

Todd G Nelson

List of Publications by Year in descending order

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

Version: 2024-02-01

16
papers

260
citations

1163117

8
h-index

1199594

12
g-index

16
all docs

16
docs citations

16
times ranked

177
citing authors

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