Yunan Prawoto

List of Publications by Year
in descending order

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Version: 2024-02-01

42	1,147	686830 13	395343 33
papers	citations	h-index	g-index

42	42	42	1063
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Seeing auxetic materials from the mechanics point of view: A structural review on the negative Poissonâ€™s ratio. Computational Materials Science, 2012, 58, 140-153.	1.4	504
2	Design and failure modes of automotive suspension springs. Engineering Failure Analysis, 2008, 15, 1155-1174.	1.8	92
3	Analytical solution and finite element approach to the 3D re-entrant structures of auxetic materials. Mechanics of Materials, 2014, 74, 76-87.	1.7	84
4	Effect of Prior Austenite Grain Size on the Morphology and Mechanical Properties of Martensite in Medium Carbon Steel. Journal of Materials Science and Technology, 2012, 28, 461-466.	5.6	81
5	Computational approach using Johnsonâ€“Cook model on dual phase steel. Computational Materials Science, 2012, 54, 48-55.	1.4	43
6	Anti-corrosive properties of natural honey on Alâ€“Mgâ€“Si alloy in seawater. Current Applied Physics, 2010, 10, 923-929.	1.1	39
7	Carbon Restoration for Decarburized Layer in Spring Steel. Journal of Materials Engineering and Performance, 2004, 13, 627-636.	1.2	31
8	Influence of ferrite fraction within martensite matrix on fatigue crack propagation: An experimental verification with dual phase steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 552, 547-554.	2.6	31
9	Wire ropes: Computational, mechanical, and metallurgical properties under tension loading. Computational Materials Science, 2012, 56, 174-178.	1.4	22
10	Quasi Triâ€Axial Method for the Fabrication of Optimized Polyurethane Auxetic Foams. Physica Status Solidi (B): Basic Research, 2019, 256, 1800587.	0.7	22
11	Designing steel microstructure based on fracture mechanics approach. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 507, 74-86.	2.6	20
12	Effect of microstructures on SCC of steel: Field failure analysis case study and laboratory test result. Engineering Failure Analysis, 2011, 18, 1858-1866.	1.8	18
13	Failure Analysis and Life Assessment of Coating: The Use of Mixed Mode Stress Intensity Factors in Coating and Other Surface Engineering Life Assessment. Journal of Failure Analysis and Prevention, 2012, 12, 190-197.	0.5	17
14	Energy density mechanics applied to coating blistering problems. Theoretical and Applied Fracture Mechanics, 2011, 56, 89-94.	2.1	12
15	Coupled, macroâ€“micro modeling for hot deformation and sintering. Journal of Computational and Applied Mathematics, 2002, 149, 307-324.	1.1	11
16	Stress Intensity Factor and Plastic Zone of Auxetic Materials: A Fracture Mechanics Approach to a Chiral Structure Having Negative Poissonâ€™s Ratio. Mechanics of Advanced Materials and Structures, 2015, 22, 213-223.	1.5	11
17	Tailoring microstructures: A technical note on an eco-friendly approach to weight reduction through heat treatment. Materials & Design, 2013, 50, 635-645.	5.1	9
18	Two-dimensional modeling to compute plastic zone in front of compact tension sample of a multiphase material. Computational Materials Science, 2009, 47, 482-490.	1.4	8

#	Article	IF	Citations
19	Three-dimensional modeling to compute plastic zone in front of crack in compact tension sample of multiphase material. Computational Materials Science, 2011, 50, 1499-1503.	1.4	8
20	Unified model for blister growth in coating degradation using weight function and diffusion concepts. Materials and Corrosion - Werkstoffe Und Korrosion, 2013, 64, 794-800.	0.8	8
21	A new direction in computational fracture mechanics in materials science: Will the combination of probabilistic and fractal fracture mechanics become mainstream?. Computational Materials Science, 2013, 69, 197-203.	1.4	8
22	Re-visiting the â€˜rule of mixtureâ€™ used in materials with multiple constituting phases: A technical note on morphological considerations in austenite case study. Computational Materials Science, 2012, 65, 528-535.	1.4	7
23	Application of J-integral concept on blister coating problem. Engineering Fracture Mechanics, 2012, 92, 114-125.	2.0	7
24	Microstructural consideration on quantitative analysis of thermal treatment: Application to decarburization of steel. Journal of King Saud University, Engineering Sciences, 2013, 25, 141-147.	1.2	6
25	Fracture Mechanics Approach to Splitting in Low Spring Index Cold Coiling Process. Journal of Failure Analysis and Prevention, 2019, 19, 738-751.	0.5	6
26	Automotive power window mechanism failure initiated by overload. Engineering Failure Analysis, 2013, 31, 179-188.	1.8	5
27	Synergy of erosion and galvanic effects of dissimilar steel welding: Field failure analysis case study and laboratory test results. Journal of King Saud University, Engineering Sciences, 2013, 25, 59-64.	1.2	5
28	Quantitative Failure Analysis Using a Simple Finite Element Approach. Journal of Failure Analysis and Prevention, 2010, 10, 8-10.	0.5	4
29	Stress Corrosion Cracking of Steel and Aluminum in Sodium Hydroxide: Field Failure and Laboratory Test. Advances in Materials Science and Engineering, 2012, 2012, 1-8.	1.0	4
30	How to compute plastic zones of heterogeneous materials: A simple approach using classical continuum and fracture mechanics. International Journal of Solids and Structures, 2012, 49, 2195-2201.	1.3	4
31	Overheated pipe due to scale: Field failure investigation and finite element analysis. Case Studies in Engineering Failure Analysis, 2017, 8, 36-48.	1.2	4
32	Linear elastic fracture mechanics (LEFM) analysis of the effect of residual stress on fatigue crack propagation rate. Journal of Failure Analysis and Prevention, 2002, 2, 75-83.	0.0	3
33	Modeling creep damage based on real microstructure. Journal of Failure Analysis and Prevention, 2002, 2, 68-79.	0.0	3
34	Modified Fourier solution for diffusion governing law applied to blister formation and development. Computational Materials Science, 2012, 62, 105-109.	1.4	3
35	Critical view on the usage of C-ring specimen for stress corrosion crack (SCC) test on orthopedic implant: Experimental, numerical and analytical approaches. Materials Science and Engineering C, 2012, 32, 1271-1279.	3.8	3
36	Stress distribution among constituting phases within the austenite microstructure: Mechanics and metallurgical approaches using 2-D model of stainless steel compact tension specimen. Computational Materials Science, 2012, 60, 105-112.	1.4	1

#	Article	IF	Citations
37	Incorporating the morphological difference of corrosion cracks in computational fracture mechanics approach. Computational Materials Science, 2012, 56, 166-168.	1.4	1
38	Mesomechanical aspects of computational modeling for non-homogeneous materials joined by forming. Journal of King Saud University, Engineering Sciences, 2017, 29, 40-49.	1.2	1
39	On the Influence of the Initial Shear Damage to the Cyclic Deformation and Damage Mechanism. Metals, 2022, 12, 1072.	1.0	1
40	Coating Life Assessment: The Use of Adhesion Strength in Parametric Development in Coating Degradation Evaluation. Advanced Materials Research, 0, 488-489, 427-431.	0.3	0
41	Microstructural Damage Mapping on Heat-Resistant Steel Due to High-Temperature Fatigue. Journal of Failure Analysis and Prevention, 2018, 18, 1616-1624.	0.5	0
42	The Archimedesâ€™ Constant, Ï€ Seen by Mechanical Engineers. Mathematical and Computational Applications, 2019, 24, 72.	0.7	0