

# Clementina D Mladenova

## List of Publications by Year in descending order

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38  
papers

147  
citations

1464605

7  
h-index

1427216

11  
g-index

43  
all docs

43  
docs citations

43  
times ranked

60  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Ranges of the Real $2 \times 2$ Matrices Derived by First Principles. <i>Geometry, Integrability and Quantization</i> , 2022, 24, 65-83.	0.2	0
2	From the Kinematics of Precession Motion to Generalized Rabi Cycles. <i>Advances in Mathematical Physics</i> , 2018, 2018, 1-10.	0.4	6
3	Alternative Description of Rigid Body Kinematics and Quantum Mechanical Angular Momenta. <i>Geometry, Integrability and Quantization</i> , 2018, 19, 148-158.	0.2	2
4	Factorizations in Special Relativity and Quantum Scattering on the Line. <i>Studies in Computational Intelligence</i> , 2017, , 1-14.	0.7	0
5	Cayley Map and Higher Dimensional Representations of Rotations. <i>Geometry, Integrability and Quantization</i> , 2017, 18, 150-182.	0.2	1
6	Generalized Euler Angles Viewed as Spherical Coordinates. <i>Geometry, Integrability and Quantization</i> , 2017, 18, 105-116.	0.2	0
7	Factorizations in special relativity and quantum scattering on the line II. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	3
8	Vector-Parameter Forms of $SU(1,1)$ , $SL(2,R)$ and Their Connection to $SO(2,1)$ . <i>Geometry, Integrability and Quantization</i> , 2016, 17, 196-230.	0.2	1
9	On the necessary and sufficient condition for the decomposition of orthogonal transformations. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
10	Variations of (pseudo-)rotations and the Laplace-Beltrami operator on homogeneous spaces. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
11	On the compositions of rotations. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	2
12	Wigner rotation and Thomas precession: geometric phases and related physical theories. <i>Journal of the Korean Physical Society</i> , 2015, 66, 1656-1663.	0.3	8
13	Generalized Euler decompositions of some six-dimensional Lie groups. , 2014, , .		4
14	New forms of the equations of the attitude kinematics. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014, 14, 87-88.	0.2	0
15	Two-axes decompositions of (pseudo-)rotations and some of their applications. , 2014, , .		1
16	Some new results on three-dimensional rotations and pseudo-rotations. , 2013, , .		4
17	New perspective on the gimbal lock problem. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	12
18	About parametric representations of $SO(n)$ matrices and plane rotations. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
19	An approach for decomposition of finite rotations. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 45-46.	0.2	0
20	Vector decomposition of finite rotations. Reports on Mathematical Physics, 2011, 68, 107-117.	0.4	15
21	Modelling of Flexible Link Manipulators. Lecture Notes in Computer Science, 2011, , 420-429.	1.0	0
22	An Approach for Computing the Euclidean Motions on the Base of Measurement Data. , 2011, , .		2
23	Rotations and Some Mechanical Applications. AIP Conference Proceedings, 2011, , .	0.3	1
24	Determination of rotation vectors from multi-point data and practical applications. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 45-46.	0.2	0
25	Dynamics of Rigid Spacecraft Under the Influence of Gravity Torques. Theory and Applications.. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10125-10126.	0.2	0
26	An approach to reduction of the real symmetric 3 $\times$ 3 secular problem and applications. Physics of Atomic Nuclei, 2005, 68, 1916-1921.	0.1	0
27	Modelling of flexible link manipulators. Proceedings in Applied Mathematics and Mechanics, 2004, 4, 163-164.	0.2	1
28	Applications of Lie Group Theory to the Modeling and Control of Multibody Systems. Multibody System Dynamics, 1999, 3, 367-380.	1.7	8
29	Dynamics and Control of Elastic Joint Manipulators. Journal of Intelligent and Robotic Systems: Theory and Applications, 1997, 20, 23-44.	2.0	3
30	Dynamics and Control of Elastic Joint Robots on a Group Configurational Manifold. , 1996, , 47-56.		1
31	Dynamics of Nonholonomic Systems. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1995, 75, 199-205.	0.9	6
32	Application of the group and geometrical properties of E(3) to the problems of rigid-body systems. Acta Mechanica, 1995, 112, 159-171.	1.1	2
33	Robotic problems over a configurational manifold of vector parameters and dual vector parameters. Journal of Intelligent and Robotic Systems: Theory and Applications, 1994, 11, 117-133.	2.0	6
34	Kinematics and dynamics of a rigid body in nonholonomic coordinates. Systems and Control Letters, 1994, 22, 257-265.	1.3	3
35	Group-theoretical methods in manipulator kinematics and symbolic computations. Journal of Intelligent and Robotic Systems: Theory and Applications, 1993, 8, 21-34.	2.0	7
36	Reactions at Nonholonomic Constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1993, 26, 534-539.	0.4	1

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37	Mathematical modelling and control of manipulator systems. Robotics and Computer-Integrated Manufacturing, 1991, 8, 233-242.	6.1	18
38	A contribution to the modelling and control of manipulators. Journal of Intelligent and Robotic Systems: Theory and Applications, 1990, 3, 349-363.	2.0	16