Lonnie J Love

List of Publications by Year
in descending order

43 papers	2,868 citations	331670 21 h-index	414414 32 g-index
66 all docs	66 docs citations	66 times ranked	2766 citing authors

#	Article	IF	Citations
1	An innovative digital image correlation technique for in-situ process monitoring of composite structures in large scale additive manufacturing. Composite Structures, 2021, 276, 114545.	5.8	14
2	Distributed manufacturing: A case study in additive manufacturing face masks for the COVID-19 pandemic. Additive Manufacturing Letters, 2021, 1, 100012.	2.1	3
3	Additively Manufactured Single-Use Molds and Reusable Patterns for Large Automotive and Hydroelectric Components. International Journal of Metalcasting, 2020, 14, 356-364.	1.9	7
4	Process intensification of CO 2 absorption using a 3D printed intensified packing device. AICHE Journal, 2020, 66, e16285.	3.6	16
5	Additively manufactured packed bed device for process intensification of CO2 absorption and other chemical processes. Chemical Engineering Journal, 2020, 388, 124092.	12.7	31
6	Rapid Retooling for Emergency Response with Hybrid Manufacturing. Smart and Sustainable Manufacturing Systems, 2020, 4, 20200050.	0.7	4
7	Microbial Approach to Low-Cost Production of Photovoltaic Nanomaterials. ACS Sustainable Chemistry and Engineering, 2019, 7, 18297-18302.	6.7	1
8	3D printed structures for optimized carbon capture technology in packed bed columns. Separation Science and Technology, 2019, 54, 2047-2058.	2.5	29
9	High modulus biocomposites via additive manufacturing: Cellulose nanofibril networks as â€œmicrospongesâ€• Composites Part B: Engineering, 2019, 173, 106817.	12.0	57
10	Using Big Area Additive Manufacturing to directly manufacture a boat hull mould. Virtual and Physical Prototyping, 2019, 14, 123-129.	10.4	43
11	Determination of melt processing conditions for high performance amorphous thermoplastics for large format additive manufacturing. Additive Manufacturing, 2018, 21, 125-132.	3.0	34
12	The influence of dynamic rheological properties on carbon fiber-reinforced polyetherimide for large-scale extrusion-based additive manufacturing. International Journal of Advanced Manufacturing Technology, 2018, 99, 411-418.	3.0	44
13	Structure and mechanical behavior of Big Area Additive Manufacturing (BAAM) materials. Rapid Prototyping Journal, 2017, 23, 181-189.	3.2	235
14	Additive Manufacturing Integrated Energyâ€"Enabling Innovative Solutions for Buildings of the Future. Journal of Solar Energy Engineering, Transactions of the ASME, 2017, 139, .	1.8	36
15	Development of a range-extended electric vehicle powertrain for an integrated energy systems research printed utility vehicle. Applied Energy, 2017, 191, 99-110.	10.1	36
16	Path Optimization Along Lattices in Additive Manufacturing Using the Chinese Postman Problem. 3D Printing and Additive Manufacturing, 2017, 4, 98-104.	2.9	30
17	Thermal analysis of additive manufacturing of large-scale thermoplastic polymer composites. Additive Manufacturing, 2017, 17, 77-86.	3.0	111
18	Overview of the Oak Ridge National Laboratory Advanced Manufacturing Integrated Energy Demonstration Project: Case Study of Additive Manufacturing as a Tool to Enable Rapid Innovation in Integrated Energy Systems. , 2016, , .		3

#	Article	IF	Citations
19	Assessment of Dimensional Integrity and Spatial Defect Localization in Additive Manufacturing Using Spectral Graph Theory. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	2.2	35
20	Experimental Evaluation of a 4-cc Glow-Ignition Single-Cylinder Two-Stroke Engine. , 2014, , .		4
21	Infrared imaging of the polymer 3D-printing process. Proceedings of SPIE, 2014, , .	0.8	20
22	Highly oriented carbon fiberâ€“polymer composites via additive manufacturing. Composites Science and Technology, 2014, 105, 144-150.	7.8	1,047
23	The importance of carbon fiber to polymer additive manufacturing. Journal of Materials Research, 2014, 29, 1893-1898.	2.6	364
24	Scalable economic extracellular synthesis of CdS nanostructured particles by a non-pathogenic thermophile. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 1263-1271.	3.0	31
25	Real-time process monitoring and temperature mapping of a 3D polymer printing process. Proceedings of SPIE, 2013, , .	0.8	32
26	Free Form Fluidics. Mechanical Engineering, 2013, 135, S17-S20.	0.1	2
27	Direct digital additive manufacturing technologies: Path towards hybrid integration. , 2012, , .		16
28	Automating and accelerating the additive manufacturing design process with multi-objective constrained evolutionary optimization and HPC/Cloud computing. , 2012, , .		3
29	Magnetic properties of bio-synthesized zinc ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2011, 323, 3043-3048.	2.3	46
30	Large-scale production of magnetic nanoparticles using bacterial fermentation. Journal of Industrial Microbiology and Biotechnology, 2010, 37, 1023-1031.	3.0	105
31	Crystallite Sizes and Lattice Parameters of Nano-Biomagnetite Particles. Journal of Nanoscience and Nanotechnology, 2010, 10, 8298-8306.	0.9	21
32	Force-based needle insertion for medical applications. , 2009, , .		3
33	Development of a remote trauma care assist robot. , 2009, , .		2
34	Design and Control of a Ship Motion Simulation Platform from an Energy Efficiency Perspective. International Journal of Fluid Power, 2009, 10, 19-28.	0.7	4
35	Mesofluidic actuation for articulated finger and hand prosthetics. , 2009, , .		21
36	Multi-axis foot reaction force/torque sensor for biomedical applications. , 2009, , .		15

#	Article	IF	Citations
37	Magnetic response of microbially synthesized transition metal- and lanthanide-substituted nano-sized magnetites. Journal of Magnetism and Magnetic Materials, 2007, 313, 283-292.	2.3	26
38	Microbial formation of lanthanide-substituted magnetites by Thermoanaerobacter sp. TOR-39. Extremophiles, 2007, 11, 859-867.	2.3	19
39	A Magnetocaloric Pump for Microfluidic Applications. IEEE Transactions on Nanobioscience, 2004, 3, 101-110.	3.3	76
40	Force Reflecting Teleoperation With Adaptive Impedance Control. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 159-165.	5.0	112
41	<title>Modular planning/control architecture for the semiautonomous control of telerobots in a hazardous environment</title>. , 1997, , .		0
42	Big Area Additive Manufacturing and Hardware-in-the-Loop for Rapid Vehicle Powertrain Prototyping: A Case Study on the Development of a 3-D-Printed Shelby Cobra. , 0, , .		28
43	Teleoperation, Telerobotics, and Telepresence. , 0, , 167-185.		4