

Curriculum Vitae et Studiorum

Giuseppe Graziano

Professore Ordinario di Chimica Fisica

Dipartimento di Scienze e Tecnologie, Università del Sannio

Maturità Classica con la votazione di 60/60 presso il Liceo Classico P.P. Parzanese di Ariano Irpino, nel luglio 1984.

Laurea in Chimica Industriale con la votazione di 110/110 e lode presso l'Università degli Studi di Milano, in data 16 marzo 1990.

Dottorato di Ricerca in Scienze Chimiche presso il Dipartimento di Chimica dell'Università degli Studi di Napoli Federico II (novembre 1990-ottobre 1993), conseguito nel giugno 1994.

Borsa di studio CNR nel 1994; borsa di studio post-Dottorato dell'Università degli Studi di Napoli Federico II nel 1995.

Ricercatore Universitario di Chimica Fisica, luglio 1996 - ottobre 2001, Università degli Studi del Sannio.

Professore Associato di Chimica Fisica, novembre 2001 – ottobre 2017, Università degli Studi del Sannio.

Professore Ordinario di Chimica Fisica dal novembre 2017, sempre presso l'Università degli Studi del Sannio.

Presidente del Consiglio di Corso di Laurea in Biotecnologie della Facoltà di Scienze MM.FF.NN. dell'Università degli Studi del Sannio dal dicembre 2004 al gennaio 2014.

Componente del Senato Accademico dell'Università degli Studi del Sannio nel triennio 2013/2016, in rappresentanza dei professori associati dell'Ateneo.

Componente del Senato Accademico dell'Università degli Studi del Sannio nel triennio 2022/2025, in rappresentanza dei professori ordinari dell'Ateneo.

Delegato alla Didattica del Rettore dell'Università degli Studi del Sannio nel triennio 2019-2022.

E' autore di oltre 220 pubblicazioni su riviste internazionali con Impact Factor (di cui la metà a singola firma) nel campo della termodinamica e termodinamica-statistica dei processi di idratazione e solvatazione, e nel campo della stabilità conformazionale di proteine globulari. Le pubblicazioni hanno ricevuto (alla data del 28 agosto 2025): (a) oltre 4700 citazioni, generando un h-index pari a 38 - fonte Scopus, includendo le autocitazioni; (b) oltre 6000

citazioni, generando un h-index pari a 42 - fonte Google Scholar, includendo le autocitazioni. E' nell'elenco del 2 per cento dei ricercatori più citati al mondo, stilato dal prof. Ioannidis e collaboratori della Stanford University, sin dalla sua prima pubblicazione su Plos Biology nel 2019.

E' membro dell'Editorial Board di Scientific Reports, la rivista on-line del gruppo Nature, dal maggio 2015.

Ha svolto la funzione di Referee per le seguenti riviste internazionali: Nature Communications, Journal of the American Chemical Society, Journal of Physical Chemistry B, Journal of Physical Chemistry Letters, Biochemistry, Macromolecules, ACS Omega, Journal of Chemical Physics, Biophysical Journal, Chemical Science, Physical Chemistry Chemical Physics, New Journal of Chemistry, Nanoscale, Soft Matter, Chemical Physics Letters, Biophysical Chemistry, Journal of Molecular Liquids, Journal of Theoretical Biology, Biochimica et Biophysica Acta, Journal of Chemical Thermodynamics, International Journal of Biological Macromolecules, Biochimie, Protein Science, Proteins, Pure and Applied Chemistry, Journal of Solution Chemistry, Molecular Simulation, Plos One, Plos Biology, Chem Texts.

E' stato anche Referee per quattro progetti sottomessi alla National Science Foundation; due progetti sottomessi alla Czech Academy of Sciences; un progetto sottomesso alla Organizzazione Olandese per la Ricerca Scientifica, NWO; un progetto sottomesso per un ERC-2024 Advanced Grant.

Benevento, 28 agosto 2025

Giuseppe Graziano

Elenco delle pubblicazioni in riviste con Impact Factor

- G1. **Theseus: a new software package for the handling and analysis of thermal denaturation data of biological macromolecules.**
G.Barone, P.Del Vecchio, D.Fessas, C.Giancola, **G.Graziano**
J.Thermal Analysis, 38 (1992) 2779-2790;
- G2. **Thermal denaturation of ribonuclease T1. A DSC study.**
G.Barone, P.Del Vecchio, D.Fessas, C.Giancola, **G.Graziano**, P.Pucci,
A.Riccio, M.Ruoppolo
J.Thermal Analysis, 38 (1992) 2791-2802;
- G3. **Excess enthalpies of N-acetyl-glycineamide and N-acetyl-L-leucineamide in concentrated aqueous solutions of tetramethylurea.**
G.Barone, P.Del Vecchio, C.Giancola, **G.Graziano**
Thermochimica Acta, 227 (1993) 67-73;
- G4. **The deconvolution of multistate transition DSC curves of biological macromolecules: bovine serum albumin and bovine seminal ribonuclease.**
G.Barone, P.Del Vecchio, D.Fessas, C.Giancola, **G.Graziano**
Thermochimica Acta, 227 (1993) 185-195;
- G5. **Ligand-induced biphasic thermal denaturation of RNase A.**
G.Barone, P.Del Vecchio, D.Fessas, C.Giancola, **G.Graziano**, A.Riccio
J.Thermal Analysis, 41 (1994) 1263-1276;
- G6. **Thermodynamic characterization of RNase A in the presence of urea and GuHCl.**
G.Barone, P.Del Vecchio, D.Fessas, C.Giancola, **G.Graziano**, A.Riccio
J.Thermal Analysis, 41 (1994) 1357-1370;
- G7. **Hydration enthalpy of model peptides: N-acetyl amino acid amides.**
G.Barone, G.Della Gatta, P.Del Vecchio, C.Giancola, **G.Graziano**
Biophys.Chem., 51 (1994) 193-202;
- G8. **The effect of pH on thermal stability of globular proteins: a critical insight.**
G.Barone, F.Catanzano, P.Del Vecchio, D.Fessas, C.Giancola, **G.Graziano**
J.Thermal Analysis, 42 (1994) 383-395;
- G9. **The temperature-induced denaturation of small globular proteins as a first order phase transition of "crystal molecules".**
G.Graziano, G.Barone, F.Catanzano, A.Riccio
J.Thermal Analysis, 44 (1995) 765-775;
- G10. **The liquid amide transfer model and the unfolding thermodynamics of small globular proteins.**
G.Barone, P.Del Vecchio, C.Giancola, **G.Graziano**
Int.J.Biol.Macromol., 17 (1995) 251-257;

- G11. **Differential scanning calorimetry as a tool to study protein-ligand interactions.**
G.Barone, F.Catanzano, P.Del Vecchio, C.Giancola, G.Graziano
Pure & Applied Chemistry, 67 (1995) 1867-1872;
- G12. **Thermal denaturation of bovine serum albumin and its oligomers and derivatives. II: pH dependence.**
G.Barone, S.Capasso, P.Del Vecchio, C.De Sena, D.Fessas, C.Giancola, G.Graziano, P.Tramonti
J.Thermal Analysis, 45 (1995) 1255-1264;
- G13. **The extra-stability of thermophilic globular proteins: a thermodynamic approach.**
G.Graziano, G.Barone, F.Catanzano, A.Riccio
Thermochimica Acta, 269/270 (1995) 381-392;
- G14. **Group additivity analysis of the heat capacity changes associated with the dissolution into water of different organic compounds.**
G.Graziano, G.Barone
J.Am.Chem.Soc., 118 (1996) 1831-1835;
- G15. **The enthalpy-convergence temperature for the dissolution into water of solid α -amino acids.**
G.Graziano, F.Catanzano, G.Barone
Thermochimica Acta, 273 (1996) 43-52;
- G16. **Effect of osmoregulatory solutes on the thermal stability of calf thymus DNA.**
G.Barone, P.Del Vecchio, D.Esposito, D.Fessas, G.Graziano
J.Chem.Soc., Faraday Trans., 92 (1996) 1361-1367;
- G17. **A two-state model of hydrophobic hydration that produces compensating enthalpy and entropy changes.**
B.Lee, G.Graziano
J.Am.Chem.Soc., 118 (1996) 5163-5168;
- G18. **Thermodynamic stability of globular proteins: a reliable model from small molecule studies.**
G.Graziano, F.Catanzano, P.Del Vecchio, C.Giancola, G.Barone
Gazzetta Chimica Italiana, 126 (1996) 559-567;
- G19. **Temperature-induced denaturation of β -glycosidase from the archaeon *Sulfolobus solfataricus*.**
S.D'Auria, M.Rossi, G.Barone, F.Catanzano, P.Del Vecchio, G.Graziano, R.Nucci
Journal of Biochemistry (Tokyo), 120 (1996) 292-300;
- G20. **Temperature-induced denaturation of ribonuclease S: a thermodynamic study.**
F.Catanzano, C.Giancola, G.Graziano, G.Barone
Biochemistry, 35 (1996) 13378-13385;

- G21. **DSC study of the thermal stability of S-protein and S-peptide/S-protein complexes.**
G.Graziano, F.Catanzano, C.Giancola, G.Barone
 Biochemistry, 35 (1996) 13386-13392;
- G22. **Interaction with D-glucose and thermal denaturation of yeast hexokinase B: a DSC study.**
 F.Catanzano, A.Gambuti, G.Graziano, G.Barone
 Journal of Biochemistry (Tokyo), 121 (1997) 568-577;
- G23. **DSC studies on bovine serum albumin denaturation. Effects of ionic strength and SDS concentration.**
 C.Giancola, C.De Sena, D.Fessas, G.Graziano, G.Barone
 Int.J.Biol.Macromol., 20 (1997) 193-204;
- G24. **Thermodynamic analysis of the effect of selective monodeamidation at asparagine 67 in ribonuclease A.**
 F.Catanzano, G.Graziano, S.Capasso, G.Barone
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- G25. **A reassessment of the molecular origin of cold denaturation.**
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- G26. **Thermodynamics of protein stability: a family of ribonucleases.**
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- G27. **From ribonuclease A toward bovine seminal ribonuclease: a step by step thermodynamic analysis.**
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- G28. **Thermodynamics of dissolving gaseous argon in different solvents.**
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 Can.J.Chem., 76 (1998) 437-444;
- G29. **DSC study of the thermodynamic stability of some mutants of Sso7d from *Sulfolobus solfataricus*.**
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- G30. **Guanidine-induced denaturation of β -glycosidase from *Sulfolobus solfataricus* expressed in *Escherichia coli*.**
 F.Catanzano, G.Graziano, B.De Paola, G.Barone, S.D'Auria, M.Rossi, R.Nucci
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- G31. **On the size dependence of hydrophobic hydration.**
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- G32. **Prediction of the heat capacity change on thermal denaturation of globular proteins.**
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 Thermochimica Acta, 321 (1998) 23-31;
- G33. **Circular dichroism study of ribonuclease A mutants containing the minimal structural requirements for dimerization and swapping.**
 F.Catanzano, G.Graziano, V.Cafaro, G.D'Alessio, A.Di Donato, G.Barone
 Int.J.Biol.Macromol., 23 (1998) 277-285;
- G34. **On the temperature dependence of hydration thermodynamics for noble gases.**
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 Phys.Chem.Chem.Phys., 1 (1999) 1877-1886;
- G35. **Hydration thermodynamics of aliphatic alcohols.**
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 Phys.Chem.Chem.Phys., 1 (1999) 3567-3576;
- G36. **On the nature of the temperature-induced transition from the molten globule to the unfolded state of globular proteins.**
G.Graziano, F.Catanzano, G.Barone
 J.Thermal Analysis and Calorimetry, 57 (1999) 329-341;
- G37. **Linkage of proton binding to the thermal unfolding of Sso7d from the hyperthermophilic archaebacterium *Sulfolobus solfataricus*.**
G.Graziano, F.Catanzano, M.Nappa
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- G38. **Hydrophobicity of benzene.**
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- G39. **On the pH dependence of thermodynamic stability of α -amylase inhibitor tendamistat.**
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- G40. **On the temperature-induced coil to globule transition of poly-N-isopropylacrylamide in dilute aqueous solutions.**
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- G41. **Cavity thermodynamics and hydrophobicity.**
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- G42. **Onconase: an unusually stable protein.**
 E.Notomista, F.Catanzano, G.Graziano, F.Dal Piaz, G.Barone, G.D'Alessio, A.Di Donato
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- G43. **Solvation thermodynamics of cyclohexane.**
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- G44. **On the solvent isotope effect in hydrophobic hydration.**
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- G45. **Enthalpic and entropic consequences of the removal of disulfide bridges in ribonuclease A.**
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Thermochimica Acta, 364 (2000) 165-172;
- G46. **Hydration thermodynamics of N-methylacetamide.**
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J.Phys.Soc.Jpn., 69 (2000) 3720-3725;
Erratum: J.Phys.Soc.Jpn., 70 (2001) 2234;
- G47. **Solvation of a water molecule in cyclohexane and water.**
G. Graziano
Can.J.Chem., 79 (2001) 105-109;
- G48. **Comment on “The Mechanism of Hydrophobic Solvation Depends On Solute Radius”**
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J.Phys.Chem.B, 105 (2001) 2079-2081;
- G49. **On the solubility of aliphatic hydrocarbons in 7 M aqueous urea.**
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- G50. **Contribution of chain termini to the conformational stability and biological activity of onconase.**
E.Notomista, F.Catanzano, **G. Graziano**, S.Di Gaetano, G.Barone, A.Di Donato
Biochemistry, 40 (2001) 9097-9103;
- G51. **An analysis of the hydration thermodynamics of the CONH group.**
G. Graziano
Can.J.Chem., 79 (2001) 1310-1320;
- G52. **Hydration of aromatic hydrocarbons.**
G. Graziano, B.Lee
J.Phys.Chem.B, 105 (2001) 10367-10372;
- G53. **Thermal stability of onconase and some mutant forms.**
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Biocatalysis and Biotransformation, 19 (2001) 459-468;

- G54. **Temperature- and denaturant-induced unfolding of two thermophilic esterases.**
P.Del Vecchio, **G.Graziano**, V.Granata, G.Barone, L.Mandrich, G.Manco, M.Rossi
Biochemistry, 41 (2002) 1364-1371;
- G55. **Size and temperature dependence of hydrocarbon solubility in concentrated aqueous solutions of urea and guanidine hydrochloride.**
G.Graziano
Can.J.Chem., 80 (2002) 388-400;
- G56. **Size dependence of the solubility of nonpolar compounds in different solvents.**
G.Graziano
Can.J.Chem., 80 (2002) 401-412;
- G57. **Comment on “Reevaluation in Interpretation of Hydrophobicity by Scaled Particle Theory”**
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- G58. **Denaturing action of urea and guanidine hydrochloride towards two thermophilic esterases.**
P.Del Vecchio, **G.Graziano**, V.Granata, G.Barone, L.Mandrich, M.Rossi, G.Manco
Biochem.J., 367 (2002) 857-863;
- G59. **Hydration entropy change from the hard sphere model.**
G.Graziano, B.Lee
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- G60. **Solvation thermodynamics in a van der Waals liquid.**
G.Graziano
Thermochimica Acta, 399 (2003) 181-187;
- G61. **On the cavity size distribution in water and n-hexane.**
G.Graziano
Biophys.Chem., 104 (2003) 393-405;
- G62. **Effect of trifluoroethanol on the conformational stability of a hyperthermophilic esterase: a CD study.**
P.Del Vecchio, **G.Graziano**, V.Granata, G.Barone, L.Mandrich, M.Rossi, G.Manco
Biophys.Chem., 104 (2003) 407-415;
- G63. **Thermal stability and DNA-binding activity of a variant form of the Sso7d protein from the archaeon *Sulfolobus solfataricus* truncated at leucine 54.**
E.Shehi, V.Granata, P.Del Vecchio, G.Barone, P.Fusi, P.Tortora, **G.Graziano**
Biochemistry, 42 (2003) 8362-8368;
- G64. **Entropy convergence in hydrophobic hydration: a scaled particle theory analysis.**
G.Graziano, B.Lee
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- G65. **Solvation thermodynamics of xenon in n-alkanes, n-alcohols and water.**
G. Graziano
 Biophys.Chem., 105 (2003) 371-382; W. Kauzmann Festschrift
- G66. **Comment on “A simple molecular thermodynamic theory of hydrophobic hydration” J.Chem.Phys. 116, 2907 (2002).**
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- G67. **Rate enhancement of Diels-Alder reactions in aqueous solutions.**
G. Graziano
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- G68. **A van der Waals approach to the entropy convergence phenomenon.**
G. Graziano
 Phys.Chem.Chem.Phys., 6 (2004) 406-410;
- G69. **Case study of enthalpy-entropy non-compensation.**
G. Graziano
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- G70. **Aliphatics versus aromatics hydration thermodynamics.**
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 V.Granata, P.Del Vecchio, G.Barone, E.Shehi, P.Fusi, P.Tortora, G. Graziano
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- G72. **Relationship between cohesive energy density and hydrophobicity.**
G. Graziano
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- G73. **Comment on “Do Molecules as Small as Neopentane Induce a Hydrophobic Response Similar to That of Large Hydrophobic Surfaces?”**
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 J.Phys.Chem.B, 108 (2004) 9371-9372;
- G74. **Structural and dynamic effects of α -helix deletion in Sso7d: implications for protein thermal stability.**
 A.Merlino, G. Graziano, L.Mazzarella
 PROTEINS: Structure, Function, and Bioinformatics, 57 (2004) 692-701;
- G75. **Comment on “The hydrophobic effect” Phys.Chem.Chem.Phys. 2003, 5, 3085.**
G. Graziano
 Phys.Chem.Chem.Phys., 6 (2004) 4527-4528;

- G76. **Water: cavity size distribution and hydrogen bonds.**
G.Graziano
 Chem.Phys.Lett., 396 (2004) 226-231;
- G77. **Denaturant-induced unfolding of the Aes acetyl-esterase from *Escherichia coli*.**
 P.Del Vecchio, G.Graziano, V.Granata, T.Farias, G.Barone, L.Mandrich, M.Rossi,
 G.Manco
 Biochemistry, 43 (2004) 14637-14643;
- G78. **Solvation thermodynamics of water in nonpolar organic solvents indicate the occurrence of non-traditional hydrogen bonds.**
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 J.Phys.Chem.B, 109 (2005) 981-985;
- G79. **S-adenosylhomocysteine hydrolase from the archaeon *Pyrococcus furiosus*: biochemical characterization and analysis of protein structure by comparative molecular modeling.**
 M.Porcelli, M.A.Moretti, L.Concilio, S.Forte, A.Merlino, G.Graziano, G.Cacciapuoti
 PROTEINS: Structure, Function, and Bioinformatics, 58 (2005) 815-825;
- G80. **Comment on “Entropy/enthalpy compensation: hydrophobic effect, micelles and protein complexes”** Phys.Chem.Chem.Phys., 2004, 6, 4156.
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 Phys.Chem.Chem.Phys., 7 (2005) 1322-1323;
- G81. **On the intactness of hydrogen bonds around nonpolar solutes dissolved in water.**
G.Graziano, B.Lee
 J.Phys.Chem.B, 109 (2005) 8103-8107;
- G82. **On the thermal stability of the two dimeric forms of ribonuclease A.**
 E.Bucci, L.Vitagliano, R.Barone, S.Sorrentino, G.D’Alessio, G.Graziano
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- G83. **On the hydration heat capacity change of benzene.**
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 Biophys.Chem., 116 (2005) 137-144;
- G84. **Entropy convergence in the hydration thermodynamics of n-alcohols.**
G.Graziano
 J.Phys.Chem.B, 109 (2005) 12160-12166;
- G85. **On the heat capacity change of pairwise hydrophobic interactions.**
G.Graziano
 J.Chem.Phys., 123 (2005) 034509;
- G86. **Comment on “Free Energy of Transfer of a Solute and Its Relation to the Partition Constant”.**
G.Graziano
 J.Phys.Chem.B, 109 (2005) 17768-17769;

- G87. **Comment on “Hydrophobic effects on partial molar volume”** J.Chem.Phys. **122**, 094509 (2005).
G.Graziano
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- G88. **Chemical denaturation of the elongation factor 1 α isolated from the hyperthermophilic archaeon *Sulfolobus solfataricus*.**
V.Granata, G.Graziano, A.Ruggiero, G.Raimo, M.Masullo, P.Arcari,
L.Vitagliano, A.Zagari
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- G89. **Temperature-induced denaturation of Aes acetyl-esterase from *Escherichia coli*.**
P.Del Vecchio, G.Graziano, G.Barone, L.Mandrich, M.Rossi, G.Manco
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- G90. **Partial molar volume of n-alcohols at infinite dilution in water calculated by means of scaled particle theory.**
G.Graziano
J.Chem.Phys., 124 (2006) 134507;
- G91. **Scaled particle theory study of the lengthscale dependence of cavity thermodynamics in different liquids.**
G.Graziano
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- G92. **Comment on “Phenomenological similarities between protein denaturation and small molecule dissolution: insights into the mechanism driving the thermal resistance of globular proteins”** PROTEINS 54:323-332 (2004).
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PROTEINS: Structure, Function, and Bioinformatics, 64 (2006) 789-791;
- G93. **Comment on “Global thermodynamics of hydrophobic cavitation, dewetting, and hydration”** J.Chem.Phys. **123**, 184504 (2005).
G.Graziano
J.Chem.Phys., 125 (2006) 037101;
- G94. **Benzene solubility in water: a reassessment.**
G.Graziano
Chem.Phys.Lett., 429 (2006) 114-118;
- G95. **Non-intrinsic contribution to the partial molar volume of cavities in water.**
G.Graziano
Chem.Phys.Lett., 429 (2006) 420-424;
- G96. **Cavity contact correlation function of water from scaled particle theory.**
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- G97. **Cavity size distribution in the interior of globular proteins.**
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- G98. **Role of the N-terminal region for the conformational stability of esterase 2 from *Alicyclobacillus acidocaldarius*.**
 F.Foglia, L.Mandrich, M.Pezzullo, G.Graziano, G.Barone, M.Rossi, G.Manco, P.Del Vecchio
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- G99. **A purely geometric derivation of the scaled particle theory formula for the work of cavity creation in a liquid.**
G.Graziano
 Chem.Phys.Lett., 440 (2007) 221-223;
- G100. **Cavity thermodynamics and surface tension of water.**
G.Graziano
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- G101. **Cavity thermodynamics in the Gaussian model of particle density fluctuations.**
G.Graziano
 Chem.Phys.Lett., 446 (2007) 313-316;
- G102. **Solvation thermodynamics of methane and ethane in dimethyl sulfoxide and acetone versus water.**
G.Graziano
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- G103. **Conformational stability and DNA binding energetics of the rat thyroid transcription factor 1 homeodomain.**
 P.Del Vecchio, P.Carullo, G.Barone, B.Pagano, G.Graziano, A.Iannetti, R.Acquaviva, A.Leonardi, S.Formisano
 PROTEINS: Structure, Function, and Bioinformatics, 70 (2008) 748-760;
- G104. **On the cooperativity of the thermal denaturation of mini-proteins.**
 F.Catanzano, G.Graziano
 J.Thermal Analysis and Calorimetry, 91 (2008) 57-60;
- G105. **Domains in bovine seminal ribonuclease.**
 F.Catanzano, G.Graziano
 J.Thermal Analysis and Calorimetry, 91 (2008) 61-66;
- G106. **Water's surface tension and cavity thermodynamics.**
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- G107. **Hydrophobicity in modified water models.**
G.Graziano
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- G108. **Stability against temperature of *Sulfolobus solfataricus* elongation factor 1 α , a multi-domain protein.**
V.Granata, **G.Graziano**, A.Ruggiero, G.Raimo, M.Masullo, P.Arcari,
L.Vitagliano, A.Zagari
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- G109. **Hard sphere study of condensation entropy.**
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- G110. **Is there a relationship between protein thermal stability and the denaturation heat capacity change?**
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J.Thermal Analysis and Calorimetry, 93 (2008) 429-438;
- G111. **On the superhydrophobicity of tetrafluoromethane.**
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- G112. **Salting out of methane by sodium chloride: a scaled particle theory study.**
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J.Chem.Phys., 129 (2008) 084506;
- G113. **On the cold denaturation of globular proteins.**
E.Ascolese, **G.Graziano**
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- G206. **A Protein Data Bank survey of multimodal binding of thiocyanate to proteins: evidence for thiocyanate promiscuity.**
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- G208. **A quantum chemical study on the hydration energetics of trimethylamine N-oxide, its protonated form and tert-butanol.**
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- G211. **A structure-based mechanism for the denaturing action of urea, guanidinium ion and thiocyanate ion.**
A.Paladino, N.Balasco, L.Vitagliano, **G.Graziano**
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- G212. **The action of chemical denaturants: from globular to intrinsically disordered proteins.**
A.Paladino, L.Vitagliano, **G.Graziano**
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- G213. **Remarks on the hydration entropy of polar and nonpolar species.**
A.Bologna, **G.Graziano**
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- G214. **The relevance of cavity creation for several phenomena occurring in water.**
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 G.Izzi, A.Paladino, R.Oliva, G.Barra, A.Ruggiero, P.Del Vecchio, L.Vitagliano, G.Graziano
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- G221. **On the stabilizing effect of aspartate and glutamate and its counteraction by common denaturants.**
 G.Izzi, M.Campanile, P.Del Vecchio, G.Graziano
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- G222. **Is water the engine of protein folding?**
 M.Campanile, G.Graziano
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- G223. **Remarks on life feasibility on the Red Planet.**
 F.Mancini, G.Graziano
 Microorganisms, 13 (2025) 1105;
- G224. **On enthalpy-entropy compensation characterizing processes in aqueous solution.**
 F.Mancini, G.Graziano
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List of the lectures delivered in International Congresses in the last ten years

1. Invited lecture at the 8th International Conference on High Pressure Bioscience and Biotechnology, Nantes, July 15-18, 2014; title: A rationalization of the effect of hydrostatic pressure on the conformational stability of globular proteins.
2. Lecture at the Conference 40+ Years of Protein Structure Analysis, NCI, NIH, Bethesda, Maryland, November 7, 2014 (for the retirement of BK Lee); title: On the conformational stability of globular proteins.
3. Invited Plenary Lecture at the 34th International IUPAC Congress of Solution Chemistry, Prague, August 29 – September 3, 2015; title: Shedding light on the hydrophobicity puzzle.
4. Invited Stratingh Lecture at the Stratingh Institute, Department of Chemistry of the University of Groningen, September 15, 2015; title: A molecular mechanism for the hydrophobic effect.
5. Lecture at the 4th Workshop “Physics of biomolecules: structure, dynamics, and function”, held in Bressanone, February 3-6, 2016; title: Effect of sodium salts on the coil-to-globule transition of PNIPAM.
6. Invited lecture at the 9th International Conference on High Pressure Bioscience and Biotechnology, Toronto, July 25-29, 2016; title: Pressure effect on PNIPAM cononsolvency in water-methanol solutions.
7. Lecture at the XLIV Congress of the Italian Physical Chemistry Division, Naples, September 20-23, 2016; title: An explanation of the cononsolvency of PNIPAM in water-methanol solutions.
8. Invited lecture at the 4th Congress on Frontiers in Water Biophysics held in Erice, May 23-27, 2017; title: Conformational stability of globular proteins in water as a function of temperature.
9. Lecture at the XLVII Congress of the Italian Physical Chemistry Division, Rome, July 1-4, 2019; title: Counteraction of denaturant-induced protein unfolding is a general property of stabilizing agents.
10. Invited lecture at the 5th Congress on Frontiers in Water Biophysics held in Erice, July 21-26, 2019; title: PNIPAM cononsolvency in water-methanol solutions.
11. Invited lecture at the RESOLV Congress “Solvation Science meets High Pressure Bioscience”, held in Dortmund, September 30-October 3, 2019; title: Hydrostatic pressure effect on hydrophobic hydration and pairwise hydrophobic interaction of methane.
12. Lecture at the XLVIII Congress of the Italian Physical Chemistry Division, Genova, July 4-7, 2022; title: Why small proteins tend to have high denaturation temperatures.

13. Invited lecture at the 6th Congress on Frontiers in Water Biophysics held in Erice, May 19-24, 2023; title: Remarks on the hydration entropy of polar, nonpolar and charged species.
14. Key-note lecture at the XLIX Congress of the Italian Physical Chemistry Division, Turin, September 4-7, 2023; title: Hydrophobic hydration and pairwise hydrophobic interaction of Lennard-Jones and Mie particles in different water models.
15. Key-note lecture at the IV Water X International Congress, La Maddalena - Sardinia, May 25-30, 2024; title: Water's role in the temperature-induced collapse of smart polymers.
16. Lecture at the 50th Congress of the Italian Physical Chemistry Division, Pisa, June 29 – July 3, 2025; title: On the temperature-induced collapse of smart polymers in aqueous solutions.