

What subjects are involved in solar power generation?

Solar power generation has attracted considerable attention from researchers across several subject categories, including fundamental areas of study. The five primary subject categories in related research were Multidisciplinary Materials Science, Applied Physics, Energy and Fuels, Physical Chemistry, and Nanoscience and Nanotechnology.

How much research has been done in solar power generation?

The initial phase from 2001 to 2009 revealed a modest output of academic research in solar power generation, with approximately 1000 publications and a low growth rate around 15%. During the second phase, 2010-2015, the number of publications increased rapidly, with an annual growth rate of approximately 30%.

What is the future of solar power?

Cumulative PV capacity nearly triples in the IEA forecast, growing by almost 1,500 GW, and exceeding natural gas by 2026 and coal by 2027. Cost declines and the desire to boost national energy security and climate resilience are driving widespread adoption.

What is the contribution of solar energy to global electricity production?

While the contribution of solar energy to global electricity production remains generally low at 3.6%, it has firmly established itself among other renewable energy technologies, comprising nearly 31% of the total installed renewable energy capacity in 2022 (IRENA, 2023).

What journals are focusing on solar power research?

These included Thin Solid Films, Journal of Physical Chemistry C, Organic Electronics, RSC Advances, and IEEE Journal of Photovoltaics. Our findings suggested that solar power research has attracted substantial attention from researchers in energy, materials, and physics.

What are the main topics in solar power research?

The five primary subject categories in related research were Multidisciplinary Materials Science, Applied Physics, Energy and Fuels, Physical Chemistry, and Nanoscience and Nanotechnology. Journal analysis confirms that energy and physics researchers are increasingly interested in solar power research.

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