Todd G Nelson

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8876894/publications.pdf

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16	260	1163117 8	1199594 12
papers	citations	h-index	g-index

16	16	16	177
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Mixed-Body Model: A Method for Predicting Large Deflections in Stepped Cantilever Beams. Journal of Mechanisms and Robotics, 2022, 14, .	2.2	1
2	Deployable Convex Generalized Cylindrical Surfaces Using Torsional Joints. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	4
3	Origami-inspired sacrificial joints for folding compliant mechanisms. Mechanism and Machine Theory, 2019, 140, 194-210.	4.5	20
4	Developable mechanisms on developable surfaces. Science Robotics, 2019, 4, .	17.6	46
5	Normalized Coordinate Equations and an Energy Method for Predicting Natural Curved-Fold Configurations. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	2.2	6
6	Developable compliant-aided rolling-contact mechanisms. Mechanism and Machine Theory, 2018, 126, 225-242.	4.5	13
7	Implementation of Rolling Contacts for SORCE Joints. , 2018, , .		1
8	Thick Rigidly Foldable Origami Mechanisms Based on Synchronized Offset Rolling Contact Elements. Journal of Mechanisms and Robotics, 2017, 9, .	2.2	34
9	Kinematics and Discretization of Curved-Fold Mechanisms. , 2017, , .		5
10	Thick Rigidly Foldable Origami Mechanisms Based on Synchronized Offset Rolling Contact Elements. , 2016, , .		7
11	Packing and deploying Soft Origami to and from cylindrical volumes with application to automotive airbags. Royal Society Open Science, 2016, 3, 160429.	2.4	32
12	Material selection shape factors for compliant arrays in bending. Materials and Design, 2016, 110, 865-877.	7.0	7
13	Facilitating Deployable Mechanisms and Structures Via Developable Lamina Emergent Arrays. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	34
14	Curved-folding-inspired deployable compliant rolling-contact element (D-CORE). Mechanism and Machine Theory, 2016, 96, 225-238.	4.5	39
15	Large-Curvature Deployable Developable Structures via Lamina Emergent Arrays. , 2015, , .		1
16	Changes in Vertebral Strain Energy Correlate With Increased Presence of Schmorl's Nodes in Multi-Level Lumbar Disk Degeneration. Journal of Biomechanical Engineering, 2014, 136, 061002.	1.3	10