

Lonnie J Love

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5236208/publications.pdf>

Version: 2024-02-01

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	Highly oriented carbon fiber-polymer composites via additive manufacturing. <i>Composites Science and Technology</i> , 2014, 105, 144-150.	7.8	1,047
2	The importance of carbon fiber to polymer additive manufacturing. <i>Journal of Materials Research</i> , 2014, 29, 1893-1898.	2.6	364
3	Structure and mechanical behavior of Big Area Additive Manufacturing (BAAM) materials. <i>Rapid Prototyping Journal</i> , 2017, 23, 181-189.	3.2	235
4	Force Reflecting Teleoperation With Adaptive Impedance Control. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004, 34, 159-165.	5.0	112
5	Thermal analysis of additive manufacturing of large-scale thermoplastic polymer composites. <i>Additive Manufacturing</i> , 2017, 17, 77-86.	3.0	111
6	Large-scale production of magnetic nanoparticles using bacterial fermentation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2010, 37, 1023-1031.	3.0	105
7	A Magnetocaloric Pump for Microfluidic Applications. <i>IEEE Transactions on Nanobioscience</i> , 2004, 3, 101-110.	3.3	76
8	High modulus biocomposites via additive manufacturing: Cellulose nanofibril networks as micro-sponges. <i>Composites Part B: Engineering</i> , 2019, 173, 106817.	12.0	57
9	Magnetic properties of bio-synthesized zinc ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 3043-3048.	2.3	46
10	The influence of dynamic rheological properties on carbon fiber-reinforced polyetherimide for large-scale extrusion-based additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 99, 411-418.	3.0	44
11	Using Big Area Additive Manufacturing to directly manufacture a boat hull mould. <i>Virtual and Physical Prototyping</i> , 2019, 14, 123-129.	10.4	43
12	Additive Manufacturing Integrated Energy-Enabling Innovative Solutions for Buildings of the Future. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2017, 139, .	1.8	36
13	Development of a range-extended electric vehicle powertrain for an integrated energy systems research printed utility vehicle. <i>Applied Energy</i> , 2017, 191, 99-110.	10.1	36
14	Assessment of Dimensional Integrity and Spatial Defect Localization in Additive Manufacturing Using Spectral Graph Theory. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016, 138, .	2.2	35
15	Determination of melt processing conditions for high performance amorphous thermoplastics for large format additive manufacturing. <i>Additive Manufacturing</i> , 2018, 21, 125-132.	3.0	34
16	Real-time process monitoring and temperature mapping of a 3D polymer printing process. <i>Proceedings of SPIE</i> , 2013, , .	0.8	32
17	Scalable economic extracellular synthesis of CdS nanostructured particles by a non-pathogenic thermophile. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013, 40, 1263-1271.	3.0	31
18	Additively manufactured packed bed device for process intensification of CO2 absorption and other chemical processes. <i>Chemical Engineering Journal</i> , 2020, 388, 124092.	12.7	31

#	ARTICLE	IF	CITATIONS
19	Path Optimization Along Lattices in Additive Manufacturing Using the Chinese Postman Problem. 3D Printing and Additive Manufacturing, 2017, 4, 98-104.	2.9	30
20	3D printed structures for optimized carbon capture technology in packed bed columns. Separation Science and Technology, 2019, 54, 2047-2058.	2.5	29
21	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
22	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
23	Mesofluidic actuation for articulated finger and hand prosthetics. , 2009, , .		21
24	Crystallite Sizes and Lattice Parameters of Nano-Biomagnetite Particles. Journal of Nanoscience and Nanotechnology, 2010, 10, 8298-8306.	0.9	21
25	Infrared imaging of the polymer 3D-printing process. Proceedings of SPIE, 2014, , .	0.8	20
26	Microbial formation of lanthanide-substituted magnetites by Thermoanaerobacter sp. TOR-39. Extremophiles, 2007, 11, 859-867.	2.3	19
27	Direct digital additive manufacturing technologies: Path towards hybrid integration. , 2012, , .		16
28	Process intensification of CO ₂ absorption using a 3D printed intensified packing device. AIChE Journal, 2020, 66, e16285.	3.6	16
29	Multi-axis foot reaction force/torque sensor for biomedical applications. , 2009, , .		15
30	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
31	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
32	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
33	Experimental Evaluation of a 4-cc Glow-Ignition Single-Cylinder Two-Stroke Engine. , 2014, , .		4
34	Teleoperation, Telerobotics, and Telepresence. , 0, , 167-185.		4
35	Rapid Retooling for Emergency Response with Hybrid Manufacturing. Smart and Sustainable Manufacturing Systems, 2020, 4, 20200050.	0.7	4
36	Force-based needle insertion for medical applications. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
37	Automating and accelerating the additive manufacturing design process with multi-objective constrained evolutionary optimization and HPC/Cloud computing. , 2012, , .		3
38	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
39	Distributed manufacturing: A case study in additive manufacturing face masks for the COVID-19 pandemic. Additive Manufacturing Letters, 2021, 1, 100012.	2.1	3
40	Development of a remote trauma care assist robot. , 2009, , .		2
41	Free Form Fluidics. Mechanical Engineering, 2013, 135, S17-S20.	0.1	2
42	Microbial Approach to Low-Cost Production of Photovoltaic Nanomaterials. ACS Sustainable Chemistry and Engineering, 2019, 7, 18297-18302.	6.7	1
43	<title>Modular planning/control architecture for the semiautonomous control of telerobots in a hazardous environment</title>. , 1997, , .		0