Sourav Saha

List of Publications by Year in descending order

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29	697	516710 16	552781 26
papers	citations	h-index	g-index

29	29	29	588
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanistic artificial intelligence (mechanistic-AI) for modeling, design, and control of advanced manufacturing processes: Current state and perspectives. Journal of Materials Processing Technology, 2022, 302, 117485.	6.3	32
2	Cyclic and tensile deformations of Goldâ€“Silver core shell systems using newly parameterized MEAM potential. Mechanics of Materials, 2022, 169, 104304.	3.2	2
3	Image-based modelling for Adolescent Idiopathic Scoliosis: Mechanistic machine learning analysis and prediction. Computer Methods in Applied Mechanics and Engineering, 2021, 374, 113590.	6.6	31
4	Hierarchical Deep Learning Neural Network (HiDeNN): An artificial intelligence (AI) framework for computational science and engineering. Computer Methods in Applied Mechanics and Engineering, 2021, 373, 113452.	6.6	77
5	Deformation mechanisms of Inconel-718 at the nanoscale by molecular dynamics. Physical Chemistry Chemical Physics, 2021, 23, 10650-10661.	2.8	8
6	Microscale Structure to Property Prediction for Additively Manufactured IN625 through Advanced Material Model Parameter Identification. Integrating Materials and Manufacturing Innovation, 2021, 10, 142-156.	2.6	8
7	Mechanistic data-driven prediction of as-built mechanical properties in metal additive manufacturing. Npj Computational Materials, 2021, 7, .	8.7	43
8	Macroscale Property Prediction for Additively Manufactured IN625 from Microstructure Through Advanced Homogenization. Integrating Materials and Manufacturing Innovation, 2021, 10, 360-372.	2.6	5
9	MAP123-EP: A mechanistic-based data-driven approach for numerical elastoplastic analysis. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112955.	6.6	28
10	Molecular dynamics simulation of the mechanical properties of CNT-polyoxymethylene composite with a reactive forcefield. Molecular Simulation, 2020, 46, 380-387.	2.0	13
11	Insights into the mechanical properties and fracture mechanism of Cadmium Telluride nanowire. Materials Research Express, 2019, 6, 105083.	1.6	14
12	Atomistic analysis of the thermomechanical properties of Snâ€“Agâ€“Cu solder materials at the nanoscale with the MEAM potential. Journal of Molecular Modeling, 2019, 25, 59.	1.8	16
13	Nature of creep deformation in nanocrystalline Tungsten. Computational Materials Science, 2018, 149, 360-372.	3.0	17
14	Investigation on mechanical properties of polycrystalline W nanowire. Computational Materials Science, 2017, 136, 52-59.	3.0	24
15	Graphene and its elemental analogue: A molecular dynamics view of fracture phenomenon. Physica B: Condensed Matter, 2017, 515, 67-74.	2.7	41
16	Atomistic Representation of Anomalies in the Failure Behaviour of Nanocrystalline Silicene. Scientific Reports, 2017, 7, 14629.	3.3	26
17	Study of uniaxial tensile properties of hexagonal boron nitride nanoribbons. , 2017, , .		7
18	Numerical investigation of pure mixed convection in a ferrofluid-filled lid-driven cavity for different heater configurations. AEJ - Alexandria Engineering Journal, 2016, 55, 127-139.	6.4	46

#	Article	IF	Citations
19	Magnetic field effect on natural convection and entropy generation in a half-moon shaped cavity with semi-circular bottom heater having different ferrofluid inside. Journal of Magnetism and Magnetic Materials, 2016, 407, 412-424.	2.3	47
20	Numerical and statistical analysis on unsteady magnetohydrodynamic convection in a semi-circular enclosure filled with ferrofluid. International Journal of Heat and Mass Transfer, 2015, 89, 1316-1330.	4.8	26
21	Effect of Sine-Squared Thermal Boundary Condition on Augmentation of Heat Transfer in a Triangular Solar Collector Filled with Different Nanofluids. Numerical Heat Transfer, Part B: Fundamentals, 2015, 68, 53-74.	0.9	14
22	Geometric Effect on Magnetohydrodynamic Convection in a Half-moon Shaped Cavity Filled with Water Having Semi-circular Bottom Heater. Procedia Engineering, 2015, 105, 73-80.	1.2	1
23	Effect of Magnetic Field on Natural Convection in a C-shaped Cavity Filled with Ferrofluid. Procedia Engineering, 2015, 105, 96-104.	1.2	36
24	Combined effect of Reynolds and Grashof numbers on mixed convection in a lid-driven T-shaped cavity filled with water-Al2O3 nanofluid. Journal of Hydrodynamics, 2015, 27, 782-794.	3.2	20
25	Effect of Lewis Number on Unsteady Double Diffusive Buoyancy Induced Flow in a Triangular Solar Collector with Corrugated Wall. Procedia Engineering, 2014, 90, 418-424.	1.2	3
26	Augmentation of natural convection heat transfer in triangular shape solar collector by utilizing water based nanofluids having a corrugated bottom wall. International Communications in Heat and Mass Transfer, 2014, 50, 117-127.	5.6	48
27	Numerical Simulation of Unsteady Heat Transfer in a Half-Moon Shape Enclosure with Variable Thermal Boundary Condition for Different Nanofluids. Numerical Heat Transfer, Part B: Fundamentals, 2014, 65, 282-301.	0.9	13
28	Low head hydro power generation using road side canal water potential in Bangladesh. , 2014, , .		2
29	Effect of solid volume fraction and tilt angle in a quarter circular solar thermal collectors filled with CNTâ€“water nanofluid. International Communications in Heat and Mass Transfer, 2014, 57, 79-90.	5.6	49