

Shannon K Yee

List of Publications by Year in descending order

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51
papers

2,044
citations

304743

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44
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all docs

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docs citations

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times ranked

2294
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved performance of a near-field thermophotovoltaic device by a back gapped reflector. <i>Solar Energy Materials and Solar Cells</i> , 2022, 237, 111562.	6.2	10
2	Significant Enhancement of the Electrical Conductivity of Conjugated Polymers by Post-Processing Side Chain Removal. <i>Journal of the American Chemical Society</i> , 2022, 144, 1351-1360.	13.7	42
3	Electrolyte engineering can improve electrochemical heat engine and refrigeration efficiency. <i>Trends in Chemistry</i> , 2022, 4, 172-174.	8.5	6
4	Limitations of Diels-Alder Dynamic Covalent Networks as Thermal Conductivity Switches. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1218-1224.	4.4	9
5	Continuous electrochemical refrigeration based on the Brayton cycle. <i>Nature Energy</i> , 2022, 7, 320-328.	39.5	23
6	System dynamics and metrics of an electrochemical refrigerator based on the Brayton cycle. <i>Cell Reports Physical Science</i> , 2022, 3, 100774.	5.6	5
7	Impact of Porosity and Boundary Scattering on Thermal Transport in Diameter-Modulated Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1740-1746.	8.0	0
8	Iron(III) Dopant Counterions Affect the Charge-Transport Properties of Poly(Thiophene) and Poly(Dialkoxothiophene) Derivatives. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29039-29051.	8.0	5
9	Thermoelectric and Charge Transport Properties of Solution-Processable and Chemically Doped Dioxythienothiophene Copolymers. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2316-2324.	4.4	12
10	Quantifying charge carrier localization in chemically doped semiconducting polymers. <i>Nature Materials</i> , 2021, 20, 1414-1421.	27.5	61
11	Spatial profiles of photon chemical potential in near-field thermophotovoltaic cells. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	13
12	Microstructure and heteroatom dictate the doping mechanism and thermoelectric properties of poly(alkyl-chalcogenophenes). <i>Applied Physics Letters</i> , 2021, 118, 233301.	3.3	18
13	Vapor Phase Infiltration Doping of the Semiconducting Polymer Poly(aniline) with $\text{TiCl}_4 + \text{H}_2\text{O}$: Mechanisms, Reaction Kinetics, and Electrical and Optical Properties. <i>ACS Applied Polymer Materials</i> , 2021, 3, 720-729.	4.4	16
14	Near-field photonic thermal diode based on hBN and InSb films. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	23
15	Effect of Evanescent Waves on the Dark Current of Thermophotovoltaic Cells. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2020, 24, 1-19.	2.6	14
16	Electron transport in a sequentially doped naphthalene diimide polymer. <i>Materials Advances</i> , 2020, 1, 1829-1834.	5.4	14
17	A Cost-Performance Analysis of a Sodium Heat Engine for Distributed Concentrating Solar Power. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900104.	5.3	3
18	Inducing planarity in redox-active conjugated polymers with solubilizing 3,6-dialkoxy-thieno[3,2-b]thiophenes (DOTTs) for redox and solid-state conductivity applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7463-7475.	5.5	17

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19	Single-Cycle Atomic Layer Deposition on Bulk Wood Lumber for Managing Moisture Content, Mold Growth, and Thermal Conductivity. <i>Langmuir</i> , 2020, 36, 1633-1641.	3.5	6
20	Fiber Reinforced Layered Dielectric Nanocomposite. <i>Advanced Functional Materials</i> , 2019, 29, 1900056.	14.9	64
21	Understanding the Effects of Molecular Dopant on n-Type Organic Thermoelectric Properties. <i>Advanced Energy Materials</i> , 2019, 9, 1900817.	19.5	118
22	Conductive, Solution-Processed Dioxythiophene Copolymers for Thermoelectric and Transparent Electrode Applications. <i>Advanced Energy Materials</i> , 2019, 9, 1900395.	19.5	43
23	Thermoelectric Performance of n-Type Poly(Ni-tetrathiooxalate) as a Counterpart to Poly(Ni-ethenetetrathiolate): NiTTO versus NiETT. <i>Advanced Electronic Materials</i> , 2019, 5, 1900066.	5.1	14
24	A Textile-Integrated Polymer Thermoelectric Generator for Body Heat Harvesting. <i>Advanced Materials Technologies</i> , 2019, 4, 1800708.	5.8	92
25	Progress in Nickel-Coordinated Polymers as Intrinsically Conducting n-Type Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2019, 5, 1800884.	5.1	23
26	Techno-Economics of Cogeneration Approaches for Combined Power and Desalination From Concentrated Solar Power. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2019, 141, .	1.8	18
27	Aqueous Zinc Compounds as Residual Antimicrobial Agents for Textiles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7709-7716.	8.0	31
28	Techno-Economic Analysis of Dual-Stage Sodium Thermal Electrochemical Converter (Na-TEC) Power Block for Distributed CSP. , 2018, , .		1
29	Brazings for Metal-Ceramic Joining in Sodium Thermal Electrochemical Converter (Na-TEC) Devices. , 2018, , .		0
30	A suspended 3-omega technique to measure the anisotropic thermal conductivity of semiconducting polymers. <i>Review of Scientific Instruments</i> , 2018, 89, 114905.	1.3	28
31	Thermal modeling and efficiency of a dual-stage sodium heat engine. <i>Applied Thermal Engineering</i> , 2018, 145, 603-609.	6.0	8
32	Effect of Heteroatom and Doping on the Thermoelectric Properties of Poly(3-alkylchalcogenophenes). <i>Advanced Energy Materials</i> , 2018, 8, 1802419.	19.5	99
33	Systematic Power Factor Enhancement in n-Type NiETT/PVDF Composite Films. <i>Advanced Functional Materials</i> , 2018, 28, 1801620.	14.9	34
34	Simultaneous Enhancement in Electrical Conductivity and Thermopower of n-Type NiETT/PVDF Composite Films by Annealing. <i>Advanced Functional Materials</i> , 2018, 28, 1803275.	14.9	39
35	Simultaneous measurement of in-plane and through-plane thermal conductivity using beam-offset frequency domain thermoreflectance. <i>Review of Scientific Instruments</i> , 2017, 88, 014902.	1.3	43
36	An empirical model to predict temperature-dependent thermal conductivity of amorphous polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1160-1170.	2.1	16

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37	Interconnect patterns for printed organic thermoelectric devices with large fill factors. Journal of Applied Physics, 2017, 122, .	2.5	28
38	A dual-stage sodium thermal electrochemical converter (Na-TEC). Journal of Power Sources, 2017, 371, 217-224.	7.8	22
39	Radial thermoelectric generator fabricated from n- and p-type conducting polymers. Journal of Applied Polymer Science, 2017, 134, .	2.6	52
40	Structure, properties and applications of thermoelectric polymers. Journal of Applied Polymer Science, 2017, 134, .	2.6	16
41	Metallo-organic n-type thermoelectrics: Emphasizing advances in nickel-ethenetetrathiolates. Journal of Applied Polymer Science, 2017, 134, .	2.6	26
42	Design of a polymer thermoelectric generator using radial architecture. Journal of Applied Physics, 2016, 119, .	2.5	47
43	Evaluation of a Silicon 90Sr Betavoltaic Power Source. Scientific Reports, 2016, 6, 38182.	3.3	27
44	Metal-coated glass microfiber for concentration detection in gas mixtures using the 3-Omega excitation method. Sensors and Actuators A: Physical, 2016, 250, 243-249.	4.1	5
45	Electrical Conductivity, Thermal Behavior, and Seebeck Coefficient of Conductive Films for Printed Thermoelectric Energy Harvesting Systems. Journal of Electronic Materials, 2016, 45, 5561-5569.	2.2	14
46	Cost Scaling of a Real-World Exhaust Waste Heat Recovery Thermoelectric Generator: A Deeper Dive. Journal of Electronic Materials, 2016, 45, 1751-1761.	2.2	38
47	A microbridge heater for low power gas sensing based on the 3-Omega technique. Sensors and Actuators A: Physical, 2015, 233, 231-238.	4.1	22
48	Material and manufacturing cost considerations for thermoelectrics. Renewable and Sustainable Energy Reviews, 2014, 32, 313-327.	16.4	386
49	Reply to the "comment on "€\$ per W metrics for thermoelectric power generation: beyond ZT"™ by G. Nunes, Jr, Energy Environ. Sci., 2014, 7, DOI: 10.1039/C3EE43700K. Energy and Environmental Science, 2014, 7, 3441-3442.	30.8	4
50	\$ per W metrics for thermoelectric power generation: beyond ZT. Energy and Environmental Science, 2013, 6, 2561-2571.	30.8	201
51	Thermoelectric power factor optimization in PEDOT:PSS tellurium nanowire hybrid composites. Physical Chemistry Chemical Physics, 2013, 15, 4024.	2.8	188