

# Takenobu Sakai

## List of Publications by Year in descending order

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27  
papers

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citations

1307594

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1199594

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docs citations

27  
times ranked

116  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Possibility for Quantitative Detection of Mechanically-Induced Invisible Damage by Thermal Property Measurement via Entropy Generation for a Polymer Material. <i>Materials</i> , 2022, 15, 737.	2.9	12
2	Fabrication and Characteristics of Electret using Fine Silica Powder and Its Application of Ultrasonic Sensor. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2022, 142, 110-116.	0.1	5
3	Effect of matrix crystallinity of carbon fiber reinforced polyamide 6 on static bending properties. <i>Advanced Composite Materials</i> , 2021, 30, 71-84.	1.9	10
4	Formulation of non-linear viscoelastic-viscoplastic constitutive equation for polyamide 6 resin. <i>Heliyon</i> , 2021, 7, e06335.	3.2	8
5	Effect of heat treatment on mechanical properties of carbon-fiber-reinforced thermoplastic. <i>Advanced Composite Materials</i> , 2021, 30, 527-543.	1.9	3
6	Molecular Dynamics Simulation for Evaluating Fracture Entropy of a Polymer Material under Various Combined Stress States. <i>Materials</i> , 2021, 14, 1884.	2.9	11
7	Molecular dynamics simulation for the quantitative prediction of experimental tensile strength of a polymer material. <i>Composites Part C: Open Access</i> , 2020, 2, 100041.	3.2	9
8	Evaluation of Hydrostatic Pressure Dependence of Bulk Creep of Polycarbonate by Molecular Dynamics Simulation. <i>Journal of the Japan Society for Composite Materials</i> , 2019, 45, 26-33.	0.2	0
9	Estimating the creep behavior of glass-fiber-reinforced polyamide considering the effects of crystallinity and fiber volume fraction. <i>Mechanics of Advanced Materials and Modern Processes</i> , 2018, 4, .	2.2	9
10	Performance Evaluation of Flexible Electret Sensor Array for Ultrasonic Object Detection in Short Distance. , 2018, , .		0
11	Preparation and Characteristic Evaluation of Silica-agglomerate Electret with Ultra-thin PTFE Layer for Ultrasonic Sensor. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2018, 138, 441-447.	0.1	6
12	Accelerated creep and creep-rupture testing of transverse unidirectional carbon/epoxy lamina based on the stepped isostress method. <i>Composite Structures</i> , 2017, 159, 455-462.	5.8	35
13	Damage accumulation studied by acoustic emission in bone cement prepared with core-shell nanoparticles under fatigue. <i>Journal of Materials Science</i> , 2016, 51, 5635-5645.	3.7	6
14	Sensitivity Enhancement of FBG Sensors for Acoustic Emission Using Waveguides. <i>Experimental Mechanics</i> , 2016, 56, 1439-1447.	2.0	3
15	Fracture behavior of wasted activated carbon powder composites. <i>Advanced Composite Materials</i> , 2016, 25, 375-384.	1.9	2
16	Evaluation of damage progression and mechanical behavior under compression of bone cements containing core-shell nanoparticles by using acoustic emission technique. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 46, 137-147.	3.1	6
17	Estimation of creep and recovery behavior of a shape memory polymer. <i>Mechanics of Time-Dependent Materials</i> , 2015, 19, 569-579.	4.4	6
18	OS0707 Viscoelastic and Damage Accumulation Behavior on Compressive Deformation of Bovine Cortical Bone. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2013, 2013, _OS0707-1_-_OS0707-3_.	0.0	0

#	ARTICLE	IF	CITATIONS
19	Estimating the creep behavior of polycarbonate with changes in temperature and aging time. <i>Mechanics of Time-Dependent Materials</i> , 2012, 16, 241-249.	4.4	5
20	AE Monitoring of Damage Accumulation in Transparent Conductive Oxide Film under the Mechanical Strain. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2011, 5, 774-779.	0.5	0
21	Mechanical Properties of CNF Reinforced Ceramic Composites Sintered with SPS Technique. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2011, 5, 866-872.	0.5	4
22	Analysis of creep behavior in thermoplastics based on visco-elastic theory. <i>Mechanics of Time-Dependent Materials</i> , 2011, 15, 293-308.	4.4	27
23	Effect of Thermal History on the Creep Behavior of Polycarbonate. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2009, 3, 1193-1201.	0.5	5
24	Viscoelasticity of Shape Memory Polymer: Polyurethane series DiARY. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2007, 1, 480-489.	0.5	7
25	Estimating creep deformation of glass-fiber-reinforced polycarbonate. <i>Mechanics of Time-Dependent Materials</i> , 2007, 10, 185-199.	4.4	11
26	Effect of Viscoelastic Behavior on Electroconductivity of Recycled Activated Carbon Composites. <i>Applied Mechanics and Materials</i> , 0, 70, 231-236.	0.2	2
27	Evaluation of viscoelastic non-isochoric plastic behavior of PBT and PA6. <i>Mechanics of Time-Dependent Materials</i> , 0, , 1.	4.4	1