

# Mahendra Kumar Samal

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124 papers	904 citations	16 h-index	25 g-index
132 ext. papers	1,081 ext. citations	2.4 avg, IF	4.53 L-index

#	Paper	IF	Citations
124	Dwell fatigue crack nucleation model based on crystal plasticity finite element simulations of polycrystalline titanium alloys. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2011</b> , 59, 2157-2176	5	125
123	Investigation of failure behavior of ferriticBustenitic type of dissimilar steel welded joints. <i>Engineering Failure Analysis</i> , <b>2011</b> , 18, 999-1008	3.2	56
122	Finite element formulation of a new nonlocal damage model. <i>Finite Elements in Analysis and Design</i> , <b>2008</b> , 44, 358-371	2.2	46
121	On critical assessment of the use of local and nonlocal damage models for prediction of ductile crack growth and crack path in various loading and boundary conditions. <i>International Journal of Solids and Structures</i> , <b>2011</b> , 48, 3365-3381	3.1	32
120	Hierarchical multiscale modeling of plasticity in copper: From single crystals to polycrystalline aggregates. <i>International Journal of Plasticity</i> , <b>2018</b> , 101, 188-212	7.6	32
119	An experimental and numerical investigation of fracture resistance behaviour of a dissimilar metal welded joint. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2009</b> , 223, 1507-1523	1.3	31
118	Transferability of fracture parameters from specimens to component level. <i>International Journal of Pressure Vessels and Piping</i> , <b>2005</b> , 82, 386-399	2.4	26
117	A phenomenological form of the q2 parameter in the Gurson model. <i>International Journal of Pressure Vessels and Piping</i> , <b>2008</b> , 85, 199-210	2.4	25
116	A new mesh-independent Rousselier damage model: Finite element implementation and experimental verification. <i>International Journal of Mechanical Sciences</i> , <b>2009</b> , 51, 619-630	5.5	24
115	Molecular dynamics simulations of crack growth behavior in Al in the presence of vacancies. <i>Computational Materials Science</i> , <b>2016</b> , 117, 518-526	3.2	24
114	A finite element model for nonlinear behaviour of piezoceramics under weak electric fields. <i>Finite Elements in Analysis and Design</i> , <b>2005</b> , 41, 1464-1480	2.2	23
113	Investigation of failure behavior of two different types of Zircaloy clad tubes used as nuclear reactor fuel pins. <i>Engineering Failure Analysis</i> , <b>2011</b> , 18, 2042-2053	3.2	22
112	An experimental and numerical study of the fracture behaviour of tubular specimens in a pin-loading-tension set-up. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2010</b> , 224, 1-12	1.3	22
111	Experimental and numerical investigation of ductile-to-brittle transition in a pressure vessel steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 496, 25-35	5.3	22
110	Atomistic simulations of interaction of edge dislocation with twist grain boundaries in Al-effect of temperature and boundary misorientation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 646, 25-32	5.3	20
109	An atomistic insight into the fracture behavior of bicrystal aluminum containing twist grain boundaries. <i>Computational Materials Science</i> , <b>2017</b> , 130, 268-281	3.2	17
108	An approach to eliminate stepped features in multistage incremental sheet forming process: Experimental and FEA analysis. <i>Journal of Mechanical Science and Technology</i> , <b>2017</b> , 31, 599-604	1.6	14

107	Fracture toughness evaluation of 20MnMoNi55 pressure vessel steel in the ductile to brittle transition regime: Experiment & numerical simulations. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 465, 424-432	3.3	14
106	Nonlinear behaviour of piezoceramics under weak electric fields. <i>International Journal of Solids and Structures</i> , <b>2006</b> , 43, 1422-1436	3.1	14
105	Development of new critical plane model for assessment of fatigue life under multi-axial loading conditions. <i>International Journal of Fatigue</i> , <b>2019</b> , 129, 105209	5	13
104	Estimation of fracture behavior of thin walled nuclear reactor fuel pins using Pin-Loading-Tension (PLT) test. <i>Nuclear Engineering and Design</i> , <b>2010</b> , 240, 4043-4050	1.8	13
103	Prediction of J <sub>R</sub> curves of thin-walled fuel pin specimens in a PLT setup. <i>Engineering Fracture Mechanics</i> , <b>2011</b> , 78, 1029-1043	4.2	12
102	Void growth in single crystal Copper-an atomistic modeling and statistical analysis study. <i>Philosophical Magazine</i> , <b>2018</b> , 98, 577-604	1.6	11
101	Fracture behavior of thin-walled Zircaloy fuel clad tubes of Indian pressurized heavy water reactor. <i>International Journal of Fracture</i> , <b>2012</b> , 173, 175-188	2.3	11
100	A finite element program for on-line life assessment of critical plant components. <i>Engineering Failure Analysis</i> , <b>2009</b> , 16, 85-111	3.2	11
99	Nonlinear behaviour of piezoceramics under weak electric fields. Part-II: Numerical results and validation with experiments. <i>International Journal of Solids and Structures</i> , <b>2006</b> , 43, 1437-1458	3.1	11
98	An analytical formulation in 3D domain for the nonlinear response of piezoelectric slabs under weak electric fields. <i>International Journal of Solids and Structures</i> , <b>2007</b> , 44, 4656-4672	3.1	10
97	A novel approach based on flexible supports for forming non-axisymmetric parts in SPISF. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 92, 2463-2477	3.2	9
96	Estimation of transverse tensile behavior of Zircaloy pressure tubes using ring-tensile test and finite element analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2013</b> , 227, 1177-1186	1.3	8
95	Evaluation of fracture toughness and its scatter in the DBTT region of different types of pressure vessel steels. <i>Engineering Failure Analysis</i> , <b>2011</b> , 18, 172-185	3.2	8
94	A load-separation technique to evaluate crack growth and fracture resistance behaviour of thin-walled axially cracked tubular specimens. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2012</b> , 226, 1447-1461	1.3	8
93	Interaction of run-in edge dislocations with twist grain boundaries in Al-a molecular dynamics study. <i>Philosophical Magazine</i> , <b>2016</b> , 96, 1809-1831	1.6	8
92	Deformation behavior of Nickel-based superalloy Su-263: Experimental characterization and crystal plasticity finite element modeling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 735, 19-30	5.3	7
91	Dislocation nucleation from damaged grain boundaries in face centered cubic metals [An atomistic study. <i>Materialia</i> , <b>2019</b> , 8, 100497	3.2	7
90	Investigation of Deformation Behavior of Ring-Tensile Specimens Machined from Pressure Tubes of Indian PHWR. <i>Transactions of the Indian Institute of Metals</i> , <b>2014</b> , 67, 167-176	1.2	7

89	Top-quark mass and a symmetric Cabibbo-Kobayashi-Maskawa matrix. <i>Physical Review D</i> , <b>1991</b> , 44, 2860-2863	4.9	7
88	An atomistic study of resistance offered by twist grain boundaries to incoming edge dislocation in FCC metals. <i>Materials Letters</i> , <b>2016</b> , 180, 11-14	3.3	7
87	Investigation of Fracture Behavior of Steam Generator Tubes of Indian PHWR using PLT Specimens. <i>Procedia Engineering</i> , <b>2013</b> , 55, 578-584		6
86	Helicopter flight control using inverse optimal control and backstepping <b>2012</b> ,		6
85	Robust altitude control for a small helicopter by considering the ground effect compensation <b>2012</b> ,		6
84	A Comparative Assessment of Local and Nonlocal Damage Models for Prediction of Fracture Behavior during Mixed-Mode Loading. <i>Procedia Engineering</i> , <b>2013</b> , 55, 493-498		5
83	Shell Element Formulation Based Finite Element Modeling, Analysis and Experimental Validation of Incremental Sheet Forming Process <b>2015</b> ,		5
82	17 keV nondegenerate Majorana neutrino and neutrino mixing. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1991</b> , 267, 243-248	4.2	5
81	Simulation of bicrystal deformation including grain boundary effects: Atomistic computations and crystal plasticity finite element analysis. <i>Computational Materials Science</i> , <b>2020</b> , 179, 109641	3.2	4
80	Simulation of Material Stress-Strain Curve and Creep Deformation Response of Nickel Based Superalloys Using Crystal Plasticity Based Finite Element Models. <i>Transactions of the Indian Institute of Metals</i> , <b>2016</b> , 69, 949-960	1.2	4
79	Evaluation of Creep Deformation and Mechanical Properties of Nickel-based Superalloys through FE Analysis Based on Crystal Plasticity Models. <i>Procedia Engineering</i> , <b>2013</b> , 55, 342-347		4
78	An atomistic modelling and statistical analysis study of crack void interaction in Aluminum. <i>Philosophical Magazine Letters</i> , <b>2017</b> , 97, 504-514	1	4
77	Effect of Tool Shape on Surface Finish of Components Formed Through Incremental Sheet Forming Process <b>2015</b> ,		4
76	A mesh-independent Gurson-Vergaard-Needleman damage model and its application in simulating ductile fracture behaviour. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2009</b> , 223, 283-292	1.3	4
75	Real-time Neural Network based Identification of a Rotary-Wing UAV dynamics for autonomous flight <b>2009</b> ,		4
74	A mathematical model in three-dimensional piezoelectric continuum to predict non-linear responses of piezoceramic materials. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2008</b> , 222, 2251-2268	1.3	4
73	Symmetric Cabibbo-Kobayashi-Maskawa matrix and quark mass matrices. <i>Physical Review D</i> , <b>1992</b> , 45, 2421-2426	4.9	4
72	Atomistically informed crystal plasticity analysis of deformation behavior of alloy 690 including grain boundary effects. <i>Materialia</i> , <b>2021</b> , 16, 101053	3.2	4

71	Effect of texture on crack initiation toughness and the corresponding anisotropy in ductile fracture resistance of thin Zircaloy-4 sheets of Indian PHWR core component. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 535, 152189	3.3	3
70	Validating generality of recently developed critical plane model for fatigue life assessments using multiaxial test database on seventeen different materials. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2020</b> , 43, 1327-1352	3	3
69	On the Application of Rousselier Damage Model to Predict Fracture Resistance Behavior of Zircaloy Fuel Pin Specimens. <i>Procedia Engineering</i> , <b>2013</b> , 55, 710-715		3
68	Real-Time Monitoring of High Temperature Components. <i>Procedia Engineering</i> , <b>2013</b> , 55, 421-427		3
67	Suitability of Miniature Tensile Specimens for Estimating the Mechanical Property Data of Pressure Tubes: An Assessment. <i>Transactions of the Indian Institute of Metals</i> , <b>2014</b> , 67, 47-55	1.2	3
66	Deformation Mechanisms Coupled with Phase Field and Crystal Plasticity Modeling in a High-Temperature Polycrystalline Ni-Based Superalloy <b>2012</b> , 25-33		3
65	A new model for the prediction of chromium depletion near grain boundaries and corresponding sensitization in austenitic stainless steels. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2011</b> , 225, 809-815	1.3	3
64	Creep damage evaluation of a power plant header using combined FEM analysis and quantitative metallography. <i>Transactions of the Indian Institute of Metals</i> , <b>2010</b> , 63, 411-416	1.2	3
63	A study on ductile fracture initiation in the PHT piping material of an Indian PHWR using local approach. <i>International Journal of Pressure Vessels and Piping</i> , <b>1999</b> , 76, 319-330	2.4	3
62	Multiscale modeling of plasticity in a copper single crystal deformed at high strain rates <b>2015</b> , 1,		3
61	Experimental evaluation of orientation and temperature dependent material stress-strain curves of Zr2.5Nb Indian pressure tube material and development of a suitable anisotropic material model. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 530, 151970	3.3	3
60	Study of effect of loading rate on fracture toughness of SA516Gr.70 steel for nuclear pressure vessel and piping in DBTT regime and evaluation of shift in reference transition temperature. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2020</b> , 110, 102814	3.7	3
59	A New Procedure to Evaluate Parameters of Johnson Cook Elastic Plastic Material Model from Varying Strain Rate Split Hopkinson Pressure Bar Tests. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 8500	1.6	3
58	Harnessing atomistic simulations to quantify activation parameters for dislocation nucleation from a grain boundary in Nickel. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2020</b> , 384, 126501	2.3	2
57	A geometry-dependent generalized shape function for calculation of stress intensity factor for axially cracked thin-walled tubes. <i>International Journal of Advanced Structural Engineering</i> , <b>2014</b> , 6, 1-11	2	2
56	Planar trajectory tracking controller for a small-sized helicopter considering servos and delay constraints <b>2011</b> ,		2
55	Model predictive attitude control of vario unmanned helicopter <b>2011</b> ,		2
54	Real-time validation of a dual neural network controller for a low-cost UAV <b>2009</b> ,		2

53	A computationally efficient approach for NN based system identification of a rotary wing UAV. <i>International Journal of Control, Automation and Systems</i> , <b>2010</b> , 8, 727-734	2.9	2
52	Consumed creep life fraction assessment of critical locations of an in-service super heater outlet header under surveillance programme. <i>Transactions of the Indian Institute of Metals</i> , <b>2010</b> , 63, 423-429	1.2	2
51	A Mesh Independent GTN Damage Model and Its Application in Simulation of Ductile Fracture Behaviour <b>2008</b> ,		2
50	Neural Network Based Model Predictive Controller for Simplified Heave Model of an Unmanned Helicopter. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 356-363	0.9	2
49	Fracture toughness evaluation of axially-cracked tubular thin-walled specimens of Zircaloy-4 and its implications for integrity analysis of nuclear fuel clad. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2020</b> , 106, 102449	3.7	2
48	Evolution of shape and size of voids under shear dominated loading conditions in ductile materials. <i>Engineering Fracture Mechanics</i> , <b>2020</b> , 236, 107208	4.2	2
47	Multiaxial fatigue tests under variable strain paths and asynchronous loading and assessment of fatigue life using critical plane models. <i>International Journal of Fatigue</i> , <b>2021</b> , 145, 106049	5	2
46	Experimental Investigation of Strain-Rate- and Temperature-Dependent Mechanical Properties of SA516Gr.70 Steel and Development of an Appropriate Material Model. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 116-130	1.6	2
45	Development of a model for simulation of micro-twin and corresponding asymmetry in high temperature deformation behavior of nickel-based superalloy single crystals using crystal plasticity-based framework. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2017</b> , 231, 2621-2635	1.3	1
44	Modeling the Mechanical Behavior of Dynamically Deformed Cu using the Theories of Crystal Plasticity. <i>Procedia Engineering</i> , <b>2017</b> , 173, 1203-1208		1
43	Simulation of Anisotropic Deformation Behavior of Pressure Tubes During High Temperature Loading Conditions. <i>Procedia Engineering</i> , <b>2017</b> , 173, 859-866		1
42	A Practical Approach to Evaluate Stress-Strain Behavior of Remotely Handled Pressure Tubes of Nuclear Reactors Using Ring Tension Test. <i>Transactions of the Indian Institute of Metals</i> , <b>2015</b> , 68, 299-310	1.2	1
41	A coupled damage model for creep. <i>Transactions of the Indian Institute of Metals</i> , <b>2010</b> , 63, 641-645	1.2	1
40	Design Aspects of a Ring Tension Test Setup and Evaluation of Transverse Material Stress-Strain Curve of Tubular Components Using FE Analysis. <i>Journal of Testing and Evaluation</i> , <b>2016</b> , 44, 20140010	1	1
39	Experimental investigation of scatter in fracture toughness data of SA516Gr.70 steel in the ductile-to-brittle transition regime for high rate of loading using split Hopkinson pressure bar test setup. <i>Engineering Failure Analysis</i> , <b>2021</b> , 122, 105288	3.2	1
38	Edge cracks in nickel and aluminium single crystals: A molecular dynamics study <b>2016</b> ,		1
37	Proposing an improved cyclic plasticity material model for assessment of multiaxial response of low C-Mn steel. <i>International Journal of Fatigue</i> , <b>2021</b> , 142, 105888	5	1
36	Identification of constitutive parameters for high temperature deformation of pressure tube of Indian PHWR considering multi-axial state of stress. <i>Nuclear Engineering and Design</i> , <b>2018</b> , 327, 286-298	1.8	0



35	A Generalized Geometric Shape Function for Evaluation of SIF Values of Thin-Walled Axially-Cracked Fuel Pin Specimens. <i>Procedia Engineering</i> , <b>2013</b> , 55, 367-373		o
34	Assessment of Cyclic Plasticity Behaviour of Primary Piping Material of Indian PHWRs Under Multiaxial Loading Scenario. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 227-247	0.4	o
33	An atomistic analysis of the effect of grain boundary and the associated deformation mechanisms during plain strain compression of a Cu bicrystal. <i>Computational Materials Science</i> , <b>2022</b> , 202, 110953	3.2	o
32	Study of plastically deformed region underneath the ball in indentation tests and evaluation of mechanical properties of materials through finite element simulation and a hybrid algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2021</b> , 235, 108-121	1.3	o
31	Simulation of HallPetch effect in alloy 690 using crystal plasticity model considering effect of grain boundaries. <i>Materials Letters</i> , <b>2021</b> , 297, 129915	3.3	o
30	Effect of shear localisation on yield surface for porous metals containing ellipsoidal voids. <i>Engineering Fracture Mechanics</i> , <b>2021</b> , 255, 107932	4.2	o
29	Development of correlation for natural convection heat transfer for large horizontal calandria vessel for in-calandria retention of corium in PHWRs. <i>Nuclear Engineering and Design</i> , <b>2020</b> , 360, 110517	1.8	
28	Stress Analysis for Integrity Assessment of High-Energy Hot Reheat Pipe Bends of 210 MW Coal-Fired Unit <b>2018</b> , 369-382		
27	Evaluation of Fracture Resistance Behavior of Zircaloy Fuel Clad Tubes of Indian PHWRs Using Experiments on Ring Specimens and Continuum Damage Mechanics Models. <i>Transactions of the Indian Institute of Metals</i> , <b>2016</b> , 69, 1687-1698	1.2	
26	Single Point Incremental Forming Using Flexible Die. <i>Lecture Notes in Mechanical Engineering</i> , <b>2016</b> , 741-749	0.4	
25	Prediction of Temperature Dependence and Scatter in Fracture Toughness of Pressure Vessel Steel using Nonlocal Damage Models. <i>Procedia Engineering</i> , <b>2013</b> , 55, 780-785		
24	Analytical solution in 2D domain for nonlinear response of piezoelectric slabs under weak electric fields. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2009</b> , 14, 2817-2826	3.7	
23	On the non-linear response of piezoelectric slabs under weak electric fields: Experimental and analytical modelling. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2009</b> , 223, 1493-1506	1.3	
22	A probabilistic approach to evaluate creep and fatigue damage in critical components. <i>Transactions of the Indian Institute of Metals</i> , <b>2010</b> , 63, 595-600	1.2	
21	Analytical Determination of Material JR and Fracture Toughness Transition Curves Using Micro-Mechanical Modelling <b>2004</b> , 257		
20	On-Line Remaining Life Assessment of Hot Reheat Pipe Bend <b>2005</b> , 39		
19	CP-VIOLATION IN EPR-LIKE NEUTRINO OSCILLATIONS. <i>Modern Physics Letters A</i> , <b>1998</b> , 13, 533-539	1.3	
18	RANK-ONE MASS MATRIX AND PHENOMENOLOGICAL CONSTRAINTS. <i>Modern Physics Letters A</i> , <b>1992</b> , 07, 757-762	1.3	

17	Application of Split Hopkinson Pressure Bar Test Setup for Determination of Fracture Toughness KC at High Strain Rate Loading	
16	Study of variation of activation energy barrier with grain boundary misorientations associated with dislocation nucleation from different grain boundaries in Ni. <i>Philosophical Magazine</i> , 2016, 44, 20140341	1.6
15	Experimental and Numerical Investigation of a Ring Tensile Test for Evaluation of Mechanical and Fracture Properties of Thin-Walled Fuel-Clad Tubes. <i>Journal of Testing and Evaluation</i> , 2016, 44, 20140341	1
14	Study of the Effects of Various Geometrical and Loading Parameters on the Fracture Resistance Behaviour of a Reactor-Grade Pressure Vessel Steel in the Upper Shelf as Well as DBTT Regime. <i>Journal of Testing and Evaluation</i> , 2016, 44, 20140340	1
13	A nonlocal damage-mechanics-based approach suitable for failure assessment and remaining life estimation of critical industrial components 2016, 277-309	
12	Prevention of Corrosion in Austenitic Stainless Steel through a Predictive Numerical Model Simulating Grain Boundary Chromium Depletion. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2017, 374-389	0.5
11	Numerical Simulation of High Temperature Deformation Behavior of Nickel-Based Superalloys Using Crystal Plasticity Models and Finite Element Method 2017, 341-373	
10	Experiments on a Ring Tension Setup and FE Analysis to Evaluate Transverse Mechanical Properties of Tubular Components. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2017, 91-115	0.5
9	FE Analysis and Experimental Investigation of Cracked and Un-Cracked Thin-Walled Tubular Components to Evaluate Mechanical and Fracture Properties. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2017, 266-293	0.5
8	Development of a Material Constitutive Model and Simulation Technique to Predict Nonlinearities in Piezoelectric Materials under Weak Electric Fields. <i>Advances in Mechatronics and Mechanical Engineering</i> , 2017, 271-303	0.5
7	Numerical Simulation of High Temperature Deformation Behavior of Nickel-Based Superalloys Using Crystal Plasticity Models and Finite Element Method. <i>Advances in Mechatronics and Mechanical Engineering</i> , 2017, 414-446	0.5
6	Entwicklung eines nichtlokalen Schädigungsmodells*. <i>Materialprüfung/Materials Testing</i> , 2010, 52, 36-41	0.9
5	Crystal Plasticity Modelling of Neutron Irradiation Effects on the Flow and Damage Behaviour of Zircaloy-4. <i>Lecture Notes in Mechanical Engineering</i> , 2022, 255-265	0.4
4	Multiaxial Cyclic Test Response of Low C-Mn Steel Under Proportional/Non-proportional Conditions and Constitutive Material Equations Aspects. <i>Lecture Notes in Mechanical Engineering</i> , 2022, 329-341	0.4
3	Molecular Dynamics Simulations of Dislocation Nucleation from a Pristine and Damaged Grain Boundary in Nickel and Quantification of Associated Activation Energy Parameters. <i>Lecture Notes in Mechanical Engineering</i> , 2022, 21-26	0.4
2	Modified Cowper-Symonds Model for Predicting the Stress-Strain Behavior of SA516 Gr. 70 Carbon Steel. <i>Lecture Notes in Mechanical Engineering</i> , 2022, 65-72	0.4
1	Probing grain boundary dependence of damage evolution under shock loading in a variety of FCC metals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 436, 128091	2.3