

Dirk Pons

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

1,291
citations

430874

18
h-index

501196

28
g-index

110
all docs

110
docs citations

110
times ranked

760
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effects of Cooling and Shrinkage on the Life of Polymer 3D Printed Injection Moulds. <i>Polymers</i> , 2022, 14, 520.	4.5	1
2	Comparative Analysis of Human Operators and Advanced Technologies in the Visual Inspection of Aero Engine Blades. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2250.	2.5	16
3	Assessment of Aircraft Engine Blade Inspection Performance Using Attribute Agreement Analysis. <i>Safety</i> , 2022, 8, 23.	1.7	4
4	Evaluation of Influence Factors on the Visual Inspection Performance of Aircraft Engine Blades. <i>Aerospace</i> , 2022, 9, 18.	2.2	10
5	Multiscale Analogue Modelling of Clinching Process to Investigate Thickness Tolerance and Tool Misalignment. <i>Materials</i> , 2022, 15, 3674.	2.9	1
6	Minimum Viable Model (MVM) Methodology for Integration of Agile Methods into Operational Simulation of Logistics. <i>Logistics</i> , 2022, 6, 37.	4.3	4
7	A Framework for Interactive Development of Simulation Models with Strategicâ€“Tacticalâ€“Operational Layering Applied to the Logistics of Bulk Commodities. <i>Modelling</i> , 2022, 3, 272-299.	1.4	0
8	3D-Printed Tool Shoulder Design for the Analogue Modelling of Bobbin Friction Stir Weld Joint Quality. <i>Advances in Materials Science</i> , 2021, 21, 27-42.	1.0	2
9	Methodology for Evaluating Risk of Visual Inspection Tasks of Aircraft Engine Blades. <i>Aerospace</i> , 2021, 8, 117.	2.2	10
10	Analysis of Raised Feature Failures on 3D Printed Injection Moulds. <i>Polymers</i> , 2021, 13, 1541.	4.5	14
11	A Methodology for Harmonizing Safety and Health Scales in Occupational Risk Assessment. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 4849.	2.6	9
12	Internal Flow Behaviour and Microstructural Evolution of the Bobbin-FSW Welds: Thermomechanical Comparison between 1xxx and 3xxx Aluminium Grades. <i>Advances in Materials Science</i> , 2021, 21, 40-64.	1.0	10
13	Serum fluoride levels in ambulance staff after commencement of methoxyflurane administration compared to meta-analysis results for the general public. <i>International Journal of Occupational Medicine and Environmental Health</i> , 2021, , .	1.3	1
14	Microstructural deformation in the clinching process. <i>Journal of Advanced Joining Processes</i> , 2021, 3, 100041.	2.7	5
15	Frequency and duration of ambulance officer exposure to nitrous oxide and methoxyflurane in New Zealand. <i>International Archives of Occupational and Environmental Health</i> , 2021, 94, 1773-1782.	2.3	0
16	Towards a descriptive framework of the engineering ethical worldview. <i>Australasian Journal of Engineering Education</i> , 2021, 26, 201-218.	1.4	1
17	Assessment of the Effect of Cleanliness on the Visual Inspection of Aircraft Engine Blades: An Eye Tracking Study. <i>Sensors</i> , 2021, 21, 6135.	3.8	13
18	Automated Defect Detection and Decision-Support in Gas Turbine Blade Inspection. <i>Aerospace</i> , 2021, 8, 30.	2.2	28

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19	Comparison of Visual and Visual+Tactile Inspection of Aircraft Engine Blades. Aerospace, 2021, 8, 313.	2.2	8
20	Motion of Particles at the Fundamental Level: NLHV Theory Predictions for a Spiral Gait Locus. Journal of Modern Physics, 2021, 12, 1931-1953.	0.6	1
21	Methoxyflurane toxicity: historical determination and lessons for modern patient and occupational exposure. New Zealand Medical Journal, 2021, 134, 76-90.	0.5	2
22	Freight Operations Modelling for Urban Delivery and Pickup with Flexible Routing: Cluster Transport Modelling Incorporating Discrete-Event Simulation and GIS. Infrastructures, 2021, 6, 180.	2.8	7
23	Plant system simulation for engineering training workshops. Computer Applications in Engineering Education, 2020, 28, 17-30.	3.4	3
24	Serum fluoride levels following commencement of methoxyflurane for patient analgesia in an ambulance service. British Journal of Anaesthesia, 2020, 125, e457-e458.	3.4	2
25	Communication Adjustment in Engineering Professional and Student Project Meetings. Behavioral Sciences (Basel, Switzerland), 2020, 10, 111.	2.1	0
26	A Systematic Methodology for Developing Bowtie in Risk Assessment: Application to Borescope Inspection. Aerospace, 2020, 7, 86.	2.2	25
27	What is the role of expert intuition in process control. International Journal of Productivity and Quality Management, 2020, 31, 227.	0.2	2
28	Explanation of Photon Navigation in the Mach-Zehnder Interferometer. Optics, 2020, 1, 243-254.	1.2	2
29	Structural Anatomy of Tunnel Void Defect in Bobbin Friction Stir Welding, Elucidated by the Analogue Modelling. Applied System Innovation, 2020, 3, 2.	4.6	12
30	Team Role Adoption and Distribution in Engineering Project Meetings. Behavioral Sciences (Basel,) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	2.1	4
31	Analogue Modelling of Flow Patterns in Bobbin Friction Stir Welding by the Dark-Field/Bright-Field Illumination Method. Advances in Materials Science, 2020, 20, 56-70.	1.0	9
32	Characterization of Dissimilar Al-Cu BFSW Welds; Interfacial Microstructure, Flow Mechanism and Intermetallics Formation. Advances in Materials Science, 2020, 20, 52-78.	1.0	4
33	EBSD Characterization of Bobbin Friction Stir Welding of AA6082-T6 Aluminium Alloy. Advances in Materials Science, 2020, 20, 49-74.	1.0	5
34	Flow-Based Anatomy of Bobbin Friction-Stirred Weld; AA6082-T6 Aluminium Plate and Analogue Plasticine Model. Applied Mechanics, 2020, 1, 3-19.	1.5	12
35	A bootstrap approach for predicting fluoride toxicity in paramedics after occupational methoxyflurane exposure. IFAC Journal of Systems and Control, 2019, 9, 100061.	1.7	1
36	Texture Evolution in AA6082-T6 BFSW Welds: Optical Microscopy and EBSD Characterisation. Materials, 2019, 12, 3215.	2.9	13

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37	Alignment of the Safety Assessment Method with New Zealand Legislative Responsibilities. Safety, 2019, 5, 59.	1.7	10
38	Bowtie Methodology for Risk Analysis of Visual Borescope Inspection during Aircraft Engine Maintenance. Aerospace, 2019, 6, 110.	2.2	20
39	A methodology for setting the injection moulding process parameters for polymer rapid tooling inserts. Rapid Prototyping Journal, 2019, 25, 1493-1505.	3.2	23
40	Categorization of Failures in Polymer Rapid Tools Used for Injection Molding. Processes, 2019, 7, 17.	2.8	16
41	Taxonomy of Gas Turbine Blade Defects. Aerospace, 2019, 6, 58.	2.2	36
42	Electrification in Remote Communities: Assessing the Value of Electricity Using a Community Action Research Approach in Kabakaburi, Guyana. Sustainability, 2019, 11, 2566.	3.2	5
43	Advancing lean management: The missing quantitative approach. Operations Research Perspectives, 2019, 6, 100114.	2.1	25
44	Interaction Diagrams: Development of a Method for Observing Group Interactions. Behavioral Sciences (Basel, Switzerland), 2019, 9, 5.	2.1	4
45	AFM Characterization of Stir-Induced Micro-Flow Features within the AA6082-T6 BFSW Welds. Technologies, 2019, 7, 80.	5.1	12
46	Internal Material Flow Layers in AA6082-T6 Butt-Joints during Bobbin Friction Stir Welding. Metals, 2019, 9, 1059.	2.3	12
47	Implementing leanâ€™Outcomes from SME case studies. Operations Research Perspectives, 2018, 5, 94-104.	2.1	81
48	Development of a unified creepâ€fatigue equation including heat treatment. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 170-182.	3.4	10
49	Development of a stress-based creep-fatigue equation: Accommodating pure-fatigue to pure-creep for the high-cycle loading regime. International Journal of Damage Mechanics, 2018, 27, 1397-1415.	4.2	3
50	An Explicit Creep-Fatigue Model for Engineering Design Purposes. Metals, 2018, 8, 853.	2.3	4
51	Principles of Product Design in Developing Countries. Applied System Innovation, 2018, 1, 11.	4.6	5
52	Measuring Industrial Health Using a Diminished Quality of Life Instrument. Safety, 2018, 4, 55.	1.7	10
53	Crack Propagation Mechanisms for Creep Fatigue: A Consolidated Explanation of Fundamental Behaviours from Initiation to Failure. Metals, 2018, 8, 623.	2.3	28
54	Thermomechanical Grain Refinement in AA6082-T6 Thin Plates under Bobbin Friction Stir Welding. Metals, 2018, 8, 375.	2.3	33

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55	Why Do Workers Take Safety Risks?â€”A Conceptual Model for the Motivation Underpinning Perverse Agency. <i>Safety</i> , 2018, 4, 24.	1.7	16
56	Formation Mechanisms for Entry and Exit Defects in Bobbin Friction Stir Welding. <i>Metals</i> , 2018, 8, 33.	2.3	24
57	Effect of Matter Distribution on Relativistic Time Dilation. <i>Journal of Modern Physics</i> , 2018, 09, 500-523.	0.6	5
58	Success factors and barriers to implementing lean in the printing industry. <i>Journal of Manufacturing Technology Management</i> , 2017, 28, 458-484.	6.4	52
59	Creep-integrated fatigue equation for metals. <i>International Journal of Fatigue</i> , 2017, 98, 167-175.	5.7	20
60	A Bootstrap Approach for Predicting Methoxyflurane Occupational Exposure in Paramedicine. <i>IFAC-PapersOnLine</i> , 2017, 50, 6666-6671.	0.9	6
61	Defining Lean Changeâ€”Framing Lean Implementation in Organizational Development. <i>International Journal of Business and Management</i> , 2017, 12, 10.	0.2	2
62	Physical-Mechanism Exploration of the Low-Cycle Unified Creep-Fatigue Formulation. <i>Metals</i> , 2017, 7, 379.	2.3	4
63	Development of Metallographic Etchants for the Microstructure Evolution of A6082-T6 BFSW Welds. <i>Metals</i> , 2017, 7, 423.	2.3	32
64	A Physical Basis for Entanglement in a Non-Local Hidden Variable Theory. <i>Journal of Modern Physics</i> , 2017, 08, 1257-1274.	0.6	4
65	Speed of Light as an Emergent Property of the Fabric. <i>Applied Physics Research</i> , 2016, 8, 111.	0.0	7
66	Team Interactions for Successful Project Management in Small and Medium-Sized Enterprises. <i>International Journal of Information Technology Project Management</i> , 2016, 7, 17-43.	0.5	4
67	Dynamic Interaction between Machine, Tool, and Substrate in Bobbin Friction Stir Welding. <i>International Journal of Manufacturing Engineering</i> , 2016, 2016, 1-14.	0.8	10
68	The Unified Creep-Fatigue Equation for Stainless Steel 316. <i>Metals</i> , 2016, 6, 219.	2.3	11
69	Pike River Mine Disaster: Systems-Engineering and Organisational Contributions. <i>Safety</i> , 2016, 2, 21.	1.7	12
70	Relative importance of professional practice and engineering management competencies. <i>European Journal of Engineering Education</i> , 2016, 41, 530-547.	2.3	21
71	Energy Conversion Mechanics for Photon Emission per Non-Local Hidden-Variable Theory. <i>Journal of Modern Physics</i> , 2016, 07, 1049-1067.	0.6	8
72	Entropy at the Level of Individual Particles: Analysis of Maxwellâ€™s Agent with a Hidden-Variable Theory. <i>Journal of Modern Physics</i> , 2016, 07, 1277-1295.	0.6	6

#	ARTICLE	IF	CITATIONS
73	Inner Processes of Photon Emission and Absorption. Applied Physics Research, 2015, 7, .	0.0	9
74	Nuclear Polymer Explains the Stability, Instability, and Nonexistence of Nuclides. Research Letters in Physics, 2015, 2015, 1-19.	0.2	13
75	Asymmetrical Neutrino Induced Decay of Nucleons. Applied Physics Research, 2015, 7, .	0.0	8
76	Hidden Variable Theory Supports Variability in Decay Rates of Nuclides. Applied Physics Research, 2015, 7, .	0.0	7
77	Changing importances of professional practice competencies over an engineering career. Journal of Engineering and Technology Management - JET-M, 2015, 38, 89-101.	2.7	13
78	Operator agency in process intervention: tampering versus application of tacit knowledge. Journal of Industrial Engineering International, 2015, 11, 403-425.	1.8	5
79	Aviation Human Error Modelled as a Production Process. The Ergonomics Open Journal, 2015, 8, 1-12.	1.8	4
80	Project Management for the Development of New Products. , 2015, , 983-1046.		0
81	Beta Decays and the Inner Structures of the Neutrino in a NLHV Design. Applied Physics Research, 2014, 6, .	0.0	13
82	Material Properties of Wire for the Fabrication of Knotted Fences. International Journal of Metals, 2014, 2014, 1-12.	0.3	1
83	Annihilation Mechanisms. Applied Physics Research, 2014, 6, .	0.0	13
84	Weak Interaction and the Mechanisms for Neutron Stability and Decay. Applied Physics Research, 2014, 7, .	0.0	8
85	Differentiation of matter and antimatter by hand: Internal and external structures of the electron and antielectron. Physics Essays, 2014, 27, 26-35.	0.4	13
86	A unique orbital IC engine, illustrating advantages of engineering to academia relationships. , 2014, , .		0
87	Design features for bobbin friction stir welding tools: Development of a conceptual model linking the underlying physics to the production process. Materials & Design, 2014, 54, 632-643.	5.1	88
88	Thermodynamic peculiarities of alpha-type Stirling engines for low-temperature difference power generation: Optimisation of operating parameters and heat exchangers using a third-order model. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 1936-1947.	2.1	4
89	Ontological Approach to New Product Development. Journal of Industrial and Intelligent Information, 2014, 2, 98-107.	0.1	2
90	Asymmetrical Genesis by Remanufacture of Antielectrons. Journal of Modern Physics, 2014, 05, 1980-1994.	0.6	15

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91	Environmentally Lean Production: The Development and Incorporation of an Environmental Impact Index into Value Stream Mapping. Journal of Industrial Engineering, 2013, 2013, 1-17.	0.6	16
92	Integrative Approach to the Plant Commissioning Process. Journal of Industrial Engineering, 2013, 2013, 1-12.	0.6	8
93	Implementing Lean Practices: Managing the Transformation Risks. Journal of Industrial Engineering, 2013, 2013, 1-19.	0.6	28
94	Time: An emergent property of matter. Applied Physics Research, 2013, 5, .	0.0	21
95	Explanation of the Table of Nuclides: Qualitative Nuclear Mechanics From a NLHV Design. Applied Physics Research, 2013, 5, .	0.0	16
96	Synchronous Interlocking of Discrete Forces: Strong Force Reconceptualised in a NLHV Solution. Applied Physics Research, 2013, 5, .	0.0	15
97	Outer Boundary of the Expanding Cosmos: Discrete Fields and Implications for the Holographic Principle. The Open Astronomy Journal, 2013, 6, 77-89.	1.6	15
98	Wave-particle duality: A conceptual solution from the cordus conjecture. Physics Essays, 2012, 25, 132-140.	0.4	24
99	Ventures of coordinated effort. International Journal of Project Organisation and Management, 2012, 4, 231.	0.1	2
100	Rapid manufacturing facilitation through optimal machining prediction of polystyrene foam. Virtual and Physical Prototyping, 2011, 6, 41-46.	10.4	6
101	System model of production inventory control. International Journal of Manufacturing Technology and Management, 2010, 20, 120.	0.1	7
102	Design With Uncertain Qualitative Variables Under Imperfect Knowledge. IEEE Engineering Management Review, 2007, 35, 92-92.	1.3	0
103	Design mechanisms and constraints. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2005, 16, 73-85.	2.1	16
104	Simulation of key performance characteristics under uncertainty. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2005, 219, 151-162.	2.4	3
105	Design with uncertain qualitative variables under imperfect knowledge. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2004, 218, 977-986.	2.4	8
106	Relative effectiveness of mechanisms for simulating uncertainty in quantitative systems. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2003, 217, 531-540.	2.4	4
107	A Unified Creep-Fatigue Equation with Application to Engineering Design. , 0, , .		0
108	Exposure to methoxyflurane: Low-dose analgesia and occupational exposure. Australasian Journal of Paramedicine, 0, 17, .	0.3	3