Donghyeon Ryu

List of Publications by Year
in descending order

16	266	933447 10	1058476 14
papers	citations	h-index	g-index

17	17	17	316
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In situ reduction of gold nanoparticles in PDMS matrices and applications for large strain sensing. Smart Structures and Systems, 2011, 8, 471-486.	1.9	57
2	Instabilities of Thin Films on a Compliant Substrate: Direct Numerical Simulations from Surface Wrinkling to Global Buckling. Scientific Reports, 2020, 10, 5728.	3.3	39
3	Investigation of galvanic corrosion between AISI 1018 carbon steel and CFRPs modified with multi-walled carbon nanotubes. Journal of Materials Science, 2013, 48, 1315-1323.	3.7	30
4	Strain sensing using photocurrent generated by photoactive P3HT-based nanocomposites. Smart Materials and Structures, 2012, 21, 065016.	3.5	20
5	Direct numerical simulation of buckling instability of thin films on a compliant substrate. Advances in Mechanical Engineering, 2019, 11, 168781401984047.	1.6	19
6	Inkjet-printed, flexible, and photoactive thin film strain sensors. Journal of Intelligent Material Systems and Structures, 2015, 26, 1699-1710.	2.5	17
7	Corrugated Photoactive Thin Films for Flexible Strain Sensor. Materials, 2018, 11, 1970.	2.9	17
8	Multi-modal sensing using photoactive thin films. Smart Materials and Structures, 2014, 23, 085011.	3.5	12
9	Surface Instability of Composite Thin Films on Compliant Substrates: Direct Simulation Approach. Frontiers in Materials, 2019, 6, .	2.4	11
10	Instability driven surface patterns: Insights from direct three-dimensional finite element simulations. Extreme Mechanics Letters, 2020, 39, 100779.	4.1	10
11	Fracto-mechanoluminescent light emission of EuD4TEA-PDMS composites subjected to high strain-rate compressive loading. Smart Materials and Structures, 2017, 26, 085006.	3.5	9
12	Multivariate Characterization of Light Emission From ZnS:Cu-PDMS Self-Sensing Composites Under Cyclic Tensile Strains. , 2018, 2, 1-4.		9
13	Strainâ€“Microstructureâ€“Optoelectronic Inter-Relationship toward Engineering Mechano-Optoelectronic Conjugated Polymer Thin Films. Polymers, 2021, 13, 935.	4.5	7
14	Direct numerical simulations of three-dimensional surface instability patterns in thin film-compliant substrate structures. Scientific Reports, 2021, 11, 16449.	3.3	5
15	Surface Wrinkling versus Global Buckling Instabilities in Thin Filmâ€Substrate Systems under Biaxial Loading: Direct 3D Numerical Simulations. Advanced Theory and Simulations, 2022, 5, .	2.8	4
16	Autonomous structural composites for self-powered strain sensing-enabled damage detection. , 2019, , .		0