

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	Spine Ergonomics. Annual Review of Biomedical Engineering, 2002, 4, 49-68.	5.7	214
2	Physico-chemical characterisation of chitosan/halloysite composite membranes. Polymer Testing, 2013, 32, 265-271.	2.3	120
3	Synthesis and characterisation of poly (lactic acid)/halloysite bionanocomposite films. Journal of Composite Materials, 2014, 48, 3705-3717.	1.2	107
4	Ageing Changes in the Tensile Properties of Tendons: Influence of Collagen Fibril Volume Fraction. Journal of Biomechanical Engineering, 2008, 130, 021011.	0.6	89
5	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
6	Apoptosis in capillary endothelial cells in ageing skeletal muscle. Aging Cell, 2014, 13, 254-262.	3.0	77
7	Hierarchical Mechanics of Connective Tissues: Integrating Insights from Nano to Macroscopic Studies. Journal of Biomedical Nanotechnology, 2014, 10, 2464-2507.	0.5	74
8	Review: finite element analysis of stress transfer in short-fibre composite materials. Composites Science and Technology, 2004, 64, 1091-1100.	3.8	72
9	Stress transfer in collagen fibrils reinforcing connective tissues: Effects of collagen fibril slenderness and relative stiffness. Journal of Theoretical Biology, 2007, 245, 305-311.	0.8	68
10	Electrospun functionalized polyacrylonitrile-chitosan Bi-layer membranes for water filtration applications. RSC Advances, 2016, 6, 53882-53893.	1.7	68
11	Electrospun chitosan/polyethylene-oxide (PEO)/halloysites (HAL) membranes for bone regeneration applications. Applied Clay Science, 2020, 190, 105601.	2.6	59
12	Magnesium Oxide Nanoparticles Reinforced Electrospun Alginate-Based Nanofibrous Scaffolds with Improved Physical Properties. International Journal of Biomaterials, 2017, 2017, 1-9.	1.1	55
13	Effects of frozen storage temperature on the elasticity of tendons from a small murine model. Animal, 2010, 4, 1613-1617.	1.3	47
14	Tensile strength of partially filled FFF printed parts: experimental results. Rapid Prototyping Journal, 2017, 23, 122-128.	1.6	45
15	Analysis of collagen fibril diameter distribution in connective tissues using small-angle X-ray scattering. Biochimica Et Biophysica Acta - General Subjects, 2005, 1722, 183-188.	1.1	42
16	3-D computational model of poly (lactic acid)/halloysite nanocomposites: Predicting elastic properties and stress analysis. Polymer, 2014, 55, 6418-6425.	1.8	42
17	SYNTHESIS AND CHARACTERISATION OF ELECTROSPUN CHITOSAN MEMBRANES REINFORCED BY HALLOYSITE NANOTUBES. Journal of Mechanics in Medicine and Biology, 2014, 14, 1450058.	0.3	40
18	Collagenous Extracellular Matrix Biomaterials for Tissue Engineering: Lessons from the Common Sea Urchin Tissue. International Journal of Molecular Sciences, 2017, 18, 901.	1.8	40

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Influence of the processing methods on the properties of poly(lactic acid)/halloysite nanocomposites. <i>Polymer Composites</i> , 2016, 37, 861-869.	2.3	37
22	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
23	Fast Deviation Simulation for Fused Deposition Modeling Process. <i>Procedia CIRP</i> , 2016, 43, 327-332.	1.0	36
24	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
25	Elasticity, thermal stability and bioactivity of polyhedral oligomeric silsesquioxanes reinforced chitosan-based microfibres. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1365-1374.	1.7	35
26	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
27	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
28	A facile method for processing lignin reinforced chitosan biopolymer microfibres: optimising the fibre mechanical properties through lignin type and concentration. <i>Materials Research Express</i> , 2016, 3, 035301.	0.8	31
29	Functionalized Graphene-Based Nanocomposites for Energy Applications. , 2019, , 219-243.		30
30	Influence of fibre taper on the work of fibre pull-out in short fibre composite fracture. <i>Journal of Materials Science</i> , 2010, 45, 1086-1090.	1.7	29
31	Elasticity, microstructure and thermal stability of foliage and fruit fibres from four tropical crops. <i>Fibers and Polymers</i> , 2013, 14, 623-629.	1.1	29
32	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
33	Title is missing!. <i>Journal of Materials Science</i> , 2000, 35, 2493-2497.	1.7	28
34	On defect interactions in axially loaded single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2008, 103, 054306.	1.1	28
35	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
36	Influence of Fibre Taper on the Interfacial Shear Stress in Fibre-Reinforced Composite Materials during Elastic Stress Transfer. <i>Composite Interfaces</i> , 2010, 17, 74-80.	1.3	27

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37	Resolving the viscoelasticity and anisotropy dependence of the mechanical properties of skin from a porcine model. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 433-446.	1.4	25
38	Yarn Flax Fibres for Polymer-Coated Sutures and Hand Layup Polymer Composite Laminates. , 2015, , 155-175.		24
39	Critical length of collagen fibrils in extracellular matrix. <i>Journal of Theoretical Biology</i> , 2003, 223, 259-261.	0.8	22
40	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
41	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
42	Effects of fibre-fibre interaction on stress uptake in discontinuous fibre reinforced composites. <i>Composites Part B: Engineering</i> , 2016, 86, 221-228.	5.9	20
43	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
44	The separation of oily water using low-cost natural materials: Review and development. <i>Chemosphere</i> , 2021, 285, 131398.	4.2	19
45	DEFECT-DEFECT INTERACTION IN SINGLE-WALLED CARBON NANOTUBES UNDER TORSIONAL LOADING. <i>International Journal of Modern Physics B</i> , 2010, 24, 1215-1226.	1.0	18
46	Stress transfer and fracture in nanostructured particulate-reinforced chitosan biopolymer composites: influence of interfacial shear stress and particle slenderness. <i>Composite Interfaces</i> , 2014, 21, 807-818.	1.3	18
47	Tensile strength of partially filled FFF printed parts: meta modelling. <i>Rapid Prototyping Journal</i> , 2017, 23, 524-533.	1.6	17
48	Intralaminar crack propagation of glass fiber reinforced composite laminate. <i>Structures</i> , 2022, 41, 787-803.	1.7	17
49	A thermomechanical framework for reconciling the effects of ultraviolet radiation exposure time and wavelength on connective tissue elasticity. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 1025-1040.	1.4	14
50	Energy-dependent systematic errors in dual-energy X-ray CT. <i>IEEE Transactions on Nuclear Science</i> , 1997, 44, 212-217.	1.2	13
51	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
52	Natural fiber-reinforced polymer composites. , 2019, , 51-73.		13
53	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
54	Consequences of Ultra-Violet Irradiation on the Mechanical Properties of Spider Silk. <i>Journal of Functional Biomaterials</i> , 2015, 6, 901-916.	1.8	12

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55	Cost-effective microvalve-assisted bioprinter for tissue engineering. <i>Bioprinting</i> , 2019, 13, e00043.	2.9	12
56	Cost-effective and efficient resin-injection device for repairing damaged composites. <i>Reinforced Plastics</i> , 2019, 63, 156-160.	0.5	12
57	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
58	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
59	Fluidization of fungal pellets in a 3D-printed micro-fluidized bed. <i>Chemical Engineering Science</i> , 2021, 236, 116466.	1.9	12
60	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
61	Discontinuous-Fibre Reinforced Composites. <i>Engineering Materials and Processes</i> , 2017, , .	0.2	11
62	Nano-Fibre Critical Length Depends on Shape. <i>Advanced Composites Letters</i> , 2008, 17, 096369350801700.	1.3	10
63	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
64	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
65	How Sensitive Is the Elasticity of Hydroxyapatite-Nanoparticle-Reinforced Chitosan Composite to Changes in Particle Concentration and Crystallization Temperature?. <i>Journal of Functional Biomaterials</i> , 2015, 6, 986-998.	1.8	7
66	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
67	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
68	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
69	Structure-Property Relationship of Burn Collagen Reinforcing Musculo-Skeletal Tissues. <i>Key Engineering Materials</i> , 0, 478, 87-92.	0.4	5
70	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
71	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
72	The rise of short fibre reinforced plastics. <i>Reinforced Plastics</i> , 2020, 64, 97-102.	0.5	5

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73	CROSS-SECTIONAL AREA MEASUREMENT OF SOFT TISSUES IN VITRO: A NON-CONTACT LASER SCAN METHOD. <i>Journal of Mechanics in Medicine and Biology</i> , 2008, 08, 353-361.	0.3	4
74	BIOMECHANICAL PROPERTIES OF EXTENSOR TENDON REPAIR USING THE SIX-STRAND SINGLE-LOOP SUTURE TECHNIQUE: A COMPARATIVE ANALYSIS WITH THREE OTHER TECHNIQUES IN CADAVERIC MODELS. <i>Journal of Mechanics in Medicine and Biology</i> , 2011, 11, 845-855.	0.3	4
75	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
76	Finite Element Analysis of Copper Wire Bonding in Integrated Circuit Devices. <i>Advanced Materials Research</i> , 2012, 566, 293-299.	0.3	3
77	Development of a two-stage Lau-Wan Wankel pump/mixer. <i>International Journal of Mechanical Engineering Education</i> , 2016, 44, 97-112.	0.6	3
78	Design module for the industry design and development of a novel gearless Wankel-like mixer pump: The Lau-Wan mixer. <i>International Journal of Mechanical Engineering Education</i> , 2016, 44, 220-232.	0.6	3
79	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
80	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
81	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
82	Micromechanical Fibre-Recruitment Model of Liquid Crystalline Polymer Reinforcing Polycarbonate Composites. <i>Advanced Structured Materials</i> , 2012, , 85-106.	0.3	3
83	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
84	Age-Related Feature Extraction on Mouse Skeletal Muscle: Data Mining Approach. <i>Journal of Medical Imaging and Health Informatics</i> , 2012, 2, 386-392.	0.2	3
85	Characteristics of Johorean <i>Elaeis guineensis</i> oil palm kernel shells. , 2019, , 75-86.		2
86	Performance of 3D printed poly(lactic acid)/halloysite nanocomposites. , 2020, , 251-267.		2
87	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
88	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
89	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
90	Energy dependent systematic errors in dual-energy X-ray CT. , 0, , .		1

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91	Physical Properties of Fibres and Matrix. Engineering Materials and Processes, 2017, , 21-48.	0.2	1
92	Gearless Wankel-like pump/mixer: Design challenges and prospects. , 2017, , .		1
93	Analyzing size effects in a cracked orthotropic layer under antiplane shear loading. Archive of Applied Mechanics, 2021, 91, 1097-1112.	1.2	1
94	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
95	Mixing Simulations of a Wankel Pump as a Micromixer. , 2016, , .		0
96	Mechanics of Elastic Stress Transfer. Engineering Materials and Processes, 2017, , 49-76.	0.2	0
97	Fibre Debonding, Matrix Yielding and Cracks. Engineering Materials and Processes, 2017, , 77-97.	0.2	0
98	Mechanics of Plastic Stress Transfer. Engineering Materials and Processes, 2017, , 99-121.	0.2	0
99	Composite Fracture. Engineering Materials and Processes, 2017, , 123-148.	0.2	0
100	The Other Connective Tissue: Echinoderm Ligaments and Membranes as Decellularized Bioscaffold for Tissue Engineering. Springer Series in Biomaterials Science and Engineering, 2019, , 309-327.	0.7	0
101	A Fresh Look at Designing Open-cage Nanostructures. Current Nanomaterials, 2019, 3, 190-191.	0.2	0
102	Current understanding of interfacial stress transfer mechanisms in connective tissue. , 2020, , 529-549.		0
103	Sustainable biocomposite development using halloysite nanotubes and polylactic acid. , 2022, , 245-264.		0
104	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
105	Reinforcing by Fibres. Engineering Materials and Processes, 2017, , 1-19.	0.2	0
106	Significance of Age-related Variations in The Structure and Material Properties in Extra-cellular Matrices of Connective Tissues. IFMBE Proceedings, 2008, , 346-350.	0.2	0
107	Determination of Static and Dynamic Young's Modulus of A Cantilever Beam using Digital Image Correlation (DIC) Method. , 2021, , .		0
108	Dataset on transcriptome signature of skeletal muscle of young, adult and aged mice. Data in Brief, 2022, 43, 108321.	0.5	0