

Kawai Kwok

List of Publications by Year in descending order

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42
papers

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687363

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42
times ranked

450
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Viscoelastic modeling and characterization of thin-ply composite laminates. Composite Structures, 2022, 280, 114901.	5.8	5
3	Predictive Engineering Tools for Modeling the Viscoelastic Response of High Strain Composites. , 2022, , .		2
4	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
5	Time-Dependent Yielding of Polymer Thin Films Under Creep. Conference Proceedings of the Society for Experimental Mechanics, 2021, , 5-16.	0.5	1
6	Surface Accuracy of Viscoelastic Composite Thin-Shell Deployable Reflector Antennas. , 2020, , .		1
7	Stowage and Recovery of Thin-ply Composite Deployable Structures. , 2020, , .		0
8	Interface Fracture Energy of Contact Layers in a Solid Oxide Cell Stack. ACS Applied Energy Materials, 2020, 3, 2372-2385.	5.1	6
9	Multiobjective Optimization of Deployable Viscoelastic Tape Springs under Uncertainty. , 2020, , .		1
10	Micromechanical Modeling of High-Strain Thin-Ply Composites. , 2019, , .		6
11	Viscoelastic Behaviors of Thin-Ply High Strain Composites. , 2019, , .		4
12	Design and development of ring-on-ring jig for biaxial strength testing of brittle ceramic composite materials: ZrB_2 -30wt-% SiB_6 . Advances in Applied Ceramics, 2019, 118, 159-168.	1.1	7
13	Modeling the Mechanical Integrity of Generic Solid Oxide Cell Stack Designs Exposed to Long-term Operation. Fuel Cells, 2019, 19, 96-109.	2.4	21
14	Shape Recovery Behavior of Carbon Nanopaper Shape Memory Polymer Composite. , 2019, , .		1
15	Viscoelastic Analysis of Stowage and Quasi-Static Deployment of Composite Tape Springs. , 2018, , .		2
16	Exploring the Processing of Tubular Chromite- and Zirconia-Based Oxygen Transport Membranes. Ceramics, 2018, 1, 229-245.	2.6	5
17	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
18	Micromechanics Models for Viscoelastic Plain-Weave Composite Tape Springs. AIAA Journal, 2017, 55, 309-321.	2.6	48

#	ARTICLE	IF	CITATIONS
19	On the Properties and Long-Term Stability of Infiltrated Lanthanum Cobalt Nickelates (LCN) in Solid Oxide Fuel Cell Cathodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, F748-F758.	2.9	8
20	Transient deformational properties of high temperature alloys used in solid oxide fuel cell stacks. <i>Journal of Power Sources</i> , 2017, 351, 8-16.	7.8	8
21	Production and Reliability Oriented SOFC Cell and Stack Design. <i>ECS Transactions</i> , 2017, 78, 2231-2249.	0.5	5
22	Thermoviscoelastic models for polyethylene thin films. <i>Mechanics of Time-Dependent Materials</i> , 2016, 20, 13-43.	4.4	17
23	Efficient modeling of metallic interconnects for thermo-mechanical simulation of SOFC stacks: Homogenized behaviors and effect of contact. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6433-6444.	7.1	21
24	Influence of temperature and atmosphere on the strength and elastic modulus of solid oxide fuel cell anode supports. <i>Journal of Power Sources</i> , 2016, 311, 1-12.	7.8	38
25	Joining of ceramic Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ membranes for oxygen production to high temperature alloys. <i>Journal of Membrane Science</i> , 2016, 506, 11-21.	8.2	23
26	Homogenization of steady-state creep of porous metals using three-dimensional microstructural reconstructions. <i>International Journal of Solids and Structures</i> , 2016, 78-79, 38-46.	2.7	20
27	Computation of Effective Steady-State Creep of Porous Ni-YSZ Composites with Reconstructed Microstructures. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2873-2880.	3.8	12
28	Large-Strain Viscoelastic Constitutive Models for Thin Polyethylene Films. , 2015, , .		0
29	The role of sacrificial fugitives in thermoplastic extrusion feedstocks on properties of MgO supports for oxygen transport membranes. <i>Journal of the European Ceramic Society</i> , 2015, 35, 1527-1537.	5.7	8
30	Shape Recovery of Viscoelastic Beams After Stowage. <i>Mechanics Based Design of Structures and Machines</i> , 2015, 43, 95-111.	4.7	15
31	Stress analysis and fail-safe design of bilayered tubular supported ceramic membranes. <i>Journal of Membrane Science</i> , 2014, 453, 253-262.	8.2	23
32	Mechanical reliability of geometrically imperfect tubular oxygen transport membranes. <i>Journal of Membrane Science</i> , 2014, 470, 80-89.	8.2	18
33	Creep behaviour of porous metal supports for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21569-21580.	7.1	23
34	Strength characterization of tubular ceramic materials by flexure of semi-cylindrical specimens. <i>Journal of the European Ceramic Society</i> , 2014, 34, 1423-1432.	5.7	21
35	Folding, Stowage, and Deployment of Viscoelastic Tape Springs. <i>AIAA Journal</i> , 2013, 51, 1908-1918.	2.6	51
36	Micromechanical modeling of deployment and shape recovery of thin-walled viscoelastic composite space structures. , 2012, , .		10

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37	Viscoelastic effects in tape-springs. , 2011, , .		15
38	Large Strain Viscoelastic Model for Balloon Film. , 2011, , .		7
39	Shape Recovery of Viscoelastic Deployable Structures. , 2010, , .		10
40	Structural and Control Concepts for Variable Geometry Planetary Entry Systems. , 2009, , .		0
41	High Curvature Bending of Viscoelastic Thin-Ply Composites. , 0, , .		0
42	Inflated Cone Experiment for High-Throughput Characterization of Time-Dependent Polymer Membranes. Journal of Applied Mechanics, Transactions ASME, 0, , 1-7.	2.2	1