

# Yupiter H P Manurung

## List of Publications by Year in descending order

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73  
papers

499  
citations

759233

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752698

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75  
docs citations

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times ranked

405  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modelling and experimental analysis on angular strain induced by bead-on-plate SS316L GMAW using inherent strain and thermomechanical methods. International Journal of Advanced Manufacturing Technology, 2022, 120, 627-644.	3.0	5
2	Numerical Evaluation of Fatigue Crack Growth of Structural Steels Using Energy Release Rate with VCCT. Applied Sciences (Switzerland), 2022, 12, 2641.	2.5	3
3	Investigation of Material Property Model on Substrate Deformation Induced by Thick-Walled WAAM Process Using Numerical Computation. Lecture Notes in Mechanical Engineering, 2021, , 747-761.	0.4	0
4	Numerical Analysis and Modelling of Resistance Spot Welded DP600 Steel Sheets. Lecture Notes in Mechanical Engineering, 2021, , 699-709.	0.4	0
5	Simulation of Residual Stress and Distortion on Additively Manufactured SS316L Specimens Using Inherent Strain Method. Lecture Notes in Mechanical Engineering, 2021, , 657-668.	0.4	0
6	Permeability and Mechanical Properties of Additively Manufactured Porous Maraging 300 Steel. Lasers in Manufacturing and Materials Processing, 2021, 8, 28-44.	2.2	3
7	Grain Growth Prediction of SS316L Stainless Steel of Bead-On-Plate Using Numerical Computation. Lecture Notes in Mechanical Engineering, 2021, , 1-11.	0.4	0
8	Analysis of material property models on WAAM distortion using nonlinear numerical computation and experimental verification with P-GMAW. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	3.8	8
9	Experimental Verification of Numerical Computation with Evolved Material Property Model and Sensitivity Analysis on WAAM Distortion using P-GMAW. Arabian Journal for Science and Engineering, 2021, 46, 12525-12536.	3.0	3
10	Investigation of Material Model Effect on WAAM SS316L Using Numerical Simulation. Lecture Notes in Mechanical Engineering, 2021, , 329-341.	0.4	1
11	Experimental verification of computational and sensitivity analysis on substrate deformation and plastic strain induced by hollow thin-walled WAAM structure. Rapid Prototyping Journal, 2021, ahead-of-print, .	3.2	1
12	Fatigue Life Behaviour of Transverse Fillet Weld and Transverse Fillet on Weld of the HSLA S460G2+M Followed by HFMI/PIT. Applied Mechanics and Materials, 2020, 899, 126-134.	0.2	2
13	Comparative study between MSC Marc/Mentat student version and Simufact Welding for three-passed butt joint. IOP Conference Series: Materials Science and Engineering, 2020, 852, 012071.	0.6	1
14	FEM analysis of the HAZ temperature by heat source modeling on butt-joint process using msc marc mentat. IOP Conference Series: Materials Science and Engineering, 2020, 725, 012009.	0.6	2
15	Grain Growth Prediction of Bead-on-Plate with Filler Wire SS316L using FEM. IOP Conference Series: Materials Science and Engineering, 2020, 834, 012009.	0.6	2
16	Distortion Analysis of SLM Product of SS316L using Inherent Strain Method. IOP Conference Series: Materials Science and Engineering, 2020, 834, 012011.	0.6	10
17	Numerical computation for prediction of grain growth on stainless steel 316L. IOP Conference Series: Materials Science and Engineering, 2020, 834, 012037.	0.6	0
18	Thermal cutting analysis on grain size distribution using probabilistic FEM. IOP Conference Series: Materials Science and Engineering, 2020, 834, 012068.	0.6	0

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19	FEM Simulation Procedure for Distortion and Residual Stress Analysis of Wire Arc Additive Manufacturing. IOP Conference Series: Materials Science and Engineering, 2020, 834, 012083.	0.6	19
20	Investigation on Welded T-Joint Distortion Using Virtual Manufacturing Tools with Simplified Procedure. Journal of the Korean Society for Precision Engineering, 2020, 37, 91-97.	0.2	1
21	Three Response Optimization of Spot-Welded Joint Using Taguchi Design and Response Surface Methodology Techniques. Lecture Notes in Mechanical Engineering, 2019, , 85-95.	0.4	2
22	Fatigue Life Enhancement of Transverse and Longitudinal T-Joint on Offshore Steel Structure HSLA460G2+M using Semi-automated GMAW and HFMI/PIT. MATEC Web of Conferences, 2019, 269, 06001.	0.2	2
23	Investigation on forming welding process chain for DC04 tube manufacturing using experiment and FEM simulation. International Journal of Advanced Manufacturing Technology, 2019, 102, 2399-2408.	3.0	8
24	Development of Bead Modelling for Distortion Analysis Induced by Wire Arc Additive Manufacturing using FEM and Experiment. MATEC Web of Conferences, 2019, 269, 05003.	0.2	14
25	Life Enhancement of Transverse Fillet Weld on Welds of HSLA S460G2+M using HFMI/PIT. International Journal of Engineering and Advanced Technology, 2019, 8, 3388-3391.	0.3	0
26	Numerical simulation of metallic wire arc additive manufacturing (WAAM). AIP Conference Proceedings, 2018, , .	0.4	15
27	Analysis of Residual Stress on FSW AA 6061 Using Hole-Drilling with ESPI for HFMI Treated Condition. Materials Science Forum, 2017, 890, 344-347.	0.3	2
28	Structural life enhancement on friction stir welded AA6061 with optimized process and HFMI/PIT parameters. International Journal of Advanced Manufacturing Technology, 2017, 90, 3575-3583.	3.0	4
29	The performance of PDE-based image denoising on radiographic images. AIP Conference Proceedings, 2016, , .	0.4	1
30	Evaluation of nugget formation in resistance spot welding of dissimilar materials. , 2015, , .		2
31	Fourth-order partial differential equation noise removal on welding images. AIP Conference Proceedings, 2015, , .	0.4	0
32	TRI-OBJECTIVE OPTIMIZATION OF CARBON STEEL SPOT-WELDED JOINTS. Jurnal Teknologi (Sciences and Technology), 2015, 37, 100-108.	0.4	3
33	Model development for mechanical properties and weld quality class of friction stir welding using multi-objective Taguchi method and response surface methodology. Journal of Mechanical Science and Technology, 2015, 29, 2323-2331.	1.5	42
34	Partial Differential Equation (PDE) Based Image Smoothing System for Digital Radiographic Image. Communications in Computer and Information Science, 2015, , 198-207.	0.5	0
35	Investigation on welding distortion of combined butt and T-joints with 9-mm thickness using FEM and experiment. International Journal of Advanced Manufacturing Technology, 2015, 77, 775-782.	3.0	16
36	FINITE ELEMENT-BASED FATIGUE LIFE PREDICTION OF A LOAD-CARRYING CRUCIFORM JOINT. Journal of Mechanical Engineering and Sciences, 2015, 8, 1414-1425.	0.6	13

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37	EFFECT OF PROCESS PARAMETERS ON THE MECHANICAL PROPERTIES AND FAILURE BEHAVIOR OF SPOT WELDED LOW CARBON STEEL. <i>Journal of Mechanical Engineering and Sciences</i> , 2015, 8, 1489-1497.	0.6	8
38	Fatigue life assessment and enhancement on welded structure: Review on assessment methods with case study and recent technology. , 2014, , .		2
39	Application of Perona Malik anisotropic diffusion on digital radiographic image. , 2014, , .		1
40	Perona Malik anisotropic diffusion model using Peaceman Rachford scheme on digital radiographic image. , 2014, , .		1
41	Angular distortion analysis of the multipass welding process on combined joint types using thermo-elastic-plastic FEM with experimental validation. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 69, 2373-2386.	3.0	14
42	Model development for quality features of resistance spot welding using multi-objective Taguchi method and response surface methodology. <i>Journal of Intelligent Manufacturing</i> , 2013, 24, 1175-1183.	7.3	41
43	Welding distortion analysis of multipass joint combination with different sequences using 3D FEM and experiment. <i>International Journal of Pressure Vessels and Piping</i> , 2013, 111-112, 89-98.	2.6	35
44	Weld defect features extraction on digital radiographic image using Chan-Vese model. , 2013, , .		3
45	Foreground marker controlled watershed on digital radiographic image for weld discontinuity detection. , 2013, , .		0
46	Weld defect detection on digital radiographic image using level set method. , 2013, , .		0
47	Simulation and Experimental Investigation on Water Meter Housing Using FV Method. <i>Applied Mechanics and Materials</i> , 2013, 393, 234-239.	0.2	0
48	Predicting the GMAW 3F T-Fillet Geometry and Its Welding Parameter. <i>Procedia Engineering</i> , 2012, 41, 1794-1799.	1.2	13
49	Performance of noise removal methods with image quality parameter on &#x03BC;-focused digital radiographic image. , 2012, , .		1
50	Optimization and modeling of spot welding parameters with simultaneous multiple response consideration using multi-objective Taguchi method and RSM. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 2365-2370.	1.5	54
51	An Investigation on Low-Temperature Thermochemical Treatments of Austenitic Stainless Steel in Fluidized Bed Furnace. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 388-394.	2.5	13
52	A Quality Improvement Approach for Resistance Spot Welding using Multi-objective Taguchi Method and Response Surface Methodology. <i>International Journal on Advanced Science, Engineering and Information Technology</i> , 2012, 2, 215.	0.4	9
53	Development of Stand Alone Application Tool for Analyzing and Reporting Weld Imperfection Captured by 1/4-focussed Digital Radiography using MATLAB-based GUI. <i>Journal of Applied Sciences</i> , 2012, 12, 612-626.	0.3	1
54	A Feasibility Study on Low Temperature Thermochemical Treatments of Austenitic Stainless Steel in Fluidized Bed Furnace. <i>High Temperature Materials and Processes</i> , 2011, 30, .	1.4	1

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55	Simulation and experimental study on distortion of butt and T-joints using WELD PLANNER. Journal of Mechanical Science and Technology, 2011, 25, 2641-2646.	1.5	30
56	Approach to prediction of laser cutting quality by employing fuzzy expert system. Expert Systems With Applications, 2011, 38, 7558-7568.	7.6	51
57	The geometrical feature of weld defect in assessing digital radiographic image. , 2011, , .		9
58	Angular Distortion Analysis on Multipassed Welding of Combined Joint Types Using Thermo-Elastic-Plastic FEM. Advanced Materials Research, 0, 314-316, 315-318.	0.3	4
59	Distortion Analysis on Multipassed Butt Weld Using FEM and Experimental Study. Advanced Materials Research, 0, 311-313, 811-814.	0.3	0
60	Investigation on Weld Induced Distortion of Butt and T-Joints Using Thermo-Elastic-FEM and Experimental Study. Advanced Materials Research, 0, 314-316, 327-330.	0.3	0
61	Modeling and Optimization of Weld Zone Development in Resistance Seam Welding. Advanced Materials Research, 0, 576, 173-176.	0.3	3
62	Predicting Bead Geometry of 2F-Fillet Joint Welded by Small Wire SAW. Advanced Materials Research, 0, 576, 185-188.	0.3	2
63	Optimizing Robotic Welding Parameter of Single Passed Butt Joint under Simultaneous Consideration of Multiple Response Using Multi Objective Taguchi Method. Advanced Materials Research, 0, 576, 177-180.	0.3	1
64	Transversed Residual Stress Analysis on Multipassed Fillet Weld 2D-Using FEM and Experiment. Advanced Materials Research, 0, 576, 181-184.	0.3	0
65	Investigation on Weld Induced Distortion of Butt Joint Using a Local/Global Simulation Approach. Advanced Materials Research, 0, 576, 189-192.	0.3	0
66	Correlation between Welding Parameter and Bead Geometry of Flux Cored Arc Welding (FCAW) in Horizontal Position (2F). Applied Mechanics and Materials, 0, 564, 549-554.	0.2	0
67	Prediction of Flux Cored Arc Welding (FCAW) Parameters and Bead Geometry in Downhill Position (3F). Applied Mechanics and Materials, 0, 660, 342-346.	0.2	0
68	Multi-Response Optimization Using Taguchi Method of Resistance Spot Welding Parameters. Applied Mechanics and Materials, 0, 660, 120-124.	0.2	8
69	Optimization of Friction Stir Welding Parameters with Simultaneous Multiple Response Consideration Using Multi-Objective Taguchi Method. Advanced Materials Research, 0, 974, 408-412.	0.3	4
70	Effect of Process Parameter on Tensile Strength of Spot Welded S235 Sheet Using Simulation and Experimental. Applied Mechanics and Materials, 0, 899, 169-179.	0.2	0
71	Experimental validation of numerical simulation on deformation behaviour induced by wire arc additive manufacturing with feedstock SS316L on substrate S235. International Journal of Advanced Manufacturing Technology, 0, , 1.	3.0	3
72	Modeling and Simulation of Additively Manufactured Cylindrical Component Using Combined Thermomechanical and Inherent Strain Method with Nelder-Mead Optimization. 3D Printing and Additive Manufacturing, 0, , .	2.9	1

#	ARTICLE	IF	CITATIONS
73	Distortion analysis of generatively designed hinge bracket using meso-scaled thermomechanical simulation with experimental validation. Virtual and Physical Prototyping, 0, , 1-23.	10.4	0