoparticles for Vinblastine Sulfate Delivery: Characterization and Internalization Studies on K-562 Cells. Pharmaceutics, 2022, 14, 942.	2.0	11
6	Natural and Anthropogenic Radioactivity Content and Radiation Hazard Assessment of Baby Food Consumption in Italy. Applied Sciences (Switzerland), 2022, 12, 5244.	1.3	2
7	Rutin-Loaded Solid Lipid Nanoparticles: Characterization and In Vitro Evaluation. Molecules, 2021, 26, 1039.	1.7	21
8	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
9	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
10	Evaluation of the Radiological and Chemical Risk for Public Health from Flour Sample Investigation. Applied Sciences (Switzerland), 2021, 11, 3646.	1.3	13
11	Temperature-Dependent Dynamical Evolution in Coum/SBE- $\beta$ -CD Inclusion Complexes Revealed by Two-Dimensional FTIR Correlation Spectroscopy (2D-COS). Molecules, 2021, 26, 3749.	1.7	8
12	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
13	Bio-Based Adhesives for Wooden Boatbuilding. Journal of Marine Science and Engineering, 2021, 9, 28.	1.2	3
14	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
15	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
16	Pore Structure and Water Transfer in Pietra d'Aspra Limestone: A Neutronographic Study. Applied Sciences (Switzerland), 2020, 10, 6745.	1.3	7
17	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
18	Raman Spectroscopy as Noninvasive Method of Diagnosis of Pediatric Onset Inflammatory Bowel Disease. Applied Sciences (Switzerland), 2020, 10, 6974.	1.3	15

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19	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
20	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
21	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
22	RBS, PIXE, Ion-Microbeam and SR-FTIR Analyses of Pottery Fragments from Azerbaijan. Heritage, 2019, 2, 1852-1873.	0.9	10
23	Cross-linked cellulose nano-sponges: a small angle neutron scattering (SANS) study. Cellulose, 2019, 26, 9005-9019.	2.4	26
24	Physicochemical Characterization and Antioxidant Activity Evaluation of Idebenone/Hydroxypropyl- $\beta$ -Cyclodextrin Inclusion Complex. Biomolecules, 2019, 9, 531.	1.8	51
25	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
26	Analysis of the thermal fluctuations in inclusion complexes of genistein with $\beta$ -cyclodextrin derivatives. Chemical Physics, 2019, 516, 125-131.	0.9	5
27	TiO <sub>2</sub> -SiO <sub>2</sub> -PDMS nanocomposite coating with self-cleaning effect for stone material: Finding the optimal amount of TiO <sub>2</sub> . Construction and Building Materials, 2018, 166, 464-471.	3.2	54
28	Tituli Picti in the archaeological site of Pompeii: diagnostic analysis and conservation strategies. European Physical Journal Plus, 2018, 133, 1.	1.2	4
29	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
30	Mobile Spectroscopy in Archaeometry: Some Case Study. Journal of Spectroscopy, 2018, 2018, 1-11.	0.6	12
31	Multi-analytical study of Roman frescoes from Villa dei Quintili (Rome, Italy). Journal of Archaeological Science: Reports, 2018, 21, 422-432.	0.2	11
32	Physicochemical properties of inclusion complexes of highly soluble $\beta$ -cyclodextrins with highly hydrophobic testosterone propionate. International Journal of Pharmaceutics, 2017, 534, 316-324.	2.6	11
33	Host-guest interactions in Captisol®/Coumestrol inclusion complex: UV-vis, FTIR-ATR and Raman studies. Journal of Molecular Structure, 2017, 1146, 512-521.	1.8	19
34	Solute-Solvent Interactions in Aqueous Solutions of Sulfobutyl Ether- $\beta$ -cyclodextrin As Probed by UV-Raman and FTIR-ATR Analysis. Journal of Physical Chemistry B, 2016, 120, 3746-3753.	1.2	6
35	SANS investigation of the salt-crystallization- and surface-treatment-induced degradation on limestones of historic-artistic interest. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	6
36	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

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37	Thermal fluctuations in chemically cross-linked polymers of cyclodextrins. <i>Soft Matter</i> , 2015, 11, 2183-2192.	1.2	17
38	Multi-technique investigation of Roman decorated plasters from Villa dei Quintili (Rome, Italy). <i>Applied Surface Science</i> , 2015, 349, 924-930.	3.1	36
39	Toward an understanding of the thermosensitive behaviour of pH-responsive hydrogels based on cyclodextrins. <i>Soft Matter</i> , 2015, 11, 5862-5871.	1.2	18
40	A portable Raman equipment comparison for gemmological purposes: the case of sapphires and their imitations. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1309-1317.	1.2	27
41	A multi-technique approach for the determination of the porous structure of building stone. <i>European Journal of Mineralogy</i> , 2014, 26, 189-198.	0.4	23
42	A multi-technique approach for the characterization of decorative stones and non-destructive method for the discrimination of similar rocks. <i>X-Ray Spectrometry</i> , 2014, 43, 83-92.	0.9	6
43	Handheld and non-destructive methodologies for the compositional investigation of meteorite fragments. <i>Analytical Methods</i> , 2014, 6, 6301-6309.	1.3	7
44	Direct evidence of gel-sol transition in cyclodextrin-based hydrogels as revealed by FTIR-ATR spectroscopy. <i>Soft Matter</i> , 2014, 10, 2320-2326.	1.2	29
45	Vibrational Density of States and Elastic Properties of Cross-Linked Polymers: Combining Inelastic Light and Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2014, 118, 624-633.	1.2	27
46	Synthesis and characterization of a hyper-branched water-soluble $\beta$ -cyclodextrin polymer. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2586-2593.	1.3	28
47	Modelling the interplay between covalent and physical interactions in cyclodextrin-based hydrogel: effect of water confinement. <i>Soft Matter</i> , 2013, 9, 6457.	1.2	39
48	Influence of Chirality on Vibrational and Relaxational Properties of (S)- and (R)-Ibuprofen/methyl- $\beta$ -cyclodextrin Inclusion Complexes: An INS and QENS Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11466-11472.	1.2	5
49	Small angle neutron scattering study of ancient pottery from Syracuse (Sicily, Southern Italy). <i>Journal of Archaeological Science</i> , 2013, 40, 983-991.	1.2	6
50	Combined XRF-SEM analysis of varnished pottery: the case of Syracuse and Adrano (Sicily) archaeological finds. <i>X-Ray Spectrometry</i> , 2013, 42, 38-44.	0.9	3
51	Vibrational spectroscopy investigation of swelling phenomena in cyclodextrin nanosponges. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1463-1469.	1.2	28
52	Cyclodextrin-Complexation Effects on the Low-Frequency Vibrational Dynamics of Ibuprofen by Combined Inelastic Light and Neutron Scattering Experiments. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3917-3926.	1.2	6
53	Nondestructive analyses of carbonate rocks: applications and potentiality for museum materials. <i>X-Ray Spectrometry</i> , 2013, 42, 8-15.	0.9	13
54	Connection between the vibrational dynamics and the cross-linking properties in cyclodextrin-based polymers. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1457-1462.	1.2	36

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55	Iron speciation in ancient Attic pottery pigments: a non-destructive SR-XAS investigation. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 782-788.	1.0	19
56	Effect of Cross-Linking Properties on the Vibrational Dynamics of Cyclodextrins-Based Polymers: An Experimental-Numerical Study. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7952-7958.	1.2	50
57	Inside New Materials: An Experimental Numerical Approach for the Structural Elucidation of Nanoporous Cross-Linked Polymers. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13133-13140.	1.2	33
58	Study of Late Roman and Byzantine glass by the combined use of analytical techniques. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1554-1561.	1.5	14
59	Spectroscopic analyses of Hellenistic painted plasters from 2nd century B.C., Sicily (South Italy). <i>Journal of Cultural Heritage</i> , 2012, 13, 229-233.	1.5	8
60	Comparison between TOF-ND and XRD quantitative phase analysis of ancient potteries. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1060.	1.6	10
61	Multi-technique characterization of ancient findings from Gela (Sicily, Italy). <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 977.	1.6	11
62	Combined non-destructive XRF and SR-XAS study of archaeological artefacts. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 3147-3153.	1.9	32
63	A Phase Solubility Study on the Chiral Discrimination of Ibuprofen by $\beta$ -Cyclodextrin Complexes. <i>Food Biophysics</i> , 2011, 6, 267-273.	1.4	12
64	The effect of hydrogen bond on the vibrational dynamics of genistein free and complexed with $\beta$ -cyclodextrins. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 764-770.	1.2	24
65	Temperature Effect on the Vibrational Dynamics of Cyclodextrin Inclusion Complexes: Investigation by FTIR-ATR Spectroscopy and Numerical Simulation. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6811-6817.	1.1	34
66	Influence of the Host-Guest Interactions on the Mobility of Genistein/ $\beta$ -Cyclodextrin Inclusion Complex. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11032-11038.	1.2	10
67	A new insight on the hydrogen bonding structures of nanoconfined water: a Raman study. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 244-249.	1.2	59
68	Improvement of water solubility of non-competitive AMPA receptor antagonists by complexation with $\beta$ -cyclodextrin. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 8706-8712.	1.4	14
69	Water Diffusion in Nanoporous Glass: An NMR Study at Different Hydration Levels. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3927-3930.	1.2	25
70	Neutrons as a probe of large volume specimens: the case of archaeological pottery findings. <i>Journal of Archaeological Science</i> , 2007, 34, 1148-1152.	1.2	6
71	Role of the solvent in the dynamical transitions of proteins: The case of the lysozyme-water system. <i>Journal of Chemical Physics</i> , 2007, 127, 045104.	1.2	96
72	Inelastic Neutron Scattering Study of Water in Hydrated LTA-Type Zeolites. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1190-1195.	1.1	25

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73	Spectroscopic evidence of the effects induced by non-ionizing radiation on tissue samples. <i>Vibrational Spectroscopy</i> , 2006, 42, 369-374.	1.2	2
74	The hydrogen-bond network in propylene-glycol studied by Raman spectroscopy. <i>Journal of Molecular Structure</i> , 2006, 790, 141-146.	1.8	11
75	FTIR/ATR study of water encapsulated in Na-A and Mg-exchanged A-zeolites. <i>Vibrational Spectroscopy</i> , 2006, 42, 375-380.	1.2	20
76	Dynamical properties of liquids in restricted geometries. <i>Journal of Molecular Liquids</i> , 2005, 117, 165-171.	2.3	22
77	T dependence of vibrational dynamics of water in ion-exchanged zeolites A: A detailed Fourier transform infrared attenuated total reflection study. <i>Journal of Chemical Physics</i> , 2005, 123, 154702.	1.2	53
78	Characterization of pottery fragments by nondestructive neutron diffraction. <i>Journal of Applied Physics</i> , 2005, 98, 103520.	1.1	9
79	A detailed spectroscopic study of an Italian fresco. <i>Journal of Applied Physics</i> , 2005, 97, 044907.	1.1	12
80	Neutron diffraction study of the structure of water confined in a sol-gel silica glass. <i>Physica B: Condensed Matter</i> , 2004, 350, E599-E601.	1.3	7
81	Neutron Scattering Study and Dynamic Properties of Hydrogen-Bonded Liquids in Mesoscopic Confinement. 2. The Zeolitic Water Case. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4314-4323.	1.2	43
82	Aggregation Phenomena in Aqueous Solutions of Uncharged Star Polymers with a Porphyrin Core. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5095-5100.	1.2	35
83	Dynamical response of liquid water in confined geometry by laser and neutron spectroscopies Presented at the LANMAT 2001 Conference on the Interaction of Laser Radiation with matter at Nanoscopic Scales: From Single Molecule Spectroscopy to Materials Processing, Venice, 3-6 October, 2001.. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2768-2773.	1.3	45
84	Diffusive Relaxations and Vibrational Properties of Water and H-bonded Systems in Confined State by Neutrons and Light Scattering: A State of the Art. <i>Journal of Physical Chemistry A</i> , 2000, 104, 11000-11012.	1.1	55
85	Dynamics of H-Bonded Systems in Nanosized Pores. <i>Progress of Theoretical Physics Supplement</i> , 1997, 126, 367-372.	0.2	1
86	Dynamic Light Scattering Studies on Lecithin Polymer-Like Gels. <i>Molecular Crystals and Liquid Crystals</i> , 1992, 212, 255-262.	0.3	5