

Maurizio Leone

List of Publications by Year in descending order

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123
papers

3,503
citations

147801

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docs citations

123
times ranked

3722
citing authors

#	ARTICLE	IF	CITATIONS
1	Aggregation kinetics of bovine serum albumin studied by FTIR spectroscopy and light scattering. <i>Biophysical Chemistry</i> , 2004, 107, 175-187.	2.8	266
2	Conformational changes involved in thermal aggregation processes of bovine serum albumin. <i>Biophysical Chemistry</i> , 2003, 105, 133-141.	2.8	160
3	Secondary Nucleation and Accessible Surface in Insulin Amyloid Fibril Formation. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3853-3858.	2.6	137
4	Amyloid fibrils formation and amorphous aggregation in concanavalin A. <i>Biophysical Chemistry</i> , 2007, 125, 184-190.	2.8	130
5	Thermal aggregation of glycated bovine serum albumin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 789-798.	2.3	106
6	Thioflavin T Hydroxylation at Basic pH and Its Effect on Amyloid Fibril Detection. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15174-15181.	2.6	100
7	Thermal aggregation of bovine serum albumin at different pH: comparison with human serum albumin. <i>European Biophysics Journal</i> , 2007, 36, 717-725.	2.2	97
8	Structural fluctuations of myoglobin from normal-modes, Mössbauer, Raman, and absorption spectroscopy. <i>Biophysical Journal</i> , 1996, 70, 2092-2099.	0.5	93
9	Optical absorption spectra of deoxy- and oxyhemoglobin in the temperature range 300±20 K. <i>Biophysical Chemistry</i> , 1986, 24, 259-275.	2.8	91
10	Bovine Serum Albumin protofibril-like aggregates formation: Solo but not simple mechanism. <i>Archives of Biochemistry and Biophysics</i> , 2011, 508, 13-24.	3.0	84
11	Thioflavin T Promotes Aβ(1-40) Amyloid Fibrils Formation. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1596-1601.	4.6	79
12	Protein dynamics. Vibrational coupling, spectral broadening mechanisms, and anharmonicity effects in carbonmonoxy heme proteins studied by the temperature dependence of the Soret band lineshape. <i>Biophysical Journal</i> , 1992, 63, 475-484.	0.5	74
13	Oxidation Enhances Human Serum Albumin Thermal Stability and Changes the Routes of Amyloid Fibril Formation. <i>PLoS ONE</i> , 2014, 9, e84552.	2.5	61
14	Low temperature optical absorption spectroscopy: an approach to the study of stereodynamic properties of heme proteins. <i>European Biophysics Journal</i> , 1995, 23, 385-98.	2.2	56
15	Self-Organization Pathways and Spatial Heterogeneity in Insulin Amyloid Fibril Formation. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10830-10837.	2.6	54
16	Thermal aggregation and ion-induced cold-gelation of bovine serum albumin. <i>European Biophysics Journal</i> , 2009, 38, 437-446.	2.2	53
17	Spectral and kinetic properties of the 4.4-eV photoluminescence band in a-SiO ₂ : Effects of ³¹ P irradiation. <i>Physical Review B</i> , 1996, 54, 6194-6199.	3.2	52
18	Influence of metal ions on thermal aggregation of bovine serum albumin: Aggregation kinetics and structural changes. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1729-1738.	3.5	50

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19	Simultaneous Determination of Caffeine and Chlorogenic Acids in Green Coffee by UV/Vis Spectroscopy. <i>Journal of Chemistry</i> , 2017, 2017, 1-8.	1.9	49
20	Conformational disorder in vitreous systems probed by photoluminescence activity in SiO ₂ . <i>Physical Review B</i> , 1999, 60, 11475-11481.	3.2	47
21	Thermal oxidative process in extra-virgin olive oils studied by FTIR, rheology and time-resolved luminescence. <i>Food Chemistry</i> , 2011, 126, 1226-1231.	8.2	47
22	Structural and dynamic properties of the heme pocket in myoglobin probed by optical spectroscopy. <i>Biopolymers</i> , 1988, 27, 1977-1997.	2.4	44
23	Fluctuation Methods To Study Protein Aggregation in Live Cells: Concanavalin A Oligomers Formation. <i>Biophysical Journal</i> , 2011, 100, 774-783.	0.5	43
24	Protein dynamics. Comparative investigation on heme-proteins with different physiological roles. <i>Biophysical Journal</i> , 1991, 59, 742-754.	0.5	42
25	Thermal aggregation of β^2 -lactoglobulin in presence of metal ions. <i>Biophysical Chemistry</i> , 2007, 131, 52-61.	2.8	40
26	Anharmonic Protein Motions and Heme Deformations in Myoglobin Cyanide Probed by Absorption and Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 4754-4764.	2.6	38
27	OH-related infrared absorption bands in oxide glasses. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1796-1800.	3.1	35
28	Thioflavin T templates amyloid $\beta^2(1-40)$ conformation and aggregation pathway. <i>Biophysical Chemistry</i> , 2015, 206, 1-11.	2.8	35
29	Synthesis and characterization of CdS nanoparticles embedded in a polymethylmethacrylate matrix. <i>Journal of Colloid and Interface Science</i> , 2005, 284, 495-500.	9.4	34
30	Probing ensemble polymorphism and single aggregate structural heterogeneity in insulin amyloid self-assembly. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 229-240.	9.4	34
31	β^3 -ray-induced bleaching in silica: Conversion from optical to paramagnetic defects. <i>Physical Review B</i> , 2000, 61, 1946-1951.	3.2	33
32	Optical properties of biocompatible polyaniline nano-composites. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 3835-3840.	3.1	32
33	Microwave-assisted synthesis of anhydrous CdS nanoparticles in a water-in-oil microemulsion. <i>Journal of Colloid and Interface Science</i> , 2006, 304, 413-418.	9.4	32
34	Structure-dynamics-function relationships in Asian elephant (<i>Elephas maximus</i>) myoglobin. An optical spectroscopy and flash photolysis study on functionally important motions. <i>Biophysical Journal</i> , 1993, 65, 2461-2472.	0.5	31
35	Evaluation of the antibacterial power and biocompatibility of zinc oxide nanorods decorated graphene nanoplatelets: new perspectives for antibiodeteriorative approaches. <i>Journal of Nanobiotechnology</i> , 2017, 15, 57.	9.1	31
36	Stereodynamic properties of the cooperative homodimeric <i>Scapharca inaequalis</i> hemoglobin studied through optical absorption spectroscopy and ligand rebinding kinetics. <i>Biophysical Journal</i> , 1994, 67, 1713-1723.	0.5	30

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37	Interaction between external medium and haem pocket in myoglobin probed by low-temperature optical spectroscopy. <i>Journal of Molecular Biology</i> , 1988, 199, 213-218.	4.2	28
38	Thermal broadening of the Soret band in heme complexes and in heme-proteins: role of iron dynamics. <i>European Biophysics Journal</i> , 1994, 23, 349-52.	2.2	28
39	Fourier Transform Infrared Analysis of the Interaction of Azide with the Active Site of Oxidized and Reduced Bovine Cu,Zn Superoxide Dismutase. <i>Biochemistry</i> , 1998, 37, 4459-4464.	2.5	28
40	Homogeneous and inhomogeneous contributions to the luminescence linewidth of point defects in amorphous solids: Quantitative assessment based on time-resolved emission spectroscopy. <i>Physical Review B</i> , 2008, 78, .	3.2	28
41	Metal ions modulate thermal aggregation of beta-lactoglobulin: A joint chemical and physical characterization. <i>Journal of Inorganic Biochemistry</i> , 2014, 137, 64-73.	3.5	28
42	Temperature and excitation energy dependence of decay processes of luminescence in Ge-doped silica. <i>Physical Review B</i> , 2003, 68, .	3.2	27
43	Protein dynamics: conformational disorder, vibrational coupling and anharmonicity in deoxy-hemoglobin and myoglobin. <i>European Biophysics Journal</i> , 1993, 21, 385-91.	2.2	26
44	Effects of succinylation on thermal induced amyloid formation in Concanavalin A. <i>European Biophysics Journal</i> , 2007, 36, 733-741.	2.2	24
45	Irradiation effects on the OH-related infrared absorption band in synthetic wet silica. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 555-558.	3.1	23
46	Effects of confinement on insulin amyloid fibrils formation. <i>European Biophysics Journal</i> , 2007, 36, 711-715.	2.2	23
47	Probing the internal environment of PVP networks generated by irradiation with different sources. <i>Colloid and Polymer Science</i> , 2010, 288, 969-980.	2.1	23
48	Dynamics of Various Metal-Octaethylporphyrins in Solution Studied by Resonance Raman and Low-Temperature Optical Absorption Spectroscopies. Role of the Central Metal. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6612-6620.	2.6	22
49	Amyloid Fibrils Formation of Concanavalin A at Basic pH. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2691-2698.	2.6	22
50	Luminescence and absorption spectroscopy of Sn-related impurity centers in silica. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2082-2089.	3.1	21
51	High Fluorescence of Thioflavin T Confined in Mesoporous Silica Xerogels. <i>Langmuir</i> , 2013, 29, 10238-10246.	3.5	21
52	Dynamic properties of oxy- and carbonmonoxyhemoglobin probed by optical spectroscopy in the temperature range of 300-20 K. <i>Biopolymers</i> , 1987, 26, 1769-1779.	2.4	20
53	Thermal behavior of the 760-nm absorption band in photodissociated sperm whale carbonmonoxymyoglobin at cryogenic temperature: Dependence on external medium. <i>Biopolymers</i> , 1990, 29, 639-643.	2.4	20
54	Low-Temperature Optical Spectroscopy of Native and Azide-Reacted Bovine Cu,Zn Superoxide Dismutase. A Structural Dynamics Study. <i>Biochemistry</i> , 1994, 33, 15103-15109.	2.5	20

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55	Conformational Properties of Nickel(II) Octaethylporphyrin in Solution. 2. A Low-Temperature Optical Absorption Spectroscopy Study. <i>The Journal of Physical Chemistry</i> , 1996, 100, 14192-14197.	2.9	20
56	Properties of Human Hemoglobins with Increased Polarity in the $\hat{1}\pm$ - or $\hat{1}^2$ -Heme Pocket. <i>Journal of Biological Chemistry</i> , 1998, 273, 23740-23749.	3.4	20
57	Role of vitreous matrix on the optical activity of Ge-doped silica. <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 2437-2443.	4.0	20
58	Neutron Scattering Reveals Enhanced Protein Dynamics in Concanavalin A Amyloid Fibrils. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 992-996.	4.6	20
59	Conformational substates of the Fe ²⁺ -His F8 linkage in deoxymyoglobin and hemoglobin probed in parallel by the Raman band of the Fe-His stretching vibration and the near-infrared absorption band III. <i>International Journal of Quantum Chemistry</i> , 1996, 59, 301-313.	2.0	19
60	Photoluminescence at 1.9 eV in synthetic wet silica. <i>Journal of Non-Crystalline Solids</i> , 2001, 280, 183-187.	3.1	19
61	Monitoring few molecular binding events in scalable confined aqueous compartments by raster image correlation spectroscopy (CADRICS). <i>Lab on A Chip</i> , 2016, 16, 4666-4676.	6.0	19
62	Low temperature photoluminescence spectroscopy relationship between 3.1 and 4.2 eV bands in vitreous silica. <i>Journal of Non-Crystalline Solids</i> , 1997, 216, 105-110.	3.1	18
63	Near-Infrared Emission of O ₂ Embedded in Amorphous SiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12831-12835.	3.1	18
64	Unlocked Concanavalin A Forms Amyloid-like Fibrils from Coagulation of Long-lived "Crinkled" Intermediates. <i>PLoS ONE</i> , 2013, 8, e68912.	2.5	18
65	Thermal behavior of the near ir absorption of H ₂ O and NaClO ₄ aqueous solutions. <i>Journal of Chemical Physics</i> , 1977, 66, 335-341.	3.0	17
66	Biomolecular-Solvent Stereodynamic Coupling Probed by Deuteration. <i>Journal of Biomolecular Structure and Dynamics</i> , 1983, 1, 473-486.	3.5	17
67	Characterization of the nucleation process of lysozyme at physiological pH: Primary but not sole process. <i>Biophysical Chemistry</i> , 2013, 177-178, 24-33.	2.8	17
68	Deciphering metal-induced oxidative damages on glycated albumin structure and function. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1712-1724.	2.4	17
69	Luminescence activity of surface and interior Ge ⁴⁺ oxygen deficient centers in silica. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1805-1809.	3.1	15
70	Oxidation Processes in Sicilian Olive Oils Investigated by a Combination of Optical and EPR Spectroscopy. <i>Journal of Food Science</i> , 2012, 77, C1084-9.	3.1	15
71	Ab initio calculations and vibrational spectroscopy on the phenylenediamine isomers. <i>Computational and Theoretical Chemistry</i> , 1998, 422, 35-48.	1.5	14
72	Low-temperature optical spectroscopy of cobalt in Cu,Co superoxide dismutase: a structural dynamics study of the solvent-unaccessible metal site. <i>Biochemistry</i> , 1995, 34, 16313-16319.	2.5	13

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73	Photoluminescence band at 4.4 eV in oxygen-deficient silica: temperature effects. <i>Journal of Physics Condensed Matter</i> , 1996, 8, L545-L549.	1.8	13
74	Optical absorption spectra of azurin and stercyanin in glycerol/water and ethylene glycol/water solutions in the temperature range 290-20 K. <i>Biophysical Chemistry</i> , 1990, 38, 213-224.	2.8	12
75	Oxygen binding to partially oxidized hemoglobin. <i>Biophysical Chemistry</i> , 1990, 37, 171-181.	2.8	12
76	Strong vibronic coupling in heme proteins. <i>Biophysical Chemistry</i> , 1992, 42, 111-115.	2.8	12
77	Modification of $\hat{\nu}_1$ -Chain or $\hat{\nu}_2$ -Chain Heme Pocket Polarity by Val(E11) \rightarrow Thr Substitution Has Different Effects on the Steric, Dynamic, and Functional Properties of Human Recombinant Hemoglobin. <i>Journal of Biological Chemistry</i> , 1997, 272, 26271-26278.	3.4	12
78	Conformational substates and dynamic properties of carbonmonoxy hemoglobin. <i>Biophysical Chemistry</i> , 2003, 104, 335-344.	2.8	12
79	Stationary and time dependent PL emission of ν -SiO ₂ in the UV range. <i>Journal of Non-Crystalline Solids</i> , 1997, 216, 99-104.	3.1	11
80	Title is missing!. <i>Experimental Astronomy</i> , 1997, 7, 51-63.	3.7	11
81	The landscape of the excitation profiles of the $\hat{\nu}_1$ E and $\hat{\nu}_2$ emission bands in silica. <i>Journal of Non-Crystalline Solids</i> , 1999, 245, 196-202.	3.1	11
82	Maltose-conjugated chitosans induce macroscopic gelation of pectin solutions at neutral pH. <i>Carbohydrate Polymers</i> , 2014, 114, 141-148.	10.2	11
83	Direct observation of alpha-lactalbumin, adsorption and incorporation into lipid membrane and formation of lipid/protein hybrid structures. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 784-794.	2.4	11
84	Experimental evidence of different contributions to the photoluminescence at 4.4 eV in synthetic silica. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 721-731.	1.8	10
85	Temperature effects on the IR absorption bands of hydroxyl and deuterioxyl groups in silica glass. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1028-1033.	3.1	10
86	Printing Life-Inspired Subcellular Scale Compartments with Autonomous Molecularly Crowded Confinement. <i>Advanced Biology</i> , 2019, 3, e1900023.	3.0	10
87	Heme symmetry, vibronic structure, and dynamics in heme proteins: Ferrous nicotinate horse myoglobin and soybean leghemoglobin. <i>Biopolymers</i> , 2000, 57, 291-305.	2.4	9
88	Smart hydrogels for Novel Optical Functions. <i>Macromolecular Symposia</i> , 2007, 247, 303-310.	0.7	9
89	Trifluoroethanol modulates $\hat{\nu}_1$ -synuclein amyloid-like aggregate formation, stability and dissolution. <i>Biophysical Chemistry</i> , 2016, 216, 23-30.	2.8	9
90	Donor-Acceptor Interfaces by Engineered Nanoparticles Assemblies for Enhanced Efficiency in Plastic Planar Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 26588-26599.	3.1	9

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91	Near-infrared spectra of Scapharca homodimeric hemoglobin: characterization of the deoxy and photodissociated derivatives. <i>Biophysical Journal</i> , 1996, 70, 2924-2929.	0.5	8
92	Local dynamic properties of vitreous silica probed by photoluminescence spectroscopy in the temperature range 300-4.5 K. <i>Journal of Non-Crystalline Solids</i> , 1998, 232-234, 514-519.	3.1	8
93	Heme Pocket Disorder in Myoglobin: Reversal by Acid-Induced Soft Refolding. <i>Biochemistry</i> , 2001, 40, 11841-11850.	2.5	8
94	Uptake of silica covered Quantum Dots into living cells: Long term vitality and morphology study on hyaluronic acid biomaterials. <i>Materials Science and Engineering C</i> , 2016, 67, 231-236.	7.3	8
95	Dynamic properties of some β -chain mutant hemoglobins. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 22, 12-19.	2.6	7
96	Low temperature optical spectroscopy of low-spin ferric heme proteins. <i>European Biophysics Journal</i> , 1996, 24, 117-24.	2.2	7
97	Structural and Dynamic Properties of the Homodimeric Hemoglobin from <i>Scapharca inaequivalvis</i> Thr-72 \rightarrow Ile Mutant: Molecular Dynamics Simulation, Low Temperature Visible Absorption Spectroscopy, and Resonance Raman Spectroscopy Studies. <i>Biophysical Journal</i> , 1998, 75, 2489-2503.	0.5	7
98	Inhomogeneous width of oxygen-deficient centers induced by electron irradiation of silica. <i>Physical Review B</i> , 2009, 79, .	3.2	7
99	Synergies and compromises between charge and energy transfers in three-component organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8344-8352.	2.8	7
100	Near-i.r. Absorption of H ₂ O and D ₂ O in the liquid and supercooled range. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1983, 2, 1239-1253.	0.4	6
101	Generation of a 7.4 mT ESR doublet induced by β rays in amorphous-SiO ₂ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 166-167, 465-469.	1.4	6
102	UV and vacuum-UV properties of ge related centers in gamma irradiated silica. <i>Radiation Effects and Defects in Solids</i> , 2002, 157, 615-619.	1.2	6
103	Spectral heterogeneity of oxygen-deficient centers in Ge-doped silica. <i>Radiation Measurements</i> , 2004, 38, 645-648.	1.4	6
104	The Boson Peak of Amyloid Fibrils: Probing the Softness of Protein Aggregates by Inelastic Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2913-2923.	2.6	6
105	Vibrational analysis of Ni(II)- and Cu(II)-octamethylchlorin by polarized resonance Raman and Fourier transform infrared spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 521-541.	2.5	5
106	Temperature dependence of luminescence decay in Sn-doped silica. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1937-1940.	3.1	5
107	Isoelectronic Series of Oxygen Deficient Centers in Silica: Experimental Estimation of Homogeneous and Inhomogeneous Spectral Widths. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12104-12108.	2.5	5
108	Low temperature optical spectroscopy of cobalt-substituted hemocyanin from <i>Carcinus maenas</i> . <i>European Biophysics Journal</i> , 1993, 22, 157.	2.2	4

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109	Local dynamic properties of the heme pocket in native and solvent-induced molten-globule-like states of cytochrome c. <i>Biophysical Chemistry</i> , 2002, 97, 121-128.	2.8	4
110	Spectral broadening of the Soret band in myoglobin: an interpretation by the full spectrum of low-frequency modes from a normal modes analysis. <i>European Biophysics Journal</i> , 2005, 34, 881-889.	2.2	4
111	Conformational heterogeneity of the point defects in silica: The lifetime of the phosphorescence band at 2.7eV. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 239-243.	3.1	3
112	Relaxation processes of point defects in vitreous silica from femtosecond to nanoseconds. <i>Applied Physics Letters</i> , 2008, 93, 102901.	3.3	3
113	Sub-Cellular Scale Compartments: Printing Life-Inspired Subcellular Scale Compartments with Autonomous Molecularly Crowded Confinement (<i>Adv. Biosys.</i> 7/2019). <i>Advanced Biology</i> , 2019, 3, 1970074.	3.0	3
114	Structural properties of aqueous electrolyte solutions from i.r. absorption spectra. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1985, 5, 133-146.	0.4	2
115	Bleaching and thermal recovery of PL emissions in natural silica. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 166-167, 495-499.	1.4	2
116	Dynamic properties of the active site of azurin studied by the temperature dependence of the optical spectrum. <i>Biology of Metals</i> , 1990, 3, 77-79.	1.1	1
117	Effect of the covalent Fe-protein linkage on the iron-porphyrin dynamics. , 1999, , .		1
118	Optical properties of oxygen-deficiency related centers in amorphous SiO ₂ investigated by synchrotron radiation. <i>Radiation Effects and Defects in Solids</i> , 2002, 157, 1045-1049.	1.2	1
119	Photoluminescence spectral dispersion as a probe of structural inhomogeneity in silica. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 115803.	1.8	1
120	Oxygenation of partially oxidized human hemoglobin. <i>Biophysical Journal</i> , 1992, 63, 1678-1680.	0.5	0
121	Thermal broadening of Lb band of α -trehalose coated ϵ -tyrosine and phenylalanine. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	0
122	Vibrational mixing and conformational heterogeneity in model-peptides. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	0
123	Structural and dynamic properties of bulky ligand derivatives of heme proteins. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	0