

Sebastien Vaudreuil

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,090
citations

331259

21
h-index

233125

45
g-index

51
all docs

51
docs citations

51
times ranked

2602
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric β -polymorph formation and properties enhancement in graphene oxide PVDF nanocomposite films. <i>Applied Surface Science</i> , 2012, 258, 7668-7677.	3.1	358
2	Mechanical, thermal, and rheological properties of graphene-based polypropylene nanocomposites prepared by melt mixing. <i>Polymer Composites</i> , 2012, 33, 733-744.	2.3	281
3	Mechanical properties of high density polyethylene reinforced with chemically modified coir fibers: Impact of chemical treatments. <i>Materials & Design</i> , 2012, 37, 379-383.	5.1	158
4	Mechanical and thermal properties of polypropylene reinforced with Alfa fiber under different chemical treatment. <i>Materials & Design</i> , 2012, 35, 318-322.	5.1	148
5	Optimization of printing parameters for improvement of mechanical and thermal performances of 3D printed poly(ether ether ketone) parts. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49087.	1.3	84
6	Influence of preparation methods of LaCoO_3 on the catalytic performances in the decomposition of N_2O . <i>Applied Catalysis B: Environmental</i> , 2009, 91, 596-604.	10.8	82
7	Mechanical properties of CF-reinforced PLA parts manufactured by fused deposition modeling. <i>Journal of Thermoplastic Composite Materials</i> , 2021, 34, 581-595.	2.6	76
8	Synthesis of macrostructured MCM-48 molecular sieves. <i>Microporous and Mesoporous Materials</i> , 2001, 44-45, 241-247.	2.2	71
9	Preparation and characterization of melt-blended graphene nanosheets-poly(vinylidene fluoride) nanocomposites with enhanced properties. <i>Journal of Applied Polymer Science</i> , 2013, 127, 4697-4707.	1.3	63
10	Dispersion of Multi-Walled Carbon Nanotubes in Biodegradable Poly(butylene succinate) Matrix. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 2191-2195.	0.9	57
11	Nanocomposite films of poly(vinylidene fluoride) filled with polyvinylpyrrolidone-coated multiwalled carbon nanotubes: Enhancement of β -polymorph formation and tensile properties. <i>Polymer Engineering and Science</i> , 2013, 53, 34-43.	1.5	52
12	An overview on the influence of process parameters through the characteristic of 3D-printed PEEK and PEI parts. <i>High Performance Polymers</i> , 2021, 33, 862-880.	0.8	49
13	Benchmark of Concentrating Solar Power Plants: Historical, Current and Future Technical and Economic Development. <i>Procedia Computer Science</i> , 2016, 83, 782-789.	1.2	48
14	Water desalination by forward osmosis: draw solutes and recovery methods – review. <i>Environmental Technology Reviews</i> , 2019, 8, 25-46.	2.1	48
15	Experimental investigation and optimization of printing parameters of 3D printed polyphenylene sulfide through response surface methodology. <i>Journal of Applied Polymer Science</i> , 2021, 138, .	1.3	41
16	Review-Recent Membranes for Vanadium Redox Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 070553.	1.3	36
17	3D Printed and Conventional Membranes – A Review. <i>Polymers</i> , 2022, 14, 1023.	2.0	36
18	Synthesis of Macrostructured Silica by Sedimentation-Aggregation. <i>Advanced Materials</i> , 2001, 13, 1310.	11.1	34

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19	An Investigation to Study the Effect of Process Parameters on the Strength and Fatigue Behavior of 3D-Printed PLA-Graphene. <i>Polymers</i> , 2021, 13, 3218.	2.0	27
20	Understanding laser-metal interaction in selective laser melting additive manufacturing through numerical modelling and simulation: a review. <i>Virtual and Physical Prototyping</i> , 2022, 17, 543-562.	5.3	26
21	Preparation and characterization of poly(ether ether ketone)/poly(ether imide) [PEEK/PEI] blends for fused filament fabrication. <i>Journal of Materials Science</i> , 2021, 56, 14348-14367.	1.7	25
22	Determination of design parameters to minimize LCOE, for a 1 MWe CSP plant in different sites. <i>Renewable Energy</i> , 2021, 169, 1013-1025.	4.3	23
23	Dispersion Characteristics and Properties of Poly(methyl methacrylate)/Multi-Walled Carbon Nanotubes Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 2349-2355.	0.9	22
24	Forward Osmosis Process: State-Of-The-Art of Membranes. <i>Separation and Purification Reviews</i> , 2021, 50, 53-73.	2.8	17
25	Preparation of macrostructured metal oxides by sedimentation aggregation. <i>Microporous and Mesoporous Materials</i> , 2001, 44-45, 249-258.	2.2	16
26	Modeling and performance analysis of a PTC for industrial phosphate flash drying. <i>Energy</i> , 2019, 166, 1134-1148.	4.5	16
27	Machining influence on the fatigue resistance of Inconel 718 fabricated by Selective Laser Melting (SLM). <i>Procedia Structural Integrity</i> , 2019, 19, 415-422.	0.3	14
28	Prototype of phosphate sludge rotary dryer coupled to a parabolic trough collector solar loop: Integration and experimental analysis. <i>Solar Energy</i> , 2021, 216, 365-376.	2.9	14
29	Water desalination by forward osmosis: Dynamic performance assessment and experimental validation using MgCl ₂ and NaCl as draw solutes. <i>Computers and Chemical Engineering</i> , 2021, 149, 107313.	2.0	14
30	Remarkable Catalytic Activity of Sodium-Modified-Hydroxyapatite in the Synthesis of α -Hydroxyphosphonates. <i>Current Organic Chemistry</i> , 2010, 14, 1517-1522.	0.9	13
31	Selection of machining condition on surface integrity of additive and conventional Inconel 718. <i>Procedia CIRP</i> , 2020, 87, 333-338.	1.0	13
32	Influence of heat treatment on the fatigue resistance of Inconel 718 fabricated by selective laser melting (SLM). <i>Materials Today: Proceedings</i> , 2021, 46, 7860-7865.	0.9	13
33	An overview on the progress and development of modified sulfonated polyether ether ketone membranes for vanadium redox flow battery applications. <i>High Performance Polymers</i> , 2022, 34, 131-148.	0.8	13
34	Optimum design and performance analysis of heat exchanger coupling a flash dryer and parabolic trough collectors. <i>Solar Energy</i> , 2020, 199, 152-163.	2.9	11
35	Printing temperature effects on the structural and mechanical performances of 3D printed Poly-(phenylene sulfide) material. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 783, 012001.	0.3	11
36	Dynamic simulation of solar-powered ORC using open-source tools: A case study combining SAM and coolprop via Python. <i>Energy</i> , 2022, 239, 121935.	4.5	11

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37	Comparative analysis between optimum configurations of finned tube heat exchanger: Application for solar drying. <i>Case Studies in Thermal Engineering</i> , 2020, 22, 100750.	2.8	9
38	Selection of substrate manufacturing techniques of polyamine-based thin-film composite membranes for forward osmosis process. <i>Polymer Engineering and Science</i> , 2021, 61, 1912-1930.	1.5	9
39	Effect of Shear on Phase-Separation in Polystyrene/Poly(vinyl methyl ether)/Organoclay Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1895-1900.	0.9	8
40	Mutual diffusion at polystyrene/poly(vinyl methyl ether) as measured by ATR-FTIR and rheometry. <i>Macromolecular Symposia</i> , 2000, 158, 155-168.	0.4	7
41	Dual linearly polarised 3D printed Phoenix cell for wide band metal only reflectarrays. <i>IET Microwaves, Antennas and Propagation</i> , 2020, 14, 1411-1416.	0.7	7
42	Identifying the optimum operating conditions for the integration of a solar loop to power an industrial flash dryer: Combining an exergy analysis with genetic algorithm optimization. <i>Renewable Energy</i> , 2022, 191, 828-841.	4.3	7
43	One-dimensional phosphate flash dryer model for design application. <i>Drying Technology</i> , 2019, 37, 139-148.	1.7	6
44	Stretchable Carbon Nanosprings Production by a Catalytic Growth Process. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4880-4885.	0.9	5
45	In-situ preparation of macroporous network of silicalite-1 nanocrystallites. <i>Journal of Porous Materials</i> , 2007, 14, 173-180.	1.3	4
46	Experimental Investigation of Thermal Conductivity and Specific Heat of the Calcium Phosphate Ore for a Drying Application. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-11.	0.6	2
47	Modeling and Design of a Solar Rotary Dryer Bench Test for Phosphate Sludge. <i>Modelling and Simulation in Engineering</i> , 2022, 2022, 1-11.	0.4	2
48	Effect of Molecular Weight on the Mutual Diffusion Process in Polystyrene/Poly(Vinyl Methyl Ether) System. <i>Journal of Polymer Engineering</i> , 2005, 25, .	0.6	1
49	Thermally-Activated Non-Reversible Response of Polystyrene/ Polyvinyl Methyl Ether (PS/PVME) Sandwich Sample Under Small-Amplitude Oscillatory Shear Flow. <i>Journal of Polymer Engineering</i> , 2005, 25, .	0.6	1
50	Short-Term Solar Irradiance Prediction Using Time Series Analysis and Neural Networks for Green Energy Park Photovoltaic Plant.. , 2016, , .		1
51	Derailing of Helical Nanotubes Through Localized Energy Application. <i>Journal of Polymer Engineering</i> , 2010, 30, 329-338.	0.6	0