

Chee How Wong

List of Publications by Year in descending order

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99
papers

3,508
citations

136950

32
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144013

57
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docs citations

99
times ranked

2833
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | On the study of elastic and plastic properties of multi-walled carbon nanotubes under axial tension using molecular dynamics simulation. <i>Acta Materialia</i> , 2004, 52, 2521-2527. | 7.9 | 345 |
| 2 | Nanomechanics of single and multiwalled carbon nanotubes. <i>Physical Review B</i> , 2004, 69, . | 3.2 | 298 |
| 3 | Mechanical design and optimization of capacitive micromachined switch. <i>Sensors and Actuators A: Physical</i> , 2001, 93, 273-285. | 4.1 | 198 |
| 4 | A numerical investigation on the physical mechanisms of single track defects in selective laser melting. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 957-968. | 4.8 | 169 |
| 5 | Additive manufacturing of NiTi shape memory alloys using pre-mixed powders. <i>Journal of Materials Processing Technology</i> , 2019, 271, 152-161. | 6.3 | 141 |
| 6 | Practical support structures for selective laser melting. <i>Journal of Materials Processing Technology</i> , 2016, 238, 474-484. | 6.3 | 138 |
| 7 | Thermal stability of single and multi-walled carbon nanotubes. <i>Physical Review B</i> , 2005, 71, . | 3.2 | 130 |
| 8 | Additive manufacturing process monitoring and control by non-destructive testing techniques: challenges and in-process monitoring. <i>Virtual and Physical Prototyping</i> , 2018, 13, 39-48. | 10.4 | 126 |
| 9 | An Overview of 3-D Printing in Manufacturing, Aerospace, and Automotive Industries. <i>IEEE Potentials</i> , 2016, 35, 18-22. | 0.3 | 96 |
| 10 | Tensile and compressive properties of carbon nanotube bundles. <i>Acta Materialia</i> , 2006, 54, 225-231. | 7.9 | 88 |
| 11 | Performance evaluation of microbial fuel cell by artificial intelligence methods. <i>Expert Systems With Applications</i> , 2014, 41, 1389-1399. | 7.6 | 83 |
| 12 | Buckling properties of carbon nanotube bundles. <i>Applied Physics Letters</i> , 2005, 87, 041901. | 3.3 | 79 |
| 13 | On the study of keyhole-mode melting in selective laser melting process. <i>International Journal of Thermal Sciences</i> , 2019, 145, 105992. | 4.9 | 72 |
| 14 | Applications of non-destructive testing techniques for post-process control of additively manufactured parts. <i>Virtual and Physical Prototyping</i> , 2017, 12, 301-321. | 10.4 | 60 |
| 15 | 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 |
| 16 | A Computational Study on Porosity Evolution in Parts Produced by Selective Laser Melting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 3663-3673. | 2.2 | 48 |
| 17 | Measurement of properties of graphene sheets subjected to drilling operation using computer simulation. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 50, 50-62. | 5.0 | 47 |
| 18 | Structural properties of ZrxCu90~xAl10 metallic glasses investigated by molecular dynamics simulations. <i>Journal of Alloys and Compounds</i> , 2012, 510, 107-113. | 5.5 | 44 |

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|----|--|------|-----------|
| 19 | 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 |
| 20 | Lubricant evolution and depletion under laser heating: a molecular dynamics study. <i>Soft Matter</i> , 2012, 8, 5649. | 2.7 | 42 |
| 21 | 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 |
| 22 | 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 |
| 23 | Properties of selective laser melted spodumene glass-ceramic. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4147-4154. | 5.7 | 38 |
| 24 | 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 |
| 25 | Transport characteristics of water molecules in carbon nanotubes investigated by using molecular dynamics simulation. <i>Computational Materials Science</i> , 2014, 89, 36-44. | 3.0 | 36 |
| 26 | Elastic properties of imperfect single-walled carbon nanotubes under axial tension. <i>Computational Materials Science</i> , 2010, 49, 143-147. | 3.0 | 35 |
| 27 | 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. <i>Journal of Materials Processing Technology</i> , 2019, 271, 520-531. | 6.3 | 35 |
| 28 | Atomic simulation of melting and surface segregation of ternary Fe-Ni-Cr nanoparticles. <i>Applied Surface Science</i> , 2019, 465, 871-879. | 6.1 | 35 |
| 29 | A generalized heat transfer model for thin film bearings at head-disk interface. <i>Applied Physics Letters</i> , 2008, 92, . | 3.3 | 34 |
| 30 | Discontinuity of overhanging melt track in selective laser melting process. <i>International Journal of Heat and Mass Transfer</i> , 2020, 162, 120284. | 4.8 | 34 |
| 31 | 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 |
| 32 | Compressive characteristics of single walled carbon nanotube with water interactions investigated by using molecular dynamics simulation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 570-576. | 2.1 | 33 |
| 33 | Torsional Characteristics of SingleWalled Carbon Nanotube with Water Interactions by Using Molecular Dynamics Simulation. <i>Nano-Micro Letters</i> , 2014, 6, 268-279. | 27.0 | 32 |
| 34 | Estimation of mechanical properties of nanomaterials using artificial intelligence methods. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 1099-1107. | 2.3 | 31 |
| 35 | 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 |
| 36 | Twisting effects of carbon nanotube bundles subjected to axial compression and tension. <i>Journal of Applied Physics</i> , 2006, 99, 114312. | 2.5 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | 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 |
| 38 | Towards fly- and lubricant-contact recording. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 3183-3188. | 2.3 | 27 |
| 39 | Interpenetrating networks in Zr-Cu-Al and Zr-Cu metallic glasses. <i>Intermetallics</i> , 2012, 22, 13-16. | 3.9 | 27 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | A molecular dynamics based artificial intelligence approach for characterizing thermal transport in nanoscale material. <i>Thermochimica Acta</i> , 2014, 594, 39-49. | 2.7 | 26 |
| 44 | 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 |
| 45 | An embedded simulation approach for modeling the thermal conductivity of 2D nanoscale material. <i>Simulation Modelling Practice and Theory</i> , 2014, 44, 1-13. | 3.8 | 25 |
| 46 | 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 |
| 47 | Depletion kinetics of perfluoropolyether films with functional end groups using molecular dynamics simulation. <i>Polymer</i> , 2013, 54, 6008-6018. | 3.8 | 22 |
| 48 | Nanomechanics of Nonideal Single- and Double-Walled Carbon Nanotubes. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-9. | 2.7 | 21 |
| 49 | Kinetics of lubricant desorption and decomposition under heat treatment: a molecular dynamics study. <i>Soft Matter</i> , 2013, 9, 700-708. | 2.7 | 21 |
| 50 | Identification and evaluation of defects in selective laser melted 316L stainless steel parts via in-situ monitoring and micro computed tomography. <i>Additive Manufacturing</i> , 2020, 35, 101287. | 3.0 | 21 |
| 51 | Electrical characterisation of RF capacitive microswitch. <i>Sensors and Actuators A: Physical</i> , 2003, 102, 296-310. | 4.1 | 17 |
| 52 | 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 |
| 53 | Molecular dynamics simulation studies of mechanical properties of different carbon nanotube systems. <i>Molecular Simulation</i> , 2016, 42, 1274-1280. | 2.0 | 17 |
| 54 | Study of the Spreading of Perfluoropolyether Lubricants on a Diamond-Like Carbon Film. <i>Tribology Transactions</i> , 2013, 56, 255-267. | 2.0 | 16 |

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|----|---|-----|-----------|
| 55 | Study and modeling of melt pool evolution in selective laser melting process of SS316L. MRS Communications, 2018, 8, 1178-1183. | 1.8 | 16 |
| 56 | Effect of atomic-level stresses on local dynamic and mechanical properties in Cu_xZr_{100-x} metallic glasses: A molecular dynamics study. Intermetallics, 2015, 58, 50-55. | 3.9 | 15 |
| 57 | A finite-difference solution of boron/epoxy composite plate with an internal hole subjected to uniform tension/displacements using displacement potential approach. International Journal of Mechanical Sciences, 2012, 58, 1-12. | 6.7 | 13 |
| 58 | 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 |
| 59 | Experimental studies on the properties of selectively laser melted alumina-spodumene composite. Ceramics International, 2018, 44, 19008-19015. | 4.8 | 13 |
| 60 | 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 |
| 61 | Molecular dynamics studies of lubricant depletion under moving laser heating: Effects of laser power and film thickness. Tribology International, 2015, 92, 38-46. | 5.9 | 10 |
| 62 | AN AB INITIO MOLECULAR DYNAMICS STUDY ON THE SOLVATION OF FORMATE ION AND FORMIC ACID IN WATER. Journal of Theoretical and Computational Chemistry, 2012, 11, 1019-1032. | 1.8 | 9 |
| 63 | Different icosahedra in metallic glasses: Stability and response to shear transformation. Scripta Materialia, 2012, 66, 610-613. | 5.2 | 9 |
| 64 | 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 |
| 65 | Effect of environment humidity and temperature on stationary and transient flying responses of air bearing slider. Tribology International, 2009, 42, 1125-1131. | 5.9 | 8 |
| 66 | Thickness, chirality and pattern dependence of elastic properties of hydrogen functionalized graphene. Computational Materials Science, 2014, 92, 192-198. | 3.0 | 8 |
| 67 | Effect of channel length on the electrical response of carbon nanotube field-effect transistors to deoxyribonucleic acid hybridization. Beilstein Journal of Nanotechnology, 2014, 5, 2081-2091. | 2.8 | 7 |
| 68 | Application of artificial intelligence technique for modelling elastic properties of 2D nanoscale material. Molecular Simulation, 2015, 41, 1143-1152. | 2.0 | 7 |
| 69 | Hydrogen transportation properties in carbon nano-scroll investigated by using molecular dynamics simulations. Computational Materials Science, 2015, 102, 7-13. | 3.0 | 7 |
| 70 | Study of the Thermal Decomposition of PFPEs Lubricants on a Thin DLC Film Using Finitely Extensible Nonlinear Elastic Potential Based Molecular Dynamics Simulation. Journal of Nanotechnology, 2014, 2014, 1-15. | 3.4 | 6 |
| 71 | Lubricant depletion due to moving laser heating: A molecular dynamics simulation study. Tribology International, 2014, 80, 41-48. | 5.9 | 6 |
| 72 | Epigallocatechin gallate decorated carbon nanotube chemiresistors for ultrasensitive glucose detection. Organic Electronics, 2016, 28, 210-216. | 2.6 | 6 |

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| 73 | Density characteristics of laser-sintered three-dimensional printing parts investigated by using an integrated finite element analysis-based evolutionary algorithm approach. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 100-110. | 2.4 | 6 |
| 74 | Dynamics of Fly-Contact Head Disk Interface. IEEE Transactions on Magnetics, 2008, 44, 3683-3686. | 2.1 | 5 |
| 75 | Finite-Difference Solution of a Both-End-Fixed Orthotropic Composite Beam under Uniformly Distributed Loading Using Displacement Potential Function Formulation. Journal of Engineering Mechanics - ASCE, 2011, 137, 258-267. | 2.9 | 5 |
| 76 | A Numerical Solution of a One End Fixed Glass/Epoxy Plate Having a Circular Cutout Subjected to a Uniform Shear Using Displacement Potential Approach. Mechanics of Advanced Materials and Structures, 2013, 20, 297-308. | 2.6 | 5 |
| 77 | 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 |
| 78 | Mechanical properties of bundled carbon nanoscroll. Mechanics of Materials, 2015, 87, 1-10. | 3.2 | 5 |
| 79 | Tensile loading characteristics of free-form and water submerged single layer graphene sheet. , 2012, , . | | 4 |
| 80 | Compressive strength of porous 3D printed spodumene. Procedia Engineering, 2017, 216, 28-42. | 1.2 | 4 |
| 81 | Selective Laser Melting: On the Study of Microstructure of K220. , 2014, , . | | 4 |
| 82 | Molecular Study of Dynamic Behavior between Head and Ultrathin Lubricant Film. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2010, 4, 56-60. | 0.7 | 3 |
| 83 | Effects of environmental temperature and humidity on thermal flying height adjustment. Microsystem Technologies, 2010, 16, 49-55. | 2.0 | 3 |
| 84 | Effect of Tire Material on the Prediction of Optimum Tire-Tread Sections. International Journal for Computational Methods in Engineering Science and Mechanics, 2011, 12, 290-302. | 2.1 | 3 |
| 85 | Investigation of mechanical strength of 2D nanoscale structures using a molecular dynamics based computational intelligence approach. International Journal of Modern Physics B, 2015, 29, 1450242. | 2.0 | 3 |
| 86 | On the Study of Machining Characteristics of 2-D Nanoscale Material. Nanoscience and Nanotechnology Letters, 2014, 6, 1079-1086. | 0.4 | 3 |
| 87 | 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 |
| 88 | Equipment Qualification. , 2017, , 139-157. | | 2 |
| 89 | Quality Management Framework in Additive Manufacturing. , 2017, , 213-239. | | 2 |
| 90 | Selective Laser Melting of Metal Powders Studied by Molecular Dynamics Simulation. , 2014, , . | | 2 |

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|----|--|------|-----------|
| 91 | Flying Stability Study of a Thermal Actuated Slider. , 2006, , . | | 1 |
| 92 | Non-Twisted and Twisted CNT Bundles under Axial Tensile and Compressive Loads. Solid State Phenomena, 2007, 121-123, 1415-1418. | 0.3 | 1 |
| 93 | Torsional Characteristics of Single Walled Carbon Nanotube with Water Interactions by Using Molecular Dynamics Simulation. Nano-Micro Letters, 2014, 6, 268. | 27.0 | 1 |
| 94 | Micromachined capacitive switches at microwave frequencies. , 2000, , . | | 0 |
| 95 | <title>Characterization of high-isolation rf capacitive microswitches</title>. , 2001, 4586, 440. | | 0 |
| 96 | A method to study the cooling effect of the thermal actuator. Journal of Applied Physics, 2008, 103, . | 2.5 | 0 |
| 97 | Molecular Dynamics Simulation of Lubricant Depletion Instability under Laser Heating. Defect and Diffusion Forum, 0, 362, 23-28. | 0.4 | 0 |
| 98 | Effect of temperature and thickness of graphene on the hydrogen storage properties. , 2015, , . | | 0 |
| 99 | Laser-induced depletion of ultrathin PFPE lubricants using a quantitative coarse-grained model. Journal of Molecular Modeling, 2020, 26, 115. | 1.8 | 0 |