

Timothy C Claypole

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

673
citations

687363

13
h-index

552781

26
g-index

30
all docs

30
docs citations

30
times ranked

948
citing authors

#	ARTICLE	IF	CITATIONS
1	Patterning of micro-scale conductive networks using reel-to-reel flexographic printing. <i>Thin Solid Films</i> , 2010, 518, 6113-6116.	1.8	123
2	The effect of graphite and carbon black ratios on conductive ink performance. <i>Journal of Materials Science</i> , 2017, 52, 9520-9530.	3.7	97
3	Machine learning methods on exhaled volatile organic compounds for distinguishing COPD patients from healthy controls. <i>Journal of Breath Research</i> , 2012, 6, 036003.	3.0	71
4	Ultrafast near-infrared sintering of a slot-die coated nano-silver conducting ink. <i>Journal of Materials Chemistry</i> , 2011, 21, 7562.	6.7	64
5	Impact of metered ink volume on reel-to-reel flexographic printed conductive networks for enhanced thin film conductivity. <i>Thin Solid Films</i> , 2012, 520, 2233-2237.	1.8	50
6	Comparison of the antibacterial activity of essential oils and extracts of medicinal and culinary herbs to investigate potential new treatments for irritable bowel syndrome. <i>BMC Complementary and Alternative Medicine</i> , 2013, 13, 338.	3.7	40
7	Short-Term Intra-Subject Variation in Exhaled Volatile Organic Compounds (VOCs) in COPD Patients and Healthy Controls and Its Effect on Disease Classification. <i>Metabolites</i> , 2014, 4, 300-318.	2.9	28
8	High-speed imaging the effect of snap-off distance and squeegee speed on the ink transfer mechanism of screen-printed carbon pastes. <i>Journal of Coatings Technology Research</i> , 2020, 17, 447-459.	2.5	27
9	Stretchable Carbon and Silver Inks for Wearable Applications. <i>Nanomaterials</i> , 2021, 11, 1200.	4.1	17
10	Numerical simulation of dynamic contact angle using a force based formulation. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2011, 166, 900-907.	2.4	15
11	Patterning of Antibodies Using Flexographic Printing. <i>Langmuir</i> , 2012, 28, 9878-9884.	3.5	15
12	Deposition of High Conductivity Low Silver Content Materials by Screen Printing. <i>Coatings</i> , 2015, 5, 172-185.	2.6	15
13	Effect of photonic flash annealing with subsequent compression rolling on the topography, microstructure and electrical performance of carbon-based inks. <i>Journal of Materials Science</i> , 2019, 54, 8163-8176.	3.7	15
14	The Effect of Carbon Ink Rheology on Ink Separation Mechanisms in Screen-Printing. <i>Coatings</i> , 2020, 10, 1008.	2.6	15
15	Influence of the Surface Modification of Calcium Carbonate on Polyamide 12 Composites. <i>Polymers</i> , 2020, 12, 1295.	4.5	11
16	The effect of electrode calendaring on the performance of fully printed Zn ²⁺ /MnO ₂ batteries. <i>Flexible and Printed Electronics</i> , 2019, 4, 035003.	2.7	10
17	Level-set method for the modelling of liquid bridge formation and break-up. <i>Computers and Fluids</i> , 2011, 40, 42-51.	2.5	9
18	Rheology of high-aspect-ratio nanocarbons dispersed in a low-viscosity fluid. <i>Journal of Coatings Technology Research</i> , 2020, 17, 1003-1012.	2.5	9

#	ARTICLE	IF	CITATIONS
19	The effect of plasma functionalization on the print performance and time stability of graphite nanoplatelet electrically conducting inks. <i>Journal of Coatings Technology Research</i> , 2021, 18, 193-203.	2.5	7
20	The influence of carbon morphologies and concentrations on the rheology and electrical performance of screen-printed carbon pastes. <i>Journal of Materials Science</i> , 2022, 57, 2650-2666.	3.7	7
21	3-D Printing. , 2016, , 293-306.		6
22	Inorganic Printed LEDs for Wearable Technology. <i>Proceedings (mdpi)</i> , 2020, 32, .	0.2	4
23	Calcium Carbonate as Functional Filler in Polyamide 12-Manipulation of the Thermal and Mechanical Properties. <i>Processes</i> , 2021, 9, 937.	2.8	4
24	Printed Nanocarbon Heaters for Stretchable Sport and Leisure Garments. <i>Materials</i> , 2022, 15, 573.	2.9	4
25	Tailoring the properties of deposited thin coating and print features in flexography by application of UV-ozone treatment. <i>Journal of Coatings Technology Research</i> , 2016, 13, 815-828.	2.5	3
26	Impact of Bimodal Particle Size Distribution Ratio of Functional Calcium Carbonate Filler on Thermal and Flowability Properties of Polyamide 12. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 641.	2.5	3
27	Gap width modification on fully screen-printed coplanar Zn MnO ₂ batteries. <i>Flexible and Printed Electronics</i> , 2020, 5, 035007.	2.7	3
28	Passivation capability of carbon black layers for screen-printed battery applications with Ag current collectors. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	1
29	Break-up in Capillary Thinning Experiments: Using the CaBER to Determine Maximum Tensile Strength at Low Stressing Rates. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
30	Three-Dimensionalâ€“Printed Laboratory-on-a-Chip With Microelectronics and Silicon Integration. <i>Point of Care</i> , 2017, 16, 97-101.	0.4	0