Giuseppe Pellicane

List of Publications by Year in Descending Order

63 papers	1,033 citations	20 h-index	30 g-index
68 ext. papers	1,116 ext. citations	3.3 avg, IF	4.35 L-index

#	Paper	IF	Citations
63	Noise-formed triple-well potential and stochastic resonance of charge carriers. *Pramana - Journal of Physics*, **2022**, 96, 1		0
62	A stochastic model for diffusion in a semiconductor layer under the effect of an external potential and non-uniform temperature. *Physica A: Statistical Mechanics and Its Applications*, **2022**, 596, 127197	3.3	
61	Toward the Rational Design of Organic Solar Photovoltaics: Application of Molecular Structure Methods to Donor Polymers.. *Journal of Physical Chemistry A*, **2021**, 125, 10593-10603	2.8	0
60	Construction of a composite-sphere model for molecules of tetrahedral symmetry. *Molecular Physics*, **2021**, 119, e1913254	1.7	0
59	Self-Assembled Structures of Colloidal Dimers and Disks on a Spherical Surface. *Entropy*, **2021**, 23,	2.8	4
58	Smart Nanostructured Materials: From Molecular Self-Assembly to Advanced Applications. *Journal of Nanomaterials*, **2021**, 2021, 1-2	3.2	1
57	Integral-equation theories of fluid phase equilibria in simple fluids. *Fluid Phase Equilibria*, **2020**, 521, 112665	2.5	2
56	Structure factors and x-ray diffraction intensities in molten alkali halides. *Journal of Physics Communications*, **2020**, 4, 075017	1.2	2
55	Tuning Solvent Quality Induces Morphological Phase Transitions in Miktoarm Star Polymer Films. *Macromolecules*, **2020**, 53, 6151-6162	5.5	2
54	Adsorption of binary polymer mixtures with different topology on a wall. *Results in Physics*, **2019**, 12, 975-981	3.7	
53	On the structure, property, and phase behaviour of the symmetric Yukawa mixtures: testing of the consistent integral equation theories. *Molecular Physics*, **2019**, 117, 784-793	1.7	2
52	ZnO:CNT assisted charge transport in PTB7:PCBM blend organic solar cell. *Journal of Alloys and Compounds*, **2018**, 748, 216-222	5.7	42
51	Molecular dynamics determination of liquid-vapor coexistence in molten alkali halides. *Physical Review E*, **2018**, 98, 010103	2.4	5
50	Zinc oxide doped single wall carbon nanotubes in hole transport buffer layer. *Journal of Alloys and Compounds*, **2017**, 706, 344-350	5.7	44
49	Unravelling the surface composition of symmetric linear-cyclic polymer blends. *Fluid Phase Equilibria*, **2017**, 441, 33-42	2.5	2
48	Virial coefficients, equation of state, and demixing of binary asymmetric nonadditive hard-disk mixtures. *Journal of Chemical Physics*, **2017**, 147, 164502	3.9	4
47	Two-dimensional mixture of amphiphilic dimers and spheres: Self-assembly behaviour. *Journal of Chemical Physics*, **2017**, 147, 144902	3.9	9

46	Theory and computer simulation of hard-core Yukawa mixtures: thermodynamical, structural and phase coexistence properties. *Journal of Physics Condensed Matter*, **2017**, 29, 365102	1.8	2
45	Nano-scale morphology dependent performance of thin film organic solar cells. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 214-221	2.1	0
44	Surface enrichment driven by polymer topology. *Physical Review E*, **2016**, 93, 050501	2.4	7
43	Towards composite spheres as building blocks for structured molecules. *Journal of Physics Condensed Matter*, **2016**, 28, 414008	1.8	1
42	A thermodynamic self-consistent theory of asymmetric hard-core Yukawa mixtures. *Journal of Physics Condensed Matter*, **2016**, 28, 414009	1.8	5
41	Tuning range-separated DFT functionals for accurate orbital energy modeling of conjugated molecules. *Computational and Theoretical Chemistry*, **2015**, 1070, 14-20	2	9
40	Thermodynamics of a stochastic three level elevator model. *European Physical Journal B*, **2015**, 88, 1	1.2	
39	Adsorption of Yukawa fluids on a hard wall. *Molecular Physics*, **2015**, 113, 1097-1107	1.7	4
38	Effective interactions in molecular dynamics simulations of lysozyme solutions. *European Physical Journal B*, **2014**, 87, 1	1.2	3
37	Theoretical and computer simulation study of phase coexistence of nonadditive hard-disk mixtures. *Journal of Chemical Physics*, **2014**, 141, 214508	3.9	6
36	Gibbs ensemble Monte Carlo of nonadditive hard-sphere mixtures. *Journal of Chemical Physics*, **2014**, 141, 044508	3.9	15
35	Effective protein-protein interaction from structure factor data of a lysozyme solution. *Journal of Chemical Physics*, **2013**, 139, 054904	3.9	2
34	Fluids in porous media: the case of neutral walls. *Physical Review E*, **2013**, 88, 042131	2.4	7
33	Theoretical study of interactions of BSA protein in a NaCl aqueous solution. *Journal of Chemical Physics*, **2013**, 138, 115103	3.9	24
32	A potential distribution induced mapping of free energies for simple fluids. *Physica A: Statistical Mechanics and Its Applications*, **2012**, 391, 1942-1951	3.3	1
31	Colloidal model of lysozyme aqueous solutions: a computer simulation and theoretical study. *Journal of Physical Chemistry B*, **2012**, 116, 2114-20	3.4	27
30	Effective interactions in lysozyme aqueous solutions: a small-angle neutron scattering and computer simulation study. *Journal of Chemical Physics*, **2012**, 136, 035103	3.9	29
29	Molecular dynamics and small-angle neutron scattering of lysozyme aqueous solutions. *Philosophical Magazine*, **2011**, 91, 2066-2076	1.6	16

28	Adsorption of hard spheres: structure and effective density according to the potential distribution theorem. *Condensed Matter Physics*, **2011**, 14, 33601	1.3	2
27	Molecular dynamics of an embedded-charge model of lysozyme aqueous solutions. *Journal of Physical Chemistry B*, **2010**, 114, 9109-18	3.4	14
26	A star-function based density functional study of the adsorption of Lennard-Jones fluid near its supercritical states. *Journal of Supercritical Fluids*, **2010**, 55, 524-536	4.2	4
25	Colloid-polymer mixtures in the presence of quenched disorder: a theoretical and computer simulation study. *Journal of Physics Condensed Matter*, **2008**, 20, 115101	1.8	11
24	Molecular dynamics characterization of protein crystal contacts in aqueous solutions. *Physical Review Letters*, **2008**, 101, 248102	7.4	38
23	Critical behavior of symmetrical fluid mixtures in random pores. *Physical Review Letters*, **2008**, 101, 246101	7.4	15
22	Phase separation of model adsorbates in random matrices. *Physical Chemistry Chemical Physics*, **2007**, 9, 1064-9	3.6	2
21	Virial coefficients and demixing of athermal nonadditive mixtures. *Journal of Physical Chemistry B*, **2007**, 111, 4503-9	3.4	13
20	Thermodynamic stability of fluid-fluid phase separation in binary athermal mixtures: the role of nonadditivity. *Journal of Physical Chemistry B*, **2006**, 110, 4359-64	3.4	11
19	Replica Ornstein-Zernike self-consistent theory for mixtures in random pores. *Physical Review E*, **2004**, 69, 061202	2.4	23
18	Stripe patterns in two-dimensional systems with core-corona molecular architecture. *Physical Review E*, **2004**, 70, 021202	2.4	73
17	Theory and simulation of short-range models of globular protein solutions. *Journal of Physics Condensed Matter*, **2004**, 16, S4923-S4936	1.8	36
16	Polymorphism in simple liquids: a Gibbs ensemble Monte Carlo study. *Journal of Chemical Physics*, **2004**, 120, 8671-5	3.9	8
15	Microscopic Determination of the Phase Diagrams of Lysozyme and Crystallin Solutions. *Journal of Physical Chemistry B*, **2004**, 108, 7538-7541	3.4	35
14	Atomistic versus two-body central potential models of C(60): a comparative molecular dynamics study. *Physical Review E*, **2004**, 69, 031112	2.4	23
13	Phase coexistence in a DLVO model of globular protein solutions. *Journal of Physics Condensed Matter*, **2003**, 15, 375-384	1.8	38
12	Cloud and solubility temperatures versus ionic strength in model lysozyme solutions. *Journal of Physics Condensed Matter*, **2003**, 15, S3485-S3489	1.8	5
11	Stripe phases from isotropic repulsive interactions. *Nature Materials*, **2003**, 2, 97-100	27	187

10	Free energy determination of phase coexistence in model C60: A comprehensive Monte Carlo study. *Journal of Chemical Physics*, **2003**, 118, 304-310	3.9	33
9	Theoretical description of phase coexistence in model C60. *Physical Review E*, **2003**, 68, 021104	2.4	21
8	Microscopic theories of model macromolecular fluids and fullerenes: The role of thermodynamic consistency. *Journal of Chemical Physics*, **2002**, 117, 5072-5085	3.9	26
7	Liquid-liquid phase transition in one-component fluids. *Journal of Physics Condensed Matter*, **2002**, 14, 2193-2200	1.8	43
6	Simple fluids with complex phase behavior. *Physical Review E*, **2001**, 63, 020501	2.4	26
5	Phase diagram of model C n ? 70 fullerenes. *Europhysics Letters*, **2001**, 54, 468-474	1.6	27
4	Generalized mean-spherical-approximation description of highly asymmetric hard-sphere mixtures. *Journal of Physics Condensed Matter*, **2000**, 12, 2613-2622	1.8	9
3	On the application of Flory□Huggins and integral equation theories to asymmetric hard sphere mixtures. *Journal of Chemical Physics*, **1999**, 111, 6884-6889	3.9	9
2	A comprehensive study of the phase diagram of symmetrical hard-core Yukawa mixtures. *Journal of Chemical Physics*, **1998**, 109, 4498-4507	3.9	24
1	Theory and equation of state of two-component nonadditive hard-disks: an application in the colloidal regime. *Physics and Chemistry of Liquids*,1-22	1.5	