

Timothy C Claypole

List of Publications by Year in descending order

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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	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
2	Printed Nanocarbon Heaters for Stretchable Sport and Leisure Garments. <i>Materials</i> , 2022, 15, 573.	2.9	4
3	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
4	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
5	Stretchable Carbon and Silver Inks for Wearable Applications. <i>Nanomaterials</i> , 2021, 11, 1200.	4.1	17
6	Calcium Carbonate as Functional Filler in Polyamide 12-Manipulation of the Thermal and Mechanical Properties. <i>Processes</i> , 2021, 9, 937.	2.8	4
7	Inorganic Printed LEDs for Wearable Technology. <i>Proceedings (mdpi)</i> , 2020, 32, .	0.2	4
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	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
10	The Effect of Carbon Ink Rheology on Ink Separation Mechanisms in Screen-Printing. <i>Coatings</i> , 2020, 10, 1008.	2.6	15
11	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
12	Influence of the Surface Modification of Calcium Carbonate on Polyamide 12 Composites. <i>Polymers</i> , 2020, 12, 1295.	4.5	11
13	Gap width modification on fully screen-printed coplanar Zn MnO ₂ batteries. <i>Flexible and Printed Electronics</i> , 2020, 5, 035007.	2.7	3
14	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
15	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
16	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
17	Three-Dimensional “Printed Laboratory-on-a-Chip With Microelectronics and Silicon Integration. <i>Point of Care</i> , 2017, 16, 97-101.	0.4	0
18	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

#	ARTICLE	IF	CITATIONS
19	3-D Printing. , 2016, , 293-306.		6
20	Deposition of High Conductivity Low Silver Content Materials by Screen Printing. Coatings, 2015, 5, 172-185.	2.6	15
21	Short-Term Intra-Subject Variation in Exhaled Volatile Organic Compounds (VOCs) in COPD Patients and Healthy Controls and Its Effect on Disease Classification. Metabolites, 2014, 4, 300-318.	2.9	28
22	Comparison of the antibacterial activity of essential oils and extracts of medicinal and culinary herbs to investigate potential new treatments for irritable bowel syndrome. BMC Complementary and Alternative Medicine, 2013, 13, 338.	3.7	40
23	Patterning of Antibodies Using Flexographic Printing. Langmuir, 2012, 28, 9878-9884.	3.5	15
24	Machine learning methods on exhaled volatile organic compounds for distinguishing COPD patients from healthy controls. Journal of Breath Research, 2012, 6, 036003.	3.0	71
25	Impact of metered ink volume on reel-to-reel flexographic printed conductive networks for enhanced thin film conductivity. Thin Solid Films, 2012, 520, 2233-2237.	1.8	50
26	Ultrafast near-infrared sintering of a slot-die coated nano-silver conducting ink. Journal of Materials Chemistry, 2011, 21, 7562.	6.7	64
27	Level-set method for the modelling of liquid bridge formation and break-up. Computers and Fluids, 2011, 40, 42-51.	2.5	9
28	Numerical simulation of dynamic contact angle using a force based formulation. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 900-907.	2.4	15
29	Patterning of micro-scale conductive networks using reel-to-reel flexographic printing. Thin Solid Films, 2010, 518, 6113-6116.	1.8	123
30	Break-up in Capillary Thinning Experiments: Using the CaBER to Determine Maximum Tensile Strength at Low Stressing Rates. AIP Conference Proceedings, 2008, , .	0.4	0