Biranchi Panda

List of Publications by Year in descending order

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69 papers	5,571 citations	147801 31 h-index	110387 64 g-index
70 all docs	70 docs citations	70 times ranked	2622 citing authors

#	Article	IF	Citations
1	Fresh and hardened properties of 3D printable polymer-fibre-reinforced high-performance cementitious composite. Advances in Cement Research, 2022, 34, 80-92.	1.6	9
2	Additive Manufacturing of Sustainable Construction Materials and Form-finding Structures: A Review on Recent Progresses. 3D Printing and Additive Manufacturing, 2022, 9, 12-34.	2.9	30
3	Performance of concrete beam reinforced with 3D printed Bioinspired primitive scaffold subjected to three-point bending. Automation in Construction, 2022, 134, 104060.	9.8	34
4	Effect of chemically treated recycled tire aggregate on the resistance to chloride ion penetration of concrete. Materials Today: Proceedings, 2022, 56, 1307-1312.	1.8	1
5	Use of industrial waste materials for 3D printing of sustainable concrete: A review. Journal of Cleaner Production, 2022, 340, 130749.	9.3	73
6	3D concrete printing modelling of thin-walled structures. Structures, 2022, 39, 496-511.	3.6	16
7	Material Design, Additive Manufacturing, and Performance of Cement-Based Materials. , 2022, , 301-320.		2
8	Influence of Sugarcane Bagasse Ash and Silica Fume on the Mechanical and Durability Properties of Concrete. Materials, 2022, 15, 3018.	2.9	18
9	Microbiologically Induced Concrete Corrosion: A Concise Review of Assessment Methods, Effects, and Corrosion-Resistant Coating Materials. Materials, 2022, 15, 4279.	2.9	11
10	Biomimicry for 3D concrete printing: A review and perspective. Additive Manufacturing, 2021, 38, 101823.	3.0	29
11	Use of magnesium-silicate-hydrate (M-S-H) cement mixes in 3D printing applications. Cement and Concrete Composites, 2021, 117, 103901.	10.7	31
12	Digital design computing and modelling for 3-D concrete printing. Automation in Construction, 2021, 123, 103529.	9.8	47
13	Strength Properties of Sustainable Mortar Containing Waste Steel Slag and Waste Clay Brick: Effect of Temperature. Materials, 2021, 14, 2113.	2.9	12
14	A Concise Review on Interlayer Bond Strength in 3D Concrete Printing. Sustainability, 2021, 13, 7137.	3.2	31
15	Sustainable materials for 3D concrete printing. Cement and Concrete Composites, 2021, 122, 104156.	10.7	108
16	A study on strength and corrosion protection of cement mortar with the inclusion of nanomaterials. Sustainable Materials and Technologies, 2020, 25, e00192.	3.3	6
17	Enhancement of Mechanical Properties and Porosity of Concrete Using Steel Slag Coarse Aggregate. Materials, 2020, 13, 2865.	2.9	33
18	An application of evolutionary computation algorithm in multidisciplinary design optimization of battery packs for electric vehicle. Energy Storage, 2020, 2, e158.	4.3	16

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19	Investigation of the properties of alkali-activated slag mixes involving the use of nanoclay and nucleation seeds for 3D printing. Composites Part B: Engineering, 2020, 186, 107826.	12.0	117
20	Time gap effect on bond strength of 3D-printed concrete. Virtual and Physical Prototyping, 2019, 14, 104-113.	10.4	162
21	Extrusion and rheology characterization of geopolymer nanocomposites used in 3D printing. Composites Part B: Engineering, 2019, 176, 107290.	12.0	162
22	The Effect of Material Fresh Properties and Process Parameters on Buildability and Interlayer Adhesion of 3D Printed Concrete. Materials, 2019, 12, 2149.	2.9	156
23	A combined experimentalâ€numerical framework for residual energy determination in spent lithiumâ€ion battery packs. International Journal of Energy Research, 2019, 43, 4390-4402.	4.5	9
24	A review of the estimation and heating methods for lithiumâ€ion batteries pack at the cold environment. Energy Science and Engineering, 2019, 7, 645-662.	4.0	56
25	Mechanical properties and deformation behaviour of early age concrete in the context of digital construction. Composites Part B: Engineering, 2019, 165, 563-571.	12.0	203
26	Synthesis and characterization of one-part geopolymers for extrusion based 3D concrete printing. Journal of Cleaner Production, 2019, 220, 610-619.	9.3	152
27	Improving the 3D printability of high volume fly ash mixtures via the use of nano attapulgite clay. Composites Part B: Engineering, 2019, 165, 75-83.	12.0	244
28	Rheological behavior of high volume fly ash mixtures containing micro silica for digital construction application. Materials Letters, 2019, 237, 348-351.	2.6	115
29	Review of materials used in laser-aided additive manufacturing processes to produce metallic products. Frontiers of Mechanical Engineering, 2019, 14, 282-298.	4.3	42
30	Bond Strength in 3D Printed Geopolymer Mortar. RILEM Bookseries, 2019, , 200-206.	0.4	11
31	Evaluation of genetic programming-based models for simulating bead dimensions in wire and arc additive manufacturing. Journal of Intelligent Manufacturing, 2019, 30, 809-820.	7.3	50
32	Numerical Investigation of Flexural Properties of Curved Layer FDM Parts. Advances in Intelligent Systems and Computing, 2019, , 255-263.	0.6	2
33	Assessment of Flexural and Splitting Strength of Fiber-Reinforced Concrete Using Artificial Intelligence. Advances in Civil Engineering Materials, 2019, 8, 20190030.	0.6	2
34	An Artificial Intelligence Model for Computing Optimum Fly Ash Content for Structural-Grade Concrete. Advances in Civil Engineering Materials, 2019, 8, 56-70.	0.6	5
35	Effect of 3D Printing on Mechanical Properties of Fly Ash-Based Inorganic Geopolymer. , 2018, , 509-515.		2
36	An empirical model design for evaluation and estimation of carbonation depth in concrete. Measurement: Journal of the International Measurement Confederation, 2018, 124, 205-210.	5.0	43

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37	Experimental study on mix proportion and fresh properties of fly ash based geopolymer for 3D concrete printing. Ceramics International, 2018, 44, 10258-10265.	4.8	310
38	An evolutionary framework in modelling of multi-output characteristics of the bone drilling process. Neural Computing and Applications, 2018, 29, 1233-1241.	5.6	36
39	A novel approach in modelling of concrete made with recycled aggregates. Measurement: Journal of the International Measurement Confederation, 2018, 115, 64-72.	5.0	30
40	Measurement of tensile bond strength of 3D printed geopolymer mortar. Measurement: Journal of the International Measurement Confederation, 2018, 113, 108-116.	5.0	325
41	Fresh and hardened properties of 3D printable cementitious materials for building and construction. Archives of Civil and Mechanical Engineering, 2018, 18, 311-319.	3.8	378
42	Experimental and numerical modelling of mechanical properties of 3D printed honeycomb structures. Measurement: Journal of the International Measurement Confederation, 2018, 116, 495-506.	5.0	79
43	Experimental Combined Numerical Approach for Evaluation of Battery Capacity Based on the Initial Applied Stress, the Real-Time Stress, Charging Open Circuit Voltage, and Discharging Open Circuit Voltage. Mathematical Problems in Engineering, 2018, 2018, 1-16.	1.1	11
44	Investigation of the rheology and strength of geopolymer mixtures for extrusion-based 3D printing. Cement and Concrete Composites, 2018, 94, 307-314.	10.7	283
45	Improving flexural characteristics of 3D printed geopolymer composites with in-process steel cable reinforcement. Construction and Building Materials, 2018, 178, 32-41.	7.2	164
46	Current challenges and future potential of 3D concrete printing. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 666-673.	0.9	64
47	Performance evaluation of warping characteristic of fused deposition modelling process. International Journal of Advanced Manufacturing Technology, 2017, 88, 1799-1811.	3.0	58
48	A CAD-based approach for measuring volumetric error in layered manufacturing. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 2398-2406.	2.1	28
49	True stress measurement of nuclear fuel rod cladding material subjected to DSA regime. Neural Computing and Applications, 2017, 28, 119-126.	5.6	3
50	3D printing trends in building and construction industry: a review. Virtual and Physical Prototyping, 2017, 12, 261-276.	10.4	516
51	A hybrid computational intelligence framework in modelling of coal-oil agglomeration phenomenon. Applied Soft Computing Journal, 2017, 55, 402-412.	7.2	13
52	Additive manufacturing of geopolymer for sustainable built environment. Journal of Cleaner Production, 2017, 167, 281-288.	9.3	328
53	System Identification: Survey on Modeling Methods and Models. Advances in Intelligent Systems and Computing, 2017, , 607-615.	0.6	8
54	Anisotropic mechanical performance of 3D printed fiber reinforced sustainable construction material. Materials Letters, 2017, 209, 146-149.	2.6	428

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55	A comprehensive study in quantification of response characteristics of incremental sheet forming process. International Journal of Advanced Manufacturing Technology, 2017, 89, 1353-1365.	3.0	10
56	Experimental- and numerical-based studies for magnetically impelled arc butt welding of T11 chromium alloy tubes. International Journal of Advanced Manufacturing Technology, 2017, 88, 3499-3506.	3.0	17
57	Automation of Robotic Concrete Printing Using Feedback Control System. , 2017, , .		10
58	Investigation of the joint length of weldment of environmental-friendly magnetic pulse welding process. International Journal of Advanced Manufacturing Technology, 2016, 87, 2415-2426.	3.0	27
59	Framework based on number of basis functions complexity measure in investigation of the power characteristics of direct methanol fuel cell. Chemometrics and Intelligent Laboratory Systems, 2016, 155, 7-18.	3.5	24
60	Functional characterization of current characteristic of direct methanol fuel cell. Fuel, 2016, 183, 432-440.	6.4	13
61	Study of effect of nanofluid concentration on response characteristics of machining process for cleaner production. Journal of Cleaner Production, 2016, 135, 476-489.	9.3	35
62	Characterization of the tensile properties of friction stir welded aluminum alloy joints based on axial force, traverse speed, and rotational speed. Frontiers of Mechanical Engineering, 2016, 11, 289-298.	4.3	31
63	Empirical investigation of environmental characteristic of 3-D additive manufacturing process based on slice thickness and part orientation. Measurement: Journal of the International Measurement Confederation, 2016, 86, 293-300.	5.0	30
64	Process characterisation of 3D-printed FDM components using improved evolutionary computational approach. International Journal of Advanced Manufacturing Technology, 2015, 78, 781-793.	3.0	87
65	A general regression neural network approach for the evaluation of compressive strength of FDM prototypes. Neural Computing and Applications, 2015, 26, 1129-1136.	5.6	68
66	Optimization of resistance spot welding parameters using differential evolution algorithm and GRNN. , 2014, , .		10
67	Benchmarking of rapid prototyping systems using grey relational analysis. International Journal of Services and Operations Management, 2013, 16, 460.	0.2	28
68	An Interpretive Structural Modeling Approach for Analysis of Interactions among the Barriers in Reverse Logistics. Applied Mechanics and Materials, 0, 110-116, 2699-2707.	0.2	0
69	Processing and Properties of Construction Materials for 3D Printing. Materials Science Forum, 0, 861, 177-181.	0.3	78