

Sarah S N Leung

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,681
citations

257357

24
h-index

289141

40
g-index

50
all docs

50
docs citations

50
times ranked

1463
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of extensional stress-induced cell formation in polymeric foaming processes with the presence of nucleating agents. <i>Journal of Supercritical Fluids</i> , 2012, 63, 187-198.	1.6	174
2	Change in the critical nucleation radius and its impact on cell stability during polymeric foaming processes. <i>Chemical Engineering Science</i> , 2009, 64, 4899-4907.	1.9	109
3	Computer Simulation of Bubble-Growth Phenomena in Foaming. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 7823-7831.	1.8	108
4	Thermally conductive polymer composites and nanocomposites: Processing-structure-property relationships. <i>Composites Part B: Engineering</i> , 2018, 150, 78-92.	5.9	101
5	Numerical Investigation of Nucleating-Agent-Enhanced Heterogeneous Nucleation. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 12783-12792.	1.8	81
6	A batch foaming visualization system with extensional stress-inducing ability. <i>Chemical Engineering Science</i> , 2011, 66, 55-63.	1.9	77
7	Numerical simulation of polymeric foaming processes using modified nucleation theory. <i>Plastics, Rubber and Composites</i> , 2006, 35, 93-100.	0.9	64
8	Sodium acetate trihydrate-chitin nanowhisker nanocomposites with enhanced phase change performance for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2018, 178, 259-265.	3.0	59
9	Analytical modeling and characterization of heat transfer in thermally conductive polymer composites filled with spherical particulates. <i>Composites Part B: Engineering</i> , 2013, 45, 43-49.	5.9	49
10	Development of thermally conductive thermoplastic polyurethane composite foams via CO ₂ foaming-assisted filler networking. <i>Composites Part B: Engineering</i> , 2018, 143, 9-18.	5.9	48
11	Ideal surface geometries of nucleating agents to enhance cell nucleation in polymeric foaming processes. <i>Journal of Applied Polymer Science</i> , 2008, 108, 3997-4003.	1.3	46
12	Synergistic effects of hybrid fillers on the development of thermally conductive polyphenylene sulfide composites. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3293-3301.	1.3	45
13	Evaluation and modelling of electrically conductive polymer nanocomposites with carbon nanotube networks. <i>Composites Part B: Engineering</i> , 2015, 83, 184-193.	5.9	44
14	Recent Progress in Transparent Conductors Based on Nanomaterials: Advancements and Challenges. <i>Advanced Materials Technologies</i> , 2020, 5, 1900939.	3.0	44
15	Role of Processing Temperature in Polystyrene and Polycarbonate Foaming with Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 7107-7116.	1.8	41
16	Effects of microsized and nanosized carbon fillers on the thermal and electrical properties of polyphenylene sulfide based composites. <i>Polymer Engineering and Science</i> , 2013, 53, 2398-2406.	1.5	40
17	Effects of Nucleating Agents' Shapes and Interfacial Properties on Cell Nucleation. <i>Journal of Cellular Plastics</i> , 2010, 46, 441-460.	1.2	37
18	The effect of dispersed elastomer particle size on heterogeneous nucleation of TPO with N ₂ foaming. <i>Chemical Engineering Science</i> , 2011, 66, 3675-3686.	1.9	37

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19	Solar-Driven Interfacial Water Evaporation Using Open-Porous PDMS Embedded with Carbon Nanoparticles. <i>ACS Applied Energy Materials</i> , 2020, 3, 3378-3386.	2.5	37
20	Thermoforming of Polylactic Acid Foam Sheets: Crystallization Behaviors and Thermal Stability. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 560-567.	1.8	36
21	Preparation of microcellular poly(ethylene-co-octene) rubber foam with supercritical carbon dioxide. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1994-2004.	1.3	35
22	Radiative cooling for buildings: A review of techno-enviro-economics and life-cycle assessment methods. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 162, 112415.	8.2	31
23	Preparation and characterization of 100% bio-based polylactic acid/palmitic acid microcapsules for thermal energy storage. <i>Materials for Renewable and Sustainable Energy</i> , 2017, 6, 14.	1.5	29
24	Fabrication of open-cell thermoelectric polymer nanocomposites by template-assisted multi-walled carbon nanotubes coating. <i>Composites Part B: Engineering</i> , 2018, 145, 100-107.	5.9	27
25	A thermodynamic model for ternary mixture systemsâ€”Gas blends in a polymer melt. <i>Fluid Phase Equilibria</i> , 2008, 266, 129-142.	1.4	23
26	Processing parameters to enhance the electrical conductivity and thermoelectric power factor of polypyrrole/multi-walled carbon nanotubes nanocomposites. <i>Synthetic Metals</i> , 2019, 247, 59-66.	2.1	22
27	Fabrication of electroactive poly(vinylidene fluoride) through non-isothermal crystallization and supercritical CO ₂ processing. <i>RSC Advances</i> , 2017, 7, 48712-48722.	1.7	20
28	Impact of approximating the initial bubble pressure on cell nucleation in polymeric foaming processes. <i>Journal of Applied Polymer Science</i> , 2007, 104, 902-908.	1.3	19
29	Strategies To Estimate the Pressure Drop Threshold of Nucleation for Polystyrene Foam with Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 1921-1927.	1.8	19
30	Novel Thermally Conductive Thermoplastic/Ceramic Composite Foams. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 1014-1020.	1.7	18
31	Development of thermally conductive polymer matrix composites by foamingâ€”assisted networking of micronâ€”and submicronâ€”scale hexagonal boron nitride. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	18
32	Thermoelectric Nanocomposite Foams Using Non-Conducting Polymers with Hybrid 1D and 2D Nanofillers. <i>Materials</i> , 2018, 11, 1757.	1.3	15
33	Multi-stage crystallization mechanism of electroactive phase polyvinylidene fluoride induced by thermal and supercritical carbon dioxide processing. <i>CrystEngComm</i> , 2018, 20, 4080-4089.	1.3	15
34	Study on Liquid Crystal Polymer-Hexagonal Boron Nitride Composites for Hybrid Heat Sinks. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 8332-8339.	1.8	13
35	Enhancement of thermoelectric conversion efficiency of polymer/carbon nanotube nanocomposites through foamingâ€”induced microstructuring. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45073.	1.3	12
36	Synthesis, structures and properties of hydrophobic Alkyltrimethoxysilane-Polyvinyltrimethoxysilane hybrid aerogels with different alkyl chain lengths. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 720-734.	5.0	11

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37	Evaluation of a ZrO ₂ /ZrO ₂ -aerogel one-dimensional photonic crystal as an optical filter for thermophotovoltaic applications. <i>Thermal Science and Engineering Progress</i> , 2021, 25, 100968.	1.3	11
38	Fabrication and characterization of ceramic-filled thermoplastics composites with enhanced multifunctional properties. <i>Journal of Thermoplastic Composite Materials</i> , 2014, 27, 541-557.	2.6	10
39	Open-cell polyvinylidene fluoride foams as carriers to promote biofilm growth for biological wastewater treatment. <i>Polymer Engineering and Science</i> , 2021, 61, 2161-2171.	1.5	9
40	Modelling of effective thermal conductivity of polymer matrix composite foams with biaxially aligned filler networks. <i>Journal of Cellular Plastics</i> , 2016, 52, 89-106.	1.2	8
41	Thermally conductive polybutylene terephthalate/hexagonal boron nitride composites with bimodal filler size distribution. <i>Materials Chemistry and Physics</i> , 2018, 214, 221-228.	2.0	8
42	Strain-induced oriented crystallization of UHMWPE: Enhanced thermal conductivity through molecular chain alignment. <i>AIP Advances</i> , 2018, 8, .	0.6	7
43	Characterization of open-cellular polymeric foams using micro-computed tomography. <i>Polymer</i> , 2020, 202, 122628.	1.8	7
44	Elucidation of structure-to-property relationships of piezoresistive polymer-carbon nanotube nanocomposites. <i>Journal of Applied Physics</i> , 2015, 118, 044907.	1.1	5
45	GUILLAIN-BARRÉ SYNDROME IN ELDERLY PEOPLE. <i>Journal of the American Geriatrics Society</i> , 2008, 56, 381-382.	1.3	4
46	Eliminating common biases in modelling the electrical conductivity of carbon nanotube-polymer nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13118-13121.	1.3	3
47	Tunable microcellular and nanocellular morphologies of poly(vinylidene) fluoride foams via crystal polymorphism control. <i>Polymer Crystallization</i> , 2019, 2, e10033.	0.5	3
48	Development of novel multifunctional biobased polymer composites with tailored conductive network of micro-and-nano-fillers. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
49	Enhanced thermal conductivity of novel multifunctional polyphenylene sulfide composites embedded with heat transfer networks of hybrid fillers. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
50	Applications of multifunctional polymer-matrix composites in hybrid heat sinks. , 2012, , .		0