Peter A Djondjorov

List of Publications by Year
in descending order

34	286	1170033	1051228
papers	citations	9 h-index	16 g-index

37	37	37	198
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the behavior of the Casimir force in an exactly solvable model of a liquid film with an ordering field: The case of Dirichlet boundary conditions. AIP Conference Proceedings, 2021, , .	0.3	1
2	Behavior of the van der Waals force between a plate and a single-walled carbon nanotube under uniform hydrostatic pressure: a theoretical study. Journal of Physics Condensed Matter, 2020, 32, 405001.	0.7	1
3	Analytic solutions for the temperature-field behaviour of the Ginzburg-Landau Ising type mean-field model with Dirichlet boundary conditions. AIP Conference Proceedings, 2019, , .	0.3	1
4	Analytic representation of the order parameter profiles and susceptibility of a Ginzburg-Landau type model with strongly adsorbing competing walls. AIP Conference Proceedings, 2019, , .	0.3	0
5	Exact solution for the order parameter profiles and the Casimir force in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e634" altimg="si31.gif"><mml:msup><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msup></mml:math>He superfluid films in an effective field theory. Physica A: Statistical Mechanics and its Applications, 2019, 522, 324-330.	1.2	2
6	Analysis of the susceptibility in a fluid system with Neumann â€“ plus boundary conditions. MATEC Web of Conferences, 2018, 145, 01001.	0.1	1
7	Order parameter profiles in a system with Neumann â€“ Neumann boundary conditions. MATEC Web of Conferences, 2018, 145, 01009.	0.1	3
8	Analytical results for the Casimir force in a Ginzburgâ€“Landau type model of a film with strongly adsorbing competing walls. Physica A: Statistical Mechanics and Its Applications, 2018, 510, 302-315.	1.2	5
9	Exact results for the Casimir force in a model with Neumann-infinity boundary conditions. AIP Conference Proceedings, 2017, , .	0.3	1
10	Van der Waals interactions between planar substrate and tubular lipid membranes undergoing pearling instability. AIP Conference Proceedings, 2017, , .	0.3	1
11	Analytic solutions to a family of boundary-value problems for Ginsburg-Landau type equations. AIP Conference Proceedings, 2017, , .	0.3	2
12	Exact results for the behavior of the thermodynamic Casimir force in a model with a strong adsorption. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 093209.	0.9	10
13	Exact results for the temperature-field behavior of the Ginzburgâ€“Landau Ising type mean-field model. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P08025.	0.9	14
14	Comment on â€œShape transition of unstrained flattest single-walled carbon nanotubes under pressureâ€• [J. Appl. Phys. 115, 044512 (2014)]. Journal of Applied Physics, 2015, 117, .	1.1	5
15	Explicit parametrizations of Willmore surfaces. , 2014, , .		5
16	Lie Group Analysis of the Willmore and Membrane Shape Equations. Lecture Notes in Applied and Computational Mechanics, 2014, , 365-376.	2.0	1
17	Traveling wave solutions of the one-dimensional Boussinesq paradigm equation. , 2013, , .		0
18	Equilibrium Configurations of Lipid Bilayer Membranes and Carbon Nanostructures. Communications in Theoretical Physics, 2013, 59, 213-228.	1.1	10

#	Article	IF	Citations
19	Deformation of injected vesicles adhering onto flat rigid substrates. Computers and Mathematics With Applications, 2012, 64, 214-220.	1.4	2
20	On Some Deformations of the Cassinian Oval. AIP Conference Proceedings, 2011, , .	0.3	5
21	Analytic Description of the Equilibrium Shapes of Elastic Rings Under Uniform Hydrostatic Pressure. , 2011, , .		2
22	Analytic description and explicit parametrisation of the equilibrium shapes of elastic rings and tubes under uniform hydrostatic pressure. International Journal of Mechanical Sciences, 2011, 53, 355-364.	3.6	44
23	Cell Membranes Under Hydrostatic Pressure Subjected to Micro-Injection. , 2011, , .		1
24	Traveling Wave Solutions of the Gardner Equation and Motion of Plane Curves Governed by the mKdV Flow. AIP Conference Proceedings, 2011, , .	0.3	9
25	On the Plane Curves whose Curvature Depends on the Distance from the Origin. , 2010, , .		5
26	Some Explicit Solutions of the Shape Equation. , 2010, , .		1
27	On the Whewell Parametrization of the Euler Elastica. , 2009, , .		0
28	On the dynamic stability of a cantilever under tangential follower force according to Timoshenko beam theory. Journal of Sound and Vibration, 2008, 311, 1431-1437.	2.1	19
29	On The intrinsic equation behind the Delaunay surfaces. , 2008, , .		4
30	Cylindrical equilibrium shapes of fluid membranes. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 435201.	0.7	56
31	Dynamic stability of viscoelastic pipes on elastic foundations of variable modulus. Journal of Sound and Vibration, 2006, 297, 414-419.	2.1	25
32	Application of Lie transformation group methods to classical linear theories of rods and plates. International Journal of Solids and Structures, 2003, 40, 1585-1614.	1.3	7
33	Conservation laws and group-invariant solutions of the von KÃ¡rmÃ¡n equations. International Journal of Non-Linear Mechanics, 1996, 31, 73-87.	1.4	7
34	Invariant properties of Timoshenko beam equations. International Journal of Engineering Science, 1995, 33, 2103-2114.	2.7	9