

Kheng Lim Goh

List of Publications by Year in descending order

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108
papers

2,456
citations

185998

28
h-index

233125

45
g-index

115
all docs

115
docs citations

115
times ranked

2288
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial Studies of Natural Fiber-Reinforced Particulate Thermoplastic Composites and Their Mechanical Properties. <i>Journal of Natural Fibers</i> , 2022, 19, 2299-2326.	1.7	12
2	Sustainable biocomposite development using halloysite nanotubes and polylactic acid. , 2022, , 245-264.		0
3	Modulation of interfacial interactions toward strong and tough cellulose nanofiber-based transparent thin films with antifogging feature. <i>Carbohydrate Polymers</i> , 2022, 278, 118974.	5.1	13
4	Impact of fiber length on mechanical, morphological and thermal analysis of chemical treated jute fiber polymer composites for sustainable applications. <i>Current Research in Green and Sustainable Chemistry</i> , 2022, 5, 100241.	2.9	40
5	Effect of fiber stacking sequence and orientation on quasi- static indentation properties of sustainable hybrid carbon/ramie fiber epoxy composites. <i>Current Research in Green and Sustainable Chemistry</i> , 2022, 5, 100284.	2.9	21
6	Characterization of <i>Cocos nucifera</i> L. peduncle fiber reinforced polymer composites for lightweight sustainable applications. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	29
7	Intralaminar crack propagation of glass fiber reinforced composite laminate. <i>Structures</i> , 2022, 41, 787-803.	1.7	17
8	Dataset on transcriptome signature of skeletal muscle of young, adult and aged mice. <i>Data in Brief</i> , 2022, 43, 108321.	0.5	0
9	Sustainable design of flexible 3D aerogel from waste PET bottle for wastewater treatment to energy harvesting device. <i>Chemical Engineering Journal</i> , 2021, 413, 127409.	6.6	37
10	Analyzing size effects in a cracked orthotropic layer under antiplane shear loading. <i>Archive of Applied Mechanics</i> , 2021, 91, 1097-1112.	1.2	1
11	Mechanical testing of glutaraldehyde cross-linked mitral valves. Part one: In vitro mechanical behaviour. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021, 235, 281-290.	1.0	3
12	Mechanical testing of glutaraldehyde cross-linked mitral valves. Part two: Elastic and viscoelastic properties of chordae tendineae. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021, 235, 291-299.	1.0	2
13	Dataset on open/blind hole-hole interaction in barely visible impact damaged composite laminates. <i>Data in Brief</i> , 2021, 34, 106607.	0.5	6
14	Capsule based self-healing composites: New insights on mechanical behaviour based on finite element analysis. <i>Computational Materials Science</i> , 2021, 192, 110203.	1.4	12
15	Dual-energy x-ray approach for object/energy-specific attenuation coefficient correction in single-photon emission computed tomography: effects of contrast agent. <i>Journal of Medical Imaging</i> , 2021, 8, 052106.	0.8	2
16	Fluidization of fungal pellets in a 3D-printed micro-fluidized bed. <i>Chemical Engineering Science</i> , 2021, 236, 116466.	1.9	12
17	Effect of Mercerization/Alkali Surface Treatment of Natural Fibres and Their Utilization in Polymer Composites: Mechanical and Morphological Studies. <i>Journal of Composites Science</i> , 2021, 5, 175.	1.4	33
18	Post-process optimization of 3D printed poly(lactic-co-glycolic acid) dental implant scaffold for enhanced structure and mechanical properties: effects of sonication duration and power. <i>Journal of Materials Science: Materials in Medicine</i> , 2021, 32, 91.	1.7	2

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19	The separation of oily water using low-cost natural materials: Review and development. <i>Chemosphere</i> , 2021, 285, 131398.	4.2	19
20	Determination of Static and Dynamic Young's Modulus of A Cantilever Beam using Digital Image Correlation (DIC) Method. , 2021, , .		0
21	The rise of short fibre reinforced plastics. <i>Reinforced Plastics</i> , 2020, 64, 97-102.	0.5	5
22	Mechanical properties of low-velocity impact damaged carbon fibre reinforced polymer laminates: Effects of drilling holes for resin-injection repair. <i>Composite Structures</i> , 2020, 235, 111806.	3.1	28
23	Current understanding of interfacial stress transfer mechanisms in connective tissue. , 2020, , 529-549.		0
24	Performance of 3D printed poly(lactic acid)/halloysite nanocomposites. , 2020, , 251-267.		2
25	Electrospun chitosan/polyethylene-oxide (PEO)/halloysites (HAL) membranes for bone regeneration applications. <i>Applied Clay Science</i> , 2020, 190, 105601.	2.6	59
26	The Other Connective Tissue: Echinoderm Ligaments and Membranes as Decellularized Bioscaffold for Tissue Engineering. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019, , 309-327.	0.7	0
27	Cost-effective microvalve-assisted bioprinter for tissue engineering. <i>Bioprinting</i> , 2019, 13, e00043.	2.9	12
28	The equilibrium and fixed-bed study of malachite green adsorption on chitosan hydrogels. <i>Water Science and Technology</i> , 2019, 79, 1571-1579.	1.2	4
29	Dataset on mechanical properties of damaged fibre composite laminates with drilled vent-holes for resin-injection repair procedure. <i>Data in Brief</i> , 2019, 24, 103912.	0.5	7
30	A Fresh Look at Designing Open-cage Nanostructures. <i>Current Nanomaterials</i> , 2019, 3, 190-191.	0.2	0
31	Functionalized Graphene-Based Nanocomposites for Energy Applications. , 2019, , 219-243.		30
32	Natural fiber-reinforced polymer composites. , 2019, , 51-73.		13
33	Characteristics of Johorean <i>Elaeis guineensis</i> oil palm kernel shells. , 2019, , 75-86.		2
34	Cost-effective and efficient resin-injection device for repairing damaged composites. <i>Reinforced Plastics</i> , 2019, 63, 156-160.	0.5	12
35	Dataset on structure and mechanical properties of electrospun polyacrylonitrile nanofibrous mesh reinforced by halloysite nanotubes. <i>Data in Brief</i> , 2018, 21, 2170-2178.	0.5	3
36	Direct measurement of the elasticity and fracture properties of electrospun polyacrylonitrile/halloysite fibrous mesh in water. <i>Polymer Testing</i> , 2018, 72, 11-23.	2.3	8

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37	Age-related dataset on the mechanical properties and collagen fibril structure of tendons from a murine model. <i>Scientific Data</i> , 2018, 5, 180140.	2.4	6
38	Tensile strength of partially filled FFF printed parts: experimental results. <i>Rapid Prototyping Journal</i> , 2017, 23, 122-128.	1.6	45
39	Tensile strength of partially filled FFF printed parts: meta modelling. <i>Rapid Prototyping Journal</i> , 2017, 23, 524-533.	1.6	17
40	Digital image analysis protocol for determining the radiocarpal joint space in the rheumatoid arthritic wrist. <i>Computers in Biology and Medicine</i> , 2017, 89, 127-134.	3.9	3
41	Probing the hydrophilicity of coir fibres: analysis of the mechanical properties of single coir fibres. <i>Procedia Engineering</i> , 2017, 200, 206-212.	1.2	11
42	Oil Palm Empty Fruit Bunch Fibres and Biopolymer Composites: Possible Effects of Moisture on the Elasticity, Fracture Properties and Reliability. <i>Green Energy and Technology</i> , 2017, , 271-291.	0.4	5
43	Discontinuous-Fibre Reinforced Composites. <i>Engineering Materials and Processes</i> , 2017, , .	0.2	11
44	Physical Properties of Fibres and Matrix. <i>Engineering Materials and Processes</i> , 2017, , 21-48.	0.2	1
45	Mechanics of Elastic Stress Transfer. <i>Engineering Materials and Processes</i> , 2017, , 49-76.	0.2	0
46	Fibre Debonding, Matrix Yielding and Cracks. <i>Engineering Materials and Processes</i> , 2017, , 77-97.	0.2	0
47	Mechanics of Plastic Stress Transfer. <i>Engineering Materials and Processes</i> , 2017, , 99-121.	0.2	0
48	Composite Fracture. <i>Engineering Materials and Processes</i> , 2017, , 123-148.	0.2	0
49	Gearless Wankel-like pump/mixer: Design challenges and prospects. , 2017, , .		1
50	Magnesium Oxide Nanoparticles Reinforced Electrospun Alginate-Based Nanofibrous Scaffolds with Improved Physical Properties. <i>International Journal of Biomaterials</i> , 2017, 2017, 1-9.	1.1	55
51	Collagenous Extracellular Matrix Biomaterials for Tissue Engineering: Lessons from the Common Sea Urchin Tissue. <i>International Journal of Molecular Sciences</i> , 2017, 18, 901.	1.8	40
52	A Comparative Analysis of the Reinforcing Efficiency of Silsesquioxane Nanoparticles versus Apatite Nanoparticles in Chitosan Biocomposite Fibres. <i>Journal of Composites Science</i> , 2017, 1, 9.	1.4	5
53	Development of a novel mechanical tester for microfracture analysis. <i>Malaysian Journal of Fundamental and Applied Sciences</i> , 2017, 13, 470-476.	0.4	3
54	A simple portable low-pressure healant-injection device for repairing damaged composite laminates. <i>International Journal of Mechanical Engineering Education</i> , 2017, 45, 360-375.	0.6	10

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55	Reinforcing by Fibres. Engineering Materials and Processes, 2017, , 1-19.	0.2	0
56	Mixing Simulations of a Wankel Pump as a Micromixer. , 2016, , .		0
57	Electrospun functionalized polyacrylonitrile-chitosan Bi-layer membranes for water filtration applications. RSC Advances, 2016, 6, 53882-53893.	1.7	68
58	Development of a two-stage Lau-Wan Wankel pump/mixer. International Journal of Mechanical Engineering Education, 2016, 44, 97-112.	0.6	3
59	Fast Deviation Simulation for Fused Deposition Modeling™ Process. Procedia CIRP, 2016, 43, 327-332.	1.0	36
60	Design module for the industry design and development of a novel gearless Wankel-like mixer-pump: The Lau-Wan mixer. International Journal of Mechanical Engineering Education, 2016, 44, 220-232.	0.6	3
61	A facile method for processing lignin reinforced chitosan biopolymer microfibres: optimising the fibre mechanical properties through lignin type and concentration. Materials Research Express, 2016, 3, 035301.	0.8	31
62	Influence of the processing methods on the properties of poly(lactic acid)/halloysite nanocomposites. Polymer Composites, 2016, 37, 861-869.	2.3	37
63	Effects of fibre-fibre interaction on stress uptake in discontinuous fibre reinforced composites. Composites Part B: Engineering, 2016, 86, 221-228.	5.9	20
64	Resolving the viscoelasticity and anisotropy dependence of the mechanical properties of skin from a porcine model. Biomechanics and Modeling in Mechanobiology, 2016, 15, 433-446.	1.4	25
65	Consequences of Ultra-Violet Irradiation on the Mechanical Properties of Spider Silk. Journal of Functional Biomaterials, 2015, 6, 901-916.	1.8	12
66	How Sensitive Is the Elasticity of Hydroxyapatite-Nanoparticle-Reinforced Chitosan Composite to Changes in Particle Concentration and Crystallization Temperature?. Journal of Functional Biomaterials, 2015, 6, 986-998.	1.8	7
67	Yarn Flax Fibres for Polymer-Coated Sutures and Hand Layup Polymer Composite Laminates. , 2015, , 155-175.		24
68	Stress transfer and fracture in nanostructured particulate-reinforced chitosan biopolymer composites: influence of interfacial shear stress and particle slenderness. Composite Interfaces, 2014, 21, 807-818.	1.3	18
69	SYNTHESIS AND CHARACTERISATION OF ELECTROSPUN CHITOSAN MEMBRANES REINFORCED BY HALLOYSITE NANOTUBES. Journal of Mechanics in Medicine and Biology, 2014, 14, 1450058.	0.3	40
70	Hierarchical Mechanics of Connective Tissues: Integrating Insights from Nano to Macroscopic Studies. Journal of Biomedical Nanotechnology, 2014, 10, 2464-2507.	0.5	74
71	Apoptosis in capillary endothelial cells in ageing skeletal muscle. Aging Cell, 2014, 13, 254-262.	3.0	77
72	A thermomechanical framework for reconciling the effects of ultraviolet radiation exposure time and wavelength on connective tissue elasticity. Biomechanics and Modeling in Mechanobiology, 2014, 13, 1025-1040.	1.4	14

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73	Synthesis and characterisation of poly (lactic acid)/halloysite bionanocomposite films. Journal of Composite Materials, 2014, 48, 3705-3717.	1.2	107
74	3-D computational model of poly (lactic acid)/halloysite nanocomposites: Predicting elastic properties and stress analysis. Polymer, 2014, 55, 6418-6425.	1.8	42
75	Elasticity, microstructure and thermal stability of foliage and fruit fibres from four tropical crops. Fibers and Polymers, 2013, 14, 623-629.	1.1	29
76	Physico-chemical characterisation of chitosan/halloysite composite membranes. Polymer Testing, 2013, 32, 265-271.	2.3	120
77	Finite Element Modeling of Copper Wire Bonding on a Stacked-Die in Semiconductor Devices. International Journal of Computer Theory and Engineering, 2013, , 924-927.	3.2	0
78	Bimodal collagen fibril diameter distributions direct age-related variations in tendon resilience and resistance to rupture. Journal of Applied Physiology, 2012, 113, 878-888.	1.2	79
79	Finite Element Analysis of Copper Wire Bonding in Integrated Circuit Devices. Advanced Materials Research, 2012, 566, 293-299.	0.3	3
80	Micromechanical Fibre-Recruitment Model of Liquid Crystalline Polymer Reinforcing Polycarbonate Composites. Advanced Structured Materials, 2012, , 85-106.	0.3	3
81	Age-Related Feature Extraction on Mouse Skeletal Muscle: Data Mining Approach. Journal of Medical Imaging and Health Informatics, 2012, 2, 386-392.	0.2	3
82	Magnetic Resonance Imaging of the Human Anterior Cruciate Ligament: Three-Dimensional Computer Reconstruction and Structural Analysis. Journal of Medical Imaging and Health Informatics, 2012, 2, 378-385.	0.2	1
83	Elasticity, thermal stability and bioactivity of polyhedral oligomeric silsesquioxanes reinforced chitosan-based microfibres. Journal of Materials Science: Materials in Medicine, 2011, 22, 1365-1374.	1.7	35
84	BIOMECHANICAL PROPERTIES OF EXTENSOR TENDON REPAIR USING THE SIX-STRAND SINGLE-LOOP SUTURE TECHNIQUE: A COMPARATIVE ANALYSIS WITH THREE OTHER TECHNIQUES IN CADAVERIC MODELS. Journal of Mechanics in Medicine and Biology, 2011, 11, 845-855.	0.3	4
85	Influence of fibre taper on the work of fibre pull-out in short fibre composite fracture. Journal of Materials Science, 2010, 45, 1086-1090.	1.7	29
86	DEFECT-DEFECT INTERACTION IN SINGLE-WALLED CARBON NANOTUBES UNDER TORSIONAL LOADING. International Journal of Modern Physics B, 2010, 24, 1215-1226.	1.0	18
87	Effects of frozen storage temperature on the elasticity of tendons from a small murine model. Animal, 2010, 4, 1613-1617.	1.3	47
88	Influence of Fibre Taper on the Interfacial Shear Stress in Fibre-Reinforced Composite Materials during Elastic Stress Transfer. Composite Interfaces, 2010, 17, 74-80.	1.3	27
89	Ageing Changes in the Tensile Properties of Tendons: Influence of Collagen Fibril Volume Fraction. Journal of Biomechanical Engineering, 2008, 130, 021011.	0.6	89
90	CROSS-SECTIONAL AREA MEASUREMENT OF SOFT TISSUES IN VITRO: A NON-CONTACT LASER SCAN METHOD. Journal of Mechanics in Medicine and Biology, 2008, 08, 353-361.	0.3	4

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91	Influence of hydroxyapatite crystallization temperature and concentration on stress transfer in wet-spun nanohydroxyapatite-chitosan composite fibres. <i>Biomedical Materials (Bristol)</i> , 2008, 3, 025014.	1.7	22
92	On defect interactions in axially loaded single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2008, 103, 054306.	1.1	28
93	Nano-Fibre Critical Length Depends on Shape. <i>Advanced Composites Letters</i> , 2008, 17, 096369350801700.	1.3	10
94	Significance of Age-related Variations in The Structure and Material Properties in Extra-cellular Matrices of Connective Tissues. <i>IFMBE Proceedings</i> , 2008, , 346-350.	0.2	0
95	Shear lag models for stress transfer from an elastic matrix to a fibre in a composite material. <i>International Journal of Materials and Structural Integrity</i> , 2007, 1, 180.	0.1	13
96	Stress transfer in collagen fibrils reinforcing connective tissues: Effects of collagen fibril slenderness and relative stiffness. <i>Journal of Theoretical Biology</i> , 2007, 245, 305-311.	0.8	68
97	Influence of fibril taper on the function of collagen to reinforce extracellular matrix. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 1979-1983.	1.2	35
98	Analysis of collagen fibril diameter distribution in connective tissues using small-angle X-ray scattering. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1722, 183-188.	1.1	42
99	Review: finite element analysis of stress transfer in short-fibre composite materials. <i>Composites Science and Technology</i> , 2004, 64, 1091-1100.	3.8	72
100	Finite element analysis of the effect of material properties and fibre shape on stresses in an elastic fibre embedded in an elastic matrix in a fibre composite material. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004, 460, 2339-2352.	1.0	38
101	Critical length of collagen fibrils in extracellular matrix. <i>Journal of Theoretical Biology</i> , 2003, 223, 259-261.	0.8	22
102	Spine Ergonomics. <i>Annual Review of Biomedical Engineering</i> , 2002, 4, 49-68.	5.7	214
103	Title is missing!. <i>Journal of Materials Science</i> , 2000, 35, 2493-2497.	1.7	28
104	Effect of fibre shape on the stresses within fibres in fibre-reinforced composite materials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1999, 455, 3351-3361.	1.0	34
105	Correction of energy-dependent systematic errors in dual-energy X-ray CT using a basis material coefficients transformation method. <i>IEEE Transactions on Nuclear Science</i> , 1997, 44, 2419-2424.	1.2	19
106	Energy-dependent systematic errors in dual-energy X-ray CT. <i>IEEE Transactions on Nuclear Science</i> , 1997, 44, 212-217.	1.2	13
107	Energy dependent systematic errors in dual-energy X-ray CT. , 0, , .		1
108	Structure-Property Relationship of Burn Collagen Reinforcing Musculo-Skeletal Tissues. <i>Key Engineering Materials</i> , 0, 478, 87-92.	0.4	5