Cirino Vasi

List of Publications by Year
in descending order

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102	1,757	279798	330143
papers	citations	23 h-index	37 g-index

103	103	103	2288
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Strongly enhanced light trapping in a two-dimensional silicon nanowire random fractal array. Light: Science and Applications, 2016, 5, e16062-e16062.	16.6	97
3	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
4	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
5	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
6	Evidence of Anomalous Acoustic Behavior from Brillouin Scattering in Supercooled Water. Physical Review Letters, 1984, 52, 1025-1028.	7.8	61
7	Time-of-Flight Neutron Imaging on IMAT@ISIS: A New User Facility for Materials Science. Journal of Imaging, 2018, 4, 47.	3.0	50
8	Raman scattering measurements on a floating water bridge. Journal Physics D: Applied Physics, 2010, 43, 175405.	2.8	48
9	Nano-Raman imaging of Cuâ€“TCNQ clusters in TCNQ thin films by scanning near-field optical microscopyPresented 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, 2747-2753.	2.8	45
10	Coherent backscattering of Raman light. Nature Photonics, 2017, 11, 170-176.	31.4	44
11	Boson peak in alkaline borate glasses: Raman spectroscopy, neutron scattering, and specific-heat measurements. Physical Review B, 2009, 79, .	3.2	43
12	The influence of water on protein properties. Journal of Chemical Physics, 2014, 141, 165104.	3.0	42
13	The thermodynamical response functions and the origin of the anomalous behavior of liquid water. Faraday Discussions, 2013, 167, 95.	3.2	40
14	Dynamical properties of water-methanol solutions studied by depolarized Rayleigh scattering. Physical Review E, 1996, 54, 1720-1724.	2.1	37
15	Status of the Neutron Imaging and Diffraction Instrument IMAT. Physics Procedia, 2015, 69, 71-78.	1.2	36
16	Thermodynamic properties of bulk and confined water. Journal of Chemical Physics, 2014, 141, 18C504.	3.0	35
17	Dynamical properties of water-methanol solutions. Journal of Chemical Physics, 2016, 144, 064506.	3.0	31
18	Raman microscopy study of pulsed laser ablation deposited silicon carbide films. Thin Solid Films, 1998, 332, 290-294.	1.8	30

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19	Spectral evidence of connected structures in liquid water: Effective Raman density of vibrational states. Physical Review E, 1993, 47, 2669-2675.	2.1	29
20	Structural properties of micellar solutions. Journal of Molecular Structure, 1993, 296, 265-269.	3.6	28
21	Elastic and quasielastic light-scattering studies of the aggregation phenomena in water solutions of polystyrene particles. Physical Review A, 1989, 40, 4665-4674.	2.5	27
22	Communication: An extended model of liquid bridging. Journal of Chemical Physics, 2010, 133, 081104.	3.0	27
23	Silicon nanowire and carbon nanotube hybrid for room temperature multiwavelength light source. Scientific Reports, 2015, 5, 16753.	3.3	26
24	Molecular aggregations in waterâ€“2-butoxyethanol mixtures by ultrasonic and Brillouin light-scattering measurements. Physical Review A, 1991, 44, 2578-2587.	2.5	22
25	Some thermodynamical aspects of protein hydration water. Journal of Chemical Physics, 2015, 142, 215103.	3.0	22
26	Structural changes and elastic characteristics of permanently densified vitreous<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Rev	3.2	21
27	Interferometric determination of the refractive index of liquid sulphur dioxide. Measurement Science and Technology, 2000, 11, 1714-1720.	2.6	20
28	Structure of bulk water from Raman measurements of supercooled pure liquid and LiCl solutions. Physical Review B, 2012, 86, .	3.2	20
29	Influence of Packing on Low Energy Vibrations of Densified Glasses. Physical Review Letters, 2013, 111, 245502.	7.8	20
30	Neutron scattering and compressibility measurements for the study of hydration effects on polymeric aqueous solutions. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 809-816.	0.4	19
31	Optical near-field Raman imaging with subdiffraction resolution. Applied Optics, 2003, 42, 2724.	2.1	19
32	Percolative phenomena in lecithin reverse micelles: the role of water. Colloid and Polymer Science, 2002, 280, 193-202.	2.1	18
33	Some evidence of LOî—¸TO splitting in disordered ZnCl2. Solid State Communications, 1986, 57, 513-517.	1.9	17
34	Temperature effects on the local structure of CuBr2 aqueous solutions by EXAFS. Solid State Communications, 1982, 42, 213-217.	1.9	16
35	CN x thin films grown by pulsed laser deposition: Raman, infrared and X-ray photoelectron spectroscopy study. Thin Solid Films, 1999, 355-356, 219-222.	1.8	15
36	The autofocusing system of the IMAT neutron camera. Review of Scientific Instruments, 2013, 84, 093701.	1.3	15

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37	Local order and vibrational dynamics in strong II-I mixed electrolytic aqueous solutions. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1983, 2, 103-117.	0.4	14
38	Small-angle neutron scattering from lecithin reverse micelles. Journal of Molecular Structure, 1996, 383, 99-106.	3.6	14
39	Measurement of the dielectric constant of amorphousCNxfilms in the 0â€“45 eV energy range. Physical Review B, 2000, 62, 16893-16899.	3.2	14
40	Low cost synthesis of silicon nanowires for photonic applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 34-40.	2.2	14
41	Viscoelastic properties of dense microemulsions: Hypersound results. Physical Review A, 1991, 43, 5710-5713.	2.5	13
42	Micro-Raman study of free-standing porous silicon samples. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 468.	1.6	13
43	Large supramolecular structures in water-alcohol mixtures evidenced by elastic light scattering. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1992, 14, 333-341.	0.4	12
44	Optical constants of CNx thin films from reflection electron energy loss spectroscopy. Thin Solid Films, 2000, 377-378, 631-634.	1.8	12
45	Supercooled water escaping from metastability. Scientific Reports, 2014, 4, 7230.	3.3	12
46	Raman scattering and water structure in nonionic amphiphile solutions. Physical Review E, 1993, 48, 3661-3666.	2.1	11
47	Rotational dynamics of water molecules in a waterâ€“short-chain-nonionic-amphiphile mixture: Depolarized light scattering. Physical Review E, 1995, 51, 2349-2355.	2.1	11
48	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
49	A Mean Field Analysis of the Oâ^'H Stretching Raman Spectra in Methanol/Carbon Tetrachloride Mixtures. Journal of Physical Chemistry B, 2005, 109, 16075-16080.	2.6	11
50	The role of association in the dielectric behaviour of methanol/carbon tetrachloride mixtures. Chemical Physics Letters, 2003, 382, 523-527.	2.6	10
51	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
52	Light-scattering study of phase transitions in aqueous solutions of nonionic amphiphiles. Physical Review E, 1995, 52, 5241-5249.	2.1	9
53	Brillouin scattering in liquid sulfur dioxide: relaxational behaviour. Journal of Molecular Liquids, 2004, 110, 33-41.	4.9	9
54	Origin of excess low-energy vibrations in densified B₂O₃glasses. Philosophical Magazine, 2015, 95, 2596-2606.	1.6	9

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55	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
56	Viscoelastic properties of charged colloids, polystyrene, and silica-water suspensions. Physical Review A, 1990, 42, 7304-7311.	2.5	8
57	Incoherent quasi-elastic neutron scattering in isomeric alcohols. Physica B: Condensed Matter, 1992, 180-181, 861-864.	2.7	8
58	Dynamics of water confined in non-ionic amphiphiles supramolecular structures. Physica A: Statistical Mechanics and Its Applications, 1996, 231, 207-219.	2.6	8
59	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
60	Collective acoustic modes in liquids: A comparison between the generalized-hydrodynamics and memory-function approaches. Physical Review E, 2011, 84, 051202.	2.1	8
61	Rattling ions and the anomalous vibrational dynamics of glasses. Physical Review B, 2011, 84, .	3.2	8
62	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
63	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
64	Light-scattering studies in cross-linked gels: Evidence of a microphase separation. Physical Review E, 1993, 48, 4501-4509.	2.1	7
65	Light-scattering studies on waterâ€“nonionic-amphiphile solutions. Physical Review E, 1995, 51, 2341-2348.	2.1	7
66	Some considerations on the transport properties of water-glycerol suspensions. Journal of Chemical Physics, 2016, 144, 014501.	3.0	7
67	EXAFS and Raman studies of ion-ion and ion-water interactions in strong II-I electrolytic solutions. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1990, 12, 197-207.	0.4	6
68	Structural transformations, elastic moduli and thermal expansion of permanently compacted B2O3 glasses. Journal of Non-Crystalline Solids, 2014, 401, 40-43.	3.1	6
69	Photon correlation spectroscopy of vitreous ZnCl2 in the glass transition region. Solid State Communications, 1986, 57, 509-512.	1.9	5
70	Dynamic Light Scattering Studies on Lecithin Polymer-Like Gels. Molecular Crystals and Liquid Crystals, 1992, 212, 255-262.	0.3	5
71	Diffusive motion and H-bond effects on liquid poly(ethylene oxide) and on its aqueous solutions. Physica B: Condensed Matter, 1995, 213-214, 515-517.	2.7	5
72	Is electrospray emission really due to columbic forces?. AIP Advances, 2014, 4, .	1.3	5

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73	Silicon nanowires: synthesis, optical properties and applications. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1622-1625.	0.8	5
74	Near-Field Raman Spectroscopy and Imaging. Nanoscience and Technology, 2007, , 287-329.	1.5	5
75	Local coordination and dynamics in liquid antimony trichloride/water mixture. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1987, 9, 829-844.	0.4	4
76	Water dynamics in amphiphiles and alcoholic solutions. Physica A: Statistical Mechanics and Its Applications, 1998, 257, 107-118.	2.6	4
77	Micro-Raman study of reactive pulsed laser ablation deposited silicon carbon alloy films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 3020-3024.	2.1	4
78	Evidence of percolative phenomena in a lecithin-based gel. Physica B: Condensed Matter, 2000, 276-278, 347-348.	2.7	4
79	TIMEâ€OFâ€FLIGHT NEUTRON DIFFRACTION CHARACTERIZATION OF CERAMIC FINDINGS FROM SOUTHERN AND WESTERN SICILY*. Archaeometry, 2009, 51, 568-575.	1.3	4
80	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
81	Low-Energy Vibrational Dynamics of Cesium Borate Glasses. Journal of Physical Chemistry B, 2012, 116, 6499-6505.	2.6	4
82	Water and lysozyme: Some results from the bending and stretching vibrational modes. Frontiers of Physics, 2015, 10, 1.	5.0	4
83	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
84	High-frequency propagating density fluctuations in deeply supercooled water: Evidence of a single viscous relaxation. Physical Review E, 2013, 87, 022303.	2.1	3
85	Volume crossover in deeply supercooled water adiabatically freezing under isobaric conditions. Journal of Chemical Physics, 2013, 138, 184504.	3.0	3
86	The dynamical fragile-to-strong crossover in attractive colloidal systems. Journal of Non-Crystalline Solids, 2015, 407, 355-360.	3.1	3
87	A new technique for Raman spectroscopy in highly absorbing liquid systems. Optics Communications, 1980, 32, 274-278.	2.1	2
88	Dynamical properties of Lilâ‹…D2O: Ion diffusion and collective fluctuations. Physical Review B, 1986, 33, 7481-7487.	3.2	2
89	Raman spectrometer control with IBMâ€PC/XT. Review of Scientific Instruments, 1990, 61, 2243-2245.	1.3	2
90	Sol-gel transition in worm-like micelles. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 771-781.	0.4	2

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91	Dynamical properties of water-methanol solutions: Brillouin and depolarized Rayleigh scattering. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 923-931.	0.4	2
92	Small-angle light scattering in dense microemulsions, transition from droplet to bicontinuous phase. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1627-1633.	0.4	2
93	Growth and structural properties of hydrogenated silicon films deposited by pulsed laser ablation. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 921-925.	2.1	2
94	Enhancement of electrorheological effect by particle-fluid interaction. Physical Review E, 2013, 87, 062304.	2.1	2
95	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
96	Fractal-like structures in polystyrene solutions studied by light scattering intensity. Solid State Communications, 1989, 70, 233-236.	1.9	1
97	Aggregation phenomena and dynamics in II-I and III-I hydrated molten salts. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1990, 12, 657-671.	0.4	1
98	Correlation spectroscopy in molten and supercooled antimony trichloride. Physical Review A, 1990, 41, 3245-3249.	2.5	1
99	Sound propagation and viscosity in water short-chain amphiphiles solutions, evidence of percolation phenomena. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1619-1625.	0.4	1
100	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
101	Brillouin scattering from polymers and gels. Macromolecular Symposia, 1994, 79, 179-191.	0.7	0
102	Relaxation processes in polymer-salt complexes. Colloid and Polymer Science, 2003, 281, 882-886.	2.1	0