

# N P Lavery

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,596  
citations

471371

17  
h-index

302012

39  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2015  
citing authors

#	ARTICLE	IF	CITATIONS
1	A narrative review: The electromagnetic field arrangement and the "braking" effect of electromagnetic brake (EMBr) technique in slab continuous casting. Metallurgical Research and Technology, 2021, 118, 218.	0.4	3
2	The development of miniature tensile specimens with non-standard aspect and slimness ratios for rapid alloy prototyping processes. Journal of Materials Research and Technology, 2021, 15, 1830-1843.	2.6	18
3	Effect of Build Bed Location on Density and Corrosion Properties of Additively Manufactured 17-4PH Stainless Steel. Smart Innovation, Systems and Technologies, 2021, , 425-438.	0.5	0
4	Effect of thermomechanical processing via rotary swaging on properties and residual stress within tungsten heavy alloy. International Journal of Refractory Metals and Hard Materials, 2020, 87, 105120.	1.7	38
5	Rapid Alloy Prototyping for a range of strip related advanced steel grades. Procedia Manufacturing, 2020, 50, 784-790.	1.9	2
6	3D Printed SnSe Thermoelectric Generators with High Figure of Merit. Advanced Energy Materials, 2019, 9, 1900201.	10.2	71
7	Multi-phase nature of sintered vs. arc-melted Cr <sub>x</sub> AlFeCoNi high entropy alloys - experimental and theoretical study. Journal of Alloys and Compounds, 2019, 801, 511-519.	2.8	29
8	Study of structure of naturally aged aluminium after twist channel angular pressing. Materials Characterization, 2019, 152, 94-100.	1.9	27
9	Microstructure and thermal properties of unalloyed tungsten deposited by Wire Arc Additive Manufacture. Journal of Nuclear Materials, 2019, 522, 45-53.	1.3	30
10	Spark Plasma Sintering of High Entropy Alloys. , 2019, , 517-538.		4
11	Earth abundant, non-toxic, 3D printed Cu <sub>2</sub> xS with high thermoelectric figure of merit. Journal of Materials Chemistry A, 2019, 7, 25586-25592.	5.2	15
12	A pragmatic continuum level model for the prediction of the onset of keyholing in laser powder bed fusion. International Journal of Advanced Manufacturing Technology, 2019, 101, 697-714.	1.5	12
13	High-pressure high-temperature tailoring of High Entropy Alloys for extreme environments. Journal of Alloys and Compounds, 2018, 738, 491-500.	2.8	45
14	A Multiphase CFD Model for the Prediction of Particulate Accumulation in a Laser Powder Bed Fusion Process. Minerals, Metals and Materials Series, 2018, , 65-76.	0.3	7
15	A numerical investigation assessing the symmetry of burden charging in a blast furnace using different chute designs. Ironmaking and Steelmaking, 2018, 45, 551-559.	1.1	12
16	A novel High-Entropy Alloy-based composite material. Journal of Alloys and Compounds, 2018, 730, 544-551.	2.8	36
17	The three-prong method: a novel assessment of residual stress in laser powder bed fusion. Virtual and Physical Prototyping, 2018, 13, 20-25.	5.3	19
18	Scandium-Based Hexagonal-Closed Packed Multi-Component Alloys. Physics of Metals and Metallography, 2018, 119, 735-740.	0.3	5

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19	Temperature and time dependent structure of the molten Ni81P19 alloy by neutron diffraction. Journal of Non-Crystalline Solids, 2018, 500, 359-365.	1.5	5
20	The Effect of Scandium Ternary Intergrain Precipitates in Al-Containing High-Entropy Alloys. Entropy, 2018, 20, 488.	1.1	8
21	Laser processing of bulk metallic glass: A review. Journal of Materials Processing Technology, 2017, 247, 73-91.	3.1	131
22	Effects of hot isostatic pressing on the elastic modulus and tensile properties of 316L parts made by powder bed laser fusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 693, 186-213.	2.6	122
23	Optimizing gate location to reduce metal wastage: Co-Cr-W alloy filling simulation. Journal of Materials Processing Technology, 2017, 240, 249-254.	3.1	4
24	Formation and Disruption of W-Phase in High-Entropy Alloys. Metals, 2016, 6, 106.	1.0	6
25	Mathematical framework for predicting the thermal behaviour of spectrally selective coatings within an industrial near-infrared furnace. European Journal of Computational Mechanics, 2016, 25, 294-308.	0.6	1
26	The scandium effect in multicomponent alloys. International Materials Reviews, 2016, 61, 203-228.	9.4	81
27	Powder Bed Layer Characteristics: The Overseen First-Order Process Input. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 3811-3822.	1.1	125
28	The development of a sub-atmospheric two-phase thermosyphon natural gas preheater using a lumped capacitance model and comparison with experimental results. Applied Thermal Engineering, 2016, 104, 767-778.	3.0	6
29	Bending and twisting friction models in soft-sphere discrete element simulations for static and dynamic problems. Applied Mathematical Modelling, 2016, 40, 3655-3670.	2.2	12
30	Verification of Numerically Calculated Cooling Rates of Powder bed Additive Manufacturing. , 2016, , 205-212.		1
31	Combinatorial development and high throughput materials characterisation of steels. Ironmaking and Steelmaking, 2015, 42, 727-733.	1.1	3
32	Investigation into the effect of process parameters on microstructural and physical properties of 316L stainless steel parts by selective laser melting. International Journal of Advanced Manufacturing Technology, 2015, 76, 869-879.	1.5	519
33	Investigating the thermal profile of a marine vessel engine room through simulation with field measurements. Applied Thermal Engineering, 2014, 73, 1360-1370.	3.0	12
34	Computational modeling of creep-based fatigue as a means of selecting lead-free solder alloys. Microelectronics Reliability, 2014, 54, 1235-1242.	0.9	13
35	Life cycle assessment of gas atomised sponge nickel for use in alkaline hydrogen fuel cell applications. Journal of Power Sources, 2013, 243, 242-252.	4.0	13
36	&#x201C;Computational modelling of creep-based fatigue as a means of selecting lead-free solder alloys&#x201D;. , 2013, , .		0

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37	Life cycle assessment of sponge nickel produced by gas atomisation for use in industrial hydrogenation catalysis applications. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 362-376.	2.2	13
38	Emission mitigation potential of lightweight intermetallic TiAl components. <i>Intermetallics</i> , 2011, 19, 787-792.	1.8	30
39	Mathematical framework for predicting solar thermal build-up of spectrally selective coatings at the Earth's surface. <i>Applied Mathematical Modelling</i> , 2007, 31, 1635-1651.	2.2	7
40	3D solid fin model construction from 2D shapes using non-uniform rational B-spline surfaces. <i>Advances in Engineering Software</i> , 2006, 37, 491-501.	1.8	11
41	Numerical Sensitivity and View Factor Calculation Using the Monte Carlo Method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2006, 220, 697-702.	1.1	19
42	New Experimental Data for the Validation of Radiative Heat Transfer. <i>Experimental Heat Transfer</i> , 2006, 19, 193-207.	2.3	0
43	Computational Modelling of Surfboard Fins for Enhanced Performance. , 2006, , 425-430.		5
44	View factor calculation using the Monte Carlo method and numerical sensitivity. <i>Communications in Numerical Methods in Engineering</i> , 2005, 22, 197-203.	1.3	31
45	Heat Transfer Analysis of the Curing Process on an Organic Paint Strip Line. , 2004, , .		0
46	Effects of pasture and high-concentrate diets on the performance of beef cattle, carcass composition at equal growth rates, and the fatty acid composition of beef. <i>New Zealand Journal of Agricultural Research</i> , 2003, 46, 69-81.	0.9	30
47	Case Studying Technology Transfer in an Objective 1 Area. <i>Industry and Higher Education</i> , 2003, 17, 131-137.	1.4	1
48	Iterative and multigrid methods in the finite element solution of incompressible and turbulent fluid flow. <i>International Journal for Numerical Methods in Fluids</i> , 1999, 30, 609-634.	0.9	7