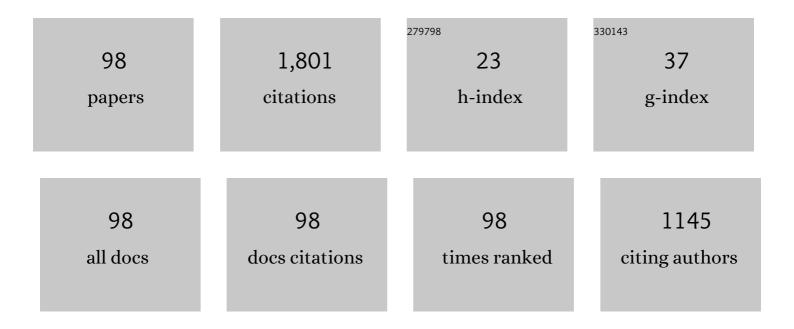
Joseph Appelbaum

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Starting and Steady-State Characteristics of DC Motors Powered by Solar Cell Generators. IEEE Transactions on Energy Conversion, 1986, EC-1, 17-25.	5.2	141
2	Parameters extraction of solar cells – A comparative examination of three methods. Solar Energy Materials and Solar Cells, 2014, 122, 164-173.	6.2	117
3	Shadow effect of adjacent solar collectors in large scale systems. Solar Energy, 1979, 23, 497-507.	6.1	104
4	Bifacial photovoltaic panels field. Renewable Energy, 2016, 85, 338-343.	8.9	79
5	The effect of shading on the design of a field of solar collectors. Solar Cells, 1987, 20, 201-228.	0.6	73
6	Solar radiation on Mars. Solar Energy, 1990, 45, 353-363.	6.1	61
7	The operation of permanent magnet DC motors powered by a common source of solar cells. IEEE Transactions on Energy Conversion, 1989, 4, 635-642.	5.2	49
8	Dependence of multi-junction solar cells parameters on concentration and temperature. Solar Energy Materials and Solar Cells, 2014, 130, 234-240.	6.2	49
9	Starting characteristics of direct current motors powered by solar cells. IEEE Transactions on Energy Conversion, 1993, 8, 47-53.	5.2	46
10	Performance analysis of d.cmotor-photovoltaic converter system—l separately excited motor. Solar Energy, 1979, 22, 439-445.	6.1	45
11	Optimization of Solar Photovoltaic Fields. Journal of Solar Energy Engineering, Transactions of the ASME, 2009, 131, .	1.8	41
12	The role of view factors in solar photovoltaic fields. Renewable and Sustainable Energy Reviews, 2018, 81, 161-171.	16.4	41
13	View factors of photovoltaic collector systems. Solar Energy, 2012, 86, 1701-1708.	6.1	40
14	Optimal Solar Field Design of Stationary Collectors. Journal of Solar Energy Engineering, Transactions of the ASME, 2004, 126, 898-905.	1.8	39
15	Solar radiation on Mars—Update 1991. Solar Energy, 1993, 50, 35-51.	6.1	38
16	The operation of loads powered by separate sources or by a common source of solar cells. IEEE Transactions on Energy Conversion, 1989, 4, 351-357.	5.2	35
17	Amorphous diamond-like carbon films—a hard anti-reflecting coating for silicon solar cells. Thin Solid Films, 1995, 256, 1-3.	1.8	35
18	Determination of solar cell equation parameters from empirical data. Energy Conversion, 1977, 17, 1-6.	0.3	30

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19	Modelling a permanent magnet DC motor/centrifugal pump assembly in a photovoltaic energy system. Solar Energy, 1997, 59, 37-42.	6.1	29
20	Design optimization of photovoltaic solar fields-insight and methodology. Renewable and Sustainable Energy Reviews, 2017, 76, 882-893.	16.4	27
21	Parameter estimation and screening of solar cells. Progress in Photovoltaics: Research and Applications, 1993, 1, 93-106.	8.1	25
22	Performance analysis of d.cmotor-photovoltaic converter system—II series and shunt excited motors. Solar Energy, 1981, 27, 421-431.	6.1	24
23	Shadow analysis of wind turbines for dual use of land for combined wind and solar photovoltaic power generation. Renewable and Sustainable Energy Reviews, 2016, 55, 713-718.	16.4	23
24	Solar radiation on Mars - Stationary photovoltaic array. Journal of Propulsion and Power, 1995, 11, 554-561.	2.2	22
25	The influence of diamond-like carbon films on the properties of silicon solar cells. Thin Solid Films, 1997, 303, 273-276.	1.8	22
26	A refrigeration facility for milk cooling powered by photovoltaic solar energy. Progress in Photovoltaics: Research and Applications, 2003, 11, 467-479.	8.1	22
27	Current mismatch in PV panels resulting from different locations of cells in the panel. Solar Energy, 2016, 126, 264-275.	6.1	20
28	Performance characteristics of a permanent magnet D.C. motor powered by solar cells. Solar Cells, 1986, 17, 343-362.	0.6	19
29	Advantage of boost vs. buck topology for maximum power point tracker in photovoltaic systems. , 0, , .		19
30	View factors of photovoltaic collectors on Roof Tops. Journal of Renewable and Sustainable Energy, 2016, 8, .	2.0	19
31	Optimization of Economic Solar Field Design of Stationary Thermal Collectors. Journal of Solar Energy Engineering, Transactions of the ASME, 2007, 129, 363-370.	1.8	18
32	Enhancing the power output of PV modules by considering the view factor to sky effect and rearranging the interconnections of solar cells. Progress in Photovoltaics: Research and Applications, 2017, 25, 810-818.	8.1	18
33	Solar Cell Temperature on Mars. Journal of Propulsion and Power, 1998, 14, 119-125.	2.2	17
34	Estimation of multiâ€junction solar cell parameters. Progress in Photovoltaics: Research and Applications, 2013, 21, 713-723.	8.1	17
35	Performance analysis of concentrator photovoltaic dense-arrays under non-uniform irradiance. Solar Energy Materials and Solar Cells, 2013, 117, 110-119.	6.2	17
36	Evaluation of solar radiation properties by statistical tools and wavelet analysis. Renewable Energy, 2013, 59, 30-38.	8.9	17

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37	Optimized Parameter Analysis of an Induction Machine. IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee, 1965, 84, 1017-1024.	0.4	16
38	Dependence of PV Module Temperature on Incident Time-Dependent Solar Spectrum. Applied Sciences (Switzerland), 2020, 10, 914.	2.5	16
39	Starting Characteristics of Permanent Magnet and Series Excited Motors Powered by Solar Cells: Variation with Solar Radiation and Temperature. Electric Power Components and Systems, 1992, 20, 173-181.	0.1	15
40	Performance analysis of a solar-electrical system with a load and storage batteries. Energy Conversion, 1977, 16, 105-110.	0.3	14
41	Battery State of Charge Determination in Photovoltaic Systems. Journal of the Electrochemical Society, 1982, 129, 1928-1933.	2.9	14
42	Losses in a three-dimensional compound parabolic concentrator as a second stage of a solar concentrator. Solar Energy, 1993, 51, 45-51.	6.1	13
43	Minimizing the current mismatch resulting from different locations of solar cells within a PV module by proposing new interconnections. Solar Energy, 2016, 135, 840-847.	6.1	13
44	View Factors to Grounds of Photovoltaic Collectors. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, .	1.8	13
45	Shadow variation on photovoltaic collectors in a solar field. , 0, , .		12
46	A problem of economic optimization of electric equipment design. IEEE Transactions on Communication and Electronics, 1964, 83, 773-776.	0.2	11
47	Low-intensity low-temperature (LILT) measurements and coefficients on new photovoltaic structures. Progress in Photovoltaics: Research and Applications, 1996, 4, 117-127.	8.1	11
48	Corrections to anisotropic diffuse radiation model. Solar Energy, 2019, 193, 523-528.	6.1	11
49	Discussion of "Theoretical and Experimental Analyses of Photovoltaic Systems With Voltage and Current-Based Maximum Power Point Tracking― IEEE Transactions on Energy Conversion, 2004, 19, 651-652.	5.2	10
50	Transient Analysis of a DC Series Motor (Linear Versus Nonlinear Models). IEEE Transactions on Industrial Electronics and Control Instrumentation, 1981, IECI-28, 120-125.	0.2	9
51	A solar radiation distribution sensor. Solar Energy, 1987, 39, 1-10.	6.1	9
52	The viewâ€factor effect shaping of <scp>lâ€V</scp> characteristics. Progress in Photovoltaics: Research and Applications, 2018, 26, 273-280.	8.1	9
53	Solution of Practical Optimization Problems. IEEE Transactions on Systems Science and Cybernetics, 1970, 6, 49-52.	0.5	8
54	Photovoltaic arrays for Martian surface power. Acta Astronautica, 1993, 30, 127-142.	3.2	8

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55	Characterisation of an Electric Motor Directly coupled to a Photovoltaic Solar Array in a Refrigeration Facility for Milk Cooling. Biosystems Engineering, 2006, 95, 461-471.	4.3	8
56	Stepped Voltage Dc/Ac InverterPart I: Analysis. IEEE Transactions on Industrial Electronics and Control Instrumentation, 1977, IECI-24, 192-199.	0.2	7
57	The influence of parameter dispersion of electrical cells on the array power output. IEEE Transactions on Electron Devices, 1977, 24, 1032-1040.	3.0	7
58	Comparative study by simulation of photovoltaic pumping systems with stationary and polar tracking arrays. Progress in Photovoltaics: Research and Applications, 2003, 11, 453-465.	8.1	7
59	The effect of sky diffuse radiation on photovoltaic fields. Journal of Renewable and Sustainable Energy, 2018, 10, 033505.	2.0	7
60	Curved photovoltaic collectors-convex surface. Solar Energy, 2020, 199, 832-836.	6.1	7
61	Properties of GaAs solar cells coated with diamondlike carbon films. Thin Solid Films, 1998, 320, 159-162.	1.8	6
62	A Method for the Optimization of a Production Line of Electromagnetic Devices. IEEE Transactions on Systems, Man, and Cybernetics, 1977, 7, 443-452.	0.9	5
63	OPERATION OF DC MOTORS POWERED BY PHOTOVOLTAIC CONVERTERS. Electric Power Components and Systems, 1979, 3, 209-220.	0.1	5
64	Parameters of solar cell arrays. IEEE Transactions on Electron Devices, 1983, 30, 616-618.	3.0	5
65	Quality factors of solar cell arrays. Solar Cells, 1983, 9, 295-309.	0.6	5
66	Concentrating and splitting of solar radiation for laser pumping and photovoltaic conversion. Journal of Propulsion and Power, 1996, 12, 405-409.	2.2	5
67	Solar radiation on Mars - Tracking photovoltaic array. Journal of Propulsion and Power, 1996, 12, 410-419.	2.2	5
68	The packing of circles on a hemisphere. Measurement Science and Technology, 1999, 10, 1015-1019.	2.6	5
69	Optimal design of solar fields. , 0, , .		5
70	SOME ASPECTS OF OPTIMIZATION TECHNIQUES FOR ELECTROMAGNETIC DEVICES. Electric Power Components and Systems, 1978, 3, 1-10.	0.1	4
71	Internal impedance of nickelî—,cadmium batteries with applications to space. Journal of Power Sources, 1992, 38, 295-301.	7.8	4
72	A method for screening solar cells. Solid-State Electronics, 1995, 38, 246-248.	1.4	4

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73	Verification of Mars solar radiation model based on Mars Pathfinder data. , 0, , .		4
74	Photovoltaic Systems for Electrolysis Using a Maximum Power Point Tracker. , 2006, , .		4
75	Shading by Overhang PV Collectors. Applied Sciences (Switzerland), 2019, 9, 4280.	2.5	4
76	Shading on Photovoltaic Collectors on Rooftops. Applied Sciences (Switzerland), 2020, 10, 2977.	2.5	4
77	Shading and masking affect the performance of photovoltaic systems—a review. AIMS Energy, 2019, 7, 77-87.	1.9	4
78	The effect of electron damage on silicon solar cells coated with diamond-like carbon films. Progress in Photovoltaics: Research and Applications, 2000, 8, 571-578.	8.1	3
79	The Effect of Collector Shading and Masking on Optimized PV Field Designs. Energies, 2019, 12, 3471.	3.1	3
80	Distribution of Solar Radiation on Greenhouse Convex Rooftop. Sustainability, 2020, 12, 7197.	3.2	3
81	Shading and Masking of PV Collectors on Horizontal and Sloped Planes Facing South and North—A Comparative Study. Energies, 2021, 14, 3850.	3.1	3
82	Experimental Verification of the Sky View Factor Model in Multiple-Row Photovoltaic Fields. Journal of Solar Energy Engineering, Transactions of the ASME, 2020, 142, .	1.8	3
83	Stepped Voltage Dc/Ac Inverter Part II: Optimal Construction Of Waveforms By Means Of Discrete Levels. IEEE Transactions on Industrial Electronics and Control Instrumentation, 1977, IECI-24, 273-276.	0.2	2
84	Photovoltaic conversion in a common solar concentrating and spectrally splitting system. , 0, , .		2
85	Multi-sensor for measuring erythemally weighted irradiance in various directions simultaneously. Theoretical and Applied Climatology, 2016, 126, 339-350.	2.8	2
86	The effect of sky view factors on optimized photovoltaic fields. Journal of Renewable and Sustainable Energy, 2018, 10, 013501.	2.0	2
87	Spectrum analysis and characteristics of a 2-level pulse-width modulation inverterâ€. International Journal of Electronics, 1978, 45, 225-240.	1.4	1
88	Starting and Steady-State Characteristics of DC Motors Powered by Solar Cell Generators. IEEE Power Engineering Review, 1986, PER-6, 28-29.	0.1	1
89	Screening solar cells for improved array performance. Progress in Photovoltaics: Research and Applications, 1999, 7, 113-128.	8.1	1
90	Salt water chlorination by photovoltaic power – performance matching and optimum sizing. Australian Journal of Electrical and Electronics Engineering, 2008, 4, 277-284.	1.2	1

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91	Solar Radiation on Horizontal Tubular Microalgae Photobioreactor: Direct Beam Radiation. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, .	1.8	1
92	The effect of interconnecting solar cells in the PV module on the power output. , 2016, , .		1
93	Solar Radiation on a Parabolic Concave Surface. Energies, 2021, 14, 2245.	3.1	1
94	The Operation of Loads Powered by Separate Sources or by a Common Source of Solar Cells. IEEE Power Engineering Review, 1989, 9, 37-37.	0.1	0
95	Amorphous diamondlike carbon films-a hard optical material for silicon solar cells. , 0, , .		0
96	Discussion of "Measurement of /spl lambda/-i characteristics of asymmetric three-phase transformers and their applications". IEEE Transactions on Power Delivery, 2003, 18, 641.	4.3	0
97	Horizontal Tubular Microalgae Photobioreactor Plant View Factors and Diffuse Radiation. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, .	1.8	0
98	Enhancing the power production of PV modules by rearranging the solar-cells interconnections. , 2016, , .		0