Satoshi Kobayashi

List of Publications by Year
in descending order

84	670	623734	642732
papers	citations	14 h-index	23 g-index

84	84	84	689
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanical and thermal properties and water absorption of jute fiber reinforced poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.9	70
2	Interfacial, Mechanical and Thermal Properties of Coir Fiber-Reinforced Poly(Lactic Acid) Biodegradable Composites. Advanced Composite Materials, 2012, 21, 103-122.	1.9	56
3	Processing of unidirectional hemp fiber reinforced composites with micro-braiding technique. Composites Part A: Applied Science and Manufacturing, 2013, 46, 173-179.	7.6	44
4	The effect of pressure during sintering on the strength and the fracture toughness of hydroxyapatite ceramics. Journal of Materials Science: Materials in Medicine, 2006, 17, 1089-1093.	3.6	39
5	Evaluation of burst strength of FW-FRP composite pipes after impact using pitch-based low-modulus carbon fiber. Composites Part A: Applied Science and Manufacturing, 2006, 37, 2002-2010.	7.6	38
6	Burst strength evaluation of the FW-CFRP hybrid composite pipes considering plastic deformation of the liner. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1344-1353.	7.6	36
7	Resin impregnation behavior in carbon fiber reinforced polyamide 6 composite: Effects of yarn thickness, fabric lamination and sizing agent. Composites Part A: Applied Science and Manufacturing, 2017, 101, 283-289.	7.6	31
8	Acoustic emission detection and position identification of transverse cracks in carbon fiberâ€“reinforced plastic laminates by using a novel optical fiber ultrasonic sensing system. Structural Health Monitoring, 2015, 14, 205-213.	7.5	29
9	Characterization of mechanical properties and bioactivity of hydroxyapatite/Î²-tricalcium phosphate composites. Advanced Composite Materials, 2014, 23, 163-177.	1.9	25
10	The identification of damage types in carbon fiberâ€“reinforced plastic cross-ply laminates using a novel fiber-optic acoustic emission sensor. Structural Health Monitoring, 2016, 15, 93-103.	7.5	23
11	Mechanical and Thermal Properties of Short Coir Fibre Reinforced Poly(Butylene Succinate) Biodegradable Composites. Journal of Solid Mechanics and Materials Engineering, 2011, 5, 251-262.	0.5	20
12	Processing and characterization of hemp fiber textile composites with micro-braiding technique. Composites Part A: Applied Science and Manufacturing, 2014, 59, 1-8.	7.6	17
13	Effect of Molding Condition on the Mechanical Properties of Bamboo-Rayon Continuous Fiber/Poly(Lactic Acid) Composites. Advanced Composite Materials, 2012, 21, 79-90.	1.9	16
14	Resin Impregnation Behavior in Processing of Unidirectional Carbon Fiber Reinforced Thermoplastic Composites. Advanced Composite Materials, 2012, 21, 91-102.	1.9	15
15	Effect of hydrolysis on mechanical properties of tricalcium phosphate/poly-l-lactide composites. Journal of Materials Science: Materials in Medicine, 2009, 20, 379-386.	3.6	14
16	Microscopic damage behavior in carbon fiber reinforced plastic laminates for a high accuracy antenna in a satellite under cyclic thermal loading. Advanced Composite Materials, 2019, 28, 259-269.	1.9	12
17	Mechanical behavior of hydroxyapatite-poly(lactic acid) hybrid porous scaffold. Advanced Composite Materials, 2020, 29, 587-602.	1.9	10
18	Experimental and Analytical Characterization of .BETA.-Tricalcium Phosphate Particle Reinforced Poly-L-Lactide Composites. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2006, 49, 314-320.	0.4	9

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19	Bending and Compressive Properties of Crystallized TCP/PLLA Composites. Advanced Composite Materials, 2009, 18, 287-295.	1.9	9
20	Analytical prediction of hydrolysis behavior of tricalcium phosphate/poly-L-lactic acid composites in simulated body environment. Advanced Composite Materials, 2014, 23, 211-223.	1.9	9
21	Experimental and analytical investigation on resin impregnation behavior in continuous carbon fiber reinforced thermoplastic polyimide composites. Mechanics of Advanced Materials and Modern Processes, 2018, 4, .	2.2	9
22	Analytical prediction of resin impregnation behavior during processing of unidirectional fiber reinforced thermoplastic composites considering pressure fluctuation. Advanced Composite Materials, 2012, 21, 425-432.	1.9	8
23	Improved mechanical properties of aligned multi-walled carbon nanotube/thermoplastic polyimide composites by hot stretching. Journal of Composite Materials, 2019, 53, 1241-1253.	2.4	8
24	Damage Behavior of Hemp Fiber Reinforced Poly(L-Lactic Acid) Composites under Fatigue Loading. Journal of Solid Mechanics and Materials Engineering, 2013, 7, 317-323.	0.5	7
25	The effect of long-term exposure to high temperature atmosphere on weight change and damage progress in carbon fiber-reinforced polycyanate ester composites. Advanced Composite Materials, 2014, , 1-16.	1.9	7
26	Effect of drawing condition on mechanical properties and molecular orientation of self-reinforced poly(lactic acid) screws. Advanced Composite Materials, 2015, 24, 91-103.	1.9	7
27	The Effect of Hydrolysis on the Mechanical Properties of Injection-Molded Poly(L-lactic acid). Journal of Solid Mechanics and Materials Engineering, 2008, 2, 8-14.	0.5	6
28	Mechanical properties and fracture behavior of nonwoven fabric reinforced plastics for rehabilitation of sewage pipes. Advanced Composite Materials, 2012, 21, 413-423.	1.9	6
29	Effect of long-term high-temperature atmospheric exposure on damage progress and mechanical properties for carbon fiber/polycyanate 90Â° unidirectional composites. Advanced Composite Materials, 2015, 24, 105-123.	1.9	6
30	Effect of compatibilizing agent on the fiber-matrix adhesion and mechanical properties of lignocellulose fiber reinforced polyolefin. Advanced Composite Materials, 2020, 29, 377-387.	1.9	6
31	Transverse properties of hemp/PLA composite fabricated with micro-braiding technique. Advanced Composite Materials, 2015, 24, 509-518.	1.9	5
32	Biodegradation and Mechanical Properties of Poly(lactic acid)/Poly(butylene succinate) Blends. Journal of Solid Mechanics and Materials Engineering, 2008, 2, 15-24.	0.5	4
33	Interfacial Shear Strength Evaluation of Jute/Poly(Lactic Acid). Journal of Solid Mechanics and Materials Engineering, 2009, 3, 1063-1070.	0.5	4
34	Biodegradation of Poly(lactic acid)/ Poly(butylene succinate) Polymer Blends. Journal of Environment and Engineering, 2011, 6, 861-868.	0.2	4
35	Effect ofin vitrohydrolysis on the compressive behavior and strain rates dependence of tricalcium phosphate/poly(L-lactic acid) composites. Advanced Composite Materials, 2013, 22, 1-11.	1.9	4
36	Prediction of stress-strain curves for TCP/PLLA composites: effect of hydrolysis and strain rate. Advanced Composite Materials, 2015, 24, 125-136.	1.9	4

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37	Effect of long-term thermo-oxidative aging on weight and fracture toughness of polycyanate neat resin. Advanced Composite Materials, 2016, 25, 471-485.	1.9	4
38	Accelerated thermo-oxidative aging for carbon fiber reinforced polycyanate under high pressure atmosphere. Advanced Composite Materials, 2017, 26, 451-464.	1.9	4
39	Parametric modeling of sports prostheses based on the flat spring design formulas. Journal of Biomechanical Science and Engineering, 2020, 15, 19-00446-19-00446.	0.3	4
40	AE Characterization of Fracture Behavior in Bioceramics under Simulated Body Environment. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2003, 46, 348-352.	0.4	3
41	Effect of Heat Treatment on Mechanical and Fracture Properties of Poly (lactic acid)/Poly (butylene) Tj ETQq1 1 0.784314 rgBT /Overlock Mechanical Engineers, Part A, 2007, 73, 589-594.	0.2	3
42	Effects of Crystallinity on the Mechanical Properties of TCP/PLLA Composites. Journal of Solid Mechanics and Materials Engineering, 2008, 2, 1232-1241.	0.5	3
43	Influence of molecular chain behavior on mechanical properties of poly-L-lactic acid by molecular dynamics method. Advanced Composite Materials, 2019, 28, 577-589.	1.9	3
44	Effect of embedded SMA fibers on the damage progress in composite laminate. Journal of Materials Science Letters, 2001, 20, 1139-1141.	0.5	2
45	Effect of Strain Rate on the Mechanical Properties of Crystallized Poly(L-lactide). Journal of Biomechanical Science and Engineering, 2008, 3, 453-460.	0.3	2
46	Experimental and numerical characterization of resin impregnation behavior in textile composites fabricated with micro-braiding technique. Mechanical Engineering Journal, 2014, 1, SMM0031-SMM0031.	0.4	2
47	Effects of initial crystallinity and molecular orientation on hydrolysis and mechanical properties of self-reinforced poly(lactic acid) screws. Mechanical Engineering Journal, 2016, 3, 15-00629-15-00629.	0.4	2
48	Experimental characterization of damage behavior in polycyanate CFRP laminates under high temperature atmospheric exposure. Advanced Composite Materials, 2016, 25, 229-251.	1.9	2
49	Effect of extrusion drawing and twist-orientation on mechanical properties of self-reinforced poly(lactic acid) screws. Advanced Composite Materials, 2016, 25, 443-456.	1.9	2
50	Fracture behavior of wasted activated carbon powder composites. Advanced Composite Materials, 2016, 25, 375-384.	1.9	2
51	Effect of Process Parameters on Mechanical Properties of 3D Printed Continuous Carbon Fiber Reinforced Composites. Journal of the Japan Society for Composite Materials, 2019, 45, 135-140.	0.2	2
52	AE Monitoring of Microdamages in Bioceramics for Artificial Joints under Simulated Body Environment. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2006, 49, 11-14.	0.4	1
53	Mechanical Properties of Plain Woven CFRP Laminates at Intermediate Strain Rate. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2009, 75, 1359-1367.	0.2	1
54	Degradation Properties of PLA/PBSU Polymer Blend Films. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2010, 76, 1514-1519.	0.2	1

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55	Effect of Lamination Thickness on the Damage Bahavior in FW-CFRP Composite Pipes Subjected to Out-of Plane Loading. Journal of the Japan Society for Composite Materials, 2010, 36, 138-150.	0.2	1
56	Effects of MgO addition on sintering of calcium phosphate ceramics and composites. Advanced Composite Materials, 2015, 24, 137-146.	1.9	1
57	Effect of phosphorous ion implantation on the mechanical properties and bioactivity of hydroxyapatite. Journal of Materials Science: Materials in Medicine, 2015, 26, 5351.	3.6	1
58	Effect of surface modification of Î²-tricalcium phosphate on mechanical properties of poly(L-lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.9	1
59	Effect of interphase properties on fracture behavior of TCP/PLA composites. Advanced Composite Materials, 2016, 25, 95-104.	1.9	1
60	Pulse electric current sintering of hydroxyapatite/Î²-tricalcium phosphate composites. Advanced Composite Materials, 2016, 25, 557-565.	1.9	1
61	Effect of argon ion-implantation on mechanical and degradation properties of bulk-shaped poly(lactic) Tj ETQq1 1 0.784314 rgBT /Ov	0.3	1
62	Analysis of orientation behavior in poly(lactic acid) billets during extrusion using a finite element method and chain network model. Mechanical Engineering Journal, 2019, 6, 19-00346-19-00346.	0.4	1
63	Effect of Ca or Mg ion irradiation on the bioactivity and strength of hydroxyapatite. Journal of Biomechanical Science and Engineering, 2018, 13, 18-00036-18-00036.	0.3	1
64	Effect of bioactivation through acid/alkali process on the flexure strength of zirconia-based ceramics and composites. Advanced Composite Materials, 2022, 31, 552-563.	1.9	1
65	Analysis of orientation behavior in extruded tricalcium phosphate/poly(lactic acid) composite billet using finite element method and chain network model. Mechanical Engineering Journal, 2021, 8, .	0.4	0
66	Gait assist brace with double carbon fiber reinforced plastic spring blades to allow ankle joint movement and change in walking direction. Advanced Robotics, 2021, 35, 927-938.	1.8	0
67	Effect of Matrix Resin Characteristics on the Fracture Behavior for Plain-Woven Carbon Fiber Reinforced Plastics fabricated by Vacuum Assisted Resin Transfer Molding. Advanced Composite Materials, 0, , 1-14.	1.9	0
68	Evaluation of Bending Strength of Ceramic Matrix Textile. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2002, 2002, 111-112.	0.0	0
69	236 Experimental Characterization of Thermal Shock Fracture Behavior in Ceramic Materials. The Proceedings of the JSME Materials and Processing Conference (M&P), 2002, 10.2, 291-296.	0.1	0
70	238 AE Characterization of Fracture Behavior in Bioceramics under Simulated Body Environment. The Proceedings of the JSME Materials and Processing Conference (M&P), 2002, 10.2, 303-306.	0.1	0
71	Evaluation of Intralaminar Fracture Toughness of CFRP Laminates. The Proceedings of the JSME Annual Meeting, 2003, 2003.1, 349-350.	0.0	0
72	Effects of Fiber Surface Morphology on Fiber/Matrix Interfacial Tensile Strength. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2003, 2003, 107-108.	0.0	0

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73	OS20-8 Effect of Ion Irradiation on Bioactivity of Hydroxyapatite(Experimental biomechanics and) Tj ETQq1 1 0.784314 rgBT /Overloc of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 258.	0.0	0
74	Mechanical Property Prediction of Self-reinforced Poly(lactic acid) Screw with Analytical and Experimental Approaches. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J0450103.	0.0	0
75	Influence of Molecular Chain Behavior on Mechanical Properties of Poly-L-lactic Acid by Molecular Dynamics Method. Journal of the Japan Society for Composite Materials, 2019, 45, 34-40.	0.2	0
76	Residual Internal Pressure Strength Evaluation of Composite Pipes Subjected to Out-of-Plane Impact Loading using Finite Element Method Making Research. The Proceedings of the Materials and Processing Conference, 2019, 2019.27, 304.	0.0	0
77	Characterization of Damage Behavior in Cross Ply Carbon Fiber Reinforced Plastic Laminates with a Notch Subjected to Tensile Load. The Proceedings of the Materials and Processing Conference, 2019, 2019.27, 303.	0.0	0
78	Degradation and its theoretical evaluation of poly(lactic acid) under simulated body environment (Changes in molecular weight and crystallinity). Transactions of the JSME (in Japanese), 2019, 85, 19-00247-19-00247.	0.2	0
79	Effect of Curing Conditions on Strength for CFRP Single Lap Adhesive Joint Using Epoxy Resin Adhesive. Journal of the Japan Society for Composite Materials, 2019, 45, 91-97.	0.2	0
80	Effect of Molding Condition on the Resin Impregnation and Mechanical Properties of Plain-Woven Carbon Fabric Reinforced Thermoplastic Polyimide Composites. Journal of the Japan Society for Composite Materials, 2019, 45, 236-241.	0.2	0
81	Characterization of Splitting Growth Behavior in Unidirectional Carbon Fiber Reinforced Plastic Laminates with a Notch Subjected to Fatigue Load. Journal of the Japan Society for Composite Materials, 2020, 46, 39-45.	0.2	0
82	Residual Internal Pressure Strength Evaluation of Composite Vessels Subjected to Out-of-Plane Impact Loading using Plate Specimens. The Proceedings of the Materials and Processing Conference, 2020, 2020.28, 105.	0.0	0
83	Evaluation of Weak Bonds in the Interface of a Single Lap Joint for Carbon-Fiber Reinforced Plastic Adherends Using Acoustic Emission Measurement. Journal of the Japan Society for Composite Materials, 2020, 46, 137-142.	0.2	0
84	Fracture analysis of A6063-T6 materials used as liner of composite overwrapped and type I pressure vessels under internal pressure. Advanced Composite Materials, 0, , 1-13.	1.9	0