

Chee How Wong

List of Publications by Year in descending order

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99
papers

3,508
citations

136950

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all docs

99
docs citations

99
times ranked

2833
citing authors

#	ARTICLE	IF	CITATIONS
1	Discontinuity of overhanging melt track in selective laser melting process. International Journal of Heat and Mass Transfer, 2020, 162, 120284.	4.8	34
2	Identification and evaluation of defects in selective laser melted 316L stainless steel parts via in-situ monitoring and micro computed tomography. Additive Manufacturing, 2020, 35, 101287.	3.0	21
3	Laser-induced depletion of ultrathin PFPE lubricants using a quantitative coarse-grained model. Journal of Molecular Modeling, 2020, 26, 115.	1.8	0
4	On the study of keyhole-mode melting in selective laser melting process. International Journal of Thermal Sciences, 2019, 145, 105992.	4.9	72
5	Optical in-situ monitoring and correlation of density and mechanical properties of stainless steel parts produced by selective laser melting process based on varied energy density. Journal of Materials Processing Technology, 2019, 271, 520-531.	6.3	35
6	Additive manufacturing of NiTi shape memory alloys using pre-mixed powders. Journal of Materials Processing Technology, 2019, 271, 152-161.	6.3	141
7	Atomic simulation of melting and surface segregation of ternary Fe-Ni-Cr nanoparticles. Applied Surface Science, 2019, 465, 871-879.	6.1	35
8	Additive manufacturing process monitoring and control by non-destructive testing techniques: challenges and in-process monitoring. Virtual and Physical Prototyping, 2018, 13, 39-48.	10.4	126
9	Study and modeling of melt pool evolution in selective laser melting process of SS316L. MRS Communications, 2018, 8, 1178-1183.	1.8	16
10	A numerical investigation on the physical mechanisms of single track defects in selective laser melting. International Journal of Heat and Mass Transfer, 2018, 126, 957-968.	4.8	169
11	A Study on the Influence of Scanning Strategies on the Levelness of the Melt Track in Selective Laser Melting Process of Stainless Steel Powder. Jom, 2018, 70, 2082-2087.	1.9	13
12	Experimental studies on the properties of selectively laser melted alumina-spodumene composite. Ceramics International, 2018, 44, 19008-19015.	4.8	13
13	A Computational Study on Porosity Evolution in Parts Produced by Selective Laser Melting. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3663-3673.	2.2	48
14	Properties of selective laser melted spodumene glass-ceramic. Journal of the European Ceramic Society, 2017, 37, 4147-4154.	5.7	38
15	Applications of non-destructive testing techniques for post-process control of additively manufactured parts. Virtual and Physical Prototyping, 2017, 12, 301-321.	10.4	60
16	Compressive strength of porous 3D printed spodumene. Procedia Engineering, 2017, 216, 28-42.	1.2	4
17	Equipment Qualification. , 2017, , 139-157.		2
18	Quality Management Framework in Additive Manufacturing. , 2017, , 213-239.		2

#	ARTICLE	IF	CITATIONS
19	Practical support structures for selective laser melting. <i>Journal of Materials Processing Technology</i> , 2016, 238, 474-484.	6.3	138
20	An Overview of 3-D Printing in Manufacturing, Aerospace, and Automotive Industries. <i>IEEE Potentials</i> , 2016, 35, 18-22.	0.3	96
21	Molecular dynamics simulation studies of mechanical properties of different carbon nanotube systems. <i>Molecular Simulation</i> , 2016, 42, 1274-1280.	2.0	17
22	Formation of chemical short range order and its influences on the dynamic/mechanical heterogeneity in amorphous Zr-Cu-Ag alloys: A molecular dynamics study. <i>Intermetallics</i> , 2016, 70, 61-67.	3.9	26
23	Epigallocatechin gallate decorated carbon nanotube chemiresistors for ultrasensitive glucose detection. <i>Organic Electronics</i> , 2016, 28, 210-216.	2.6	6
24	Density characteristics of laser-sintered three-dimensional printing parts investigated by using an integrated finite element analysis-based evolutionary algorithm approach. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2016, 230, 100-110.	2.4	6
25	Investigation of mechanical strength of 2D nanoscale structures using a molecular dynamics based computational intelligence approach. <i>International Journal of Modern Physics B</i> , 2015, 29, 1450242.	2.0	3
26	Molecular dynamics studies of lubricant depletion under moving laser heating: Effects of laser power and film thickness. <i>Tribology International</i> , 2015, 92, 38-46.	5.9	10
27	Effect of temperature and thickness of graphene on the hydrogen storage properties. , 2015, , ,		0
28	Application of artificial intelligence technique for modelling elastic properties of 2D nanoscale material. <i>Molecular Simulation</i> , 2015, 41, 1143-1152.	2.0	7
29	Mechanical properties of bundled carbon nanoscroll. <i>Mechanics of Materials</i> , 2015, 87, 1-10.	3.2	5
30	A molecular dynamics simulation study of solid-like and liquid-like networks in Zr ₄₆ Cu ₄₆ Al ₈ metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2015, 422, 39-45.	3.1	24
31	Hydrogen transportation properties in carbon nano-scroll investigated by using molecular dynamics simulations. <i>Computational Materials Science</i> , 2015, 102, 7-13.	3.0	7
32	Effect of atomic-level stresses on local dynamic and mechanical properties in CuxZr100-x metallic glasses: A molecular dynamics study. <i>Intermetallics</i> , 2015, 58, 50-55.	3.9	15
33	An integrated computational approach for determining the elastic properties of boron nitride nanotubes. <i>International Journal of Mechanics and Materials in Design</i> , 2015, 11, 1-14.	3.0	27
34	Study of the Thermal Decomposition of PFPEs Lubricants on a Thin DLC Film Using Finitely Extensible Nonlinear Elastic Potential Based Molecular Dynamics Simulation. <i>Journal of Nanotechnology</i> , 2014, 2014, 1-15.	3.4	6
35	Effect of channel length on the electrical response of carbon nanotube field-effect transistors to deoxyribonucleic acid hybridization. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 2081-2091.	2.8	7
36	Combined CI-MD approach in formulation of engineering moduli of single layer graphene sheet. <i>Simulation Modelling Practice and Theory</i> , 2014, 48, 93-111.	3.8	26

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37	Estimation of mechanical properties of nanomaterials using artificial intelligence methods. Applied Physics A: Materials Science and Processing, 2014, 116, 1099-1107.	2.3	31
38	Performance evaluation of microbial fuel cell by artificial intelligence methods. Expert Systems With Applications, 2014, 41, 1389-1399.	7.6	83
39	Measurement of properties of graphene sheets subjected to drilling operation using computer simulation. Measurement: Journal of the International Measurement Confederation, 2014, 50, 50-62.	5.0	47
40	An embedded simulation approach for modeling the thermal conductivity of 2D nanoscale material. Simulation Modelling Practice and Theory, 2014, 44, 1-13.	3.8	25
41	Evolution of Diffusion-Related Degradation of Polymeric Lubricant Under Laser Heating: A Molecular Dynamics Study. IEEE Transactions on Magnetics, 2014, 50, 1-9.	2.1	2
42	A molecular dynamics based artificial intelligence approach for characterizing thermal transport in nanoscale material. Thermochimica Acta, 2014, 594, 39-49.	2.7	26
43	Lubricant depletion due to moving laser heating: A molecular dynamics simulation study. Tribology International, 2014, 80, 41-48.	5.9	6
44	Molecular dynamics study of ultrathin lubricant films with functional end groups: Thermal-induced desorption and decomposition. Computational Materials Science, 2014, 93, 11-14.	3.0	5
45	Torsional Characteristics of SingleWalled Carbon Nanotube with Water Interactions by Using Molecular Dynamics Simulation. Nano-Micro Letters, 2014, 6, 268-279.	27.0	32
46	Thickness, chirality and pattern dependence of elastic properties of hydrogen functionalized graphene. Computational Materials Science, 2014, 92, 192-198.	3.0	8
47	Compressive characteristics of single walled carbon nanotube with water interactions investigated by using molecular dynamics simulation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 570-576.	2.1	33
48	Transport characteristics of water molecules in carbon nanotubes investigated by using molecular dynamics simulation. Computational Materials Science, 2014, 89, 36-44.	3.0	36
49	Molecular Dynamics Simulation of Thermal-Induced Local Heating and Depletion of Ultrathin Perfluoropolyether Lubricant Under Moving Laser Heating. Tribology Letters, 2014, 55, 303-313.	2.6	9
50	Detection and classification of host-guest interactions using β -cyclodextrin-decorated carbon nanotube-based chemiresistors. Current Applied Physics, 2014, 14, 1649-1658.	2.4	12
51	On the Study of Machining Characteristics of 2-D Nanoscale Material. Nanoscience and Nanotechnology Letters, 2014, 6, 1079-1086.	0.4	3
52	Selective Laser Melting of Metal Powders Studied by Molecular Dynamics Simulation. , 2014, , .		2
53	Selective Laser Melting: On the Study of Microstructure of K220. , 2014, , .		4
54	Torsional Characteristics of Single Walled Carbon Nanotube with Water Interactions by Using Molecular Dynamics Simulation. Nano-Micro Letters, 2014, 6, 268.	27.0	1

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55	Shear deformation characteristics of single walled carbon nanotube with water interactions by using molecular dynamics simulation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 54, 206-213.	2.7	27
56	Depletion kinetics of perfluoropolyether films with functional end groups using molecular dynamics simulation. <i>Polymer</i> , 2013, 54, 6008-6018.	3.8	22
57	Nanomechanics of single walled carbon nanotube with water interactions under axial tension by using molecular dynamics simulation. <i>Computational Materials Science</i> , 2013, 79, 519-526.	3.0	36
58	A Numerical Solution of a One End Fixed Glass/Epoxy Plate Having a Circular Cutout Subjected to a Uniform Shear Using Displacement Potential Approach. <i>Mechanics of Advanced Materials and Structures</i> , 2013, 20, 297-308.	2.6	5
59	Kinetics of lubricant desorption and decomposition under heat treatment: a molecular dynamics study. <i>Soft Matter</i> , 2013, 9, 700-708.	2.7	21
60	Temperature, defect and size effect on the elastic properties of imperfectly straight carbon nanotubes by using molecular dynamics simulation. <i>Computational Materials Science</i> , 2013, 71, 184-191.	3.0	54
61	Predicting the mechanical characteristics of hydrogen functionalized graphene sheets using artificial neural network approach. <i>Journal of Nanostructure in Chemistry</i> , 2013, 3, 1.	9.1	38
62	Study of the Spreading of Perfluoropolyether Lubricants on a Diamond-Like Carbon Film. <i>Tribology Transactions</i> , 2013, 56, 255-267.	2.0	16
63	Nanomechanics of Nonideal Single- and Double-Walled Carbon Nanotubes. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-9.	2.7	21
64	AN AB INITIO MOLECULAR DYNAMICS STUDY ON THE SOLVATION OF FORMATE ION AND FORMIC ACID IN WATER. <i>Journal of Theoretical and Computational Chemistry</i> , 2012, 11, 1019-1032.	1.8	9
65	Tensile loading characteristics of free-form and water submerged single layer graphene sheet. , 2012, , .		4
66	Lubricant evolution and depletion under laser heating: a molecular dynamics study. <i>Soft Matter</i> , 2012, 8, 5649.	2.7	42
67	Interpenetrating networks in Zrâ€“Cuâ€“Al and Zrâ€“Cu metallic glasses. <i>Intermetallics</i> , 2012, 22, 13-16.	3.9	27
68	Structural properties of Zr _x Cu _{90-x} Al ₁₀ metallic glasses investigated by molecular dynamics simulations. <i>Journal of Alloys and Compounds</i> , 2012, 510, 107-113.	5.5	44
69	Nanomechanics of imperfectly straight single walled carbon nanotubes under axial compression by using molecular dynamics simulation. <i>Computational Materials Science</i> , 2012, 53, 268-277.	3.0	30
70	Nanomechanics of free form and water submerged single layer graphene sheet under axial tension by using molecular dynamics simulation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 556, 420-428.	5.6	44
71	A finite-difference solution of boron/epoxy composite plate with an internal hole subjected to uniform tension/displacements using displacement potential approach. <i>International Journal of Mechanical Sciences</i> , 2012, 58, 1-12.	6.7	13
72	Different icosahedra in metallic glasses: Stability and response to shear transformation. <i>Scripta Materialia</i> , 2012, 66, 610-613.	5.2	9

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73	Short-to-medium range order of Al-Mg metallic glasses studied by molecular dynamics simulations. <i>Journal of Alloys and Compounds</i> , 2011, 509, 10222-10229.	5.5	39
74	Effect of Tire Material on the Prediction of Optimum Tire-Tread Sections. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2011, 12, 290-302.	2.1	3
75	Molecular Dynamics Simulation of Lubricant Redistribution and Transfer at Near-Contact Head-Disk Interface. <i>Tribology Letters</i> , 2011, 43, 89-99.	2.6	28
76	Finite-Difference Solution of a Both-End-Fixed Orthotropic Composite Beam under Uniformly Distributed Loading Using Displacement Potential Function Formulation. <i>Journal of Engineering Mechanics - ASCE</i> , 2011, 137, 258-267.	2.9	5
77	Molecular Study of Dynamic Behavior between Head and Ultrathin Lubricant Film. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2010, 4, 56-60.	0.7	3
78	Effects of environmental temperature and humidity on thermal flying height adjustment. <i>Microsystem Technologies</i> , 2010, 16, 49-55.	2.0	3
79	Elastic properties of imperfect single-walled carbon nanotubes under axial tension. <i>Computational Materials Science</i> , 2010, 49, 143-147.	3.0	35
80	Effect of environment humidity and temperature on stationary and transient flying responses of air bearing slider. <i>Tribology International</i> , 2009, 42, 1125-1131.	5.9	8
81	Effects of temperature dependent air properties on the performances of a thermal actuated slider. <i>Tribology International</i> , 2009, 42, 902-910.	5.9	17
82	Towards fly- and lubricant-contact recording. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 3183-3188.	2.3	27
83	A generalized heat transfer model for thin film bearings at head-disk interface. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	34
84	Low Flying-Height Slider With High Thermal Actuation Efficiency and Small Flying-Height Modulation Caused by Disk Waviness. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 145-150.	2.1	33
85	Dynamics of Fly-Contact Head Disk Interface. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 3683-3686.	2.1	5
86	A method to study the cooling effect of the thermal actuator. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	0
87	Non-Twisted and Twisted CNT Bundles under Axial Tensile and Compressive Loads. <i>Solid State Phenomena</i> , 2007, 121-123, 1415-1418.	0.3	1
88	Flying Stability Study of a Thermal Actuated Slider. , 2006, , .		1
89	Tensile and compressive properties of carbon nanotube bundles. <i>Acta Materialia</i> , 2006, 54, 225-231.	7.9	88
90	Twisting effects of carbon nanotube bundles subjected to axial compression and tension. <i>Journal of Applied Physics</i> , 2006, 99, 114312.	2.5	29

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91	Buckling properties of carbon nanotube bundles. Applied Physics Letters, 2005, 87, 041901.	3.3	79
92	Thermal stability of single and multi-walled carbon nanotubes. Physical Review B, 2005, 71, .	3.2	130
93	On the study of elastic and plastic properties of multi-walled carbon nanotubes under axial tension using molecular dynamics simulation. Acta Materialia, 2004, 52, 2521-2527.	7.9	345
94	Nanomechanics of single and multiwalled carbon nanotubes. Physical Review B, 2004, 69, .	3.2	298
95	Electrical characterisation of RF capacitive microswitch. Sensors and Actuators A: Physical, 2003, 102, 296-310.	4.1	17
96	<title>Characterization of high-isolation rf capacitive microswitches</title>. , 2001, 4586, 440.		0
97	Mechanical design and optimization of capacitive micromachined switch. Sensors and Actuators A: Physical, 2001, 93, 273-285.	4.1	198
98	Micromachined capacitive switches at microwave frequencies. , 2000, , .		0
99	Molecular Dynamics Simulation of Lubricant Depletion Instability under Laser Heating. Defect and Diffusion Forum, 0, 362, 23-28.	0.4	0