Salvatore MagazÃ¹

List of Publications by Year in descending order

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123 papers 2,527 citations

201674 27 h-index 233421 45 g-index

124 all docs

 $\begin{array}{c} 124 \\ \text{docs citations} \end{array}$

times ranked

124

2473 citing authors

#	Article	IF	CITATIONS
1	Amphiphiles Self-Assembly: Basic Concepts and Future Perspectives of Supramolecular Approaches. Advances in Condensed Matter Physics, 2015, 2015, 1-22.	1.1	341
2	Soft Interaction in Liposome Nanocarriers for Therapeutic Drug Delivery. Nanomaterials, 2016, 6, 125.	4.1	125
3	Puzzle of ProteinDynamical Transition. Journal of Physical Chemistry B, 2011, 115, 7736-7743.	2.6	89
4	Mean-Square Displacement Relationship in Bioprotectant Systems by Elastic Neutron Scattering. Biophysical Journal, 2004, 86, 3241-3249.	0.5	87
5	Study of the dynamical properties of water in disaccharide solutions. European Biophysics Journal, 2007, 36, 163-171.	2.2	62
6	Anti-aggregation properties of trehalose on heat-induced secondary structure and conformation changes of bovine serum albumin. Biophysical Chemistry, 2010, 147, 146-152.	2.8	59
7	α,α-Trehaloseâ^'Water Solutions. VIII. Study of the Diffusive Dynamics of Water by High-Resolution Quasi Elastic Neutron Scattering. Journal of Physical Chemistry B, 2006, 110, 1020-1025.	2.6	57
8	Diosmin binding to human serum albumin and its preventive action against degradation due to oxidative injuries. Biochimie, 2013, 95, 2042-2049.	2.6	55
9	Mean Square Displacements from Elastic Incoherent Neutron Scattering Evaluated by Spectrometers Working with Different Energy Resolution on Dry and Hydrated (H ₂ O and) Tj ETQq1 1 0.784314 rg	gBT 2 0 verlo	ock5#10 Tf 50 4
10	Effects of low intensity static magnetic field on FTIR spectra and ROS production in SHâ€SY5Y neuronalâ€like cells. Bioelectromagnetics, 2013, 34, 618-629.	1.6	54
11	Correlation between bioprotective effectiveness and dynamic properties of trehalose–water, maltose–water and sucrose–water mixtures. Carbohydrate Research, 2005, 340, 2796-2801.	2.3	52
12	THE DISACCHARIDE TREHALOSE INHIBITS PROINFLAMMATORY PHENOTYPE ACTIVATION IN MACROPHAGES AND PREVENTS MORTALITY IN EXPERIMENTAL SEPTIC SHOCK. Shock, 2007, 27, 91-96.	2.1	48
13	FTIR Spectroscopy Studies on the Bioprotective Effectiveness of Trehalose on Human Hemoglobin Aqueous Solutions under 50 Hz Electromagnetic Field Exposure. Journal of Physical Chemistry B, 2010, 114, 12144-12149.	2.6	47
14	Inelastic neutron scattering study on bioprotectant systems. Journal of the Royal Society Interface, 2005, 2, 527-532.	3.4	45
14		3.4 1.9	45
	2005, 2, 527-532.		
15	2005, 2, 527-532. Concepts and problems in protein dynamics. Chemical Physics, 2013, 424, 2-6.	1.9	45

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19	Innovative Wavelet Protocols in Analyzing Elastic Incoherent Neutron Scattering. Journal of Physical Chemistry B, 2012, 116, 9417-9423.	2.6	36
20	Protective effects of agmatine in rotenone-induced damage of human SH-SY5Y neuroblastoma cells: Fourier transform infrared spectroscopy analysis in a model of Parkinson's disease. Amino Acids, 2012, 42, 775-781.	2.7	36
21	Thermal properties of an exopolysaccharide produced by a marine thermotolerant Bacillus licheniformis by ATR-FTIR spectroscopy. International Journal of Biological Macromolecules, 2020, 145, 77-83.	7.5	35
22	Studying the Electromagnetic-Induced Changes of the Secondary Structure of Bovine Serum Albumin and the Bioprotective Effectiveness of Trehalose by Fourier Transform Infrared Spectroscopy. Journal of Physical Chemistry B, 2011, 115, 6818-6826.	2.6	34
23	Thermal behaviour of hydrated lysozyme in the presence of sucrose and trehalose by EINS. Journal of Non-Crystalline Solids, 2011, 357, 664-670.	3.1	31
24	Bio-protective effects of homologous disaccharides on biological macromolecules. European Biophysics Journal, 2012, 41, 361-367.	2.2	31
25	Neutron scattering studies on dUTPase complex in the presence of bioprotectant systems. Chemical Physics, 2008, 345, 250-258.	1.9	28
26	New insights into bioprotective effectiveness of disaccharides: an FTIR study of human haemoglobin aqueous solutions exposed to static magnetic fields. Journal of Biological Physics, 2012, 38, 61-74.	1.5	28
27	Unfolding and Aggregation of Myoglobin Can Be Induced by Three Hours' Exposure to Mobile Phone Microwaves: A FTIR Spectroscopy Study. Spectroscopy Letters, 2013, 46, 583-589.	1.0	27
28	Non-Thermal Effects of Microwave Oven Heating on Ground Beef Meat Studied in the Mid-Infrared Region by Fourier Transform Infrared Spectroscopy. Spectroscopy Letters, 2014, 47, 649-656.	1.0	27
29	Soft nanoparticles charge expression within lipid membranes: The case of amino terminated dendrimers in bilayers vesicles. Colloids and Surfaces B: Biointerfaces, 2018, 170, 609-616.	5.0	27
30	50 Hz Electromagnetic Field Produced Changes in FTIR Spectroscopy Associated with Mitochondrial Transmembrane Potential Reduction in Neuronal-Like SH-SY5Y Cells. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-8.	4.0	26
31	Characterization of molecular motions in biomolecular systems by elastic incoherent neutron scattering. Journal of Chemical Physics, 2008, 129, 155103.	3.0	25
32	Demicellization of Polyethylene Oxide in Water Solution under Static Magnetic Field Exposure Studied by FTIR Spectroscopy. Advances in Physical Chemistry, 2013, 2013, 1-8.	2.0	25
33	The \hat{l}_{\pm} -helix alignment of proteins in water solution toward a high-frequency electromagnetic field: A FTIR spectroscopy study. Electromagnetic Biology and Medicine, 2017, 36, 279-288.	1.4	25
34	Colloidal stability of liposomes. AIMS Materials Science, 2019, 6, 200-213.	1.4	25
35	Thermal restraint of a bacterial exopolysaccharide of shallow vent origin. International Journal of Biological Macromolecules, 2018, 114, 649-655.	7.5	24
36	Theoretical and Experimental Models on Viscosity:  I. Glycerol. Journal of Physical Chemistry B, 2007, 111, 9563-9570.	2.6	23

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37	Elastic Incoherent Neutron Scattering on Systems of Biophysical Interest: Mean Square Displacement Evaluation from Self-Distribution Function. Journal of Physical Chemistry B, 2008, 112, 8936-8942.	2.6	22
38	Mean square displacement evaluation by elastic neutron scattering self-distribution function. Physical Review E, 2008, 77, 061802.	2.1	21
39	Electromagnetic Fields Effects on the Secondary Structure of Lysozyme and Bioprotective Effectiveness of Trehalose. Advances in Physical Chemistry, 2012, 2012, 1-6.	2.0	21
40	Ethylene Glycol – Polyethylene Glycol (EG-PEG) Mixtures: Infrared Spectra Wavelet Cross-Correlation Analysis. Applied Spectroscopy, 2017, 71, 401-409.	2.2	19
41	Fourier Self-Deconvolution Analysis of Î ² -Sheet Contents in the Amide I Region of Hemoglobin Aqueous Solutions under Exposure to 900ÂMHz Microwaves and Bioprotective Effectiveness of Sugar and Salt Solutions. Spectroscopy Letters, 2015, 48, 741-747.	1.0	18
42	Parallel βâ€sheet vibration band increases with proteins dipole moment under exposure to 1765 MHz microwaves. Bioelectromagnetics, 2016, 37, 99-107.	1.6	18
43	The Shielding Action of Disaccharides for Typical Proteins in Aqueous Solution Against Static, 50 Hz and 1800 MHz Frequencies Electromagnetic Fields. Current Chemical Biology, 2016, 10, 57-64.	0.5	18
44	Motion characterization by self-distributionâ€"function procedure. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 49-55.	2.3	17
45	Direct spectroscopic evidence for competition between thermal molecular agitation and magnetic field in a tetrameric protein in aqueous solution. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1389-1394.	2.1	17
46	Mean square displacement from self-distribution function evaluation by elastic incoherent neutron scattering. Journal of Molecular Structure, 2008, 882, 140-145.	3.6	16
47	Study of solvent–protein coupling effects by neutron scattering. Journal of Biological Physics, 2010, 36, 207-220.	1.5	16
48	Diffusive Properties of α,α-Trehalose-Water Solutions. Progress of Theoretical Physics Supplement, 1997, 126, 195-200.	0.1	16
49	Biomolecular motion characterization by a self-distribution-function procedure in elastic incoherent neutron scattering. Physical Review E, 2009, 79, 041915.	2.1	15
50	Inspections of Mobile Phone Microwaves Effects on Proteins Secondary Structure by Means of Fourier Transform Infrared Spectroscopy. Journal of Electromagnetic Analysis and Applications, 2010, 02, 607-617.	0.2	15
51	Correlation between Increases of the Annual Global Solar Radiation and the Ground Albedo Solar Radiation due to Desertification—A Possible Factor Contributing to Climatic Change. Climate, 2016, 4, 64.	2.8	15
52	Changes in vibrational modes of water and bioprotectants in solution. Biophysical Chemistry, 2007, 125, 138-142.	2.8	14
53	Influences of temperature and threshold effect of NaCl concentration on Alpias vulpinus OCT. International Journal of Biological Macromolecules, 2008, 43, 474-480.	7.5	14
54	Stabilization effects of kosmotrope systems on ornithine carbamoyltransferase. International Journal of Biological Macromolecules, 2009, 45, 120-128.	7.5	14

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55	Resonant interaction between electromagnetic fields and proteins: A possible starting point for the treatment of cancer. Electromagnetic Biology and Medicine, 2018, 37, 155-168.	1.4	14
56	$\hat{l}_{\pm},\hat{l}_{\pm}$ -Trehalose/Water Solutions. VII:Â An Elastic Incoherent Neutron Scattering Study on Fragility. Journal of Physical Chemistry B, 2004, 108, 13580-13585.	2.6	13
57	Molecular Mechanisms of Survival Strategies in Extreme Conditions. Life, 2012, 2, 364-376.	2.4	13
58	Analysis of the ETNA 2015 Eruption Using WRF–Chem Model and Satellite Observations. Atmosphere, 2020, 11, 1168.	2.3	13
59	An Integrated Quasi-Elastic Light-Scattering, Pulse-Gradient-Spinâ´´Echo Study on the Transport Properties of $\hat{I}\pm,\hat{I}\pm$ -Trehalose, Sucrose, and Maltose Deuterium Oxide Solutions. Journal of Physical Chemistry B, 2001, 105, 12143-12149.	2.6	12
60	Concentration dependence of vibrational properties of bioprotectant/water mixtures by inelastic neutron scattering. Journal of the Royal Society Interface, 2007, 4, 167-173.	3.4	12
61	Upgrading of Resolution Elastic Neutron Scattering (RENS). Advances in Materials Science and Engineering, 2013, 2013, 1-7.	1.8	12
62	Vibrational Properties of Bioprotectant Mixtures of Trehalose and Glycerol. Journal of Physical Chemistry B, 2011, 115, 11004-11009.	2.6	11
63	Wavelet Study of Meteorological Data Collected by Arduino-Weather Station: Impact on Solar Energy Collection Technology. MATEC Web of Conferences, 2016, 55, 02004.	0.2	11
64	Infrared spectroscopic demonstration of magnetic orientation in SH-SY5Y neuronal-like cells induced by static or 50 Hz magnetic fields. International Journal of Radiation Biology, 2019, 95, 781-787.	1.8	11
65	Fragility by elastic incoherent neutron scattering. Journal of Chemical Physics, 2004, 121, 8911-8915.	3.0	10
66	Wavelet analysis of near-resonant series RLC circuit with time-dependent forcing frequency. European Journal of Physics, 2018, 39, 045702.	0.6	10
67	The crucial role of water in the formation of the physiological temperature range for warm-blooded organisms. Journal of Molecular Liquids, 2020, 306, 112818.	4.9	10
68	Protein dynamics by neutron scattering: The protein dynamical transition and the fragile-to-strong dynamical crossover in hydrated lysozyme. Chemical Physics, 2013, 424, 26-31.	1.9	9
69	Laser Techniques on Acoustically Levitated Droplets. EPJ Web of Conferences, 2018, 167, 05010.	0.3	9
70	A Physical–Mathematical Approach to Climate Change Effects through Stochastic Resonance. Climate, 2019, 7, 21.	2.8	8
71	Effects of Heavy Ion Particle Irradiation on Spore Germination of Bacillus spp. from Extremely Hot and Cold Environments. Life, 2020, 10, 264.	2.4	8
72	Molecular Basis of Interactions between the Antibiotic Nitrofurantoin and Human Serum Albumin: A Mechanism for the Rapid Drug Blood Transportation. International Journal of Molecular Sciences, 2021, 22, 8740.	4.1	8

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73	Effects of the Addition of Sodium Chloride to a Tetrameric Protein in Water Solution During Exposure to High Frequency Electromagnetic Field. Open Biotechnology Journal, 2017, 11, 72-80.	1.2	8
74	Interdisciplinary approaches to the study of biological membranes. AIMS Biophysics, 2020, 7, 267-290.	0.6	8
75	Static and 50 Hz Electromagnetic Fields Effects on Human Neuronal-Like Cells Vibration Bands in the Mid-Infrared Region. Journal of Electromagnetic Analysis and Applications, 2011, 03, 69-78.	0.2	8
76	Kosmotrope character of maltose in water mixtures. Journal of Molecular Structure, 2007, 830, 167-170.	3.6	7
77	Experimental study on dUTPase-inhibitor candidate and dUTPase/disaccharide mixtures by PCS and ENS. Journal of Molecular Structure, 2008, 886, 128-135.	3.6	7
78	Monitoring Electromagnetic Field Emitted by High Frequencies Home Utilities. Journal of Electromagnetic Analysis and Applications, 2010, 02, 571-579.	0.2	7
79	Effects of Variable Eruption Source Parameters on Volcanic Plume Transport: Example of the 23 November 2013 Paroxysm of Etna. Remote Sensing, 2021, 13, 4037.	4.0	7
80	Structure of Escherichia coli dUTPase in Solution: A Small Angle Neutron Scattering Study. Macromolecular Bioscience, 2003, 3, 477-481.	4.1	6
81	Response to "Comment on â€~Elastic incoherent neutron scattering operating by varying instrumental energy resolution: Principle, simulations, and experiments of the resolution elastic neutron scattering (RENS)'―[Rev. Sci. Instrum. 83, 107101 (2012)]. Review of Scientific Instruments, 2012, 83, 107102.	1.3	6
82	Inelastic neutron scattering study of dynamical properties of bioprotectant solutions against temperature. Journal of Non-Crystalline Solids, 2012, 358, 2635-2640.	3.1	6
83	Spectroscopic Determination of Lysozyme Conformational Changes in the Presence of Trehalose and Guanidine. Cell Biochemistry and Biophysics, 2013, 66, 297-307.	1.8	6
84	The Vitruvian Man of Leonardo da Vinci as a Representation of an Operational Approach to Knowledge. Foundations of Science, 2019, 24, 751-773.	0.7	6
85	Modulation of Maillard reaction and protein aggregation in bovine meat following exposure to microwave heating and possible impact on digestive processes: An FTIR spectroscopy study. Electromagnetic Biology and Medicine, 2020, 39, 129-138.	1.4	6
86	On the Breaking of the Milankovitch Cycles Triggered by Temperature Increase: The Stochastic Resonance Response. Climate, 2021, 9, 67.	2.8	6
87	The Role of Physical Parameterizations on the Numerical Weather Prediction: Impact of Different Cumulus Schemes on Weather Forecasting on Complex Orographic Areas. Atmosphere, 2021, 12, 616.	2.3	6
88	Methyl and methylene vibrations response in amino acids of typical proteins in water solution under high-frequency electromagnetic field. Electromagnetic Biology and Medicine, 2019, 38, 271-278.	1.4	5
89	Rüchardt's experiment treated by Fourier transform. European Journal of Physics, 2019, 40, 025703.	0.6	5
90	Non-Resonant Frequencies of Electromagnetic Fields in \hat{l}_{\pm} -Helices Cellular Membrane Channels. Open Biotechnology Journal, 2018, 12, 86-94.	1.2	5

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91	Reply to "Comment on 'Puzzle of the Protein Dynamical Transition'― Journal of Physical Chemistry B, 2012, 116, 6068-6069.	2.6	4
92	Inducedâ€orientation of nitrogen monoxide and azide ion vibrations in human hemoglobin in bidistilled water solution under a static magnetic field. Bioelectromagnetics, 2017, 38, 447-455.	1.6	4
93	Thermal Investigations on Carbon Nanotubes by Spectroscopic Techniques. Applied Sciences (Switzerland), 2020, 10, 8159.	2.5	4
94	Self-distribution-function procedure in elastic incoherent neutron scattering for biosystems molecular motion characterization. Spectroscopy, 2010, 24, 387-391.	0.8	3
95	Experimental verification of the far-field approximation for a mobile phone antenna. Journal of Electromagnetic Waves and Applications, 2017, 31, 1421-1433.	1.6	3
96	Correlation between hydrogen/deuterium exchange and Amide I band intensity in hemoglobin aqueous solution under static or 50 Hz magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 3405-3411.	2.1	3
97	Chromosome aberration in typical biological systems under exposure to low- and high-intensity magnetic fields. Electromagnetic Biology and Medicine, 2020, 39, 97-108.	1.4	3
98	The inverse relation between mitochondrial transmembrane potential and proteins \hat{l}_{\pm} -helix in neuronal-like cells under static magnetic field and the role of VDAC. Electromagnetic Biology and Medicine, 2020, 39, 176-182.	1.4	3
99	New Perspectives in the Treatment of Tumor Cells by Electromagnetic Radiation at Resonance Frequencies in Cellular Membrane Channels. Open Biotechnology Journal, 2019, 13, 105-110.	1.2	3
100	Study of the correlation between the temperature dependence of viscosity and excess quantities in glycerol. Journal of Physics Condensed Matter, 2008, 20, 104202.	1.8	2
101	Response of hydrogen bonding to low-intensity 50ÂHz electromagnetic field in typical proteins in bi-distilled water solution. Spectroscopy Letters, 2017, 50, 330-335.	1.0	2
102	Leonardo da Vinci: Cause, effect, linearity, and memory. Journal of Advanced Research, 2018, 14, 113-122.	9.5	2
103	Non-resonant Frequencies in Mobile Wireless 5G Communication Networks. Wireless Personal Communications, 2020, 115, 1387-1399.	2.7	2
104	Hot Resistance of Spores from the Thermophilic Bacillus horneckiae SBP3 of Shallow Hydrothermal Vent Origin Elucidated by Spectroscopic Analyses. Applied Sciences (Switzerland), 2021, 11, 4256.	2.5	2
105	Thermal investigation of montmorillonite/BSA by fourier transform infrared spectroscopy measurements <xref ref-type="fn" rid="fn1">¹</xref> . AIMS Biophysics, 2020, 7, 436-451.	0.6	2
106	Climate Change Dynamics and Modeling: Future Perspectives. Climate, 2022, 10, 65.	2.8	2
107	Study of the Boson Peak and Fragility of Bioprotectant Glass-Forming Mixtures by Neutron Scattering. Advances in Materials Science and Engineering, 2013, 2013, 1-6.	1.8	1
108	Measurement of Output Power Density from Mobile Phone as a Function of Input Sound Frequency. Journal of Microwave Power and Electromagnetic Energy, 2013, 47, 270-279.	0.8	1

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109	Interactions of Bovine Muscle Tissue with 2450 MHz Microwaves Studied in the Mid-Infrared Region. International Journal of Food Properties, 2016, 19, 1353-1361.	3.0	1
110	Mutual interactions in a ternary protein/bioprotectant/water system. Vibrational Spectroscopy, 2018, 99, 190-195.	2.2	1
111	FTIR Spectroscopy to Study Bioeffects of Static Magnetic Fields on Neuronal-like Cell Cultures. Current Metabolomics, 2018, 6, .	0.5	1
112	Mixing and crossing disciplines: Leonardo da Vinci's holistic approach to knowledge. International Social Science Journal, 2020, 70, 149-159.	1.6	1
113	Competition between N–H bending vibration and α-helix polarization under 50 Hz magnetic field in SH-SY5Y neuronal-like cells. Spectroscopy Letters, 2020, 53, 458-465.	1.0	1
114	Dynamics of H-Bonded Systems in Nanosized Pores. Progress of Theoretical Physics Supplement, 1997, 126, 367-372.	0.1	1
115	Thermostabilization of BSA in TMAO Water Mixtures by Infrared Spectroscopy. Current Chemical Biology, 2019, 13, 49-59.	0.5	1
116	Experimental Investigation on the Bioprotective Role of Trehalose on Glutamine Solutions by Infrared Spectroscopy. Materials, 2022, 15, 4329.	2.9	1
117	Fragility of complexity biophysical systems by neutron scattering. Physica B: Condensed Matter, 2006, 385-386, 856-858.	2.7	О
118	Cosmetics and pharmaceutics: new trends in biophysical approaches. European Biophysics Journal, 2012, 41, 359-360.	2.2	0
119	Science for life â€" Recent advances in biochemical and biophysical methods. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3501-3503.	2.4	0
120	Correlation spectrometer for filtering of (quasi) elastic neutron scattering with variable resolution. AIP Conference Proceedings, 2018, , .	0.4	0
121	An FT-IR Based Investigation of Trehalose Mediated Thermal Stabilisation of Bacillus clausii. Current Nutrition and Food Science, 2021, 17, 566-571.	0.6	0
122	Bioprotectant Solutions and Food Applications. Current Nutrition and Food Science, 2012, 8, 49-54.	0.6	0
123	FTIR Spectroscopy Analysis can Highlight Induced Damage in Neuronallike Cells and Bio-protective Effectiveness of Agmatine. Current Metabolomics, 2018, 6, .	0.5	0