

Donghyeon Ryu

List of Publications by Year in descending order

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