

# Yunan Prawoto

## List of Publications by Year in descending order

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42  
papers

1,147  
citations

686830

13  
h-index

395343

33  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1063  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Influence of the Initial Shear Damage to the Cyclic Deformation and Damage Mechanism. <i>Metals</i> , 2022, 12, 1072.	1.0	1
2	The Archimedes's Constant, $\pi$ Seen by Mechanical Engineers. <i>Mathematical and Computational Applications</i> , 2019, 24, 72.	0.7	0
3	Quasi Triaxial Method for the Fabrication of Optimized Polyurethane Auxetic Foams. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800587.	0.7	22
4	Fracture Mechanics Approach to Splitting in Low Spring Index Cold Coiling Process. <i>Journal of Failure Analysis and Prevention</i> , 2019, 19, 738-751.	0.5	6
5	Microstructural Damage Mapping on Heat-Resistant Steel Due to High-Temperature Fatigue. <i>Journal of Failure Analysis and Prevention</i> , 2018, 18, 1616-1624.	0.5	0
6	Overheated pipe due to scale: Field failure investigation and finite element analysis. <i>Case Studies in Engineering Failure Analysis</i> , 2017, 8, 36-48.	1.2	4
7	Mesomechanical aspects of computational modeling for non-homogeneous materials joined by forming. <i>Journal of King Saud University, Engineering Sciences</i> , 2017, 29, 40-49.	1.2	1
8	Stress Intensity Factor and Plastic Zone of Auxetic Materials: A Fracture Mechanics Approach to a Chiral Structure Having Negative Poisson's Ratio. <i>Mechanics of Advanced Materials and Structures</i> , 2015, 22, 213-223.	1.5	11
9	Analytical solution and finite element approach to the 3D re-entrant structures of auxetic materials. <i>Mechanics of Materials</i> , 2014, 74, 76-87.	1.7	84
10	Unified model for blister growth in coating degradation using weight function and diffusion concepts. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013, 64, 794-800.	0.8	8
11	A new direction in computational fracture mechanics in materials science: Will the combination of probabilistic and fractal fracture mechanics become mainstream?. <i>Computational Materials Science</i> , 2013, 69, 197-203.	1.4	8
12	Automotive power window mechanism failure initiated by overload. <i>Engineering Failure Analysis</i> , 2013, 31, 179-188.	1.8	5
13	Tailoring microstructures: A technical note on an eco-friendly approach to weight reduction through heat treatment. <i>Materials &amp; Design</i> , 2013, 50, 635-645.	5.1	9
14	Microstructural consideration on quantitative analysis of thermal treatment: Application to decarburization of steel. <i>Journal of King Saud University, Engineering Sciences</i> , 2013, 25, 141-147.	1.2	6
15	Synergy of erosion and galvanic effects of dissimilar steel welding: Field failure analysis case study and laboratory test results. <i>Journal of King Saud University, Engineering Sciences</i> , 2013, 25, 59-64.	1.2	5
16	Stress Corrosion Cracking of Steel and Aluminum in Sodium Hydroxide: Field Failure and Laboratory Test. <i>Advances in Materials Science and Engineering</i> , 2012, 2012, 1-8.	1.0	4
17	Effect of Prior Austenite Grain Size on the Morphology and Mechanical Properties of Martensite in Medium Carbon Steel. <i>Journal of Materials Science and Technology</i> , 2012, 28, 461-466.	5.6	81
18	Influence of ferrite fraction within martensite matrix on fatigue crack propagation: An experimental verification with dual phase steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 552, 547-554.	2.6	31

#	ARTICLE	IF	CITATIONS
19	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
20	Modified Fourier solution for diffusion governing law applied to blister formation and development. Computational Materials Science, 2012, 62, 105-109.	1.4	3
21	Incorporating the morphological difference of corrosion cracks in computational fracture mechanics approach. Computational Materials Science, 2012, 56, 166-168.	1.4	1
22	Computational approach using Johnson-Cook model on dual phase steel. Computational Materials Science, 2012, 54, 48-55.	1.4	43
23	Wire ropes: Computational, mechanical, and metallurgical properties under tension loading. Computational Materials Science, 2012, 56, 174-178.	1.4	22
24	Seeing auxetic materials from the mechanics point of view: A structural review on the negative Poisson's ratio. Computational Materials Science, 2012, 58, 140-153.	1.4	504
25	Re-visiting the "rule of mixture" 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
26	Application of J-integral concept on blister coating problem. Engineering Fracture Mechanics, 2012, 92, 114-125.	2.0	7
27	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
28	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
29	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
30	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
31	Energy density mechanics applied to coating blistering problems. Theoretical and Applied Fracture Mechanics, 2011, 56, 89-94.	2.1	12
32	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
33	Quantitative Failure Analysis Using a Simple Finite Element Approach. Journal of Failure Analysis and Prevention, 2010, 10, 8-10.	0.5	4
34	Anti-corrosive properties of natural honey on Al-Mg-Si alloy in seawater. Current Applied Physics, 2010, 10, 923-929.	1.1	39
35	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
36	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

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37	Design and failure modes of automotive suspension springs. <i>Engineering Failure Analysis</i> , 2008, 15, 1155-1174.	1.8	92
38	Carbon Restoration for Decarburized Layer in Spring Steel. <i>Journal of Materials Engineering and Performance</i> , 2004, 13, 627-636.	1.2	31
39	Linear elastic fracture mechanics (LEFM) analysis of the effect of residual stress on fatigue crack propagation rate. <i>Journal of Failure Analysis and Prevention</i> , 2002, 2, 75-83.	0.0	3
40	Modeling creep damage based on real microstructure. <i>Journal of Failure Analysis and Prevention</i> , 2002, 2, 68-79.	0.0	3
41	Coupled, macro-micro modeling for hot deformation and sintering. <i>Journal of Computational and Applied Mathematics</i> , 2002, 149, 307-324.	1.1	11
42	Coating Life Assessment: The Use of Adhesion Strength in Parametric Development in Coating Degradation Evaluation. <i>Advanced Materials Research</i> , 0, 488-489, 427-431.	0.3	0