

# Simon Rondeau-Gagné©

## List of Publications by Year in descending order

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79  
papers

4,576  
citations

185998

28  
h-index

102304

66  
g-index

84  
all docs

84  
docs citations

84  
times ranked

5873  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication and Characterization of Autonomously Self-Healable and Stretchable Soft Microfluidics. <i>Advanced Sustainable Systems</i> , 2022, 6, 2100074.	2.7	6
2	PAMAM-containing semiconducting polymers: Effect of dendritic side chains on optoelectronic and solid-state properties. <i>Journal of Polymer Science</i> , 2022, 60, 590-601.	2.0	1
3	From Chlorinated Solvents to Branched Polyethylene: Solvent-Induced Phase Separation for the Greener Processing of Semiconducting Polymers. <i>Advanced Electronic Materials</i> , 2022, 8, 2100928.	2.6	3
4	2,9-Dibenzo[ <i>b</i> ][ <i>def</i> ]chrysene as a building block for organic electronics. <i>Materials Advances</i> , 2022, 3, 599-603.	2.6	5
5	Molecular engineering of benzothiadiazole-based polymers: balancing charge transport and stretchability in organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4236-4246.	2.7	14
6	Elucidating the Role of Hydrogen Bonds for Improved Mechanical Properties in a High-Performance Semiconducting Polymer. <i>Chemistry of Materials</i> , 2022, 34, 2259-2267.	3.2	30
7	Carbohydrate-Containing Conjugated Polymers: Solvent-Resistant Materials for Greener Organic Electronics. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1381-1390.	2.0	6
8	Polyethylene and Semiconducting Polymer Blends for the Fabrication of Organic Field-Effect Transistors: Balancing Charge Transport and Stretchability. <i>Chemosensors</i> , 2022, 10, 201.	1.8	4
9	Impairing proliferation of glioblastoma multiforme with CD44-selective conjugated polymer nanoparticles. <i>Scientific Reports</i> , 2022, 12, .	1.6	5
10	Intrinsically Porous Polydiacetylene from a Functionalized Bowl-Shaped Hexaphenoxycyclotriphosphazene Derivative. <i>ACS Applied Polymer Materials</i> , 2021, 3, 191-199.	2.0	5
11	Synthesis and Photocyclization of Conjugated Diselenophene Pyrrole-2,5-dione Based Monomers for Optoelectronics. <i>Macromolecules</i> , 2021, 54, 665-672.	2.2	14
12	An air-stable n-type bay-and-headland substituted bis-cyano N-H functionalized perylene diimide for printed electronics. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13630-13634.	2.7	9
13	Observation of Stepwise Ultrafast Crystallization Kinetics of Donor-Acceptor Conjugated Polymers and Correlation with Field Effect Mobility. <i>Chemistry of Materials</i> , 2021, 33, 1637-1647.	3.2	17
14	Molecular Origin of Strain-Induced Chain Alignment in PDPP-Based Semiconducting Polymeric Thin Films. <i>Advanced Functional Materials</i> , 2021, 31, 2100161.	7.8	38
15	The biosynthesis of the cannabinoids. <i>Journal of Cannabis Research</i> , 2021, 3, 7.	1.5	60
16	SMART transfer method to directly compare the mechanical response of water-supported and free-standing ultrathin polymeric films. <i>Nature Communications</i> , 2021, 12, 2347.	5.8	30
17	Enhancing the Solubility of Semiconducting Polymers in Eco-Friendly Solvents with Carbohydrate-Containing Side Chains. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 25175-25185.	4.0	15
18	Modulating the Photophysical Properties and Electron Transfer Rates in Diketopyrrolopyrrole-Based Coordination Polymers. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9579-9587.	1.2	1

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19	A universal and facile approach for building multifunctional conjugated polymers for human-integrated electronics. <i>Matter</i> , 2021, 4, 3015-3029.	5.0	13
20	Computational Design of an Integrated CMOS Readout Circuit for Sensing With Organic Field-Effect Transistors. <i>Frontiers in Electronics</i> , 2021, 2, .	2.0	1
21	Precise Control of Noncovalent Interactions in Semiconducting Polymers for High-Performance Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2021, 33, 8267-8277.	3.2	18
22	Ferrocene metallopolymers of intrinsic microporosity (MPIMs). <i>Chemical Communications</i> , 2021, 58, 238-241.	2.2	4
23	Sidechain engineering of N-annulated perylene diimide molecules. <i>New Journal of Chemistry</i> , 2021, 45, 21001-21005.	1.4	8
24	Eco-friendly semiconducting polymers: from greener synthesis to greener processability. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14645-14664.	2.7	40
25	Modulating the thermomechanical properties and self-healing efficiency of siloxane-based soft polymers through metal-ligand coordination. <i>New Journal of Chemistry</i> , 2020, 44, 8977-8985.	1.4	20
26	Iron-coordinating $\pi$ -conjugated semiconducting polymer: morphology and charge transport in organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8213-8223.	2.7	12
27	Tacky Elastomers to Enable Tear-Resistant and Autonomous Self-Healing Semiconductor Composites. <i>Advanced Functional Materials</i> , 2020, 30, 2000663.	7.8	85
28	Crack propagation and electronic properties of semiconducting polymer and siloxane-urea copolymer blends. <i>Flexible and Printed Electronics</i> , 2020, 5, 035001.	1.5	4
29	Toward the Prediction and Control of Glass Transition Temperature for Donor-Acceptor Polymers. <i>Advanced Functional Materials</i> , 2020, 30, 2002221.	7.8	46
30	Multiamorphous Phases in Diketopyrrolopyrrole-Based Conjugated Polymers: From Bulk to Ultrathin Films. <i>Macromolecules</i> , 2020, 53, 4480-4489.	2.2	18
31	Branched Polyethylene as a Plasticizing Additive to Modulate the Mechanical Properties of $\pi$ -Conjugated Polymers. <i>Macromolecules</i> , 2019, 52, 7870-7877.	2.2	27
32	Topochemical Polymerization of a Nematic Tetraazaporphyrin Derivative To Generate Soluble Polydiacetylene Nanowires. <i>Langmuir</i> , 2019, 35, 15158-15167.	1.6	8
33	Pyrazine as a noncovalent conformational lock in semiconducting polymers for enhanced charge transport and stability in thin film transistors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11507-11514.	2.7	3
34	Imine and metal-ligand dynamic bonds in soft polymers for autonomous self-healing capacitive-based pressure sensors. <i>Soft Matter</i> , 2019, 15, 7654-7662.	1.2	44
35	Conjugated Polymer with Polydiacetylene Cross-Links Through Topochemical Polymerization of 1,3-Butadiyne Moieties Toward Photopatternable Thin Films. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1918-1924.	2.0	16
36	Recent Advances in Mechanically Robust and Stretchable Bulk Heterojunction Polymer Solar Cells. <i>Chemical Record</i> , 2019, 19, 1008-1027.	2.9	43

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37	Morphology and Electronic Properties of Semiconducting Polymer and Branched Polyethylene Blends. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 12723-12732.	4.0	27
38	The Critical Role of Electron-Donating Thiophene Groups on the Mechanical and Thermal Properties of Donor-Acceptor Semiconducting Polymers. <i>Advanced Electronic Materials</i> , 2019, 5, 1800899.	2.6	89
39	3. Self-Healing Materials: Design and Applications. , 2019, , 87-112.		0
40	Photophysical and Optical Properties of Semiconducting Polymer Nanoparticles Prepared from Hyaluronic Acid and Polysorbate 80. <i>ACS Omega</i> , 2019, 4, 22591-22600.	1.6	4
41	Challenge and Solution of Characterizing Glass Transition Temperature for Conjugated Polymers by Differential Scanning Calorimetry. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1635-1644.	2.4	27
42	A comparative analysis of capacitive-based flexible PDMS pressure sensors. <i>Sensors and Actuators A: Physical</i> , 2019, 285, 427-436.	2.0	64
43	Self-Assembly of Board-Shaped Diketopyrrolopyrrole and Isoindigo Mesogens into Columnar $\pi$ - $\pi$ Stacks. <i>ChemPlusChem</i> , 2019, 84, 103-106.	1.3	3
44	Amide-Containing Alkyl Chains in Conjugated Polymers: Effect on Self-Assembly and Electronic Properties. <i>Macromolecules</i> , 2018, 51, 1336-1344.	2.2	91
45	Influence of amide-containing side chains on the mechanical properties of diketopyrrolopyrrole-based polymers. <i>Polymer Chemistry</i> , 2018, 9, 5531-5542.	1.9	56
46	Electronic properties of isoindigo-based conjugated polymers bearing urea-containing and linear alkyl side chains. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12070-12078.	2.7	20
47	Effect of Nonconjugated Spacers on Mechanical Properties of Semiconducting Polymers for Stretchable Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1804222.	7.8	134
48	Covalent Cross-Linking of Diketopyrrolopyrrole-Based Organogels with Polydiacetylenes. <i>Langmuir</i> , 2018, 34, 12126-12136.	1.6	22
49	Probing the Viscoelastic Property of Pseudo Free-Standing Conjugated Polymeric Thin Films. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800092.	2.0	79
50	Enhanced Charge Transport and Stability Conferred by Iron(III)-Coordination in a Conjugated Polymer Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2018, 4, 1800239.	2.6	13
51	Topochemical Polymerization of Phenylacetylene Macrocycles under Pressure. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20034-20039.	1.5	7
52	Recent progress in the stabilization of supramolecular assemblies with functional polydiacetylenes. <i>Polymer Chemistry</i> , 2018, 9, 3019-3028.	1.9	54
53	Highly stretchable polymer semiconductor films through the nanoconfinement effect. <i>Science</i> , 2017, 355, 59-64.	6.0	897
54	2D Supramolecular networks of dibenzonitrilediacetylene on Ag(111) stabilized by intermolecular hydrogen bonding. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10602-10610.	1.3	6

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55	Enhanced Cycling Stability of Sulfur Electrodes through Effective Binding of Pyridine-Functionalized Polymer. <i>ACS Energy Letters</i> , 2017, 2, 2454-2462.	8.8	23
56	Stretchable electronics: recent progress in the preparation of stretchable and self-healing semiconducting conjugated polymers. <i>Flexible and Printed Electronics</i> , 2017, 2, 043002.	1.5	65
57	Intrinsically stretchable and healable semiconducting polymer for organic transistors. <i>Nature</i> , 2016, 539, 411-415.	13.7	1,030
58	Pressure Sensors: A Sensitive and Biodegradable Pressure Sensor Array for Cardiovascular Monitoring ( <i>Adv. Mater.</i> 43/2015). <i>Advanced Materials</i> , 2015, 27, 6953-6953.	11.1	11
59	Synthesis of a fluorescent BODIPY-tagged ROMP catalyst and initial polymerization-propelled diffusion studies. <i>Tetrahedron</i> , 2015, 71, 5965-5972.	1.0	12
60	A Sensitive and Biodegradable Pressure Sensor Array for Cardiovascular Monitoring. <i>Advanced Materials</i> , 2015, 27, 6954-6961.	11.1	544
61	Improving the reactivity of phenylacetylene macrocycles toward topochemical polymerization by side chains modification. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 1613-1619.	1.3	5
62	Synthesis, gelation and topochemical polymerization of meta-linked oligophenylenebutadiynylene derivatives. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9236-9242.	1.5	7
63	Carbon nanomaterials from pyrolysis of polydiacetylene-walled nanorods. <i>Materials Research Express</i> , 2014, 1, 015602.	0.8	2
64	3. Synthesis, functionalization and properties of fullerenes and graphene materials. , 2014, , 37-60.		0
65	Preparation of carbon nanomaterials from molecular precursors. <i>Chemical Society Reviews</i> , 2014, 43, 85-98.	18.7	76
66	Layered graphitic materials from a molecular precursor. <i>Chemical Science</i> , 2014, 5, 831-836.	3.7	34
67	The importance of the amide configuration in the gelation process and topochemical polymerization of phenylacetylene macrocycles. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2680.	2.7	25
68	Topochemical Polymerization of Phenylacetylene Macrocycles: A New Strategy for the Preparation of Organic Nanorods. <i>Journal of the American Chemical Society</i> , 2013, 135, 110-113.	6.6	106
69	Rigid organic nanotubes obtained from phenylene-butadiynylene macrocycles. <i>Chemical Communications</i> , 2013, 49, 9546.	2.2	40
70	Soluble Conjugated One-Dimensional Nanowires Prepared by Topochemical Polymerization of a Butadiynes-Containing Star-Shaped Molecule in the Xerogel State. <i>Langmuir</i> , 2013, 29, 3446-3452.	1.6	54
71	Room-temperature synthesis of soluble, fluorescent carbon nanoparticles from organogel precursors. <i>Chemical Communications</i> , 2012, 48, 10144.	2.2	39
72	Ethynyl-bridged fullerene derivatives: effect of the secondary group on electronic properties. <i>New Journal of Chemistry</i> , 2011, 35, 942.	1.4	5

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73	H-Bonding-driven gel formation of a phenylacetylene macrocycle. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 4440.	1.5	21
74	Synthesis and characterization of a new ethynyl-bridged C60 derivative bearing a diketopyrrolopyrrole moiety. <i>Tetrahedron Letters</i> , 2011, 52, 5008-5011.	0.7	18
75	Synthesis, characterization and DFT calculations of new ethynyl-bridged C60 derivatives. <i>Tetrahedron</i> , 2010, 66, 4230-4242.	1.0	26
76	Synthesis of betulinic acid acyl glucuronide for application in anticancer prodrug monotherapy. <i>Tetrahedron Letters</i> , 2009, 50, 988-991.	0.7	39
77	Synthesis and Cytotoxicity of Bidesmosidic Betulin and Betulinic Acid Saponins. <i>Journal of Natural Products</i> , 2009, 72, 72-81.	1.5	80
78	Synthesis of two natural betulinic acid saponins containing $\beta$ -D-rhamnopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-arabinopyranose and their analogues. <i>Tetrahedron</i> , 2008, 64, 7386-7399.	1.0	45
79	Fabrication of an autonomously self-healing flexible thin-film capacitor by slot-die coating. <i>Materials Advances</i> , 0, , .	2.6	3