Patrick R L Malenfant

List of Publications by Year
in descending order

27	1,022	516561 16	580701 25
papers	citations	h-index	g-index

27	27	27	1270
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enrichment of large-diameter semiconducting SWCNTs by polyfluorene extraction for high network density thin film transistors. Nanoscale, 2014, 6, 2328.	2.8	154
2	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
3	Versatile Molecular Silver Ink Platform for Printed Flexible Electronics. ACS Applied Materials & Interfaces, 2017, 9, 17226-17237.	4.0	89
4	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
5	Multimaterial Vat Polymerization Additive Manufacturing. ACS Applied Polymer Materials, 2021, 3, 4304-4324.	2.0	67
6	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
7	Sorting of Semiconducting Single-Walled Carbon Nanotubes in Polar Solvents with an Amphiphilic Conjugated Polymer Provides General Guidelines for Enrichment. ACS Nano, 2018, 12, 1910-1919.	7.3	50
8	Fully R2Râ€Printed Carbonâ€Nanotubeâ€Based Limitless Length of Flexible Activeâ€Matrix for Electrophoretic Display Application. Advanced Electronic Materials, 2020, 6, 1901431.	2.6	49
9	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
10	The role of amine ligands in governing film morphology and electrical properties of copper films derived from copper formate-based molecular inks. Nanoscale, 2018, 10, 6911-6921.	2.8	45
11	Direct printing of functional 3D objects using polymerization-induced phase separation. Nature Communications, 2021, 12, 55.	5.8	38
12	Decomposable sâ€Tetrazine Copolymer Enables Singleâ€Walled Carbon Nanotube Thin Film Transistors and Sensors with Improved Sensitivity. Advanced Functional Materials, 2018, 28, 1705568.	7.8	36
13	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. ACS Sensors, 2020, 5, 2136-2145.	4.0	30
14	Formulation of Screen-Printable Cu Molecular Ink for Conductive/Flexible/Solderable Cu Traces. ACS Applied Materials & Interfaces, 2019, 11, 38880-38894.	4.0	28
15	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
16	Cyanoethylated pullulan as a high-k solution processable polymer gate dielectric for SWCNT TFTs. Organic Electronics, 2017, 42, 329-336.	1.4	16
17	Probing Ca²⁺-induced conformational change of calmodulin with gold nanoparticle-decorated single-walled carbon nanotube field-effect transistors. Nanoscale, 2019, 11, 13397-13406.	2.8	16
18	Phenanthroline Additives for Enhanced Semiconducting Carbon Nanotube Dispersion Stability and Transistor Performance. ACS Applied Nano Materials, 2020, 3, 12314-12324.	2.4	16

#	Article	IF	Citations
19	Near-Infrared-II Photodetectors Based on Silver Selenide Quantum Dots on Mesoporous TiO₂ Scaffolds. ACS Applied Nano Materials, 2020, 3, 12209-12217.	2.4	14
20	Mechanistic Insight into Bis(amino) Copper Formate Thermochemistry for Conductive Molecular Ink Design. ACS Applied Materials & Interfaces, 2020, 12, 33039-33049.	4.0	14
21	UVâ€Sinterable Silver Oxalateâ€Based Molecular Inks and Their Application for Inâ€Mold Electronics. Advanced Electronic Materials, 2021, 7, 2100194.	2.6	13
22	Dopant-Modulated Conjugated Polymer Enrichment of Semiconducting SWCNTs. ACS Omega, 2018, 3, 3413-3419.	1.6	9
23	Boron Nitride Nanotube Coatings for Thermal Management of Printed Silver Inks on Temperature Sensitive Substrates. Advanced Electronic Materials, 2021, 7, 2001035.	2.6	7
24	Fluorene Copolymer and Carbon Nanotube Interaction Modulates Network Transistor Performance. ACS Applied Electronic Materials, 2021, 3, 4424-4432.	2.0	4
25	Synthesis of Monodisperse Silver Chalcogenide Quantum Dots with Elevated Precursor Reactivity for the Application in Near Infrared Photodetectors. , 2019, , .		2
26	Efficient charge carrier control on single walled carbon nanotube thin film transistors using water soluble polymer coatings. Journal of Materials Science: Materials in Electronics, 2021, 32, 23923-23934.	1.1	1
27	Dielectrics & Electrostatics: Their Effect on Carbon Nanotube Network Field-Effect Transistors and Gas Sensors. ECS Meeting Abstracts, 2018, , .	0.0	0