AMAZE PUBLICATIONS

NO	YEAR	AMAZE PARTNERS	AUTHOR, TITLE, PROCEEDINGS
1	2014	ESA, ESI	N. N'Dri, H.W. Mindt, HZ. Duan, Y. Vincent, O. Köser and M. Megahed, B. Szost, S. Terzi, D.J. Jarvis, "Modelling & validation of blown powder additive manufacturing processes", Metal Additive Manufacturing Conference 2014, Vienna, Austria, 20th- 21st November 2014.
2	2014	Swansea University	J. A. Cherry, H. M. Davies, S. Mehmood, N.P. Lavery, S.G.R. Brown, and J. Sienz. "Investigation into the Effect of Processing Parameters on the Microstructural Evolution and Physical Properties in Additive Layer Manufactured 316L Stainless Steel." International Journal of Advanced Manufacturing Technology.
3	2014	University of Brimingham	C. Qiu, N.J.E. Adkins et al., "Influence of laser power on the structure of cellular lattice struts fabricated by SLM".
4	2014	Swansea University	N. P. Lavery, S. G. R. Brown, J. Sienz, J. Cherry and F. Belblidia, "A Review of Computational Modelling of Additive Layer Manufacturing - Multi-Scale and Multi-Physics," in International Conference on Sustainable Design and Manufacturing SDM 2014, Cardiff, Wales, UK, 2014.
5	2014		Diego Manfredi et al., "Additive Manufacturing of Al Alloys and Aluminium Matrix Composites (AMCs)", Book Chapter, March 2014.
6	2014	Friedrich-Alexander University Erlangen- Nürnberg	Guschlbauer, Ralf; Lodes, Matthias A.; Körner, Carolin (2014): "Selective electron beam melting of pure copper: influence of energy input on surface roughness and dimensional accuracy". In: Igor Drstvenšek (Hg.): 5th International Conference on Additive Technologies. iCAT2014. Wien, Austria, 16 17.10.2014. Ljubljana: Interesansa - zavod, S. 129–132.
7	2014	ESA	P. Colegrove, F. Martina, M. Roy, B. Szost, S. Terzi, D.J. Jarvis, S. Williams, P. Withers: "High pressure interpass rolling of Wire + Arc Additively Manufactured titanium components", ECRS-9 Conference paper, July 2014.
8	2014	Swansea University	N. P. Lavery, "Advanced Manufacturing: Putting Perspective on the Role of Additive Manufacturing in Advanced Manufacturing," Engineering Integrity, vol. 36, pp. 28-29, 2014.
9	2015	Fraunhofer ILT	Ingo Ross, Judith Kumstel, Sebastian Bremen, Edgar Willenborg: "Laser polishing of laser additive manufactured surfaces made from Inconel 718 and ASTM F75", WCSMO Conference, 2015, conference proceedings.

10	2015		Thomas Guess, Michael Stingl, Fabian Wein: "Coupled Two- Scale Material Optimization for Lattice Structures using the Multiscale Finite Element Method as Upscaling", WCSMO Conference, 2015, conference proceedings.
11	2015	ESI, ESA	N. N'Dri, HW. Mindt, H. Duan, Y. Vincent, O. Köser & M. Megahed, B. Szost, S. Terzi & D.J. Jarvis, L. Kounde, T. Engel, "Modelling & Validation of Blown Powder Additive Manufacturing Processes"
12	2015	Fraunhofer ILT	C. Zhong, A. Gasser, J. Kittel et al. "Study of process window development for high deposition-rate laser material deposition by using mixed processing parameters", [J]. J. Laser Appl., 2015,27(3):032008. (published 11 May 2015)
13	2015	Fraunhofer ILT	C. Zhong, A. Gasser, T. Schopphoven et al. "Experimental study of porosity reduction in high deposition-rate Laser Material Deposition". Optics & Laser Technology, 2015,75:87–92. (Available online 1 July 2015)
14	2015	Fraunhofer ILT	C. Zhong, T. Biermann, A. Gasser et al. "Experimental study of effects of main process parameters on porosity, track geometry, deposition rate, and powder efficiency for high deposition rate laser metal deposition." [J]. J. Laser Appl., 2015,27(4):042003. (published 8 July 2015)
15	2015	Friedrich-Alexander University Erlangen- Nürnberg	Lodes, Matthias A.; Guschlbauer, Ralf; Körner, Carolin, "Process development for the manufacturing of 99.94% pure copper via selective electron beam melting." In: Materials Letters 143, S. 298–301.2015
16	2015	ESA	Szost, B, Terzi, S., Martina, F., Boisselier, D., Prytuliak, A., Pirling, T., Hofmann, M., Jarvis, D.J. "A comparative study of additive manufacturing techniques: residual stress and microstructural analysis of CLAD and WAAM printed Ti-6Al-4V components." Materials & Design 89, 559–567, 2015
17	2015	University of Birmingham	C.Qiu, S. Yue, N.J.E. Adkins, M. Ward, H. Hassanin, M. M. Attallah, P. D. Lee, P. J. Withers "Influence of processing conditions on strut structure and compression property of cellular lattices fabricated by selective laser melting" Materials Science and Engineering A 01/2015 628:188-197
18	2015	University of Birmingham	C. L. Qiu, N. J. E Adkins, H. Hassanin, K. Essa and M. M. Attallah "In-Situ Shelling via Selective Laser Melting: Microstructural Characterisation and Modelling", TMS2015 144th Annual Meeting & Exhibition; 15–19 March, 2015; Orlando, FL (USA)
19	2015	University of Birmingham	Hany Hassanin · Khamis Essa · Nicholas Adkins · Graham Robert · Antony Musker · Mathew Smith "Additive Manufacturing of Monolithic Catalyst Beds for Hydrogen Peroxide Monopropellant Thrusters." 5th CEAS Air & Space Conference, Delft University of Technology, Netherlands, September 7-11, 2015

20	2015	University of Birmingham	C. Qiu, N. Invar 36: r 103:382-3
21	2015	University of Birmingham	C. Qiu, N. "In-situ sh microstru 15 Decem
22	2015	University of Birmingham	Chunlei Q Basoalto, melt flow during se
23	2015	MTC	S. Evertor laser ultra manufact paper.
24	2015	МТС	B.Dutton, Standard 8 Septem
25	2016	МТС	Dutton, B "NDT Star at WCND
26	2016	МТС	S. Evertor surface D Using Las Technolo
27	2016	Swansea University, ESI	HW. Min Brown, "F Order Pro A, Vol. 47/
28	2016	ESI, Swansea University	HW. Mir of Numer Additive M & Exhibiti Proceedir 10.1002/9
29	2016	University of Birmingham	Luke Car Laser Mel control th & Techno
30	2016	ESA	Martina, F Williams, stress of a Additive N Science a 10.1080/0

J.E. Adkins, M. M. Attallah "Selective laser melting of microstructure and properties", Acta Materialia 10/2015; 395

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n, P.Dickens, C.Tuck, B.Dutton, "Evaluation of asonic testing for inspection of metal additive turing", 2015, SPIE Proceedings Vol. 9353 conference

, M.H.Rosli, "Progress in the Generation of NDT Is for AM", at NDT 2015, BINDT conference in Telford, UK, Iber 2015.

B., Rosli, M.H., Waller, J.M., James, S. and Woolliams, P., ndards for Additive Manufacture - a Review of Progress", T16 conference in Munich, Germany, 14 June 2016.

n, P. Dickens, C. Turner, B Dutton "Identification of Subefects in Parts Produced by Additive Manufacturing ser Generated Ultrasound", Materials Science & 99, 23-27 October 2016

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F., Roy, M.J, Szost, B.A., Terzi, S., Colegrove, P.A., S.W.,Withers, P.J., Meyer, J., Hoffmann, M. "Residual as-deposited and interpass rolled Wire + Arc Manufacturing Ti–6Al–4V components." Materials and Technology, accepted 12 Jan 2016, DOI: 02670836.2016.1142704.

31	2016	University of Manchester	C.L.A. Leung presented "XCT assessment on the impacts of preheating strategies on Ti-6Al-4V by Selective Electron Beam Melting" Metal additive manufacturing conference in Austria, Nov 2016. This work is a joint collaboration with the Manufacturing Technology Centre		41	2016	University of Birmingham	Amanda Moataz A Structur Selective (MS&T16
32	2016	Tecnalia	H. Vallejo, M. Seco, A. Suarez, T. Artaza, G. Puertas, "Thermo- mechanical modelling of the Wire and Arc Additive Manufacturing process of an aeronautic part of Ti6Al4V alloy". Congress: Exploring the Design Freedom of Additive Manufacturing through Simulation. Place: Helsinki (Finland)		42	2016	University of Birmingham	Moataz / Nicholas Structur October
33	2016	University of Birmingham	N.Adkins, L.N.Carter, C.Qi, K.Essa, M.M.Attallah "Selective Laser Melting of components with thick section through in- situ shelling, Materials Science & Technology" 2016 23/10- 27/10/2016 Salt Lake City, UT, USA		43	2016	University of Birmingham	Nicholas and Defe Additive 29 - 30 M
34	2016	CCFE ITER	D.Hancock, M.Porton, C.Hardie, B.Edwards, R.Bamber. K.Nicholls, "A low cost high performance test facility for evaluating advanced high heat flux concepts", 22nd Topical Meeting on the Technology of Fusion Energy (TOFE 2016) in August in Philadelphia		44	2016	University of Birmingham	C. Qiu, A approac applicat
35	2016	University of Birmingham	S. Li, H. Hassanin, M. M. Attallah, N.J.E. Adkins, and K. Essa "The Development of TiNi-based Negative Poisson's Ratio Structure using Selective Laser Melting" Acta Materialia 2/2016; 105:75-83		45	2016	МТС	B.Duttor Manufac Lyon Oct
36	2016	Politecnico di Torino	A.Aversa, G.Marchese, M.Lorusso, D.Manfredi, F.Caligano, S.Biamino, E.P.Ambrosio, P.Fino, M.Lombardi, M.Pavese "Selective Laser Melting of Aluminium Alloy-Based Metal Matrix Composites: Effect of the Microstructure on the Mechanical Behaviour"		46	2017	University of Birmingham	Amanda Attallah oxidatio melting
37	2016	University of Birmingham, BCT	R.M. Ward, L.N. Carter, T. Kosche , N. Adkins, "Feedback control of blown-powder additive deposition" Materials Science and Technology Conference (MS&T16) October 24-27 Salt Lake City, Utah, USA.		47	2017	Politecnico di Torino	Alberta Calignar Paolo Fiu Bed Fusi Effect of Submitt
38	2016	University of Birmingham	L.N.Carter, T.Hanemann, N.Adkins "Selective Laser Melting of an Aluminium Alloy blended with pure Silicon to control the Coefficient of Thermal Expansion", Materials Science & Technology 2016 23/10-27/10/2016 Salt Lake City, UT, USA		48	2017	Tecnalia	T. Artaza Puertas, integrati
39	2016	University of Birmingham	L.M. Garcia-Raffi, L.J. Salmeron-Contreras, I. Herrero-Dura, R. Pico, J. Redondo, V. J. Sanchez-Morcillo, A. Cebrecos, N. Jimenez, V. Romero-Garcıa, K. Staliunas, N.J.E. Adkins "Sonic crystals for noise control at the launch pad" Journal Aerospace					in a gant 7th Man – Vigo (S
40	2016	University of Birmingham	Science and Technology H. Hassanin, K. Essa, C.Qui, A.M. Abdelhafeez, N.J.E. Adkins, and M. M. Attallah "Net-Shape Manufacturing using Hybrid Selective Laser Melting/Hot Isostatic Pressing" Rapid Prototyping Journal ISSN (print) 1355-2546 2016		49	2017	ESI, University of Birmingham, CCFE ITER	W. Ottov N. Carte Michael Window Molybde Feb. 26-

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s Adkins "Addressing the challenges of AM for Aerospace ence using modelling and advanced characterization" Manufacturing for Aerospace, Defence & Space, London March, 2016

. Fones, N.J.E. Adkins, H. Hamilton, M. M. Attallah "A new th to develop Pd modified Ti-based alloys for biomedical ion" Materials and Design July 2016, doi: 10.1016/

n,et al, 'Progress on NDT Standards for Additive cturing', 3D Print: The Event for Additive Manufacturing, t 2016.

Field, Luke Carter, Nicholas Adkins, Mike Gorley, Moataz "Influence of powder characteristics on the defects and n of high purity tungsten produced via selective laser (SLM)" 2017 TMS Annual Meeting

Aversa; Giulio Marchese; Massimo Lorusso; Flaviana no; Sara Biamino; Elisa Paola Ambrosio; Diego Manfredi; no; Mariangela Lombardi; Matteo Pavese "Laser Powder ion of Aluminium Alloy-Based Metal Matrix Composites: the Microstructure on the Mechanical Behaviour" ed to Materials Science & Engineering

a, A. Alberdi, M. Murua, J. Gorrotxategi, J. Frías, G. M.A. Melchor, D. Mugica, A. Suárez. "Design and ion of WAAM technology and in situ monitoring system try machine", Accepted abstract by Proceedings of the ufacturing Engineering Society International Conference Spain) – June 2017.

v, and M. Megahed – ESI Group, Amanda Field, Luke r, and Moataz Attallah, University of Birmingham, Gorley and Michael Porton, UKAEA/CCFE. "Process Optimization for Powder Bed Additively Manufactured enum" TMS 2017, 146th Annual Meeting and Exhibition, Mar. 2, 2017, San Diego.

50	2017	Politecnico di Torino	Aversa, M. Lorusso, G. Cattano, D. Manfredi, F. Calignano, S. Biamino, E. P.Ambrosio, P. Fino, M. Lombardi, M. Pavese "Study of the microstructure and the mechanical properties of an Al-Si-Ni alloy produced via Selective Laser Melting" Journal of Alloys and Compounds" Volume 695, 25 February 2017, Pages 1470–1478,
51	2017	MTC	S.Everton, P.Dickens, C.Tuck, B.Dutton, D.Wimpenny, "The Use of Laser Ultrasound to Detect Defects in Laser Melted Parts", 2017 TMS Annual Meeting & Exhibition, Supplemental UE: TMS 2017 Conference Proceedings.
52		Politecnico di Torino	"In-situ Aluminium Matrix Composites Produced Via Selective Laser Melting: Effect of the Reaction on the Consolidation Mechanism and Study of the Mechanical Properties," in preparation.
		Politecnico di Torino, Avio Aero	Alberta Aversa, Massimo Lorusso, Francesco Trevisan, Elisa P. Ambrosio, Flaviana Calignano0, Diego Manfredi, Sara Biamino, Paolo Gennaro, Paolo Fino, Mariangela Lombardi, Matteo Pavese "Effect of the Building Platform Temperature on the Microstructure and the Mechanical Properties of an A357 Alloy Produced via Selective Laser Melting" in preparation.
		Friedrich-Alexander University Erlangen- Nürnberg	Raab, Sebastian; Guschlbauer, Ralf; Lodes, Matthias A.; Körner, Carolin "Thermal and Electrical Conductivity of 99.9 % Pure Copper Processed via Selective Electron Beam Melting" in preparation.
		Politecnico di Torino	A. Aversa, M. Pavese, S. Biamino, D. Manfredi, E. Ambrosio, F. Calignano, C Badini, P. Fino, "Produzione di leghe 7000 con DMLS Direct Metal Laser Sintering di leghe alluminio-zinco- magnesio", in preparation.