

Tariq A Khraishi

List of Publications by Year in descending order

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52
papers

896
citations

567281

15
h-index

477307

29
g-index

53
all docs

53
docs citations

53
times ranked

749
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale modelling of plastic flow localization in irradiated materials. <i>Nature</i> , 2000, 406, 871-874.	27.8	308
2	Localized deformation and hardening in irradiated metals: Three-dimensional discrete dislocation dynamics simulations. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2002, 33, 285-296.	2.1	58
3	Free-Surface Effects in 3D Dislocation Dynamics: Formulation and Modeling. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2002, 124, 342-351.	1.4	46
4	A parametric-experimental study of void growth in superplastic deformation. <i>International Journal of Plasticity</i> , 2001, 17, 297-315.	8.8	39
5	Comparison of Plate-Screw Systems Used in Mandibular Fracture Reduction: Finite Element Analysis. <i>Journal of Biomechanical Engineering</i> , 2006, 128, 654-662.	1.3	35
6	Dislocation dynamics simulations of the interaction between a short rigid fiber and a glide circular dislocation pile-up. <i>Computational Materials Science</i> , 2002, 24, 310-322.	3.0	33
7	Biomechanical Analysis of Mandibular Angle Fractures. <i>Journal of Oral and Maxillofacial Surgery</i> , 2011, 69, 3010-3014.	1.2	31
8	Dynamic simulations of the interaction between dislocations and dilute particle concentrations in metal-matrix composites (MMCs). <i>International Journal of Plasticity</i> , 2004, 20, 1039-1057.	8.8	29
9	Mechanical Design Optimization of Bioabsorbable Fixation Devices for Bone Fractures. <i>Journal of Craniofacial Surgery</i> , 2009, 20, 389-398.	0.7	29
10	Brain CT to Assess Intracranial Pressure in Patients with Traumatic Brain Injury. <i>Journal of Neuroimaging</i> , 2016, 26, 37-40.	2.0	28
11	A distributed-dislocation method for treating free-surface image stresses in three-dimensional dislocation dynamics simulations. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2004, 12, S289-S301.	2.0	24
12	Isothermal mass flow measurements in microfabricated rectangular channels over a very wide Knudsen range. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 055013.	2.6	23
13	Effects of Photovoltaic Module Materials and Design on Module Deformation Under Load. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 838-843.	2.5	22
14	The treatment of traction-free boundary condition in three-dimensional dislocation dynamics using generalized image stress analysis. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 309-310, 283-287.	5.6	21
15	Purtscher Retinopathy: An Alternative Etiology Supported by Computer Fluid Dynamic Simulations. , 2011, 52, 8102.		19
16	Void growth and interaction experiments: Implications to the optimal straining rate in superplastic forming. <i>International Journal of Plasticity</i> , 2006, 22, 1728-1744.	8.8	18
17	Closed-Form Solutions for the Mode II Crack tip Plastic Zone Shape. <i>International Journal of Fracture</i> , 2003, 122, L137-L142.	2.2	17
18	Finite Element Analysis of Screw-Plate Systems for Fixation of Parasymphyseal Fractures of the Mandible. <i>Journal of Mechanics</i> , 2007, 23, 69-77.	1.4	12

#	ARTICLE	IF	CITATIONS
19	Numerical methodology for treating static and dynamic dislocation problems near a free surface. Journal of Physics Communications, 2020, 4, 055005.	1.2	11
20	Experimental and Numerical Modeling of Screws Used for Rigid Internal Fixation of Mandibular Fractures. Modelling and Simulation in Engineering, 2008, 2008, 1-11.	0.7	10
21	Effect of fracture healing on the fixation of a parasymphyseal mandibular fracture: a study using the finite element method. International Journal of Biomedical Engineering and Technology, 2007, 1, 204.	0.2	8
22	Biomechanics of the Rhombic Transposition Flap. Otolaryngology - Head and Neck Surgery, 2014, 151, 952-959.	1.9	7
23	Optimizing powder metallurgy methods: Effects of carbon nanotube dispersal mechanisms on mechanical properties of aluminium/carbon nanotube composites. Journal of Composite Materials, 2016, 50, 2375-2388.	2.4	6
24	The elastic fields of misfit cylindrical particles: a dislocation-based numerical approach. Mechanics Research Communications, 2003, 30, 325-334.	1.8	5
25	Modeling and experiments on epitaxially grown multilayers with implications to critical thickness. Journal of Electronic Materials, 2005, 34, 522-527.	2.2	5
26	Mechanical and electrical properties of carbon nanotubes surface-etched on polydimethylsiloxane for microvalve actuation. Polymer International, 2013, 62, 608-615.	3.1	5
27	A Mesh-Independent Brute-Force Approach for Traction-Free Corrections in Dislocation Problems. Modeling and Numerical Simulation of Material Science, 2021, 11, 1-18.	0.3	5
28	The Effect of Multipoles on the Elasto-Plastic Properties of a Crystal: Theory and Three-Dimensional Dislocation Dynamics Modeling. Journal of Engineering Materials and Technology, Transactions of the ASME, 2022, 144, .	1.4	5
29	An anisotropic elasticity model of strain partitioning in epitaxial thin layers. Journal of Electronic Materials, 2003, 32, 836-841.	2.2	4
30	Elastic fields of 2D and 3D misfit particles in an infinite medium. Mechanics Research Communications, 2007, 34, 31-43.	1.8	4
31	Screw dislocations around voids of any shape: A generalized numerical approach. Forces in Mechanics, 2021, 3, 100014.	2.8	4
32	Engineering Analysis of an Unreported Complication of Septoplasty. Archives of Facial Plastic Surgery, 2010, 12, 385-92.	0.7	3
33	A practical route for the characterization of zinc powder compacts with the aid of instrumented indentation and scratch tests. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 494-499.	5.6	3
34	Finite element analysis of plate-screw systems used in medial opening wedge proximal tibial osteotomies. International Journal of Biomedical Engineering and Technology, 2015, 19, 154.	0.2	3
35	Multi-scale modeling of solute atom strengthening using 3D discrete dislocation dynamics. Journal of Materials Science, 0, , 1.	3.7	3
36	Modeling of Screw-Plate Systems for Mandibular Fracture Repair. , 2004, , 345.		2

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37	Micro-indentation of metallic photonic crystals: experimental and numerical investigations. International Journal of Mechanics and Materials in Design, 2008, 4, 407-418.	3.0	2
38	The Effects of Frictionless/Frictional Contact Boundary Conditions in Finite Element Modeling of Mandibular Fractures. Multidiscipline Modeling in Materials and Structures, 2008, 4, 227-236.	1.3	2
39	A holed-plate with material dislocations: Formulation and verification. Mathematics and Mechanics of Solids, 2022, 27, 896-909.	2.4	2
40	Characterizing the Fatigue Behavior of Wrought Fe-2V Using Experimental Techniques. Journal of Engineering Materials and Technology, Transactions of the ASME, 2022, 144, .	1.4	2
41	Microstructural modeling of ferroic switching and phase transitions in PZT. , 2007, , .		1
42	Characterization of Zinc Powder Compactions: Factors Affecting Mechanical Properties and Analytical Powder Metallurgy Models. Journal of Engineering Materials and Technology, Transactions of the ASME, 2012, 134, .	1.4	1
43	The Strain/Stress Fields of a Subsurface Rectangular Dislocation Loop Parallel to the Surface of a Half Medium: Analytical Solution with Verification. Journal of Applied Mathematics and Physics, 2021, 09, 146-175.	0.4	1
44	The Interaction of a Circular Dislocation Pile-up with a Short Rigid Fiber: a 3-D Dislocation Dynamics Simulation. Materials Research Society Symposia Proceedings, 2001, 683, 1.	0.1	0
45	Special Issue on Multi-Scale Modeling of Plastic Deformation Phenomena. Journal of Engineering Materials and Technology, Transactions of the ASME, 2002, 124, 289-289.	1.4	0
46	Modeling the Elastic Fields in Epitaxially Grown Multilayers. Materials Research Society Symposia Proceedings, 2004, 821, 54.	0.1	0
47	Modeling of curvature in multilayered epitaxially grown films. International Journal of Mechanics and Materials in Design, 2006, 3, 265-275.	3.0	0
48	Analytically describing the temperature-dependent constitutive parameters of an electromagnetic metamaterial. Journal of Intelligent Material Systems and Structures, 2012, 23, 463-471.	2.5	0
49	Void Growth and Interaction in a Structural Aluminum Alloy: Experiments and Theory. Journal of Minerals and Materials Characterization and Engineering, 2021, 09, 14-37.	0.4	0
50	Special Issue Dedicated to the Memory of Professor Hussein Zbib. Journal of Engineering Materials and Technology, Transactions of the ASME, 0, , 1-4.	1.4	0
51	Dislocation Dipole Study on Material Hardening/Softening. Minerals, Metals and Materials Series, 2021, , 507-513.	0.4	0
52	An Improved Collocation Method to Treat Traction-Free Surfaces in Dislocation Dynamics Simulations. Minerals, Metals and Materials Series, 2020, , 829-834.	0.4	0