

Wim Deferme

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

583
citations

13
h-index

21
g-index

62
ext. papers

798
ext. citations

3.9
avg, IF

4.19
L-index

#	Paper	IF	Citations
57	Fiber Engineering Trifecta of Spinnability, Morphology, and Properties: Centrifugally Spun versus Electrospun Fibers. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 2022-2035	4.3	3
56	Inkjet-Printed Lenses with Adjustable Contact Angle to Improve the Light Out-Coupling of Organic Light-Emitting Diodes. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100212	3.5	1
55	Printing of flexible light emitting devices: A review on different technologies and devices, printing technologies and state-of-the-art applications and future prospects. <i>Progress in Materials Science</i> , 2021 , 118, 100760	42.2	10
54	Monitoring Body Fluids in Textiles: Combining Impedance and Thermal Principles in a Printed, Wearable, and Washable Sensor. <i>ACS Sensors</i> , 2021 , 6, 896-907	9.2	6
53	Oxygen Gas and UV Barrier Properties of Nano-ZnO-Coated PET and PHBHHx Materials Fabricated by Ultrasonic Spray-Coating Technique. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
52	Fully printed, stretchable and wearable bioimpedance sensor on textiles for tomography. <i>Flexible and Printed Electronics</i> , 2021 , 6, 015010	3.1	3
51	Screen Printed Antennas on Fiber-Based Substrates for Sustainable HF RFID Assisted E-Fulfilment Smart Packaging. <i>Materials</i> , 2021 , 14,	3.5	3
50	Printed Electronics (PE) As An enabling Technology To Realize Flexible Mass Customized Smart Applications. <i>Procedia CIRP</i> , 2021 , 96, 115-120	1.8	8
49	Layer Morphology and Ink Compatibility of Silver Nanoparticle Inkjet Inks for Near-Infrared Sintering. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
48	Influence of Polymer Concentration and Nozzle Material on Centrifugal Fiber Spinning. <i>Polymers</i> , 2020 , 12,	4.5	16
47	Miniaturized and Thermal-Based Measurement System to Measure Moisture in Textile Materials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900835	1.6	
46	Velocity and size measurement of droplets from an ultrasonic spray coater using photon correlation spectroscopy and turbidimetry. <i>Applied Optics</i> , 2020 , 59, 7496-7503	1.7	0
45	A Model-Based Sensor Fusion Approach for Force and Shape Estimation in Soft Robotics. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 5621-5628	4.2	18
44	Photo-induced copper-mediated (meth)acrylate polymerization towards graphene oxide and reduced graphene oxide modification. <i>European Polymer Journal</i> , 2020 , 134, 109810	5.2	3
43	Inkjet Printing of PEDOT:PSS Based Conductive Patterns for 3D Forming Applications. <i>Polymers</i> , 2020 , 12,	4.5	13
42	Charge-Discharge Characteristics of Textile Energy Storage Devices Having Different PEDOT:PSS Ratios and Conductive Yarns Configuration. <i>Polymers</i> , 2019 , 11,	4.5	15
41	Effectiveness of Ligand Denticity-Dependent Oxidation Protection in Copper MOD Inks. <i>Langmuir</i> , 2019 , 35, 16101-16110	4	5

40	(Bio)polymer/ZnO Nanocomposites for Packaging Applications: A Review of Gas Barrier and Mechanical Properties. <i>Nanomaterials</i> , 2019 , 9,	5.4	39
39	New Type of Thermal Moisture Sensor for in-Textile Measurements. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800765	1.6	4
38	Links Between Heathland Fungal Biomass Mineralization, Melanization, and Hydrophobicity. <i>Microbial Ecology</i> , 2018 , 76, 762-770	4.4	7
37	Direct Printing of Light-Emitting Devices on Textile Substrates 2018 , 259-277		1
36	Silicone Devices 2018 ,		25
35	Organic and perovskite solar cells for space applications. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 182, 121-127	6.4	87
34	Screen-printing of flexible semi-transparent electrodes and devices based on silver nanowire networks. <i>Nanotechnology</i> , 2018 , 29, 425201	3.4	6
33	Printing Smart Designs of Light Emitting Devices with Maintained Textile Properties. <i>Materials</i> , 2018 , 11,	3.5	16
32	Fabrication Approaches to Interconnect Based Devices for Stretchable Electronics: A Review. <i>Materials</i> , 2018 , 11,	3.5	22
31	Methodology of the first combined in-flight and ex situ stability assessment of organic-based solar cells for space applications. <i>Journal of Materials Research</i> , 2018 , 33, 1841-1852	2.5	6
30	Optimizing the outcoupling efficiency and the radiation pattern of organic light emitting devices by inkjet printing lens arrays films 2018 ,		4
29	Ultrasonic Spray Coating as a Fast Alternative Technique for the Deposition of Hybrid Magnetic-Plasmonic Nanocomposites. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800681	3.5	4
28	Ultrasonically spray coated silver layers from designed precursor inks for flexible electronics. <i>Nanotechnology</i> , 2017 , 28, 215202	3.4	7
27	Steering the Properties of MoOx Hole Transporting Layers in OPVs and OLEDs: Interface Morphology vs. Electronic Structure. <i>Materials</i> , 2017 , 10,	3.5	4
26	Surface Roughness Reduction of Additive Manufactured Products by Applying a Functional Coating Using Ultrasonic Spray Coating. <i>Coatings</i> , 2017 , 7, 208	2.9	13
25	Layer formation and morphology of ultrasonic spray coated polystyrene nanoparticle layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1441-1446	1.6	9
24	A study on the thermal sintering process of silver nanoparticle inkjet inks to achieve smooth and highly conducting silver layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1403-1409	1.6	19
23	Ultrasonic spray coating as deposition technique for the light-emitting layer in polymer LEDs. <i>Organic Electronics</i> , 2015 , 20, 31-35	3.5	35

22	Microwave annealing, a promising step in the roll-to-roll processing of organic electronics. <i>Facta Universitatis - Series Electronics and Energetics</i> , 2015 , 28, 143-151	0.4	2
21	Towards fully spray coated organic light emitting devices 2014 ,		1
20	Molecular imprinted polymer films on RFID tags: a first step towards disposable packaging sensors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 938-944	1.6	15
19	Crystallite size dependent carrier recombination rate and thermal diffusivity in undoped and boron doped CVD diamond layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 2022-2027	1.6	3
18	Surface states and photo-induced charge transfer on oxygen-terminated chemical vapor deposition diamond. <i>Journal of Applied Physics</i> , 2011 , 109, 063701	2.5	2
17	Carrier lifetime, diffusion length and mobility in (100) CVD diamond samples pre-treated in an O ₂ /H ₂ -plasma. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1282, 39		
16	Charge transport in high mobility single crystal diamond. <i>Diamond and Related Materials</i> , 2008 , 17, 1235-1240	3.4	62
15	Tip voltage controlled local modification of hydrogenated diamond surface with an atomic force microscope. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 2920-2924	1.6	3
14	Electrostatic force microscopy study of electrical conductivity of hydrogen-terminated CVD diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 2915-2919	1.6	
13	Electrical transport measurements and emission properties of freestanding single crystalline CVD diamond samples. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 3017-3022	1.6	12
12	Titanium Nitride Grown by Sputtering for Contacts on Boron-Doped Diamond. <i>Plasma Processes and Polymers</i> , 2007 , 4, S139-S143	3.4	2
11	Electrostatic force microscopy mapping of electrical conductivity of hydrogen-terminated diamond films. <i>Applied Physics Letters</i> , 2007 , 91, 142111	3.4	2
10	The Influence of Different Surface Terminations on Electrical Transport and Emission Properties for Freestanding Single Crystalline (100) CVD Diamond Samples. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1039, 1		
9	The role of (sub)-surface oxygen on the surface electronic structure of hydrogen terminated (100) CVD diamond. <i>Diamond and Related Materials</i> , 2006 , 15, 687-691	3.5	13
8	Investigation of hydrogenated CVD diamond films by photo-thermal ionization spectroscopy. <i>Diamond and Related Materials</i> , 2006 , 15, 682-686	3.5	2
7	Compositional and electrical characterisation of the hydrogen-oxygen terminated diamond (100) surface. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 3114-3120	1.6	8
6	Thick single crystal CVD diamond prepared from CH ₄ -rich mixtures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 3063-3069	1.6	18
5	PTIS investigation of hydrogenated CVD diamond films. <i>Physica Status Solidi A</i> , 2005 , 202, 2171-2176		1

4	Head-On Immobilization of DNA Fragments on CVD-Diamond Layers. <i>Materials Science Forum</i> , 2005 , 492-493, 267-272	0.4	5
3	Printed pH Sensors for Textile-Based Wearables: A Conceptual and Experimental Study on Materials, Deposition Technology, and Sensing Principles. <i>Advanced Engineering Materials</i> , 2101087	3.5	2
2	Centrifugally spun poly(ethylene oxide) fibers rival the properties of electrospun fibers. <i>Journal of Polymer Science</i> ,	2.4	8
1	Ultrasonic Spray Coating of Silver Nanowire-Based Electrodes for Organic Light-Emitting Diodes. <i>Advanced Engineering Materials</i> , 2100808	3.5	0