

Teaching

WE4901-2 Senior Capstone Design
WE 4/7003 Weld Process Monitor Cntrl
WE 4/7301 Princ Nondestructive Eval
WE 8004 Advanced Laser Mtls Proc

WE4/7001 Phys Princ Weld Processes 1
WE 4/7024 High Energy Weld Proc
WE 4/7303 Ultrasonic Nondestructive Eval

Publications with >100 Google Scholar Cites (Total: 100 Journal, Approx. 70 Conference, 5368 google scholar cites as of 2/1/2024, i10-index=73, h-index=39)

	Cites	Yr.
Electrospinning for tissue engineering scaffolds J Lannutti, D Reneker, T Ma, D Tomasko, D Farson Materials Science and Engineering: C 27 (3), 504-509	897	2007
Mechanism of keyhole formation and stability in stationary laser welding JY Lee, SH Ko, DF Farson, CD Yoo Journal of Physics D: Applied Physics 35 (13), 1570	348	2002
Rationalization of microstructure heterogeneity in INCONEL 718 builds made by the direct laser additive manufacturing process Y Tian, D McAllister, H Colijn, M Mills, D Farson, M Nordin, S Babu Metallurgical and Materials Transactions A 45, 4470-4483	246	2014
Coaxial arc weld pool viewing for process monitoring and control RW Richardson, DA Gutow, RA Anderson, DF Farson Welding Journal 63 (3), 43-50	177	1984
Effect of fluid convection on dendrite arm spacing in laser deposition Y Lee, M Nordin, SS Babu, DF Farson Metallurgical and Materials Transactions B 45, 1520-1529	162	2014
Micropatterning and characterization of electrospun poly (ϵ-caprolactone)/gelatin nanofiber tissue scaffolds by femtosecond laser ablation for tissue engineering applications YC Lim, J Johnson, Z Fei, Y Wu, DF Farson, JJ Lannutti, HW Choi, LJ Lee Biotechnology and bioengineering 108 (1), 116-126	144	2011
Measurement and calculation of arc power and heat transfer efficiency in pulsed gas metal arc welding A Joseph, D Harwig, DF Farson, R Richardson Science and Technology of Welding and Joining 8 (6), 400-406	142	2003
Weld pool flows during initial stages of keyhole formation in laser welding JH Cho, DF Farson, JO Milewski, KJ Hollis Journal of Physics D: Applied Physics 42 (17), 175502	130	2009
Influence of fluid convection on weld pool formation in laser cladding YS Lee, M Nordin, SS Babu, DF Farson Weld. J 93 (8), 292-300	126	2014
Simulation of weld pool dynamics in the stationary pulsed gas metal arc welding process and final weld shape MH Cho, YC Lim, DF Farson WELDING JOURNAL-NEW YORK- 85 (12), 271	199	2006
Direct-write patterning of indium-tin-oxide film by high pulse repetition frequency femtosecond laser ablation HW Choi, DF Farson, J Bovatsek, A Arai, D Ashkenasi Applied optics 46 (23), 5792-5799	116	2007
Structuring electrospun polycaprolactone nanofiber tissue scaffolds by femtosecond laser ablation H Choi, JK Johnson, J Nam, DF Farson, J Lannutti Journal of Laser Applications 19 (4), 225-231	112	2007
Understanding bead hump formation in gas metal arc welding using a numerical simulation MH Cho, DF Farson Metallurgical and materials transactions B 38, 305-319	101	2007