

Jeffrey M Gordon

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,797
citations

236612

25
h-index

264894

42
g-index

57
all docs

57
docs citations

57
times ranked

1960
citing authors

#	ARTICLE	IF	CITATIONS
1	Uninterrupted photovoltaic power for lunar colonization without the need for storage. Renewable Energy, 2022, 187, 987-994.	4.3	3
2	Providing large-scale electricity demand with photovoltaics and molten-salt storage. Renewable and Sustainable Energy Reviews, 2021, 135, 110261.	8.2	25
3	Ultra-compact high flux tailored edge-ray space microconcentrators. , 2021, , .		0
4	Temperature and intensity dependence of the open-circuit voltage of InGaN/GaN multi-quantum well solar cells. Solar Energy Materials and Solar Cells, 2021, 230, 111253.	3.0	10
5	InGaN/GaN multi-quantum well solar cells under high solar concentration and elevated temperatures for hybrid solar thermal-photovoltaic power plants. Progress in Photovoltaics: Research and Applications, 2020, 28, 1167-1174.	4.4	20
6	Enhanced Algal Photosynthetic Photon Efficiency by Pulsed Light. IScience, 2020, 23, 101115.	1.9	17
7	Up-Conversion Threshold under Concentrated Sunlight. , 2019, , .		0
8	Expansive scope of aplanatic concentrators and collimators. Applied Optics, 2019, 58, F14.	0.9	2
9	Design and demonstration of ultra-compact microcell concentrating photovoltaics for space. Optics Express, 2019, 27, A1467.	1.7	8
10	Concentrated Sunlight for Materials Synthesis and Diagnostics. Advanced Materials, 2018, 30, e1800444.	11.1	12
11	Assessing high-temperature photovoltaic performance for solar hybrid power plants. Solar Energy Materials and Solar Cells, 2018, 182, 61-67.	3.0	26
12	The merits of plasmonic desalination. Nature Photonics, 2017, 11, 70-70.	15.6	11
13	Synthesis and Characterization of Pb@GaS Core-Shell Fullerene-Like Nanoparticles and Nanotubes. Nano, 2017, 12, 1750030.	0.5	4
14	A thermodynamic perspective to study energy performance of vacuum-based membrane dehumidification. Energy, 2017, 132, 106-115.	4.5	51
15	Comment on "Water harvesting from air with metal-organic frameworks powered by natural sunlight". Science, 2017, 358, .	6.0	14
16	Aplanatic Fresnel optics. Optics Express, 2017, 25, A274.	1.7	7
17	Identifying Fundamental Limitations in Halide Perovskite Solar Cells. Advanced Materials, 2016, 28, 2439-2445.	11.1	129
18	Aplanatic lenses revisited: the full landscape. Applied Optics, 2016, 55, 2537.	2.1	15

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19	Thermodynamic perspective for the specific energy consumption of seawater desalination. <i>Desalination</i> , 2016, 386, 13-18.	4.0	40
20	New types of refractive-reflective aplanats for maximal flux concentration and collimation. <i>Optics Express</i> , 2015, 23, A1541.	1.7	11
21	Basic categories of dual-contour reflective-refractive aplanats. <i>Optics Letters</i> , 2015, 40, 4907.	1.7	7
22	Solar Synthesis of PbS ₂ Superstructure Nanoparticles. <i>ACS Nano</i> , 2015, 9, 7831-7839.	7.3	18
23	Two-step Synthesis of MoS ₂ Nanotubes using Shock Waves with Lead as Growth Promoter. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 1152-1158.	0.6	14
24	Temperature dynamics of multijunction concentrator solar cells up to ultra-high irradiance. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 202-208.	4.4	57
25	Basic aspects of the temperature coefficients of concentrator solar cell performance parameters. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 1087-1094.	4.4	40
26	High-yield synthesis of silicon carbide nanowires by solar and lamp ablation. <i>Nanotechnology</i> , 2013, 24, 335603.	1.3	17
27	Photovoltaic performance enhancement by external recycling of photon emission. <i>Energy and Environmental Science</i> , 2013, 6, 1499.	15.6	53
28	Temperature coefficients of concentrator solar cells up to ultra-high irradiance. , 2012, , .		2
29	Irradiance-dependent current-limiting behavior of multijunction solar cells. , 2012, , .		0
30	New High-Temperature Pb-Catalyzed Synthesis of Inorganic Nanotubes. <i>Journal of the American Chemical Society</i> , 2012, 134, 16379-16386.	6.6	33
31	Multiple-bandgap vertical-junction architectures for ultra-efficient concentrator solar cells. <i>Energy and Environmental Science</i> , 2012, 5, 8523.	15.6	24
32	Nested aplanats for practical maximum-performance solar concentration. <i>Optics Letters</i> , 2011, 36, 2836.	1.7	8
33	MoS ₂ Hybrid Nanostructures: From Octahedral to Quasi-spherical Shells within Individual Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1810-1814.	7.2	62
34	Current-limiting behavior in multijunction solar cells. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	27
35	Synthesis of Inorganic Fullerene-like Nanostructures by Concentrated Solar and Artificial Light. <i>Israel Journal of Chemistry</i> , 2010, 50, 417-425.	1.0	20
36	Aplanatic optics for solar concentration. <i>Optics Express</i> , 2010, 18, A41.	1.7	42

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37	Aplanatic optics for solar concentration. Optics Express, 2010, 18, A41-52.	1.7	0
38	Reverse osmosis desalination: Modeling and experiment. Applied Physics Letters, 2009, 94, .	1.5	7
39	Synthesis of WS ₂ and MoS ₂ fullerene-like nanoparticles from solid precursors. Nano Research, 2009, 2, 416-424.	5.8	62
40	Panorama of dual-mirror aplanats for maximum concentration. Applied Optics, 2009, 48, 4926.	2.1	29
41	Unfolded aplanats for high-concentration photovoltaics. Optics Letters, 2008, 33, 1114.	1.7	39
42	Singular MoS ₂ , SiO ₂ and Si nanostructures synthesis by solar ablation. Journal of Materials Chemistry, 2008, 18, 458-462.	6.7	35
43	High-flux characterization of ultrasmall multijunction concentrator solar cells. Applied Physics Letters, 2007, 91, .	1.5	39
44	Ultra-high bioproductivity from algae. Applied Microbiology and Biotechnology, 2007, 76, 969-975.	1.7	156
45	Effects of ultra-high flux and intensity distribution in multi-junction solar cells. Progress in Photovoltaics: Research and Applications, 2006, 14, 297-303.	4.4	45
46	Photothermally induced delayed tissue death. Journal of Biomedical Optics, 2006, 11, 030504.	1.4	4
47	Photovoltaic characterization of concentrator solar cells by localized irradiation. Journal of Applied Physics, 2006, 100, 044514.	1.1	66
48	Modeling and Experimental Evaluation of Passive Heat Sinks for Miniature High-Flux Photovoltaic Concentrators. Journal of Solar Energy Engineering, Transactions of the ASME, 2005, 127, 138-145.	1.1	26
49	Optical performance at the thermodynamic limit with tailored imaging designs. Applied Optics, 2005, 44, 2327.	2.1	53
50	Planar concentrators near the Étendue limit. Optics Letters, 2005, 30, 2617.	1.7	73
51	Toward ultra-high-flux photovoltaic concentration. Applied Physics Letters, 2004, 84, 3642-3644.	1.5	87
52	Surgery by sunlight on live animals. Nature, 2003, 424, 510-510.	18.7	10
53	Laser surgical effects with concentrated solar radiation. Applied Physics Letters, 2002, 81, 2653-2655.	1.5	25
54	Quantum refrigerators in quest of the absolute zero. Journal of Applied Physics, 2000, 87, 8093-8097.	1.1	85

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55	The vortex tube as a classic thermodynamic refrigeration cycle. Journal of Applied Physics, 2000, 88, 3645-3653.	1.1	113