

Sarah J McCormack

List of Publications by Year in descending order

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58
papers

4,235
citations

201385

27
h-index

174990

52
g-index

59
all docs

59
docs citations

59
times ranked

3927
citing authors

#	ARTICLE	IF	CITATIONS
1	Outdoor Characterization of a Plasmonic Luminescent Solar Concentrator. <i>Plasmonics</i> , 2022, 17, 725-734.	1.8	1
2	A simple and effective grid-supporting low voltage ride-through scheme for single-stage photovoltaic power plants. <i>Solar Energy</i> , 2022, 232, 248-262.	2.9	10
3	Small and large scale plasmonically enhanced luminescent solar concentrator for photovoltaic applications: modelling, optimisation and sensitivity analysis. <i>Optics Express</i> , 2021, 29, 15031.	1.7	8
4	Combined Experimental and Modeling Analysis for the Development of Optical Materials Suitable to Enhance the Implementation of Plasmonic-Enhanced Luminescent Down-Shifting Solutions on Existing Silicon-Based Photovoltaic Devices. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2512-2525.	2.0	6
5	Optimized 3D Finite-Difference-Time-Domain Algorithm to Model the Plasmonic Properties of Metal Nanoparticles with Near-Unity Accuracy. <i>Chemosensors</i> , 2021, 9, 114.	1.8	2
6	Numerical Simulation of a Novel Dual Layered Phase Change Material Brick Wall for Human Comfort in Hot and Cold Climatic Conditions. <i>Energies</i> , 2021, 14, 4032.	1.6	14
7	Nanofluid Development Using Silver Nanoparticles and Organic-Luminescent Molecules for Solar-Thermal and Hybrid Photovoltaic-Thermal Applications. <i>Nanomaterials</i> , 2020, 10, 1201.	1.9	19
8	Study of Corrosion Effect of Micronal® Phase Change Materials (PCM) with Different Metal Samples. <i>Innovative Renewable Energy</i> , 2020, , 709-717.	0.2	2
9	Efficient energy storage technologies for photovoltaic systems. <i>Solar Energy</i> , 2019, 192, 144-168.	2.9	103
10	Unified Methodology for Fabrication and Quantification of Gold Nanorods, Gold Core Silver Shell Nanocuboids, and Their Polymer Nanocomposites. <i>Langmuir</i> , 2019, 35, 13011-13019.	1.6	10
11	An overview of various configurations of Luminescent Solar Concentrators for photovoltaic applications. <i>Optical Materials</i> , 2019, 91, 212-227.	1.7	102
12	Performance of a campus photovoltaic electric vehicle charging station in a temperate climate. <i>Solar Energy</i> , 2019, 177, 762-771.	2.9	41
13	Adapting Stand-Alone Renewable Energy Technologies for the Circular Economy through Eco-Design and Recycling. <i>Journal of Industrial Ecology</i> , 2019, 23, 133-140.	2.8	49
14	Monte Carlo Ray Tracing Modelling of Multi-Crystalline Silicon Photovoltaic Device Enhanced by Luminescent Material. , 2018, , .		2
15	Fluorescent organic dyes in a silicone encapsulant composite for Luminescent Solar Concentrators. , 2018, , .		2
16	Recommending a thermal energy benchmark based on CIBSE TM46 for typical college buildings and creating monthly energy models. <i>Energy and Buildings</i> , 2018, 176, 296-309.	3.1	11
17	Parametric investigation of concrete solar collectors for façade integration. <i>Solar Energy</i> , 2017, 153, 396-413.	2.9	26
18	Investigation of the corrosive properties of phase change materials in contact with metals and plastic. <i>Renewable Energy</i> , 2017, 108, 555-568.	4.3	50

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19	Plasmonic luminescent down shifting layers for the enhancement of CdTe mini-modules performance. Solar Energy, 2017, 141, 242-248.	2.9	17
20	Concrete solar collectors for facade integration: An experimental and numerical investigation. Applied Energy, 2017, 206, 1040-1061.	5.1	26
21	Development and testing of low spatial frequency holographic concentrator elements for collection of solar energy. Solar Energy, 2017, 155, 103-109.	2.9	27
22	Heat retention of a photovoltaic/thermal collector with PCM. Solar Energy, 2016, 133, 533-548.	2.9	171
23	Parametric Analysis of Concrete Solar Collectors. Energy Procedia, 2016, 91, 954-962.	1.8	5
24	Assessing the Thermal Performance of Phase Change Material in a Photovoltaic/Thermal System. Energy Procedia, 2016, 91, 113-121.	1.8	44
25	Review and analysis of solar thermal facades. Solar Energy, 2016, 135, 408-422.	2.9	45
26	Increased short-circuit current density and external quantum efficiency of silicon and dye sensitised solar cells through plasmonic luminescent down-shifting layers. Solar Energy, 2016, 126, 146-155.	2.9	53
27	Design and experiment of a new solar air heating collector. Energy, 2016, 100, 374-383.	4.5	17
28	Thermal energy storage in building integrated thermal systems: A review. Part 1. active storage systems. Renewable Energy, 2016, 88, 526-547.	4.3	230
29	Thermal energy storage in building integrated thermal systems: A review. Part 2. Integration as passive system. Renewable Energy, 2016, 85, 1334-1356.	4.3	208
30	The Battery Energy Storage System (bess) Design Option for On-Campus Photovoltaic Charging Station (PV-CS)., 2016, ,.		0
31	A Case for Façade Located Solar Thermal Collectors. Energy Procedia, 2015, 70, 103-110.	1.8	4
32	A framework for establishing the technical efficiency of Electricity Distribution Counties (EDCs) using Data Envelopment Analysis. Energy Conversion and Management, 2015, 94, 112-123.	4.4	31
33	Quantum dot solar concentrator: Optical transportation and doping concentration optimization. Solar Energy, 2015, 115, 552-561.	2.9	25
34	Increased photovoltaic performance through temperature regulation by phase change materials: Materials comparison in different climates. Solar Energy, 2015, 115, 264-276.	2.9	172
35	Phase change materials for photovoltaic thermal management. Renewable and Sustainable Energy Reviews, 2015, 47, 762-782.	8.2	230
36	Two step continuous method to synthesize colloidal spheroid gold nanorods. Journal of Colloid and Interface Science, 2015, 459, 218-223.	5.0	14

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37	A Simplified Procedure for Sizing Solar Thermal Systems; Based on National Assessment Methods in the UK and Ireland. <i>Energy Procedia</i> , 2014, 62, 647-655.	1.8	4
38	Energy and Cost Saving of a Photovoltaic-Phase Change Materials (PV-PCM) System through Temperature Regulation and Performance Enhancement of Photovoltaics. <i>Energies</i> , 2014, 7, 1318-1331.	1.6	162
39	Characterization of phase change materials for thermal control of photovoltaics using Differential Scanning Calorimetry and Temperature History Method. <i>Energy Conversion and Management</i> , 2014, 81, 322-329.	4.4	134
40	The Shadows Cast by Inadequate Energy Governance: Why More Sun Does Not Necessarily Mean More Photovoltaic Electricity. <i>Lecture Notes in Energy</i> , 2013, , 277-293.	0.2	1
41	Comparative field performance study of flat plate and heat pipe evacuated tube collectors (ETCs) for domestic water heating systems in a temperate climate. <i>Energy</i> , 2011, 36, 3370-3378.	4.5	179
42	Measured performance of a 1.72kW rooftop grid connected photovoltaic system in Ireland. <i>Energy Conversion and Management</i> , 2011, 52, 816-825.	4.4	354
43	Validated TRNSYS model for forced circulation solar water heating systems with flat plate and heat pipe evacuated tube collectors. <i>Applied Thermal Engineering</i> , 2011, 31, 1536-1542.	3.0	125
44	Microencapsulated phase change slurries for thermal energy storage in a residential solar energy system. <i>Renewable Energy</i> , 2011, 36, 2932-2939.	4.3	72
45	Enhancing the performance of building integrated photovoltaics. <i>Solar Energy</i> , 2011, 85, 1629-1664.	2.9	274
46	Transparent patch antenna on a-Si thin-film glass solar module. <i>Electronics Letters</i> , 2011, 47, 85.	0.5	84
47	Projected costs of a grid-connected domestic PV system under different scenarios in Ireland, using measured data from a trial installation. <i>Energy Policy</i> , 2010, 38, 3731-3743.	4.2	26
48	Influence of solar heating on the performance of integrated solar cell microstrip patch antennas. <i>Solar Energy</i> , 2010, 84, 1619-1627.	2.9	6
49	Evaluation of phase change materials for thermal regulation enhancement of building integrated photovoltaics. <i>Solar Energy</i> , 2010, 84, 1601-1612.	2.9	368
50	Validated real-time energy models for small-scale grid-connected PV-systems. <i>Energy</i> , 2010, 35, 4086-4091.	4.5	57
51	Emitter-wrap-through photovoltaic dipole antenna with solar concentrator. <i>Electronics Letters</i> , 2009, 45, 241.	0.5	10
52	Improving the optical efficiency and concentration of a single-plate quantum dot solar concentrator using near infra-red emitting quantum dots. <i>Solar Energy</i> , 2009, 83, 978-981.	2.9	51
53	Integration of Microstrip Patch Antenna With Polycrystalline Silicon Solar Cell. <i>IEEE Transactions on Antennas and Propagation</i> , 2009, 57, 3969-3972.	3.1	83
54	Luminescent Solar Concentrators - A review of recent results. <i>Optics Express</i> , 2008, 16, 21773.	1.7	442

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55	A microstrip printed dipole solar antenna using polycrystalline silicon solar cells. , 2008, , .		11
56	A metal plate solar antenna for UMTS pico-cell base station. , 2008, , .		4
57	On surface currents in a polycrystalline solar cell acting as ground plane for microstrip patch antennas. , 2008, , .		4
58	Quantum dot solar concentrators: an investigation of various geometries. Proceedings of SPIE, 2007, , .	0.8	7