

Patrick R L Malenfant

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,022
citations

516561

16
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580701

25
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docs citations

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times ranked

1270
citing authors

#	ARTICLE	IF	CITATIONS
1	Boron Nitride Nanotube Coatings for Thermal Management of Printed Silver Inks on Temperature Sensitive Substrates. <i>Advanced Electronic Materials</i> , 2021, 7, 2001035.	2.6	7
2	UV-Curable Silver Oxalate-Based Molecular Inks and Their Application for In-Mold Electronics. <i>Advanced Electronic Materials</i> , 2021, 7, 2100194.	2.6	13
3	Multimaterial Vat Polymerization Additive Manufacturing. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4304-4324.	2.0	67
4	Efficient charge carrier control on single walled carbon nanotube thin film transistors using water soluble polymer coatings. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 23923-23934.	1.1	1
5	Direct printing of functional 3D objects using polymerization-induced phase separation. <i>Nature Communications</i> , 2021, 12, 55.	5.8	38
6	Fluorene Copolymer and Carbon Nanotube Interaction Modulates Network Transistor Performance. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4424-4432.	2.0	4
7	Near-Infrared-II Photodetectors Based on Silver Selenide Quantum Dots on Mesoporous TiO ₂ Scaffolds. <i>ACS Applied Nano Materials</i> , 2020, 3, 12209-12217.	2.4	14
8	Phenanthroline Additives for Enhanced Semiconducting Carbon Nanotube Dispersion Stability and Transistor Performance. <i>ACS Applied Nano Materials</i> , 2020, 3, 12314-12324.	2.4	16
9	Enrichment of Semiconducting Single-Walled Carbon Nanotubes with Indigo-Fluorene-Based Copolymers and Their Use in Printed Thin-Film Transistors and Carbon Dioxide Gas Sensors. <i>ACS Sensors</i> , 2020, 5, 2136-2145.	4.0	30
10	Fully R2R-Printed Carbon Nanotube-Based Limitless Length of Flexible Active Matrix for Electrophoretic Display Application. <i>Advanced Electronic Materials</i> , 2020, 6, 1901431.	2.6	49
11	Mechanistic Insight into Bis(amino) Copper Formate Thermochemistry for Conductive Molecular Ink Design. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33039-33049.	4.0	14
12	Probing Ca ²⁺ -induced conformational change of calmodulin with gold nanoparticle-decorated single-walled carbon nanotube field-effect transistors. <i>Nanoscale</i> , 2019, 11, 13397-13406.	2.8	16
13	Formulation of Screen-Printable Cu Molecular Ink for Conductive/Flexible/Solderable Cu Traces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38880-38894.	4.0	28
14	Synthesis of Monodisperse Silver Chalcogenide Quantum Dots with Elevated Precursor Reactivity for the Application in Near Infrared Photodetectors. , 2019, , .		2
15	Decomposable <i>s</i> -Tetrazine Copolymer Enables Single-Walled Carbon Nanotube Thin Film Transistors and Sensors with Improved Sensitivity. <i>Advanced Functional Materials</i> , 2018, 28, 1705568.	7.8	36
16	Sorting of Semiconducting Single-Walled Carbon Nanotubes in Polar Solvents with an Amphiphilic Conjugated Polymer Provides General Guidelines for Enrichment. <i>ACS Nano</i> , 2018, 12, 1910-1919.	7.3	50
17	The role of amine ligands in governing film morphology and electrical properties of copper films derived from copper formate-based molecular inks. <i>Nanoscale</i> , 2018, 10, 6911-6921.	2.8	45
18	Dopant-Modulated Conjugated Polymer Enrichment of Semiconducting SWCNTs. <i>ACS Omega</i> , 2018, 3, 3413-3419.	1.6	9

#	ARTICLE	IF	CITATIONS
19	Dielectrics & Electrostatics: Their Effect on Carbon Nanotube Network Field-Effect Transistors and Gas Sensors. ECS Meeting Abstracts, 2018, , .	0.0	0
20	Cyanoethylated pullulan as a high-k solution processable polymer gate dielectric for SWCNT TFTs. Organic Electronics, 2017, 42, 329-336.	1.4	16
21	Versatile Molecular Silver Ink Platform for Printed Flexible Electronics. ACS Applied Materials & Interfaces, 2017, 9, 17226-17237.	4.0	89
22	High-Purity Semiconducting Single-Walled Carbon Nanotubes: A Key Enabling Material in Emerging Electronics. Accounts of Chemical Research, 2017, 50, 2479-2486.	7.6	82
23	Fully Printed and Encapsulated SWCNT-Based Thin Film Transistors via a Combination of R2R Gravure and Inkjet Printing. ACS Applied Materials & Interfaces, 2016, 8, 27900-27910.	4.0	125
24	Mechanistic Consideration of pH Effect on the Enrichment of Semiconducting SWCNTs by Conjugated Polymer Extraction. Journal of Physical Chemistry C, 2016, 120, 21946-21954.	1.5	20
25	Raman microscopy mapping for the purity assessment of chirality enriched carbon nanotube networks in thin-film transistors. Nano Research, 2015, 8, 2179-2187.	5.8	50
26	A hybrid enrichment process combining conjugated polymer extraction and silica gel adsorption for high purity semiconducting single-walled carbon nanotubes (SWCNT). Nanoscale, 2015, 7, 15741-15747.	2.8	47
27	Enrichment of large-diameter semiconducting SWCNTs by polyfluorene extraction for high network density thin film transistors. Nanoscale, 2014, 6, 2328.	2.8	154