Daniel Condurache

List of Publications by Year
in descending order

53 papers	500 citations	759233 12 h-index	752698 20 g-index
55 all docs	55 docs citations	55 times ranked	201 citing authors

#	Article	IF	Citations
1	Orthogonal dual tensor method for solving the A X = X B sensor calibration problem. Mechanism and Machine Theory, 2016, 104, 382-404.	4.5	66
2	Dual tensors based solutions for rigid body motion parameterization. Mechanism and Machine Theory, 2014, 74, 390-412.	4.5	50
3	Resistivity and Curie Point of Li-Zn Ferrites. Journal of the American Ceramic Society, 1974, 57, 40-40.	3.8	36
4	Foucault Pendulum-like problems: A tensorial approach. International Journal of Non-Linear Mechanics, 2008, 43, 743-760.	2.6	28
5	Relative Spacecraft Motion in a Central Force Field. Journal of Guidance, Control, and Dynamics, 2007, 30, 873-876.	2.8	26
6	Quaternionic Exact Solution to the Relative Orbital Motion Problem. Journal of Guidance, Control, and Dynamics, 2010, 33, 1035-1047.	2.8	23
7	A comparison of freezing-damage during isochoric and isobaric freezing of the potato. PeerJ, 2017, 5, e3322.	2.0	23
8	Kepler's Problem in Rotating Reference Frames Part II: Relative Orbital Motion. Journal of Guidance, Control, and Dynamics, 2007, 30, 201-213.	2.8	20
9	Kepler's Problem in Rotating Reference Frames Part I: Prime Integrals, Vectorial Regularization. Journal of Guidance, Control, and Dynamics, 2007, 30, 192-200.	2.8	19
10	A complete closed form vectorial solution to the Kepler problem. Meccanica, 2007, 42, 465-476.	2.0	18
11	Exact solution to the relative orbital motion in eccentric orbits. Solar System Research, 2009, 43, 41-52.	0.7	16
12	Computation of angular velocity and acceleration tensors by direct measurements. Acta Mechanica, 2002, 153, 147-167.	2.1	14
13	Dual Lie Algebra Representations of the Rigid Body Motion. , 2014, , .		13
14	Influence of substitution and addition of calcium on magnetic properties of $Ni_{0.245}Zn_{0.755}Fe_2O_4$ ferrite. Physica Status Solidi A, 1983, 76, 145-150.	1.7	11
15	Higher-Order Relative Kinematics of Rigid Body Motions: A Dual Lie Algebra Approach. Springer Proceedings in Advanced Robotics, 2019, , 83-91.	1.3	11
16	A Davenport dual angles approach for minimal parameterization of the rigid body displacement and motion. Mechanism and Machine Theory, 2019, 140, 104-122.	4.5	10
17	A novel solution for $\mathbf{AX}=\mathbf{YB}$ sensor calibration problem using dual Lie algebra. , 2019, , .		9
18	Multidual Algebra and Higher-Order Kinematics. Mechanisms and Machine Science, 2020, , 48-55.	0.5	9

#	ARTICLE	IF	CITATIONS
19	Higher-Order Relative Kinematics of Rigid Body and Multibody Systems. A Novel Approach with Real and Dual Lie Algebras. Mechanism and Machine Theory, 2022, 176, 104999.	4.5	9
20	El Naschieâ€™s cantorian strings and dendritic morphogenesis. Chaos, Solitons and Fractals, 2004, 21, 515-536.	5.1	8
21	Higher-Order Kinematics of Rigid Bodies. A Tensors Algebra Approach. Mechanisms and Machine Science, 2019, , 215-225.	0.5	8
22	Ferrofluid with modified stabilisant. Journal of Magnetism and Magnetic Materials, 1999, 202, 197-200.	2.3	7
23	Onboard Exact Solution to the Full-Body Relative Orbital Motion Problem. Journal of Guidance, Control, and Dynamics, 2016, 39, 2638-2648.	2.8	7
24	Bakerâ€"Campbellâ€"Hausdorffâ€"Dynkin Formula for the Lie Algebra of Rigid Body Displacements. Mathematics, 2020, 8, 1185.	2.2	7
25	Exact Solution to the Relative Orbital Motion in a Central Force Field. , 2008, , .		6
26	Algebraic computation of the twist of a rigid body through direct measurements. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 5357-5376.	6.6	4
27	A Quaternionic Exact Solution to the Relative Orbital Motion. , 2008, , .		4
28	Closed Form of the Baker-Campbell-Hausdorff Formula for the Lie Algebra of Rigid Body Displacements. Computational Methods in Applied Sciences (Springer), 2020, , 307-314.	0.3	4
29	A different approach to solving the PBVS control problem. , 2020, , .		4
30	State Space Analysis for The Relative Spacecraft Motion in Geopotential Fields. , 2011, , .		3
31	Iterative closest point problem: A tensorial approach to finding the initial guess. , 2016, , .		3
32	Higher-Order Cayley Transforms for SE(3). Mechanisms and Machine Science, 2018, , 331-339.	0.5	3
33	Influence of substitution of Zn by Cd in ferrites with lithium. Physica Status Solidi A, 1974, 26, K41-K44.	1.7	2
34	Vectorial Regularization and Temporal Means in Keplerian Motion. Journal of Nonlinear Mathematical Physics, 2006, 13, 420.	1.3	2
35	Super-integrability in the unperturbed relative orbital motion problem. , 2010, , .		2
36	Analytical Orbit Propagator Based on Vectorial Orbital Elements. , 2013, , .		1

#	Article	IF	Citations
37	Exact Closed-Form Solutions of the Motion in Non-Inertial Reference Frames, Using the Properties of Lie Groups SO3 and SE3. Symmetry, 2021, 13, 1963.	2.2	1
38	A Quaternion Solution of the Motion in a Central Force Field Relative to a Rotating Reference Frame. World Journal of Mechanics, 2015, 05, 71-79.	0.4	1
39	Hyper-multidual Algebra and Higher-Order Kinematics. Springer Proceedings in Advanced Robotics, 2022, , 57-64.	1.3	1
40	Growth and Photosynthetic Activity for Tomato Plants Treated With different Cations. Molecular Crystals and Liquid Crystals, 2004, 418, 243-253.	0.9	0
41	Microstructure and Friction Properties of Some Tin–Graphite Polyamide Composites. Molecular Crystals and Liquid Crystals, 2004, 417, 177-184.	0.9	0
42	Analytic Solution to the Relative Orbital Motion Around an Oblate Planet. , 2009, , .		0
43	Spacecraft Relative Orbital Motion. , 0, , .		0
44	On Board Exact Solution to the Full Body Relative Orbital Motion Problem. , 2014, , .		0
45	Kinematic evaluation of articulated rigid objects. , 2014, , .		0
46	Wahba Problem in SO(3) Dual Algebra. , 2016, , .		0
47	On Six DOF Relative Orbital Motion of Satellites. , 2018, , .		0
48	Higher- Order Cayley Maps for Minimal Parameterization of Rigid Body Motion. Mechanisms and Machine Science, 2019, , 2521-2530.	0.5	0
49	Higher-Order Kinematics in Dual Lie Algebra. , 2020, , .		0
50	The Optimizing of the Superficial Cold-Burst Hardening Process of the Inner Cylindrical Metallic Surfaces by Knocking with Centrifuged Balls. , 2000, , .		0
51	CURRENT LEVEL OF POLLUTION ON THERMAL TREATMENT OF BEARING STEELS: LOW - POLLUTING CRYOGENIC TREATMENT. Environmental Engineering and Management Journal, 2004, 3, 809-815.	0.6	0
52	A Short Vector Solution of the Foucault Pendulum Problem. World Journal of Mechanics, 2015, 05, 7-19.	0.4	0
53	Singularity-Free Extraction of a Dual Quaternion from Orthogonal Dual Tensor. Springer Proceedings in Advanced Robotics, 2021, , 142-149.	1.3	0