

Cirino Vasi

List of Publications by Year in descending order

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102
papers

1,757
citations

279798

23
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330143

37
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103
all docs

103
docs citations

103
times ranked

2288
citing authors

#	ARTICLE	IF	CITATIONS
1	Low cost synthesis of silicon nanowires for photonic applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 34-40.	2.2	14
2	Non-Invasive Investigation of Pigments of Wall Painting in S. Maria Delle Palate di Tusa (Messina, Italy). Heritage, 2019, 2, 2398-2407.	1.9	8
3	Time-of-Flight Neutron Imaging on IMAT@ISIS: A New User Facility for Materials Science. Journal of Imaging, 2018, 4, 47.	3.0	50
4	Coherent backscattering of Raman light. Nature Photonics, 2017, 11, 170-176.	31.4	44
5	Some Considerations on Confined Water: The Thermal Behavior of Transport Properties in Water-Glycerol and Water-Methanol Mixtures. MRS Advances, 2016, 1, 1891-1902.	0.9	2
6	Some considerations on the transport properties of water-glycerol suspensions. Journal of Chemical Physics, 2016, 144, 014501.	3.0	7
7	Dynamical properties of water-methanol solutions. Journal of Chemical Physics, 2016, 144, 064506.	3.0	31
8	Direct comparison between solid state Silicon+ 6 LiF and 3 He gas tube neutron detectors. Results in Physics, 2016, 6, 12-13.	4.1	9
9	Strongly enhanced light trapping in a two-dimensional silicon nanowire random fractal array. Light: Science and Applications, 2016, 5, e16062-e16062.	16.6	97
10	Double-Wall Nanotubes and Graphene Nanoplatelets for Hybrid Conductive Adhesives with Enhanced Thermal and Electrical Conductivity. ACS Applied Materials & Interfaces, 2016, 8, 23244-23259.	8.0	63
11	Energy landscape in protein folding and unfolding. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3159-3163.	7.1	98
12	Silicon nanowire and carbon nanotube hybrid for room temperature multiwavelength light source. Scientific Reports, 2015, 5, 16753.	3.3	26
13	Status of the Neutron Imaging and Diffraction Instrument IMAT. Physics Procedia, 2015, 69, 71-78.	1.2	36
14	Water and lysozyme: Some results from the bending and stretching vibrational modes. Frontiers of Physics, 2015, 10, 1.	5.0	4
15	The role of water in protein's behavior: The two dynamical crossovers studied by NMR and FTIR techniques. Computational and Structural Biotechnology Journal, 2015, 13, 33-37.	4.1	65
16	Some thermodynamical aspects of protein hydration water. Journal of Chemical Physics, 2015, 142, 215103.	3.0	22
17	Origin of excess low-energy vibrations in densified B_2O_3 glasses. Philosophical Magazine, 2015, 95, 2596-2606.	1.6	9
18	The dynamical fragile-to-strong crossover in attractive colloidal systems. Journal of Non-Crystalline Solids, 2015, 407, 355-360.	3.1	3

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19	Is electrospray emission really due to columbic forces?. AIP Advances, 2014, 4, .	1.3	5
20	The influence of water on protein properties. Journal of Chemical Physics, 2014, 141, 165104.	3.0	42
21	Thermodynamic properties of bulk and confined water. Journal of Chemical Physics, 2014, 141, 18C504.	3.0	35
22	Silicon nanowires: synthesis, optical properties and applications. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1622-1625.	0.8	5
23	The protein irreversible denaturation studied by means of the bending vibrational mode. Physica A: Statistical Mechanics and Its Applications, 2014, 412, 39-44.	2.6	10
24	Structural transformations, elastic moduli and thermal expansion of permanently compacted B2O3 glasses. Journal of Non-Crystalline Solids, 2014, 401, 40-43.	3.1	6
25	Supercooled water escaping from metastability. Scientific Reports, 2014, 4, 7230.	3.3	12
26	The autofocus system of the IMAT neutron camera. Review of Scientific Instruments, 2013, 84, 093701.	1.3	15
27	Influence of Packing on Low Energy Vibrations of Densified Glasses. Physical Review Letters, 2013, 111, 245502.	7.8	20
28	The thermodynamical response functions and the origin of the anomalous behavior of liquid water. Faraday Discussions, 2013, 167, 95.	3.2	40
29	High-frequency propagating density fluctuations in deeply supercooled water: Evidence of a single viscous relaxation. Physical Review E, 2013, 87, 022303.	2.1	3
30	Volume crossover in deeply supercooled water adiabatically freezing under isobaric conditions. Journal of Chemical Physics, 2013, 138, 184504.	3.0	3
31	Enhancement of electrorheological effect by particle-fluid interaction. Physical Review E, 2013, 87, 062304.	2.1	2
32	Structure of bulk water from Raman measurements of supercooled pure liquid and LiCl solutions. Physical Review B, 2012, 86, .	3.2	20
33	Low-Energy Vibrational Dynamics of Cesium Borate Glasses. Journal of Physical Chemistry B, 2012, 116, 6499-6505.	2.6	4
34	Re-radiation Enhancement in Polarized Surface-Enhanced Resonant Raman Scattering of Randomly Oriented Molecules on Self-Organized Gold Nanowires. ACS Nano, 2011, 5, 5945-5956.	14.6	94
35	PiBrEDâ€™A novel bragg edge detector for neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 383-386.	1.6	1
36	Collective acoustic modes in liquids: A comparison between the generalized-hydrodynamics and memory-function approaches. Physical Review E, 2011, 84, 051202.	2.1	8

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37	Structural changes and elastic characteristics of permanently densified vitreous B_2O_3 . Physical Rev	3.2	21
38	Rattling ions and the anomalous vibrational dynamics of glasses. Physical Review B, 2011, 84, .	3.2	8
39	Raman spectroscopic and low-temperature calorimetric investigation of the low-energy vibrational dynamics of hen egg-white lysozyme. Philosophical Magazine, 2011, 91, 1956-1965.	1.6	8
40	Raman scattering measurements on a floating water bridge. Journal Physics D: Applied Physics, 2010, 43, 175405.	2.8	48
41	An apparatus for measuring the timing properties of scintillators for neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 621, 489-492.	1.6	4
42	Communication: An extended model of liquid bridging. Journal of Chemical Physics, 2010, 133, 081104.	3.0	27
43	Boson peak in alkaline borate glasses: Raman spectroscopy, neutron scattering, and specific-heat measurements. Physical Review B, 2009, 79, .	3.2	43
44	TIME-OF-FLIGHT NEUTRON DIFFRACTION CHARACTERIZATION OF CERAMIC FINDINGS FROM SOUTHERN AND WESTERN SICILY*. Archaeometry, 2009, 51, 568-575.	1.3	4
45	Test measurements with a new neutron imaging alignment camera at ISIS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 595, 643-646.	1.6	3
46	Laser induced breakdown spectroscopy for the analysis of archaeological dyes from Licata (Sicily). Radiation Effects and Defects in Solids, 2008, 163, 535-543.	1.2	8
47	Near-Field Raman Spectroscopy and Imaging. Nanoscience and Technology, 2007, , 287-329.	1.5	5
48	A Mean Field Analysis of the O-H Stretching Raman Spectra in Methanol/Carbon Tetrachloride Mixtures. Journal of Physical Chemistry B, 2005, 109, 16075-16080.	2.6	11
49	Brillouin scattering in liquid sulfur dioxide: relaxational behaviour. Journal of Molecular Liquids, 2004, 110, 33-41.	4.9	9
50	Relaxation processes in polymer-salt complexes. Colloid and Polymer Science, 2003, 281, 882-886.	2.1	0
51	The role of association in the dielectric behaviour of methanol/carbon tetrachloride mixtures. Chemical Physics Letters, 2003, 382, 523-527.	2.6	10
52	Optical near-field Raman imaging with subdiffraction resolution. Applied Optics, 2003, 42, 2724.	2.1	19
53	A ground level interpretation of the dielectric behavior of diluted alcohol-in-carbon tetrachloride mixtures. Journal of Chemical Physics, 2003, 119, 10771-10776.	3.0	11
54	Nano-Raman imaging of Cu^{TCNQ} clusters in TCNQ thin films by scanning near-field optical microscopy 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, 2747-2753.	2.8	45

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55	Percolative phenomena in lecithin reverse micelles: the role of water. <i>Colloid and Polymer Science</i> , 2002, 280, 193-202.	2.1	18
56	Evidence of percolative phenomena in a lecithin-based gel. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 347-348.	2.7	4
57	Optical constants of CNx thin films from reflection electron energy loss spectroscopy. <i>Thin Solid Films</i> , 2000, 377-378, 631-634.	1.8	12
58	Measurement of the dielectric constant of amorphous CNx films in the 0-45 eV energy range. <i>Physical Review B</i> , 2000, 62, 16893-16899.	3.2	14
59	Interferometric determination of the refractive index of liquid sulphur dioxide. <i>Measurement Science and Technology</i> , 2000, 11, 1714-1720.	2.6	20
60	Micro-Raman study of free-standing porous silicon samples. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999, 17, 468.	1.6	13
61	Growth and structural properties of hydrogenated silicon films deposited by pulsed laser ablation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999, 17, 921-925.	2.1	2
62	CN x thin films grown by pulsed laser deposition: Raman, infrared and X-ray photoelectron spectroscopy study. <i>Thin Solid Films</i> , 1999, 355-356, 219-222.	1.8	15
63	Water dynamics in amphiphiles and alcoholic solutions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 257, 107-118.	2.6	4
64	Raman microscopy study of pulsed laser ablation deposited silicon carbide films. <i>Thin Solid Films</i> , 1998, 332, 290-294.	1.8	30
65	Micro-Raman study of reactive pulsed laser ablation deposited silicon carbon alloy films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1998, 16, 3020-3024.	2.1	4
66	Dynamical properties of water-methanol solutions studied by depolarized Rayleigh scattering. <i>Physical Review E</i> , 1996, 54, 1720-1724.	2.1	37
67	Dynamics of water confined in non-ionic amphiphiles supramolecular structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 231, 207-219.	2.6	8
68	Small-angle neutron scattering from lecithin reverse micelles. <i>Journal of Molecular Structure</i> , 1996, 383, 99-106.	3.6	14
69	Diffusive motion and H-bond effects on liquid poly(ethylene oxide) and on its aqueous solutions. <i>Physica B: Condensed Matter</i> , 1995, 213-214, 515-517.	2.7	5
70	Rotational dynamics of water molecules in a water-short-chain-nonionic-amphiphile mixture: Depolarized light scattering. <i>Physical Review E</i> , 1995, 51, 2349-2355.	2.1	11
71	Light-scattering studies on water-nonionic-amphiphile solutions. <i>Physical Review E</i> , 1995, 51, 2341-2348.	2.1	7
72	Light-scattering study of phase transitions in aqueous solutions of nonionic amphiphiles. <i>Physical Review E</i> , 1995, 52, 5241-5249.	2.1	9

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73	Sol-gel transition in worm-like micelles. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994, 16, 771-781.	0.4	2
74	Neutron scattering and compressibility measurements for the study of hydration effects on polymeric aqueous solutions. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994, 16, 809-816.	0.4	19
75	Dynamical properties of water-methanol solutions: Brillouin and depolarized Rayleigh scattering. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994, 16, 923-931.	0.4	2
76	Sound propagation and viscosity in water short-chain amphiphiles solutions, evidence of percolation phenomena. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994, 16, 1619-1625.	0.4	1
77	Small-angle light scattering in dense microemulsions, transition from droplet to bicontinuous phase. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994, 16, 1627-1633.	0.4	2
78	Brillouin scattering from polymers and gels. <i>Macromolecular Symposia</i> , 1994, 79, 179-191.	0.7	0
79	Structural properties of micellar solutions. <i>Journal of Molecular Structure</i> , 1993, 296, 265-269.	3.6	28
80	Spectral evidence of connected structures in liquid water: Effective Raman density of vibrational states. <i>Physical Review E</i> , 1993, 47, 2669-2675.	2.1	29
81	Raman scattering and water structure in nonionic amphiphile solutions. <i>Physical Review E</i> , 1993, 48, 3661-3666.	2.1	11
82	Light-scattering studies in cross-linked gels: Evidence of a microphase separation. <i>Physical Review E</i> , 1993, 48, 4501-4509.	2.1	7
83	Dynamic Light Scattering Studies on Lecithin Polymer-Like Gels. <i>Molecular Crystals and Liquid Crystals</i> , 1992, 212, 255-262.	0.3	5
84	Incoherent quasi-elastic neutron scattering in isomeric alcohols. <i>Physica B: Condensed Matter</i> , 1992, 180-181, 861-864.	2.7	8
85	Large supramolecular structures in water-alcohol mixtures evidenced by elastic light scattering. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1992, 14, 333-341.	0.4	12
86	Viscoelastic properties of dense microemulsions: Hypersound results. <i>Physical Review A</i> , 1991, 43, 5710-5713.	2.5	13
87	Molecular aggregations in water-2-butoxyethanol mixtures by ultrasonic and Brillouin light-scattering measurements. <i>Physical Review A</i> , 1991, 44, 2578-2587.	2.5	22
88	EXAFS and Raman studies of ion-ion and ion-water interactions in strong II-I electrolytic solutions. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1990, 12, 197-207.	0.4	6
89	Aggregation phenomena and dynamics in II-I and III-I hydrated molten salts. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1990, 12, 657-671.	0.4	1
90	Raman spectrometer control with IBM-PC/XT. <i>Review of Scientific Instruments</i> , 1990, 61, 2243-2245.	1.3	2

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91	Correlation spectroscopy in molten and supercooled antimony trichloride. <i>Physical Review A</i> , 1990, 41, 3245-3249.	2.5	1
92	Viscoelastic properties of charged colloids, polystyrene, and silica-water suspensions. <i>Physical Review A</i> , 1990, 42, 7304-7311.	2.5	8
93	Elastic and quasielastic light-scattering studies of the aggregation phenomena in water solutions of polystyrene particles. <i>Physical Review A</i> , 1989, 40, 4665-4674.	2.5	27
94	Fractal-like structures in polystyrene solutions studied by light scattering intensity. <i>Solid State Communications</i> , 1989, 70, 233-236.	1.9	1
95	Local coordination and dynamics in liquid antimony trichloride/water mixture. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1987, 9, 829-844.	0.4	4
96	Photon correlation spectroscopy of vitreous ZnCl ₂ in the glass transition region. <i>Solid State Communications</i> , 1986, 57, 509-512.	1.9	5
97	Some evidence of LO ⁻ TO splitting in disordered ZnCl ₂ . <i>Solid State Communications</i> , 1986, 57, 513-517.	1.9	17
98	Dynamical properties of Li ⁺ in D ₂ O: Ion diffusion and collective fluctuations. <i>Physical Review B</i> , 1986, 33, 7481-7487.	3.2	2
99	Evidence of Anomalous Acoustic Behavior from Brillouin Scattering in Supercooled Water. <i>Physical Review Letters</i> , 1984, 52, 1025-1028.	7.8	61
100	Local order and vibrational dynamics in strong II-I mixed electrolytic aqueous solutions. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1983, 2, 103-117.	0.4	14
101	Temperature effects on the local structure of CuBr ₂ aqueous solutions by EXAFS. <i>Solid State Communications</i> , 1982, 42, 213-217.	1.9	16
102	A new technique for Raman spectroscopy in highly absorbing liquid systems. <i>Optics Communications</i> , 1980, 32, 274-278.	2.1	2