

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	Ultrahigh bioproductivity from algae. <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 969-975.	1.7	156
2	Identifying Fundamental Limitations in Halide Perovskite Solar Cells. <i>Advanced Materials</i> , 2016, 28, 2439-2445.	11.1	129
3	The vortex tube as a classic thermodynamic refrigeration cycle. <i>Journal of Applied Physics</i> , 2000, 88, 3645-3653.	1.1	113
4	Toward ultrahigh-flux photovoltaic concentration. <i>Applied Physics Letters</i> , 2004, 84, 3642-3644.	1.5	87
5	Quantum refrigerators in quest of the absolute zero. <i>Journal of Applied Physics</i> , 2000, 87, 8093-8097.	1.1	85
6	Planar concentrators near the Étendue limit. <i>Optics Letters</i> , 2005, 30, 2617.	1.7	73
7	Photovoltaic characterization of concentrator solar cells by localized irradiation. <i>Journal of Applied Physics</i> , 2006, 100, 044514.	1.1	66
8	Synthesis of WS ₂ and MoS ₂ fullerene-like nanoparticles from solid precursors. <i>Nano Research</i> , 2009, 2, 416-424.	5.8	62
9	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
10	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
11	Optical performance at the thermodynamic limit with tailored imaging designs. <i>Applied Optics</i> , 2005, 44, 2327.	2.1	53
12	Photovoltaic performance enhancement by external recycling of photon emission. <i>Energy and Environmental Science</i> , 2013, 6, 1499.	15.6	53
13	A thermodynamic perspective to study energy performance of vacuum-based membrane dehumidification. <i>Energy</i> , 2017, 132, 106-115.	4.5	51
14	Effects of ultra-high flux and intensity distribution in multi-junction solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2006, 14, 297-303.	4.4	45
15	Aplanatic optics for solar concentration. <i>Optics Express</i> , 2010, 18, A41.	1.7	42
16	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
17	Thermodynamic perspective for the specific energy consumption of seawater desalination. <i>Desalination</i> , 2016, 386, 13-18.	4.0	40
18	High-flux characterization of ultrasmall multijunction concentrator solar cells. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	39

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19	Unfolded aplanats for high-concentration photovoltaics. <i>Optics Letters</i> , 2008, 33, 1114.	1.7	39
20	Singular MoS ₂ , SiO ₂ and Si nanostructures synthesis by solar ablation. <i>Journal of Materials Chemistry</i> , 2008, 18, 458-462.	6.7	35
21	New High-Temperature Pb-Catalyzed Synthesis of Inorganic Nanotubes. <i>Journal of the American Chemical Society</i> , 2012, 134, 16379-16386.	6.6	33
22	Panorama of dual-mirror aplanats for maximum concentration. <i>Applied Optics</i> , 2009, 48, 4926.	2.1	29
23	Current-limiting behavior in multijunction solar cells. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	27
24	Modeling and Experimental Evaluation of Passive Heat Sinks for Miniature High-Flux Photovoltaic Concentrators. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2005, 127, 138-145.	1.1	26
25	Assessing high-temperature photovoltaic performance for solar hybrid power plants. <i>Solar Energy Materials and Solar Cells</i> , 2018, 182, 61-67.	3.0	26
26	Laser surgical effects with concentrated solar radiation. <i>Applied Physics Letters</i> , 2002, 81, 2653-2655.	1.5	25
27	Providing large-scale electricity demand with photovoltaics and molten-salt storage. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110261.	8.2	25
28	Multiple-bandgap vertical-junction architectures for ultra-efficient concentrator solar cells. <i>Energy and Environmental Science</i> , 2012, 5, 8523.	15.6	24
29	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
30	InGaN/GaN multi-quantum-well solar cells under high solar concentration and elevated temperatures for hybrid solar thermal-photovoltaic power plants. <i>Progress in Photovoltaics: Research and Applications</i> , 2020, 28, 1167-1174.	4.4	20
31	Solar Synthesis of PbSn ₂ Superstructure Nanoparticles. <i>ACS Nano</i> , 2015, 9, 7831-7839.	7.3	18
32	High-yield synthesis of silicon carbide nanowires by solar and lamp ablation. <i>Nanotechnology</i> , 2013, 24, 335603.	1.3	17
33	Enhanced Algal Photosynthetic Photon Efficiency by Pulsed Light. <i>IScience</i> , 2020, 23, 101115.	1.9	17
34	Aplanatic lenses revisited: the full landscape. <i>Applied Optics</i> , 2016, 55, 2537.	2.1	15
35	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
36	Comment on "Water harvesting from air with metal-organic frameworks powered by natural sunlight". <i>Science</i> , 2017, 358, .	6.0	14

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37	Concentrated Sunlight for Materials Synthesis and Diagnostics. <i>Advanced Materials</i> , 2018, 30, e1800444.	11.1	12
38	New types of refractive-reflective aplanats for maximal flux concentration and collimation. <i>Optics Express</i> , 2015, 23, A1541.	1.7	11
39	The merits of plasmonic desalination. <i>Nature Photonics</i> , 2017, 11, 70-70.	15.6	11
40	Surgery by sunlight on live animals. <i>Nature</i> , 2003, 424, 510-510.	13.7	10
41	Temperature and intensity dependence of the open-circuit voltage of InGaN/GaN multi-quantum well solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111253.	3.0	10
42	Nested aplanats for practical maximum-performance solar concentration. <i>Optics Letters</i> , 2011, 36, 2836.	1.7	8
43	Design and demonstration of ultra-compact microcell concentrating photovoltaics for space. <i>Optics Express</i> , 2019, 27, A1467.	1.7	8
44	Reverse osmosis desalination: Modeling and experiment. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	7
45	Basic categories of dual-contour reflective-refractive aplanats. <i>Optics Letters</i> , 2015, 40, 4907.	1.7	7
46	Aplanatic Fresnel optics. <i>Optics Express</i> , 2017, 25, A274.	1.7	7
47	Photothermally induced delayed tissue death. <i>Journal of Biomedical Optics</i> , 2006, 11, 030504.	1.4	4
48	Synthesis and Characterization of Pb@GaS Core-Shell Fullerene-Like Nanoparticles and Nanotubes. <i>Nano</i> , 2017, 12, 1750030.	0.5	4
49	Uninterrupted photovoltaic power for lunar colonization without the need for storage. <i>Renewable Energy</i> , 2022, 187, 987-994.	4.3	3
50	Temperature coefficients of concentrator solar cells up to ultra-high irradiance. , 2012, , .		2
51	Expansive scope of aplanatic concentrators and collimators. <i>Applied Optics</i> , 2019, 58, F14.	0.9	2
52	Irradiance-dependent current-limiting behavior of multijunction solar cells. , 2012, , .		0
53	Up-Conversion Threshold under Concentrated Sunlight. , 2019, , .		0
54	Ultra-compact high flux tailored edge-ray space microconcentrators. , 2021, , .		0

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55	Aplanatic optics for solar concentration. Optics Express, 2010, 18, A41-52.	1.7	0