

Hitoshi Takagi

List of Publications by Year in descending order

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107
papers

2,680
citations

257101

24
h-index

189595

50
g-index

110
all docs

110
docs citations

110
times ranked

2868
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of alkali treatment on interfacial bonding in abaca fiber-reinforced composites. Composites Part A: Applied Science and Manufacturing, 2016, 90, 589-597.	3.8	278
2	Tensile and flexural properties of polylactic acid-based hybrid green composites reinforced by kenaf, bamboo and coir fibers. Industrial Crops and Products, 2016, 94, 562-573.	2.5	254
3	Polylactic acid (PLA) biocomposites reinforced with coir fibres: Evaluation of mechanical performance and multifunctional properties. Composites Part A: Applied Science and Manufacturing, 2014, 63, 76-84.	3.8	248
4	Influence of alkali treatment on internal microstructure and tensile properties of abaca fibers. Industrial Crops and Products, 2015, 65, 27-35.	2.5	177
5	Effect of Fiber Length on Mechanical Properties of "Green" Composites Using a Starch-Based Resin and Short Bamboo Fibers. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2004, 47, 551-555.	0.4	156
6	Effects of processing conditions on flexural properties of cellulose nanofiber reinforced "green" composites. Composites Part A: Applied Science and Manufacturing, 2008, 39, 685-689.	3.8	154
7	Evaluation of epoxy resins synthesized from steam-exploded bamboo lignin. Industrial Crops and Products, 2013, 43, 757-761.	2.5	135
8	Strength evaluation of cross-ply green composite laminates reinforced by bamboo fiber. Composites Part B: Engineering, 2016, 84, 9-16.	5.9	101
9	Thermal conductivity of PLA-bamboo fiber composites. Advanced Composite Materials, 2007, 16, 377-384.	1.0	93
10	Effect of physicochemical structure of natural fiber on transverse thermal conductivity of unidirectional abaca/bamboo fiber composites. Composites Part A: Applied Science and Manufacturing, 2012, 43, 1234-1241.	3.8	82
11	Fabrication and applications of cellulose nanoparticle-based polymer composites. Polymer Engineering and Science, 2013, 53, 1-8.	1.5	77
12	Effect of lumen size on the effective transverse thermal conductivity of unidirectional natural fiber composites. Composites Science and Technology, 2012, 72, 633-639.	3.8	76
13	An overview on the cellulose based conducting composites. Composites Part B: Engineering, 2012, 43, 2822-2826.	5.9	65
14	Effect of chemical treatments on transverse thermal conductivity of unidirectional abaca fiber/epoxy composite. Composites Part A: Applied Science and Manufacturing, 2014, 66, 227-236.	3.8	51
15	Evaluation of transverse thermal conductivity of Manila hemp fiber in solid region using theoretical method and finite element method. Materials & Design, 2011, 32, 4586-4589.	5.1	41
16	Review of Functional Properties of Natural Fiber-Reinforced Polymer Composites: Thermal Insulation, Biodegradation and Vibration Damping Properties. Advanced Composite Materials, 2019, 28, 525-543.	1.0	41
17	Multi-response analysis in the material characterisation of electrospun poly (lactic acid)/halloysite nanotube composite fibres based on Taguchi design of experiments: fibre diameter, non-intercalation and nucleation effects. Applied Physics A: Materials Science and Processing, 2013, 112, 747-757.	1.1	36
18	Dependence of tensile properties of abaca fiber fragments and its unidirectional composites on the fragment height in the fiber stem. Composites Part A: Applied Science and Manufacturing, 2013, 45, 14-22.	3.8	36

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19	Sulfuric acid treatment of halloysite nanoclay to improve the mechanical properties of PVA/halloysite transparent composite films. <i>Composite Interfaces</i> , 2014, 21, 319-327.	1.3	32
20	Anisotropic thermal conductivity of unidirectional natural abaca fiber composites as a function of lumen and cell wall structure. <i>Composite Structures</i> , 2014, 108, 987-991.	3.1	30
21	Extraction of cellulose nanofiber from waste papers and application to reinforcement in biodegradable composites. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 1542-1546.	1.6	29
22	Bamboo fiber polypropylene composites: Effect of fiber treatment and nano clay on mechanical and thermal properties. <i>Journal of Vinyl and Additive Technology</i> , 2015, 21, 253-258.	1.8	28
23	Cellulose nanofiber aerogel production and applications. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 1547-1552.	1.6	27
24	4. ã, °ãfãf¼ãf³ã,³ãf³ãfã,ãfãfãfããããç”ç©ããæ-°ã±•é-«. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2006, 55, 438-444.	0.1	25
25	The potential use of electrospun polylactic acid nanofibers as alternative reinforcements in an epoxy composite system. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 618-623.	2.4	23
26	Polylactic Acid Reinforced with Mixed Cellulose and Chitin Nanofibersâ€”Effect of Mixture Ratio on the Mechanical Properties of Composites. <i>Journal of Composites Science</i> , 2018, 2, 36.	1.4	22
27	The Manufacture and Mechanical Properties of Composite Boards Made from Starch-Based Biodegradable Plastic and Bamboo Powder. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2003, 52, 357-361.	0.1	20
28	Effect of surface treatments on the mechanical properties of natural fiber textile composites made by VaRTM method. <i>Composite Interfaces</i> , 2014, 21, 329-336.	1.3	20
29	Preparation and properties of celluloseã€based nano composites of clay and polypropylene. <i>Journal of Applied Polymer Science</i> , 2012, 125, E651.	1.3	18
30	Cellulose nanofiber extraction from grass by a modified kitchen blender. <i>Modern Physics Letters B</i> , 2015, 29, 1540039.	1.0	18
31	Mechanical Properties of Heat-Treated Natural Fibers.. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2002, 51, 1164-1168.	0.1	16
32	SELF HEALING POTENTIAL OF GREEN NANOCOMPOSITES FROM CRYSTALLINE CELLULOSE. <i>International Journal of Modern Physics B</i> , 2011, 25, 4216-4219.	1.0	16
33	Flexural properties of cellulose nanofibre reinforced green composites. <i>Composites Part B: Engineering</i> , 2014, 58, 418-421.	5.9	16
34	Heat Barrier Properties of Green Composites. <i>Journal of Biobased Materials and Bioenergy</i> , 2012, 6, 470-474.	0.1	16
35	Tensile Properties of Manila Hemp Fabric Reinforced Cross-Ply "Green" Composites. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2003, 52, 916-921.	0.1	13
36	The Mechanical Properties of Bamboo Fibers Prepared by Steam-Explosion Method. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2003, 52, 353-356.	0.1	13

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37	Photo-electrochemical Deposition of Platinum on TiO ₂ with Resolution of Twenty Nanometers using a Mask Elaborated with Electron-Beam Lithography. Japanese Journal of Applied Physics, 2001, 40, 4246-4251.	0.8	12
38	Modified thermal resistance networks model for transverse thermal conductivity of unidirectional fiber composite. Composites Communications, 2017, 6, 52-58.	3.3	12
39	FLEXURAL STRENGTH AND IMPACT ENERGY OF MICROFIBRIL BAMBOO FIBER REINFORCED ENVIRONMENT-FRIENDLY COMPOSITES BASED ON POLY-LACTIC ACID RESIN. International Journal of Modern Physics B, 2011, 25, 4195-4198.	1.0	10
40	Mechanical Behavior of Starch-Based "Green" Composites Reinforced by Short MAO Fibers. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2002, 2002, 347-348.	0.0	9
41	Cellulose Nano-Fibers from Waste Newspaper. Journal of Biobased Materials and Bioenergy, 2012, 6, 115-118.	0.1	8
42	Characterization of "Green" Composites Reinforced by Cellulose Nanofibers. Key Engineering Materials, 2007, 334-335, 389-392.	0.4	7
43	Influence of Alkali Concentration on Morphology and Tensile Properties of Abaca Fibers. Advanced Materials Research, 0, 1110, 302-305.	0.3	7
44	Two-Directional TiNi Shape Memory Alloy Film. Advanced Engineering Materials, 2003, 5, 732-735.	1.6	6
45	Biodegradation Behavior of Unidirectional Fiber-Reinforced "Green" Composites. Zairyo/Journal of the Society of Materials Science, Japan, 2004, 53, 454-458.	0.1	6
46	Effect of Molding Conditions on Mechanical Properties of Binderless Bamboo Fiber Green Composite. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2008, 74, 84-89.	0.2	6
47	FLEXURAL PROPERTIES OF INJECTION-MOLDED BAMBOO/PBS COMPOSITES. International Journal of Modern Physics B, 2010, 24, 2838-2843.	1.0	6
48	Effect of Heat-Treatment on Mechanical Properties of Biodegradable Composites Reinforced by Bamboo Fibers and Manila Hemp Fibers. Zairyo/Journal of the Society of Materials Science, Japan, 2004, 53, 673-677.	0.1	5
49	Mechanical properties of urethane diacrylate/bamboo powder composite fabricated by rapid prototyping system. Rapid Prototyping Journal, 2016, 22, 676-683.	1.6	5
50	A Study of Dynamic Mass Damper with Shape Memory Alloy (Modelling for Hysteretic Damping). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2005, 71, 2863-2869.	0.2	4
51	Mechanical and Biodegradation Behavior of Natural Fiber Composites. Advanced Materials Research, 2010, 123-125, 1163-1166.	0.3	4
52	Strength Properties of Cellulose Nanofiber Green Composites. Key Engineering Materials, 2011, 462-463, 576-581.	0.4	4
53	Mechanical Characterization of Bamboo Fiber-Reinforced Green Composites. Key Engineering Materials, 0, 577-578, 81-84.	0.4	4
54	Mechanical properties of heat-treated cellulose nanofiber-reinforced polyvinyl alcohol nanocomposite. Journal of Composite Materials, 2017, 51, 1971-1977.	1.2	4

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55	Nanosized nickel decorated sisal fibers with tailored aggregation structures for catalysis reduction of toxic aromatic compounds. <i>Industrial Crops and Products</i> , 2018, 119, 226-236.	2.5	4
56	The Processing and Mechanical Performance of Cellulose Nanofiber-based Composites. <i>International Journal of Ocean System Engineering</i> , 2011, 1, 180-184.	0.3	4
57	Track/vehicle system identification by a revised group method of data handling (GMDH). <i>International Journal of Systems Science</i> , 1985, 16, 131-144.	3.7	3
58	Microstructure and Hardness of Ni-NiO Composites Prepared by Powder Metallurgy.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 1995, 61, 1933-1939.	0.2	3
59	Mechanical Properties of "Green" Composites Made from Starch-Based Biodegradable Resin and Bamboo Powder. , 2004, , 33-38.		3
60	Strength and Fracture Behavior of Abaca Green Composites. <i>Advanced Materials Research</i> , 2011, 275, 247-250.	0.3	3
61	Effect of Lumen Size on Transverse Thermal Conductivity of Unidirectional Natural Fiber-Polymer Composite via Finite Element Method. <i>Materials Science Forum</i> , 0, 675-677, 431-434.	0.3	3
62	The characteristics of unidirectional solidified Ni-Al-Mo alloys. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012, 43, 416-420.	0.5	3
63	Effect of Acid Treatment on Mechanical Performance of Polyvinyl Alcohol/Halloysite Nanocomposites. <i>Key Engineering Materials</i> , 0, 627, 113-116.	0.4	3
64	Dispersion of Nanocellulose (NC) in Polypropylene (PP) and Polyethylene (PE) Matrix. , 2015, , 179-189.		3
65	Influence of Alkali Treatment on Mechanical Properties of Poly Lactic Acid Bamboo Fiber Green Composites. <i>Advanced Materials Research</i> , 0, 1110, 56-59.	0.3	3
66	Easy cellulose nanofiber extraction from residue of agricultural crops. <i>International Journal of Modern Physics B</i> , 2018, 32, 1840080.	1.0	3
67	Fabrication of strong macrofibers from plant fiber bundles. <i>International Journal of Modern Physics B</i> , 2021, 35, 2140005.	1.0	3
68	Discontinuous Yielding and Acoustic Emission in Al-Li-Cu-Mg-Zr Alloy. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1996, 60, 809-815.	0.2	3
69	Development of High-Strength Cross-Ply "Green" Composites. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2003, 52, 857-862.	0.1	3
70	Mechanical Properties of Binder-Free Green Composite Using Bamboo Fibers. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2009, 58, 362-367.	0.1	3
71	Enhancement in Mechanical Properties of Bamboo by Press Forming. <i>Materials Science Forum</i> , 0, 675-677, 647-650.	0.3	2
72	Fiber Orientation Control by Stretching in Cellulose Nanofiber Green Composites. <i>Key Engineering Materials</i> , 0, 754, 135-138.	0.4	2

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73	Effect of mixing ratio on mechanical properties of mixture of chitin nanofibers and microfibrillated cellulose reinforced PVA hybrid nanocomposites. <i>Materials Express</i> , 2021, 11, 1523-1533.	0.2	2
74	Enhanced Mechanical Properties of Press-Formed Japanese Timber Bamboo. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2008, 57, 461-466.	0.1	2
75	Effect of Aging on Acoustic Emission Behaviour During Tensile Deformation of an Al-Li-Cu-Mg-Zr Alloy. <i>JSME International Journal, Series 1: Solid Mechanics, Strength of Materials</i> , 1990, 33, 362-366.	0.2	1
76	Dislocation Creep and Substructure of Ni-NiO Alloy.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 1991, 57, 2422-2426.	0.2	1
77	Effect of NiO Content on Mechanical Properties of Ni-NiO Composites Prepared by Powder Metallurgy.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 1996, 62, 299-305.	0.2	1
78	Effects of Thermal Shock on Mechanical Properties of Bamboo/PBS Green Composites. <i>Advanced Materials Research</i> , 2010, 123-125, 1135-1138.	0.3	1
79	Mechanical Behavior of Environment-Friendly Green Composites Fabricated with Starch-Based Resin and Short MAO Fibers. <i>Key Engineering Materials</i> , 0, 452-453, 313-316.	0.4	1
80	Study on Fracture Behaviors of Injection-Molded Bamboo Fiber/PBS Composites. <i>Key Engineering Materials</i> , 0, 452-453, 229-232.	0.4	1
81	Recycling Technology for Grinding Swarf: Application to Iron Powder for Disposable Body Warmer. <i>Applied Mechanics and Materials</i> , 2011, 121-126, 1535-1539.	0.2	1
82	BAMBOO FIBER REINFORCED BINDERLESS GREEN COMPOSITES FROM STEAM-EXPLODED BAMBOO POWDER. <i>International Journal of Modern Physics Conference Series</i> , 2012, 06, 739-744.	0.7	1
83	EFFECT OF MOLDING CONDITIONS ON ADHESIVE PROPERTY OF LAMINATED BAMBOO COMPOSITES. <i>International Journal of Modern Physics Conference Series</i> , 2012, 06, 768-773.	0.7	1
84	Shear Strength Evaluation of Laminated Binderless Bamboo Composites. <i>Materials Science Forum</i> , 2013, 750, 108-111.	0.3	1
85	Development of green nanocomposites reinforced by cellulose nanofibers extracted from paper sludge. <i>Modern Physics Letters B</i> , 2015, 29, 1540025.	1.0	1
86	Thermal and mechanical properties of copper/photopolymer composite. <i>Rapid Prototyping Journal</i> , 2016, 22, 684-690.	1.6	1
87	Current Status and Future Prospects of Biocomposites. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2010, 59, 881-886.	0.1	1
88	STRUCTURAL MODIFICATION OF CELLULOSE NANOCOMPOSITES BY STRETCHING. , 2017, , ,		1
89	Effect of aging on the acoustic emission behaviour during tensile deformation of a Al-Li-Cu-Mg-Zr alloy.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 1989, 55, 1063-1066.	0.2	0
90	Fatigue crack initiation and growth of Cu-Al-Ni shape-memory alloys.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 1990, 56, 2369-2373.	0.2	0

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91	Creep rupture behavior in particle-strengthened Ni-NiO eutectic alloys.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1990, 56, 1417-1420.	0.2	0
92	Mechanical Properties and AE Behavior of Particle-Dispersed Nickel-Base Alloys Prepared by Powder Metallurgy.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1993, 59, 1313-1318.	0.2	0
93	Acoustic emission behavior during tensile deformation of Ni3Al intermetallic compound. Intermetallics, 1998, 6, 1-5.	1.8	0
94	Strength and Fracture of Unidirectional Green Composites Reinforced by Hemp Fiber. Key Engineering Materials, 0, 417-418, 89-92.	0.4	0
95	Fracture and Damage Characterization of Natural Fiber Composites. Key Engineering Materials, 2012, 525-526, 65-68.	0.4	0
96	Evaluation of Mechanical Property for JFRP (Jute Fiber Reinforced Plastic). Journal of Biobased Materials and Bioenergy, 2013, 7, 477-480.	0.1	0
97	Enhanced Functional Properties of Natural Fiber-Reinforced Composites. Advanced Materials Research, 0, 845, 306-310.	0.3	0
98	Fabrication and Performance Evaluation of Cellulose Nanofiber/PVA Composite Films. Advanced Materials Research, 0, 1110, 40-43.	0.3	0
99	Preparation and Characterization of Halloysite Nanocomposites by Rapid Prototyping Technology. Key Engineering Materials, 0, 665, 61-64.	0.4	0
100	Development and characterization of thermoset green composites reinforced by unidirectional abaca fibers. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2016, 230, 934-938.	0.7	0
101	Powder forming for ground chips of bearing steel. The Proceedings of the JSME Annual Meeting, 2000, 2000.3, 457-458.	0.0	0
102	High Temperature Strength of Structure-Controlled Ni-Al-Mo In-Situ Composites. Zairyo/Journal of the Society of Materials Science, Japan, 2003, 52, 838-842.	0.1	0
103	Sintering for Grinding Swarf of Bearing Steel by Pulsed Electric Current Sintering. Zairyo/Journal of the Society of Materials Science, Japan, 2003, 52, 863-866.	0.1	0
104	715 A Design Method of Semi Active Mass Damper with Super Elasticity Materials. The Proceedings of Conference of Chugoku-Shikoku Branch, 2005, 2005.43, 265-266.	0.0	0
105	Present States and Technical Issues on Recycling of Grinding Swarf. Journal of the Japan Society for Precision Engineering, 2006, 72, 551-554.	0.0	0
106	Materials Technology in Bio-Based Composites. Seikei-Kakou, 2012, 24, 449-454.	0.0	0
107	Effect of microstructure on multifunctional properties of natural fiber composites. , 0, , .		0