Ivalo M Mladenov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66
papers

341
papers

66
papers

382
ext. papers

382
ext. citations

119
avg, IF

16
g-index

3.4
L-index

#	Paper	IF	Citations
66	Classical motions of infinitesimal rotators on Mylar balloons. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 9874-9887	2.3	O
65	Mechanics of infinitesimal gyroscopes on Mylar balloons and their action-angle analysis. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 3040-3051	2.3	2
64	Mechanics of Infinitesimal Test Bodies on Delaunay Surfaces: Spheres and Cylinders as Limits of Unduloids and Their Action-Angle Analysis. <i>Journal of Geometry and Symmetry in Physics</i> , 2019 , 53, 55-8	4 ^{1.6}	3
63	From the Kinematics of Precession Motion to Generalized Rabi Cycles. <i>Advances in Mathematical Physics</i> , 2018 , 2018, 1-10	1.1	3
62	Factorizations in Special Relativity and Quantum Scattering on the Line. <i>Studies in Computational Intelligence</i> , 2017 , 1-14	0.8	
61	Biological Membranes. Forum for Interdisciplinary Mathematics, 2017, 69-82	0.2	
60	Equations of Equilibrium States of Membranes. Forum for Interdisciplinary Mathematics, 2017, 151-166	0.2	
59	Surface Tension and Equilibrium. Forum for Interdisciplinary Mathematics, 2017, 83-149	0.2	
58	Exact Solutions and Applications. Forum for Interdisciplinary Mathematics, 2017, 167-199	0.2	
57	Planar Curves Whose Curvature Depends Only on the Distance From a Fixed Point. <i>Forum for Interdisciplinary Mathematics</i> , 2017 , 47-68	0.2	
56	On the geometry of the rotating liquid drop. <i>Mathematics and Computers in Simulation</i> , 2016 , 127, 194-	2923	
55	Factorizations in special relativity and quantum scattering on the line II 2016,		3
54	Elastic Sturmian spirals in the Lorentz-Minkowski plane. <i>Open Mathematics</i> , 2016 , 14, 1149-1156	0.8	2
53	Membrane fusion based on the geometry of the stalk model. <i>Mechanics Research Communications</i> , 2015 , 63, 54-60	2.2	1
52	Wigner rotation and Thomas precession: geometric phases and related physical theories. <i>Journal of the Korean Physical Society</i> , 2015 , 66, 1656-1663	0.6	6
51	Comment on Bhape transition of unstrained flattest single-walled carbon nanotubes under pressure[[J. Appl. Phys. 115, 044512 (2014)]. <i>Journal of Applied Physics</i> , 2015 , 117, 196101	2.5	4
50	On the necessary and sufficient condition for the decomposition of orthogonal transformations 2015 ,		1

49	On the compositions of rotations 2015 ,		2
48	Sturmian Spirals in Lorentz-Minkowski Plane 2015 ,		2
47	Covariant Decomposition of the Three-Dimensional Rotations. <i>Lecture Notes in Computer Science</i> , 2014 , 504-511	0.9	
46	Two-axes decompositions of (pseudo-)rotations and some of their applications 2014,		1
45	Explicit parametrizations of Willmore surfaces 2014,		3
44	Elastic spirals 2014 ,		2
43	Generalized Euler decompositions of some six-dimensional Lie groups 2014,		4
42	New forms of the equations of the attitude kinematics. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 87-88	0.2	
41	Lie Group Analysis of the Willmore and Membrane Shape Equations. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2014 , 365-376	0.3	
40	Symmetries and Some Special Solutions of the Helfrich Model. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2014 , 353-364	0.3	
39	Some new results on three-dimensional rotations and pseudo-rotations 2013,		2
38	New perspective on the gimbal lock problem 2013,		7
37	Equilibrium Configurations of Lipid Bilayer Membranes and Carbon Nanostructures. <i>Communications in Theoretical Physics</i> , 2013 , 59, 213-228	2.4	9
36	Serret Curves, their Generalization and Explicit Parametrizations 2013 , 383-390		1
35	Unduloid-like Equilibrium Shapes of Carbon Nanotubes Subjected to Hydrostatic Pressure 2013 , 195-20	02	
34	An approach for decomposition of finite rotations. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2012 , 12, 45-46	0.2	
33	Deformation of injected vesicles adhering onto flat rigid substrates. <i>Computers and Mathematics With Applications</i> , 2012 , 64, 214-220	2.7	2
32	About parametric representations of SO(n) matrices and plane rotations 2012,		1

31	Vector decomposition of finite rotations. Reports on Mathematical Physics, 2011, 68, 107-117	0.8	12
30	On Some Deformations of the Cassinian Oval 2011 ,		4
29	Analytic Description of the Equilibrium Shapes of Elastic Rings Under Uniform Hydrostatic Pressure 2011 ,		2
28	Analytic description and explicit parametrisation of the equilibrium shapes of elastic rings and tubes under uniform hydrostatic pressure. <i>International Journal of Mechanical Sciences</i> , 2011 , 53, 355-2	36 4 ·5	37
27	Traveling Wave Solutions of the Gardner Equation and Motion of Plane Curves Governed by the mKdV Flow 2011 ,		7
26	On the Plane Curves whose Curvature Depends on the Distance from the Origin 2010 ,		4
25	Instability of protein drops via applied electric field: mathematical and experimental aspects. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1161, 246-55	6.5	
24	Cylindrical equilibrium shapes of fluid membranes. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 435201	2	42
23	An approach to reduction of the real symmetric 3 B secular problem and applications. <i>Physics of Atomic Nuclei</i> , 2005 , 68, 1916-1921	0.4	
22	New Geometrical Applications of the Elliptic Integrals: The Mylar Balloon. <i>Journal of Nonlinear Mathematical Physics</i> , 2004 , 11, 55	0.9	8
21	The Mylar Balloon Revisited. American Mathematical Monthly, 2003, 110, 761	0.3	9
20	The Mylar Balloon Revisited. American Mathematical Monthly, 2003, 110, 761-784	0.3	22
19	Quantization on curved surfaces. International Journal of Quantum Chemistry, 2002, 89, 248-254	2.1	2
18	New solutions of the shape equation. <i>European Physical Journal B</i> , 2002 , 29, 327-330	1.2	12
17	Reduction in stages and complete quantization of the MIC-Kepler problem. <i>Journal of Physics A</i> , 1999 , 32, 3779-3791		10
16	Saxon-Hutner theorem via matrix exponential. <i>Europhysics Letters</i> , 1997 , 37, 159-164	1.6	1
15	The matrizant and Saxon - Hutner theorem. <i>Journal of Physics A</i> , 1997 , 30, 1689-1694		
14	Geometry of the Saxon-Hutner theorem. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997 , 230, 245-252	2.3	1

13	Kirkwood's formula revisited. <i>Europhysics Letters</i> , 1996 , 33, 577-582	1.6	
12	On the Spectrum of the Geodesic Flow on Spheres 1994 , 87-92		
11	On Debye-Hilkel's Theory. <i>Europhysics Letters</i> , 1993 , 24, 693-698	1.6	1
10	Quantization of the moment map of coupled harmonic oscillators. <i>Journal of Physics A</i> , 1993 , 26, 7115-	7123	1
9	Geometric quantization of the five-dimensional Kepler problem. Foundations of Physics, 1991, 21, 871-8	8 8 82	7
8	An extension of the Saxon-Hutner theorem in the relativistic domain. <i>Physics Letters, Section A:</i> General, Atomic and Solid State Physics, 1989 , 137, 313-318	2.3	10
7	Reductions and quantization. International Journal of Theoretical Physics, 1989, 28, 1255-1267	1.1	2
6	Generalization of the Saxon-Hutner Theorem in the Relativistic Domain. <i>Physica Status Solidi (B):</i> Basic Research, 1988 , 145, K115-K119	1.3	6
5	Geometric quantization of the Kepler problem with a magnetic charge 1988, 275-281		
4	Scattering of charged particles off dyons. <i>Journal of Physics A</i> , 1988 , 21, L1-L4		6
3	Geometric quantisation of the MIC-Kepler problem. <i>Journal of Physics A</i> , 1987 , 20, 5865-5871		31
2	Geometric quantization of the multidimensional Kepler problem. <i>Journal of Geometry and Physics</i> , 1985 , 2, 17-24	1.2	27
1	Method for computing the characteristic polynomial. <i>International Journal of Quantum Chemistry</i> , 1980 , 18, 339-341	2.1	6