

Stjepan Marcelja

List of Publications by Year in descending order

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64
papers

5,692
citations

117625

34
h-index

110387

64
g-index

64
all docs

64
docs citations

64
times ranked

2960
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase separation of binary mixtures induced by soft centrifugal fields. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8261-8272.	2.8	9
2	Spontaneous Ouzo Emulsions Coexist with Pre-Ouzo Ultraflexible Microemulsions. <i>Langmuir</i> , 2021, 37, 3817-3827.	3.5	22
3	Molecular Forces in Liquid-Liquid Extraction. <i>Langmuir</i> , 2021, 37, 10637-10656.	3.5	27
4	Entropy of level-cut random Gaussian structures at different volume fractions. <i>Physical Review E</i> , 2017, 96, 042147.	2.1	9
5	How to explain microemulsions formed by solvent mixtures without conventional surfactants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4260-4265.	7.1	160
6	Hydration forces near charged interfaces in terms of effective ion potentials. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 579-583.	7.4	22
7	The timescale and extent of thermal expansion of the global ocean due to climate change. <i>Ocean Science</i> , 2010, 6, 179-184.	3.4	10
8	Selective Coalescence of Bubbles in Simple Electrolytes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13062-13067.	2.6	68
9	Short-range forces in surface and bubble interaction. <i>Current Opinion in Colloid and Interface Science</i> , 2004, 9, 165-167.	7.4	35
10	Evaluation of effective ion-ion potentials in aqueous electrolytes. <i>Physical Review E</i> , 2002, 65, 041202.	2.1	45
11	Potential of Mean Force Computations of Ions Approaching a Surface. <i>Langmuir</i> , 2001, 17, 7929-7934.	3.5	26
12	Gaussian random fields with two level-cuts: Model for asymmetric microemulsions with nonzero spontaneous curvature?. <i>Journal of Chemical Physics</i> , 2001, 115, 3923-3936.	3.0	37
13	McMillan-Mayer theory for solvent effects in inhomogeneous systems: Calculation of interaction pressure in aqueous electrical double layers. <i>Journal of Chemical Physics</i> , 2001, 114, 9565-9577.	3.0	29
14	Exact Description of Aqueous Electrical Double Layers. <i>Langmuir</i> , 2000, 16, 6081-6083.	3.5	28
15	Toward a Realistic Theory of the Interaction of Membrane Inclusions. <i>Biophysical Journal</i> , 1999, 76, 593-594.	0.5	15
16	Information content of signals using correlation function expansions of the entropy. <i>Physical Review E</i> , 1997, 56, 4052-4067.	2.1	20
17	Application of Double-Layer Theories to the Extensive Crystalline Swelling of Li-Montmorillonite. <i>Langmuir</i> , 1997, 13, 6241-6248.	3.5	52
18	Hydration in electrical double layers. <i>Nature</i> , 1997, 385, 689-690.	27.8	68

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19	Effective surface charge for symmetric electrolytes in the primitive model double layer. <i>Electrochimica Acta</i> , 1996, 41, 2115-2124.	5.2	62
20	Entropy of phase-separated structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 231, 168-177.	2.6	8
21	Monte Carlo Simulation of Curvature-Elastic Interfaces. <i>Langmuir</i> , 1994, 10, 345-350.	3.5	25
22	Variational theory of undulating multilayer systems. <i>Journal De Physique II</i> , 1994, 4, 763-772.	0.9	6
23	Charge reversal seen in electrical double layer interaction of surfaces immersed in 2:1 calcium electrolyte. <i>Journal of Chemical Physics</i> , 1993, 99, 6098-6113.	3.0	186
24	Double layer interactions in mono- and divalent electrolytes: A comparison of the anisotropic HNC theory and Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 1992, 97, 1424-1431.	3.0	194
25	Electrostatics of membrane adhesion. <i>Biophysical Journal</i> , 1992, 61, 1117-1121.	0.5	61
26	Salt penetration into electrical double layers. <i>Langmuir</i> , 1992, 8, 2778-2780.	3.5	7
27	Statistical mechanics of random bicontinuous phases. <i>Journal De Physique II</i> , 1992, 2, 235-247.	0.9	31
28	Conformation of surface bound polyelectrolytes. 2. A Monte Carlo study of medium-length lattice chains. <i>Macromolecules</i> , 1990, 23, 4760-4768.	4.8	32
29	Electrostatics of phosphoinositide bilayer membranes. Theoretical and experimental results. <i>Biophysical Journal</i> , 1990, 57, 335-349.	0.5	91
30	A theoretical and experimental study of forces between charged mica surfaces in aqueous CaCl ₂ solutions. <i>Journal of Chemical Physics</i> , 1990, 92, 4399-4407.	3.0	183
31	Attractive double-layer interactions between calcium clay particles. <i>Journal of Colloid and Interface Science</i> , 1988, 126, 194-211.	9.4	161
32	Inhomogeneous Coulomb fluids with image interactions between planar surfaces. III. Distribution functions. <i>Journal of Chemical Physics</i> , 1988, 88, 7138-7146.	3.0	68
33	Surface interactions in simple electrolytes. <i>Journal De Physique</i> , 1988, 49, 1009-1015.	1.8	52
34	Electrolyte solutions between uncharged walls. <i>Chemical Physics Letters</i> , 1987, 142, 485-491.	2.6	40
35	Double-layer interaction in the primitive model and the corresponding Poisson-Boltzmann description. <i>The Journal of Physical Chemistry</i> , 1986, 90, 1230-1232.	2.9	145
36	Interaction of charged surfaces in electrolyte solutions. <i>Chemical Physics Letters</i> , 1986, 127, 402-407.	2.6	127

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37	Perturbation of hydrogen bonding in water near polar surfaces. <i>Chemical Physics Letters</i> , 1985, 120, 393-396.	2.6	92
38	Inhomogeneous Coulomb fluids with image interactions between planar surfaces. I. <i>Journal of Chemical Physics</i> , 1985, 82, 2122-2135.	3.0	236
39	Correlation and image charge effects in electric double layers. <i>Chemical Physics Letters</i> , 1984, 112, 49-53.	2.6	320
40	Spatially varying polarization in water. A model for the electric double layer and the hydration force. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1983, 79, 225-242.	1.1	152
41	Spatially varying polarization in ice. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1983, 79, 211-223.	1.1	41
42	Theory of polarization profiles and the "hydration force". <i>Advances in Colloid and Interface Science</i> , 1982, 16, 79-80.	14.7	3
43	Theory of spatial position and spatial frequency relations in the receptive fields of simple cells in the visual cortex. <i>Biological Cybernetics</i> , 1982, 43, 187-198.	1.3	176
44	Theory of polarization profiles and the "hydration force". <i>Chemical Physics Letters</i> , 1981, 82, 315-320.	2.6	43
45	Electrical coupling of photoreceptors in retinal network models. <i>Biological Cybernetics</i> , 1980, 39, 15-20.	1.3	1
46	Physical principles of membrane organization. <i>Quarterly Reviews of Biophysics</i> , 1980, 13, 121-200.	5.7	1,322
47	Initial processing of visual information within the retina and the LGN. <i>Biological Cybernetics</i> , 1979, 32, 217-226.	1.3	5
48	Optimal lateral interactions in a compound eye. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1979, 132, 159-166.	1.6	5
49	Solvent contribution to the debye screening length. <i>Chemical Physics Letters</i> , 1978, 55, 377-379.	2.6	13
50	Onsager transition in hard plate fluid. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1977, 73, 84-88.	1.1	34
51	Role of solvent structure in solution theory. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1977, 73, 630-648.	1.1	99
52	Phase transition in charged lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1977, 469, 335-344.	2.6	54
53	Repulsion of interfaces due to boundary water. <i>Chemical Physics Letters</i> , 1976, 42, 129-130.	2.6	561
54	Phase transitions in aqueous suspensions of spherical colloid particles. <i>Chemical Physics Letters</i> , 1976, 43, 353-357.	2.6	39

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55	Nematic-smectic a transition entropies in a homologous series. Physics Letters, Section A: General, Atomic and Solid State Physics, 1973, 43, 273-274.	2.1	13
56	End-chain ordering in nematic liquid crystals. Solid State Communications, 1973, 13, 759-762.	1.9	39
57	Molecular Model for Phase Transition in Biological Membranes. Nature, 1973, 241, 451-453.	27.8	43
58	Exact solution for the superconducting transition in one dimension. Physics Letters, Section A: General, Atomic and Solid State Physics, 1971, 35, 335-336.	2.1	4
59	Electronic Properties of the Superconductor in the Transition Region. Physical Review B, 1970, 1, 2351-2353.	3.2	16
60	Effect of Spin-Lattice Coupling on the Critical Resistivity of a Ferromagnet. Physical Review Letters, 1970, 25, 1204-1207.	7.8	29
61	Electrical Conductivity of a Two-Dimensional Superconductor. Physical Review Letters, 1969, 22, 124-127.	7.8	34
62	Electrical Conductivity of a Superconductor. Physical Review, 1969, 188, 745-754.	2.7	101
63	Superconducting order parameter in the transition region. Physics Letters, Section A: General, Atomic and Solid State Physics, 1968, 28, 180-181.	2.1	41
64	Degradation of Long-Range Order in "One-Dimensional" Superconductors. Physical Review Letters, 1967, 19, 1328-1333.	7.8	15