

Domenico Majolino

List of Publications by Year in descending order

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90
papers

2,181
citations

218592

26
h-index

254106

43
g-index

91
all docs

91
docs citations

91
times ranked

2574
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of the existence of the low-density liquid phase in supercooled, confined water. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 424-428.	3.3	273
2	Do plastics serve as a possible vector for the spread of antibiotic resistance? First insights from bacteria associated to a polystyrene piece from King George Island (Antarctica). International Journal of Hygiene and Environmental Health, 2019, 222, 89-100.	2.1	135
3	A characterization study of resveratrol/sulfobutyl ether- β -cyclodextrin inclusion complex and in vitro anticancer activity. Colloids and Surfaces B: Biointerfaces, 2014, 115, 22-28.	2.5	107
4	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
5	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
6	Diffusive Relaxations and Vibrational Properties of Water and H-bonded Systems in Confined State by Neutrons and Light Scattering: A State of the Art. Journal of Physical Chemistry A, 2000, 104, 11000-11012.	1.1	55
7	TiO ₂ @SiO ₂ @PDMS nanocomposite coating with self-cleaning effect for stone material: Finding the optimal amount of TiO ₂ . Construction and Building Materials, 2018, 166, 464-471.	3.2	54
8	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
9	Physicochemical Characterization and Antioxidant Activity Evaluation of Idebenone/Hydroxypropyl- β -Cyclodextrin Inclusion Complex. Biomolecules, 2019, 9, 531.	1.8	51
10	Effect of Cross-Linking Properties on the Vibrational Dynamics of Cyclodextrins-Based Polymers: An Experimental-Numerical Study. Journal of Physical Chemistry B, 2012, 116, 7952-7958.	1.2	50
11	Tuning structural parameters for the optimization of drug delivery performance of cyclodextrin-based nanosponges. Expert Opinion on Drug Delivery, 2017, 14, 331-340.	2.4	46
12	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.. Physical Chemistry Chemical Physics, 2002, 4, 2768-2773.	1.3	45
13	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
14	Modelling the interplay between covalent and physical interactions in cyclodextrin-based hydrogel: effect of water confinement. Soft Matter, 2013, 9, 6457.	1.2	39
15	Connection between the vibrational dynamics and the cross-linking properties in cyclodextrins-based polymers. Journal of Raman Spectroscopy, 2013, 44, 1457-1462.	1.2	36
16	Multi-technique investigation of Roman decorated plasters from Villa dei Quintili (Rome, Italy). Applied Surface Science, 2015, 349, 924-930.	3.1	36
17	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
18	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

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19	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
20	Combined non-destructive XRF and SR-XAS study of archaeological artefacts. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 3147-3153.	1.9	32
21	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
22	Vibrational spectroscopy investigation of swelling phenomena in cyclodextrin nanosponges. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1463-1469.	1.2	28
23	Synthesis and characterization of a hyper-branched water-soluble β -cyclodextrin polymer. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2586-2593.	1.3	28
24	A portable versus micro-Raman equipment comparison for gemmological purposes: the case of sapphires and their imitations. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1309-1317.	1.2	27
25	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
26	Ground penetrating radar (G.P.R.) surveys applied to the research of crypts in San Sebastiano's church in Catania (Sicily). <i>Journal of Cultural Heritage</i> , 2007, 8, 73-76.	1.5	26
27	Cross-linked cellulose nano-sponges: a small angle neutron scattering (SANS) study. <i>Cellulose</i> , 2019, 26, 9005-9019.	2.4	26
28	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
29	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
30	The effect of hydrogen bond on the vibrational dynamics of genistein free and complexed with β -cyclodextrins. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 764-770.	1.2	24
31	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
32	2D Correlation Spectroscopy (2DCoS) Analysis of Temperature-Dependent FTIR-ATR Spectra in Branched Polyethyleneimine/TEMPO-Oxidized Cellulose Nano-Fiber Xerogels. <i>Polymers</i> , 2021, 13, 528.	2.0	23
33	New insights into the structure and function of the prokaryotic communities colonizing plastic debris collected in King George Island (Antarctica): Preliminary observations from two plastic fragments. <i>Journal of Hazardous Materials</i> , 2021, 414, 125586.	6.5	23
34	Confocal Raman spectroscopic study of painted medieval manuscripts. <i>Journal of Cultural Heritage</i> , 2001, 2, 191-198.	1.5	21
35	FTIR-ATR analysis of the H-bond network of water in branched polyethyleneimine/TEMPO-oxidized cellulose nano-fiber xerogels. <i>Cellulose</i> , 2020, 27, 8605-8618.	2.4	21
36	Rutin-Loaded Solid Lipid Nanoparticles: Characterization and In Vitro Evaluation. <i>Molecules</i> , 2021, 26, 1039.	1.7	21

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37	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
38	Host-guest interactions in Captisol®/Coumestrol inclusion complex: UV-vis, FTIR-ATR and Raman studies. <i>Journal of Molecular Structure</i> , 2017, 1146, 512-521.	1.8	19
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	Thermal fluctuations in chemically cross-linked polymers of cyclodextrins. <i>Soft Matter</i> , 2015, 11, 2183-2192.	1.2	17
41	Archaeometric Characterisation of Decorated Pottery from the Archaeological Site of Villa dei Quintili (Rome, Italy): Preliminary Study. <i>Geosciences (Switzerland)</i> , 2019, 9, 172.	1.0	17
42	Raman Spectroscopy as Noninvasive Method of Diagnosis of Pediatric Onset Inflammatory Bowel Disease. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6974.	1.3	15
43	Improvement of water solubility of non-competitive AMPA receptor antagonists by complexation with β -cyclodextrin. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 8706-8712.	1.4	14
44	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
45	In situ diagnostic analysis of the XVIII century Madonna della Lettera panel painting (Messina, Italy). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117822.	2.0	14
46	A multidisciplinary investigation on archaeological excavation in Messina (Sicily). Part I: a comparison of pottery findings in the Strait of Messina area. <i>Journal of Cultural Heritage</i> , 2002, 3, 145-153.	1.5	13
47	Nondestructive analyses of carbonate rocks: applications and potentiality for museum materials. <i>X-Ray Spectrometry</i> , 2013, 42, 8-15.	0.9	13
48	Evaluation of the Radiological and Chemical Risk for Public Health from Flour Sample Investigation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3646.	1.3	13
49	A detailed spectroscopic study of an Italian fresco. <i>Journal of Applied Physics</i> , 2005, 97, 044907.	1.1	12
50	A Phase Solubility Study on the Chiral Discrimination of Ibuprofen by β -Cyclodextrin Complexes. <i>Food Biophysics</i> , 2011, 6, 267-273.	1.4	12
51	Mobile Spectroscopy in Archaeometry: Some Case Study. <i>Journal of Spectroscopy</i> , 2018, 2018, 1-11.	0.6	12
52	Multi-technique characterization of ancient findings from Gela (Sicily, Italy). <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 977.	1.6	11
53	Physicochemical properties of inclusion complexes of highly soluble β -cyclodextrins with highly hydrophobic testosterone propionate. <i>International Journal of Pharmaceutics</i> , 2017, 534, 316-324.	2.6	11
54	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. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	11

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55	Multi-analytical study of Roman frescoes from Villa dei Quintili (Rome, Italy). <i>Journal of Archaeological Science: Reports</i> , 2018, 21, 422-432.	0.2	11
56	Chitosan-Hyaluronan Nanoparticles for Vinblastine Sulfate Delivery: Characterization and Internalization Studies on K-562 Cells. <i>Pharmaceutics</i> , 2022, 14, 942.	2.0	11
57	Influence of the "Host-Guest" Interactions on the Mobility of Genistein/ β -Cyclodextrin Inclusion Complex. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11032-11038.	1.2	10
58	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
59	RBS, PIXE, Ion-Microbeam and SR-FTIR Analyses of Pottery Fragments from Azerbaijan. <i>Heritage</i> , 2019, 2, 1852-1873.	0.9	10
60	Radioactivity, Metals Pollution and Mineralogy Assessment of a Beach Stretch from the Ionian Coast of Calabria (Southern Italy). <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12147.	1.2	10
61	Characterization of pottery fragments by nondestructive neutron diffraction. <i>Journal of Applied Physics</i> , 2005, 98, 103520.	1.1	9
62	A multidisciplinary investigation on archaeological excavation in Messina (Sicily). Part II. A study of the transport amphorae. <i>Journal of Cultural Heritage</i> , 2002, 3, 171-176.	1.5	8
63	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
64	Temperature-Dependent Dynamical Evolution in Coum/SBE- β -CD Inclusion Complexes Revealed by Two-Dimensional FTIR Correlation Spectroscopy (2D-COS). <i>Molecules</i> , 2021, 26, 3749.	1.7	8
65	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
66	Handheld and non-destructive methodologies for the compositional investigation of meteorite fragments. <i>Analytical Methods</i> , 2014, 6, 6301-6309.	1.3	7
67	Pore Structure and Water Transfer in Pietra di Aspra Limestone: A Neutronographic Study. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6745.	1.3	7
68	Evaluating the protecting effects of two consolidants applied on Pietra di Lecce limestone: A neutronographic study. <i>Journal of Cultural Heritage</i> , 2020, 46, 31-41.	1.5	7
69	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
70	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
71	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
72	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

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73	Solute-Solvent Interactions in Aqueous Solutions of Sulfobutyl Ether- β -cyclodextrin As Probed by UV-Raman and FTIR-ATR Analysis. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3746-3753.	1.2	6
74	SANS investigation of the salt-crystallization- and surface-treatment-induced degradation on limestones of historic-artistic interest. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	6
75	Multi-Technique Diagnostic Analysis of Plasters and Mortars from the Church of the Annunciation (Tortorici, Sicily). <i>Materials</i> , 2022, 15, 958.	1.3	6
76	Ion-Ion and Ion-Solvent Interaction Effects in the Acoustic Response of Aqueous Polymeric Solutions. <i>Molecular Crystals and Liquid Crystals</i> , 1992, 212, 183-188.	0.3	5
77	Dynamic Light Scattering Studies on Lecithin Polymer-Like Gels. <i>Molecular Crystals and Liquid Crystals</i> , 1992, 212, 255-262.	0.3	5
78	Influence of Chirality on Vibrational and Relaxational Properties of (<i>S</i>)- and (<i>R</i>)-ibuprofen/methyl- β -cyclodextrin Inclusion Complexes: An INS and QENS Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11466-11472.	1.2	5
79	Analysis of the thermal fluctuations in inclusion complexes of genistein with β -cyclodextrin derivatives. <i>Chemical Physics</i> , 2019, 516, 125-131.	0.9	5
80	Multitechnique diagnostic analysis and 3D surveying prior to the restoration of St. Michael defeating Evil painting by Mattia Preti. <i>Environmental Science and Pollution Research</i> , 2021, , 1.	2.7	5
81	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. <i>Heritage Science</i> , 2020, 8, .	1.0	5
82	Tituli Picti in the archaeological site of Pompeii: diagnostic analysis and conservation strategies. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	4
83	A combined 3D surveying, XRF and Raman in situ investigation on The Conversion of St Paul painting (Mdina, Malta) by Mattia Preti. <i>Acta IMEKO (2012)</i> , 2021, 10, 173.	0.4	4
84	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
85	A New Methodological Approach for the Assessment of the ^{238}U Content in Drinking Water. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3380.	1.3	3
86	Investigation of glazed pottery fragments (XIX century A. D.) from Aghsu site (Azerbaijan) by XRF and Raman techniques. <i>EPJ Web of Conferences</i> , 2020, 230, 00012.	0.1	2
87	Natural and Anthropogenic Radioactivity Content and Radiation Hazard Assessment of Baby Food Consumption in Italy. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5244.	1.3	2
88	Dynamics of H-Bonded Systems in Nanosized Pores. <i>Progress of Theoretical Physics Supplement</i> , 1997, 126, 367-372.	0.2	1
89	Multi-Technique Diagnostic Investigation in View of the Restoration of "The Glory of St. Barbara" Painting by Mattia Preti. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1385.	1.3	1
90	A New Radiological Risk Containment Procedure in Potentially Contaminated Areas. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 32.	1.3	1