

Clementina D Mladenova

List of Publications by Year in descending order

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38
papers

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1307594

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1281871

11
g-index

43
all docs

43
docs citations

43
times ranked

56
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical modelling and control of manipulator systems. Robotics and Computer-Integrated Manufacturing, 1991, 8, 233-242.	9.9	18
2	A contribution to the modelling and control of manipulators. Journal of Intelligent and Robotic Systems: Theory and Applications, 1990, 3, 349-363.	3.4	16
3	Vector decomposition of finite rotations. Reports on Mathematical Physics, 2011, 68, 107-117.	0.8	15
4	New perspective on the gimbal lock problem. AIP Conference Proceedings, 2013, , .	0.4	12
5	Applications of Lie Group Theory to the Modeling and Control of Multibody Systems. Multibody System Dynamics, 1999, 3, 367-380.	2.7	8
6	Wigner rotation and Thomas precession: geometric phases and related physical theories. Journal of the Korean Physical Society, 2015, 66, 1656-1663.	0.7	8
7	Group-theoretical methods in manipulator kinematics and symbolic computations. Journal of Intelligent and Robotic Systems: Theory and Applications, 1993, 8, 21-34.	3.4	7
8	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.	3.4	6
9	Dynamics of Nonholonomic Systems. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1995, 75, 199-205.	1.6	6
10	From the Kinematics of Precession Motion to Generalized Rabi Cycles. Advances in Mathematical Physics, 2018, 2018, 1-10.	0.8	6
11	Some new results on three-dimensional rotations and pseudo-rotations. , 2013, , .		4
12	Generalized Euler decompositions of some six-dimensional Lie groups. , 2014, , .		4
13	Kinematics and dynamics of a rigid body in nonholonomic coordinates. Systems and Control Letters, 1994, 22, 257-265.	2.3	3
14	Dynamics and Control of Elastic Joint Manipulators. Journal of Intelligent and Robotic Systems: Theory and Applications, 1997, 20, 23-44.	3.4	3
15	Factorizations in special relativity and quantum scattering on the line II. AIP Conference Proceedings, 2016, , .	0.4	3
16	Application of the group and geometrical properties of E(3) to the problems of rigid-body systems. Acta Mechanica, 1995, 112, 159-171.	2.1	2
17	An Approach for Computing the Euclidean Motions on the Base of Measurement Data. , 2011, , .		2
18	On the compositions of rotations. AIP Conference Proceedings, 2015, , .	0.4	2

#	ARTICLE	IF	CITATIONS
19	Alternative Description of Rigid Body Kinematics and Quantum Mechanical Angular Momenta. Geometry, Integrability and Quantization, 2018, 19, 148-158.	0.2	2
20	Reactions at Nonholonomic Constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1993, 26, 534-539.	0.4	1
21	Dynamics and Control of Elastic Joint Robots on a Group Configurational Manifold. , 1996, , 47-56.		1
22	Modelling of flexible link manipulators. Proceedings in Applied Mathematics and Mechanics, 2004, 4, 163-164.	0.2	1
23	Rotations and Some Mechanical Applications. AIP Conference Proceedings, 2011, , .	0.4	1
24	About parametric representations of $SO(n)$ matrices and plane rotations. , 2012, , .		1
25	Two-axes decompositions of (pseudo-)rotations and some of their applications. , 2014, , .		1
26	On the necessary and sufficient condition for the decomposition of orthogonal transformations. AIP Conference Proceedings, 2015, , .	0.4	1
27	Vector-Parameter Forms of $SU(1,1)$, $SL(2,R)$ and Their Connection to $SO(2,1)$. Geometry, Integrability and Quantization, 2016, 17, 196-230.	0.2	1
28	Cayley Map and Higher Dimensional Representations of Rotations. Geometry, Integrability and Quantization, 2017, 18, 150-182.	0.2	1
29	An approach to reduction of the real symmetric 3×3 secular problem and applications. Physics of Atomic Nuclei, 2005, 68, 1916-1921.	0.4	0
30	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
31	Determination of rotation vectors from multi-point data and practical applications. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 45-46.	0.2	0
32	Modelling of Flexible Link Manipulators. Lecture Notes in Computer Science, 2011, , 420-429.	1.3	0
33	An approach for decomposition of finite rotations. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 45-46.	0.2	0
34	New forms of the equations of the attitude kinematics. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 87-88.	0.2	0
35	Variations of (pseudo-)rotations and the Laplace-Beltrami operator on homogeneous spaces. AIP Conference Proceedings, 2015, , .	0.4	0
36	Factorizations in Special Relativity and Quantum Scattering on the Line. Studies in Computational Intelligence, 2017, , 1-14.	0.9	0

#	ARTICLE	IF	CITATIONS
37	Generalized Euler Angles Viewed as Spherical Coordinates. <i>Geometry, Integrability and Quantization</i> , 2017, 18, 105-116.	0.2	0
38	Numerical Ranges of the Real $2\tilde{A}-2$ Matrices Derived by First Principles. <i>Geometry, Integrability and Quantization</i> , 2022, 24, 65-83.	0.2	0