

## Publications in Journals with IF

- 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  $\alpha$ -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  $\beta$ -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.Gambutì, 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  
 Protein Science, 6 (1997) 1682-1693;
- G25. **A reassessment of the molecular origin of cold denaturation.**  
G.Graziano, F.Catanzano, A.Riccio, G.Barone  
 Journal of Biochemistry (Tokyo), 122 (1997) 395-401;
- G26. **Thermodynamics of protein stability: a family of ribonucleases.**  
 G.Barone, F.Catanzano, P.Del Vecchio, C.Giancola, G.Graziano  
 Pure & Applied Chemistry, 69 (1997) 2307-2313;
- G27. **From ribonuclease A toward bovine seminal ribonuclease: a step by step thermodynamic analysis.**  
 F.Catanzano, G.Graziano, V.Cafaro, G.D'Alessio, A.Di Donato, G.Barone  
 Biochemistry, 36 (1997) 14403-14408;
- G28. **Thermodynamics of dissolving gaseous argon in different solvents.**  
G.Graziano  
 Can.J.Chem., 76 (1998) 437-444;
- G29. **DSC study of the thermodynamic stability of some mutants of Sso7d from *Sulfolobus solfataricus*.**  
 F.Catanzano, G.Graziano, P.Fusi, P.Tortora, G.Barone  
 Biochemistry, 37 (1998) 10493-10498;
- G30. **Guanidine-induced denaturation of  $\beta$ -glycosidase from *Sulfolobus solfataricus* expressed in *Escherichia coli*.**  
 F.Catanzano, G.Graziano, B.De Paola, G.Barone, S.D'Auria, M.Rossi, R.Nucci  
 Biochemistry, 37 (1998) 14484-14490;
- G31. **On the size dependence of hydrophobic hydration.**  
G.Graziano  
 J.Chem.Soc., Faraday Trans., 94 (1998) 3345-3352;

- G32. **Prediction of the heat capacity change on thermal denaturation of globular proteins.**  
G.Graziano, F.Catanzano, G.Barone  
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.**  
G.Graziano  
Phys.Chem.Chem.Phys., 1 (1999) 1877-1886;
- G35. **Hydration thermodynamics of aliphatic alcohols.**  
G.Graziano  
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 archaeobacterium *Sulfolobus solfataricus*.**  
G.Graziano, F.Catanzano, M.Nappa  
Int.J.Biol.Macromol., 26 (1999) 45-53;
- G38. **Hydrophobicity of benzene.**  
G.Graziano  
Biophys.Chem., 82 (1999) 69-79;
- G39. **On the pH dependence of thermodynamic stability of  $\alpha$ -amylase inhibitor tendamistat.**  
G.Graziano, F.Catanzano, G.Barone  
Thermochimica Acta, 345 (2000) 59-66;
- G40. **On the temperature-induced coil to globule transition of poly-N-isopropylacrylamide in dilute aqueous solutions.**  
G.Graziano  
Int.J.Biol.Macromol., 27 (2000) 89-97;
- G41. **Cavity thermodynamics and hydrophobicity.**  
G.Graziano  
J.Phys.Soc.Jpn., 69 (2000) 1566-1569;
- G42. **Onconase: an unusually stable protein.**  
E.Notomista, F.Catanzano, G.Graziano, F.Dal Piaz, G.Barone, G.D'Alessio, A.Di Donato  
Biochemistry, 39 (2000) 8711-8718;

- G43. **Solvation thermodynamics of cyclohexane.**  
G.Graziano  
Can.J.Chem., 78 (2000) 1233-1241;
- G44. **On the solvent isotope effect in hydrophobic hydration.**  
G.Graziano  
J.Phys.Chem.B, 104 (2000) 9249-9254;
- G45. **Enthalpic and entropic consequences of the removal of disulfide bridges in ribonuclease A.**  
G.Graziano, F.Catanzano, E.Notomista  
Thermochimica Acta, 364 (2000) 165-172;
- G46. **Hydration thermodynamics of N-methylacetamide.**  
G.Graziano  
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”**  
G.Graziano  
J.Phys.Chem.B, 105 (2001) 2079-2081;
- G49. **On the solubility of aliphatic hydrocarbons in 7 M aqueous urea.**  
G.Graziano  
J.Phys.Chem.B, 105 (2001) 2632-2637;
- 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.**  
G.Graziano, E.Notomista, F.Catanzano, G.Barone, A.Di Donato  
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.Mandrigh, 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”**  
**G.Graziano**  
J.Phys.Chem.B, 106 (2002) 7713-7716;
- G58. **Denaturing action of urea and guanidine hydrochloride towards two thermophilic esterases.**  
P.Del Vecchio, **G.Graziano**, V.Granata, G.Barone, L.Mandrigh, M.Rossi, G.Manco  
Biochem.J., 367 (2002) 857-863;
- G59. **Hydration entropy change from the hard sphere model.**  
**G.Graziano**, B.Lee  
Biophys.Chem., 101-102 (2002) 173-185; J.A. Schellman Festschrift
- 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.Mandrigh, 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  
Biophys.Chem., 105 (2003) 241-250; W. Kauzmann Festschrift

- 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).**  
G.Graziano  
J.Chem.Phys., 119 (2003) 10448-10449;
- G67. **Rate enhancement of Diels-Alder reactions in aqueous solutions.**  
G.Graziano  
J.Phys.Org.Chem., 17 (2004) 100-101;
- 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  
J.Chem.Phys., 120 (2004) 4467-4471;
- G70. **Aliphatics versus aromatics hydration thermodynamics.**  
G.Graziano  
Biophys.Chem., 110 (2004) 249-258;
- G71. **Guanidine-induced unfolding of the Sso7d protein from the hyperthermophilic archaeon *Sulfolobus solfataricus*.**  
V.Granata, P.Del Vecchio, G.Barone, E.Shehi, P.Fusi, P.Tortora, G.Graziano  
Int.J.Biol.Macromol., 34 (2004) 195-201;
- G72. **Relationship between cohesive energy density and hydrophobicity.**  
G.Graziano  
J.Chem.Phys., 121 (2004) 1878-1882;
- G73. **Comment on “Do Molecules as Small as Neopentane Induce a Hydrophobic Response Similar to That of Large Hydrophobic Surfaces?”**  
G.Graziano  
J.Phys.Chem.B, 108 (2004) 9371-9372;
- G74. **Structural and dynamic effects of  $\alpha$ -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.Mandrigh, 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.**  
G.Graziano  
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.  
G.Graziano  
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  
Biophys.Chem., 116 (2005) 89-95;
- G83. **On the hydration heat capacity change of benzene.**  
G.Graziano  
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  
*J.Chem.Phys.*, 123 (2005) 167103;
- G88. **Chemical denaturation of the elongation factor 1 $\alpha$  isolated from the hyperthermophilic archaeon *Sulfolobus solfataricus*.**  
V.Granata, G.Graziano, A.Ruggiero, G.Raimo, M.Masullo, P.Arcari,  
L.Vitagliano, A.Zagari  
*Biochemistry*, 45 (2006) 719-726;
- G89. **Temperature-induced denaturation of Aes acetyl-esterase from *Escherichia coli*.**  
P.Del Vecchio, G.Graziano, G.Barone, L.Mandrich, M.Rossi, G.Manco  
*Thermochimica Acta*, 441 (2006) 144-149;
- 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  
*J.Phys.Chem.B*, 110 (2006) 11421-11426;
- 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).**  
G.Graziano  
*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.**  
G.Graziano  
*Chem.Phys.Lett.*, 432 (2006) 84-87;

- G97. **Cavity size distribution in the interior of globular proteins.**  
G.Graziano  
Chem.Phys.Lett., 434 (2007) 316-319;
- G98. **Role of the N-terminal region for the conformational stability of esterase 2 from *Alicyclobacillus acidocaldarius*.**  
F.Foglia, L.Mandrigh, M.Pezzullo, G.Graziano, G.Barone, M.Rossi, G.Manco, P.Del Vecchio  
Biophys.Chem., 127 (2007) 113-122;
- 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  
Chem.Phys.Lett., 442 (2007) 307-310;
- 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  
Chem.Phys.Lett., 449 (2007) 120-125;
- 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.**  
G.Graziano  
J.Thermal Analysis and Calorimetry, 91 (2008) 73-77;
- G107. **Hydrophobicity in modified water models.**  
G.Graziano  
Chem.Phys.Lett., 452 (2008) 259-263;

- G108. **Stability against temperature of *Sulfolobus solfataricus* elongation factor 1 $\alpha$ , a multi-domain protein.**  
V.Granata, G.Graziano, A.Ruggiero, G.Raimo, M.Masullo, P.Arcari,  
L.Vitagliano, A.Zagari  
BBA-Proteins and Proteomics, 1784 (2008) 573-581;
- G109. **Hard sphere study of condensation entropy.**  
G.Graziano  
Chem.Phys.Lett., 459 (2008) 105-108;
- G110. **Is there a relationship between protein thermal stability and the denaturation heat capacity change?**  
G.Graziano  
J.Thermal Analysis and Calorimetry, 93 (2008) 429-438;
- G111. **On the superhydrophobicity of tetrafluoromethane.**  
G.Graziano  
Chem.Phys.Lett., 460 (2008) 470-473;
- G112. **Salting out of methane by sodium chloride: a scaled particle theory study.**  
G.Graziano  
J.Chem.Phys., 129 (2008) 084506;
- G113. **On the cold denaturation of globular proteins.**  
E.Ascolese, G.Graziano  
Chem.Phys.Lett., 467 (2008) 150-153;
- G114. **On the salting out of benzene by alkali chlorides.**  
G.Graziano  
J.Chem.Eng.Data, 54 (2009) 464-467;
- G115. **Structural determinants of the high thermal stability of *SsoPox* from the hyperthermophilic archaeon *Sulfolobus solfataricus*.**  
P.Del Vecchio, M.Elias, L.Merone, G.Graziano, J.Dupuy, L.Mandrigh, P.Carullo,  
B.Fournier, D.Rochu, M.Rossi, P.Masson, E.Chabriere, G.Manco  
Extremophiles, 13 (2009) 461-470;
- G116. **Dimerization thermodynamics of large hydrophobic plates: a scaled particle theory study.**  
G.Graziano  
J.Phys.Chem.B, 113 (2009) 11232-11239;
- G117. **Hydration entropy of polar, nonpolar and charged species.**  
G.Graziano  
Chem.Phys.Lett., 479 (2009) 56-59;
- G118. **Role of hydrophobic effect in the salt-induced dimerization of bovine  $\beta$ -lactoglobulin at pH 3.**  
G.Graziano  
Biopolymers, 91 (2009) 1182-1188;

- G119. **Conformational stability of esterase enzymes from different sources.**  
P.Del Vecchio, G.Graziano, G.Barone  
Protein Pept.Lett., 16 (2009) 1201-1206;
- G120. **Role of salts on the strength of pairwise hydrophobic interaction.**  
G.Graziano  
Chem.Phys.Lett., 483 (2009) 67-71;
- G121. **On the partitioning of benzene between water and n-alkanes.**  
G.Graziano  
Chem.Phys.Lett., 486 (2010) 44-47;
- G122. **Cold denaturation in the Schellman-Brandts model of globular proteins.**  
A.Riccio, E.Ascolese, G.Graziano  
Chem.Phys.Lett., 486 (2010) 65-69;
- G123. **Dimerisation and structural integrity of Heparin Binding Hemagglutinin A from *M. tuberculosis*: implications for bacterial agglutination.**  
C.Esposito, P.Carullo, E.Pedone, G.Graziano, P.Del Vecchio, R.Berisio  
FEBS Letters, 584 (2010) 1091-1096;
- G124. **A novel germline mutation in Peroxisome Proliferator-Activated Receptor gamma gene associated with large intestine polyp formation and dyslipidemia.**  
D.Capaccio, A.Ciccodicola, L.Sabatino, A.Casamassimi, M.Pancione, A.Fucci, A.Febbraro, A.Merlino, G.Graziano, V.Colantuoni  
BBA-Molecular Basis of Disease, 1802 (2010) 572-581;
- G125. **Hydrophobic interaction of two large plates: an analysis of salting-in/salting-out effects.**  
G.Graziano  
Chem.Phys.Lett., 491 (2010) 54-58;
- G126. **Comment on “The hydrophobic effect and its role in cold denaturation”**  
**Cryobiology 60 (2010) 91-99.**  
G.Graziano  
Cryobiology, 60 (2010) 354-355;
- G127. **Significance of the Tolman length at a molecular level.**  
G.Graziano  
Chem.Phys.Lett., 497 (2010) 33-36;
- G128. **On the pairwise hydrophobic interaction of fullerene.**  
G.Graziano  
Chem.Phys.Lett., 499 (2010) 79-82;
- G129. **On the molecular origin of cold denaturation of globular proteins.**  
G.Graziano  
Phys.Chem.Chem.Phys., 12 (2010) 14245-14252;

- G130. **Role of solvent accessible surface area in the conformational equilibrium of *n*-butane in liquids.**  
A.Riccio, G.Graziano  
Chem.Phys.Lett., 502 (2011) 180-183;
- G131. **Solvation and pairwise association in a 2D fluid.**  
G.Graziano  
J.Thermal Analysis and Calorimetry, 103 (2011) 1125-1130;
- G132. **On the salting in effect of tetra-alkylammonium bromides.**  
G.Graziano  
Chem.Phys.Lett., 505 (2011) 26-30;
- G133. **Cold unfolding of  $\beta$ -hairpins: a molecular-level rationalization.**  
A.Riccio, G.Graziano  
PROTEINS: Structure, Function, and Bioinformatics, 79 (2011) 1739-1746;
- G134. **Contrasting the denaturing effect of guanidinium chloride with the stabilizing effect of guanidinium sulfate.**  
G.Graziano  
Phys.Chem.Chem.Phys., 13 (2011) 12008-12014;
- G135. **On the solubility of long *n*-alkanes in water at room temperature.**  
G.Graziano  
Chem.Phys.Lett., 511 (2011) 262-265;
- G136. **How does trimethylamine *N*-oxide counteract the denaturing activity of urea?**  
G.Graziano  
Phys.Chem.Chem.Phys., 13 (2011) 17689-17695;
- G137. **Molecular dynamics study of the conformational stability of esterase 2 from *Alicyclobacillus acidocaldarius*.**  
B.Pagano, P.Del Vecchio, C.A.Mattia, G.Graziano  
Int.J.Biol.Macromol., 49 (2011) 1072-1077;
- G138. **How does sucrose stabilize the native state of globular proteins?**  
G.Graziano  
Int.J.Biol.Macromol., 50 (2012) 230-235;
- G139. **On the effect of low concentrations of alcohols on the conformational stability of globular proteins.**  
G.Graziano  
Phys.Chem.Chem.Phys., 14 (2012) 2769-2773;
- G140. **Exploring the unfolding mechanism of  $\gamma$ -glutamyltranspeptidases: the case of the thermophilic enzyme from *Geobacillus thermodenitrificans*.**  
A.Pica, I.Russo Krauss, I.Castellano, M.Rossi, F.La Cara, G.Graziano,  
F.Sica, A.Merlino  
BBA-Proteins and Proteomics, 1824 (2012) 571-577;

- G141. **Molecular driving forces of the pocket-ligand hydrophobic association.**  
G.Graziano  
Chem.Phys.Lett., 533 (2012) 95-99;
- G142. **On the effect of trimethylamine *N*-oxide on the conformational equilibrium of the chaperone Hsp90.**  
G.Graziano  
Chem.Phys.Lett., 546 (2012) 141-143;
- G143. **A rationale for the contrasting activity towards globular proteins of tert-butyl alcohol and trimethylamine *N*-oxide.**  
G.Graziano  
Phys.Chem.Chem.Phys., 14 (2012) 13088-13094;
- G144. **Effect of NaCl on the conformational stability of the thermophilic  $\gamma$ -glutamyl-transpeptidase from *Geobacillus thermodenitrificans*: implication for globular protein halotolerance.**  
A.Pica, I.Russo Krauss, I.Castellano, F.La Cara, G.Graziano, F.Sica, A.Merlino  
BBA-Proteins and Proteomics, 1834 (2013) 149-157;
- G145. **Reply to the Comment by Setny, Baron and McCammon on the article “Molecular driving forces of the pocket-ligand hydrophobic association”, Chem.Phys.Lett. 533 (2012) 95.**  
G.Graziano  
Chem.Phys.Lett., 555 (2013) 310-311;
- G146. **On the ability of trehalose to offset the denaturing activity of urea.**  
G.Graziano  
Chem.Phys.Lett., 556 (2013) 292-296;
- G147. **On the magnitude of border thickness in the partial molar volume of cavities in water.**  
G.Graziano  
Chem.Phys.Lett., 570 (2013) 46-49;
- G148. **On the signature of the hydrophobic effect at a single molecule level.**  
G.Graziano  
Phys.Chem.Chem.Phys., 15 (2013) 7389-7395;
- G149. **A view on the dogma of hydrophobic imperialism in protein folding.**  
G.Graziano  
J.Biomol.Struct.Dyn., 31 (2013) 1016-1019;
- G150. **A theoretical study on the spectral and electrochemical properties of ferrocene in different solvents.**  
G.Cattenacci, M.Aschi, G.Graziano, A.Amadei  
Inorg.Chim.Acta, 407 (2013) 82-90;

- G151. **Comment on “The application of the thermodynamic perturbation theory to study the hydrophobic hydration”** J.Chem.Phys. 139, 024101 (2013).  
G.Graziano  
J.Chem.Phys., 139 (2013) 127101;
- G152. **Thermal and chemical stability of two homologous POZ/BTB domains of KCTD proteins characterized by different oligomeric organization.**  
L.Pirone, C.Esposito, S.Correale, G.Graziano, S.Di Gaetano, L.Vitagliano, E.Pedone  
BioMed Res.Int., 2013, article ID 162674;
- G153. **Mechanism of 3D domain swapping in bovine seminal ribonuclease.**  
R.Spadaccini, C.Ercole, G.Graziano, R.Wechselberger, R.Boelens, D.Picone  
FEBS Journal, 281 (2014) 842-850;
- G154. **Why do tetrapropylammonium chloride and sulphate salts destabilize the native state of globular proteins?**  
G.Graziano  
The Scientific World Journal, 2014, article ID 870106;
- G155. **Comment on “Water’s Structure around Hydrophobic Solutes and the Iceberg Model”.**  
G.Graziano  
J.Phys.Chem.B, 118 (2014) 2598-2599;
- G156. **Hydrostatic pressure effect on hydrophobic hydration and pairwise hydrophobic interaction of methane.**  
G.Graziano  
J.Chem.Phys., 140 (2014) 094503;
- G157. **Molecular bases of protein halotolerance.**  
G.Graziano, A.Merlino  
BBA-Proteins and Proteomics, 1844 (2014) 850-858;
- G158. **An alternative explanation for the collapse of unfolded proteins in an aqueous mixture of urea and guanidinium chloride.**  
G.Graziano  
Chem.Phys.Lett., 612 (2014) 313-317;
- G159. **On the mechanism of cold denaturation.**  
G.Graziano  
Phys.Chem.Chem.Phys., 16 (2014) 21755-21767;
- G160. **Pairwise association of neopentane as a function of hydrostatic pressure.**  
G.Graziano  
Chem.Phys.Lett., 616-617 (2014) 44-48;
- G161. **On the effect of sodium chloride and sodium sulfate on cold denaturation.**  
A. Pica, G.Graziano  
Plos One, 10 (2015) e0133550;

- G162. **The Gibbs energy cost of cavity creation depends on geometry.**  
G.Graziano  
J.Mol.Liq., 211 (2015) 1047-1051;
- G163. **On the effect of hydrostatic pressure on the conformational stability of globular proteins.**  
G.Graziano  
Biopolymers, 103 (2015) 711-718;
- G164. **On the effect of sodium salts on the coil-to-globule transition of poly(*N*-isopropylacrylamide).**  
A.Pica, G.Graziano  
Phys.Chem.Chem.Phys., 17 (2015) 27750-27757;
- G165. **Temperature dependence of the pairwise association of hard spheres in water.**  
G.Graziano  
J.Phys.Soc.Jpn., 85 (2016) 024801;
- G166. **Shedding light on the hydrophobicity puzzle.**  
G.Graziano  
Pure & Applied Chemistry, 88 (2016) 177-188;
- G167. **Proline 235 plays a key role in the regulation of the oligomeric states of *Thermotoga maritima* arginine binding protein.**  
G.Smaldone, M.Vigorita, A.Ruggiero, N.Balasco, J.Dattelbaum, S.D'Auria, P.Del Vecchio, G.Graziano, L.Vitagliano  
BBA-Proteins and Proteomics, 1864 (2016) 814-824;
- G168. **On urea's ability to stabilize the globule state of poly(*N*-isopropylacrylamide).**  
A.Pica, G.Graziano  
Phys.Chem.Chem.Phys., 18 (2016) 14426-14433;
- G169. **Shedding light on the extra thermal stability of thermophilic proteins.**  
A.Pica, G.Graziano  
Biopolymers., 105 (2016) 856-863;
- G170. **An alternative explanation of the cononsolvency of poly(*N*-isopropylacrylamide) in water-methanol solutions.**  
A.Pica, G.Graziano  
Phys.Chem.Chem.Phys., 18 (2016) 25601-25608;
- G171. **A driving force for polypeptide and protein collapse.**  
A.Merlino, N. Pontillo, G.Graziano  
Phys.Chem.Chem.Phys., 19 (2017) 751-756;
- G172. **Probability of cavity formation in water and *corresponding* Lennard-Jones liquid.**  
G.Graziano  
J.Mol.Liq., 229 (2017) 358-361;



- G173. **Hydrostatic pressure effect on PNIPAM cononsolvency in water-methanol solutions.**  
A.Pica, G.Graziano  
Biophys.Chem., 2017, in press
- G174. **On the solubility of oxygen and xenon in *n*-hexane and *n*-perfluorohexane at room temperature.**  
G.Graziano  
J.Thermal Analysis and Calorimetry, 130 (2017) 497-501;
- G175. **Comment on “On the positional and orientational order of water and methanol around indole: a study on the microscopic origin of solubility”** *Phys.Chem.Chem. Phys.*, 2016, 18, 23006.  
G.Graziano  
Phys.Chem.Chem.Phys., 2017, accepted for publication
- G176. **Comment on “Relating side chain organization of PNIPAM with its conformation in aqueous methanol”** *Soft Matter*, 2016, 12, 7995.  
A.Pica, G.Graziano  
Soft Matter, 2017, accepted for publication
- G177. **Energetics of the *contact minimum* configuration of two hard spheres in water.**  
G.Graziano  
Chem.Phys.Lett., 685 (2017) 54-59;
- G178. **Why does TMAO stabilize the globule state of PNIPAM?**  
A.Pica, G.Graziano  
Polymer, 124 (2017) 101-106;

## Other Publications

- g1. **A phenomenological study on the combined effect of increasing concentrations of greenhouse gases on the global warming.**  
G.Barone, D.Fessas, G.Graziano  
in "Trends in Ecological Physical Chemistry" (1993) pag. 127-145  
D.Pitea et al. (eds.), Elsevier, The Netherlands
- g2. **Protein stability in non-aqueous media. A DSC study.**  
G.Barone, P.Del Vecchio, D.Fessas, C.Giancola, G.Graziano, A.Riccio  
in "Stability and Stabilization of Enzymes" (1993) pag. 37-44  
W.J.J.van den Tweel et al. (eds.), Elsevier, The Netherlands
- g3. **Denaturation of ribonucleases from different sources in the presence of denaturing or stabilizing agents.**  
G.Barone, P.Del Vecchio, D.Fessas, C.Giancola, G.Graziano, A.Riccio  
in "Stability and Stabilization of Enzymes" (1993) pag.189-196  
W.J.J.van den Tweel et al. (eds.), Elsevier, The Netherlands
- g4. **Thermal behaviour of three ribonucleases.**  
G.Barone, P.Del Vecchio, D.Fessas, C.Giancola, G.Graziano, A.Riccio  
in "Chemistry and Properties of Biomolecular Systems" (1994) pag. 49-65  
N.Russo et al. (eds.), Kluwer, The Netherlands
- g5. **Denaturation of biological macromolecules: new programs for the deconvolution of DSC measurements.**  
G.Barone, P.Del Vecchio, D.Fessas, C.Giancola, G.Graziano  
in "Chemistry and Properties of Biomolecular Systems" (1994) pag. 67-78  
N.Russo et al. (eds.), Kluwer, The Netherlands
- g6. **Rischio chimico urbano.**  
G.Barone, G.Graziano  
in "Rischi naturali ed impatto antropico nell'area metropolitana napoletana"  
(1994) pag. 279-293, Guida Editori, Napoli
- g7. **Effect of D-glucose on yeast hexokinase denaturation.**  
G.Barone, F.Catanzano, P.Del Vecchio, C.Giancola, G.Graziano  
Proceedings of XXVI J.C.A.T., Marsiglia (1995) pag. 162-167
- g8. **Stability of monodeamidated forms of ribonuclease A.**  
F.Catanzano, G.Graziano, S.Capasso, G.Barone  
in "Stability and Stabilization of Biocatalysts" (1998) pag. 189-196  
A.Ballesteros et al. (eds.), Elsevier, The Netherlands
- g9. **Thermodynamic stability of a monomeric derivative of bovine seminal ribonuclease.**  
G.Barone, F.Catanzano, G.Graziano, V.Cafaro, G.D'Alessio, A.Di Donato  
in "Stability and Stabilization of Biocatalysts" (1998) pag. 211-216  
A.Ballesteros et al. (eds.), Elsevier, The Netherlands

- g10. **Thermodynamic stability of ribonuclease P2 from *Sulfolobus solfataricus* and some mutants.**  
G.Graziano, F.Catanzano, P.Fusi, P.Tortora, G.Barone  
in “Stability and Stabilization of Biocatalysts” (1998) pag. 217-222  
A.Ballesteros et al. (eds.), Elsevier, The Netherlands
- g11. **Hydrophobic hydration: a basic molecular mechanism.**  
G.Graziano  
Recent Res.Devel.Physical Chem., 7 (2004) 151-164;
- g12. **Dinamica molecolare di proteine globulari.**  
A.Merlino, G.Graziano, L.Mazzarella  
in “Bioinformatica: sfide e prospettive” (2006) pag. 207-218  
M.Ceccarelli et al. (eds.), FrancoAngeli, Milano
- g13. **On the 3D structure of leptins from different organisms and of the leptin-leptin receptor complex.**  
E.Coccia, M.Ceccarelli, G.Graziano  
in “Leptin in Non-mammalian Vertebrates” (2010) pag. 173-192  
M.Paolucci (ed.), Transworld Research Network, Kerala, India