

Rainer Kaltseis

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

1,016
citations

840776
11
h-index

1199594
12
g-index

14
all docs

14
docs citations

14
times ranked

1577
citing authors

#	ARTICLE	IF	CITATIONS
1	Instant tough bonding of hydrogels for soft machines and electronics. Science Advances, 2017, 3, e1700053.	10.3	359
2	Stretch dependence of the electrical breakdown strength and dielectric constant of dielectric elastomers. Smart Materials and Structures, 2013, 22, 104012.	3.5	126
3	Natural rubber for sustainable high-power electrical energy generation. RSC Advances, 2014, 4, 27905-27913.	3.6	125
4	Method for measuring energy generation and efficiency of dielectric elastomer generators. Applied Physics Letters, 2011, 99, .	3.3	106
5	Performance of dissipative dielectric elastomer generators. Journal of Applied Physics, 2012, 111, .	2.5	85
6	A Lesson from Plants: High-Speed Soft Robotic Actuators. Advanced Science, 2020, 7, 1903391.	11.2	55
7	High-performance electromechanical transduction using laterally-constrained dielectric elastomers part I: Actuation processes. Journal of the Mechanics and Physics of Solids, 2017, 105, 81-94.	4.8	46
8	Electric-field-tuned color in photonic crystal elastomers. Applied Physics Letters, 2012, 100, 101902.	3.3	40
9	Roton-Roton Crossover in Strongly Correlated Dipolar Bose-Einstein Condensates. Physical Review Letters, 2011, 107, 065303.	7.8	23
10	Large area expansion of a soft dielectric membrane triggered by a liquid gaseous phase change. Applied Physics A: Materials Science and Processing, 2011, 105, 1-3.	2.3	22
11	Cost-Efficient Open Source Desktop Size Radial Stretching System With Force Sensor. IEEE Access, 2015, 3, 556-561.	4.2	21
12	Dielectric elastomers: from the beginning of modern science to applications in actuators and energy harvesters. , 2011, , .		7
13	Modeling guided design of dielectric elastomer generators and actuators. Proceedings of SPIE, 2012, , .	0.8	1