Kawai Kwok

List of Publications by Year
in descending order

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42	486	687363 13	752698 20
papers	citations	h-index	g-index

42	42	42	450
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Folding, Stowage, and Deployment of Viscoelastic Tape Springs. AIAA Journal, 2013, 51, 1908-1918.	2.6	51
2	Micromechanics Models for Viscoelastic Plain-Weave Composite Tape Springs. AIAA Journal, 2017, 55, 309-321.	2.6	48
3	Influence of temperature and atmosphere on the strength and elastic modulus of solid oxide fuel cell anode supports. Journal of Power Sources, 2016, 311, 1-12.	7.8	38
4	Stress analysis and fail-safe design of bilayered tubular supported ceramic membranes. Journal of Membrane Science, 2014, 453, 253-262.	8.2	23
5	Creep behaviour of porous metal supports for solid oxide fuel cells. International Journal of Hydrogen Energy, 2014, 39, 21569-21580.	7.1	23
6	Joining of ceramic Ba0.5Sr0.5Co0.8Fe0.2O3 membranes for oxygen production to high temperature alloys. Journal of Membrane Science, 2016, 506, 11-21.	8.2	23
7	Strength characterization of tubular ceramic materials by flexure of semi-cylindrical specimens. Journal of the European Ceramic Society, 2014, 34, 1423-1432.	5.7	21
8	Efficient modeling of metallic interconnects for thermo-mechanical simulation of SOFC stacks: Homogenized behaviors and effect of contact. International Journal of Hydrogen Energy, 2016, 41, 6433-6444.	7.1	21
9	Modeling the Mechanical Integrity of Generic Solid Oxide Cell Stack Designs Exposed to Longâ€term Operation. Fuel Cells, 2019, 19, 96-109.	2.4	21
10	Homogenization of steady-state creep of porous metals using three-dimensional microstructural reconstructions. International Journal of Solids and Structures, 2016, 78-79, 38-46.	2.7	20
11	Mechanical reliability of geometrically imperfect tubular oxygen transport membranes. Journal of Membrane Science, 2014, 470, 80-89.	8.2	18
12	Thermoviscoelastic models for polyethylene thin films. Mechanics of Time-Dependent Materials, 2016, 20, 13-43.	4.4	17
13	Viscoelastic effects in tape-springs. , 2011, , .		15
14	Shape Recovery of Viscoelastic Beams After Stowage. Mechanics Based Design of Structures and Machines, 2015, 43, 95-111.	4.7	15
15	Computation of Effective Steadyâ€State Creep of Porous Niâ€“YSZ Composites with Reconstructed Microstructures. Journal of the American Ceramic Society, 2015, 98, 2873-2880.	3.8	12
16	Shape Recovery of Viscoelastic Deployable Structures. , 2010, , .		10
17	Micromechanical modeling of deployment and shape recovery of thin-walled viscoelastic composite space structures. , 2012, , .		10
18	Electro-thermo-mechanical behavior of carbon nanopaper shape memory polymer composites. Journal of Intelligent Material Systems and Structures, 2022, 33, 489-500.	2.5	10

#	Article	IF	Citations
19	The role of sacrificial fugitives in thermoplastic extrusion feedstocks on properties of MgO supports for oxygen transport membranes. Journal of the European Ceramic Society, 2015, 35, 1527-1537.	5.7	8
20	On the Properties and Long-Term Stability of Infiltrated Lanthanum Cobalt Nickelates (LCN) in Solid Oxide Fuel Cell Cathodes. Journal of the Electrochemical Society, 2017, 164, F748-F758.	2.9	8
21	Transient deformational properties of high temperature alloys used in solid oxide fuel cell stacks. Journal of Power Sources, 2017, 351, 8-16.	7.8	8
22	Large Strain Viscoelastic Model for Balloon Film. , 2011, , .		7
23	Design and development of ring-on-ring jig for biaxial strength testing of brittle ceramic composite materials: ZrB₂-30wt-%SiB₆. Advances in Applied Ceramics, 2019, 118, 159-168.	1.1	7
24	Fast relaxation of stresses in solid oxide cells through reduction. Part I: Macro-stresses in the cell layers. International Journal of Hydrogen Energy, 2021, 46, 1548-1559.	7.1	7
25	Micromechanical Modeling of High-Strain Thin-Ply Composites. , 2019, , .		6
26	Interface Fracture Energy of Contact Layers in a Solid Oxide Cell Stack. ACS Applied Energy Materials, 2020, 3, 2372-2385.	5.1	6
27	Production and Reliability Oriented SOFC Cell and Stack Design. ECS Transactions, 2017, 78, 2231-2249.	0.5	5
28	Exploring the Processing of Tubular Chromite- and Zirconia-Based Oxygen Transport Membranes. Ceramics, 2018, 1, 229-245.	2.6	5
29	Development of High Temperature Mechanical Rig for Characterizing the Viscoplastic Properties of Alloys Used in Solid Oxide Cells. Journal of Testing and Evaluation, 2018, 46, 1918-1929.	0.7	5
30	Viscoelastic modeling and characterization of thin-ply composite laminates. Composite Structures, 2022, 280, 114901.	5.8	5
31	Viscoelastic Behaviors of Thin-Ply High Strain Composites. , 2019, , .		4
32	Viscoelastic Analysis of Stowage and Quasi-Static Deployment of Composite Tape Springs. , 2018, , .		2
33	Predictive Engineering Tools for Modeling the Viscoelastic Response of High Strain Composites. , 2022, , .		2
34	Shape Recovery Behavior of Carbon Nanopaper Shape Memory Polymer Composite. , 2019, , .		1
35	Surface Accuracy of Viscoelastic Composite Thin-Shell Deployable Reflector Antennas. , 2020, , .		1
36	Multiobjective Optimization of Deployable Viscoelastic Tape Springs under Uncertainty. , 2020, , .		1

#	Article	IF	Citations
37	Time-Dependent Yielding of Polymer Thin Films Under Creep. Conference Proceedings of the Society for Experimental Mechanics, 2021, , 5-16.	0.5	1
38	Inflated Cone Experiment for High-Throughput Characterization of Time-Dependent Polymer Membranes. Journal of Applied Mechanics, Transactions ASME, 0, , 1-7.	2.2	1
39	Structural and Control Concepts for Variable Geometry Planetary Entry Systems. , 2009, , .		0
40	Large-Strain Viscoelastic Constitutive Models for Thin Polyethylene Films. , 2015, , .		0
41	Stowage and Recovery of Thin-ply Composite Deployable Structures. , 2020, , .		0
42	High Curvature Bending of Viscoelastic Thin-Ply Composites. , 0, , .		0