**Năng lượng Mặt trời: Tiềm năng và lợi ích**

Năng lượng Mặt trời, bức xạ ánh sáng và nhiệt từ Mặt trời, đã được khai thác bởi con người từ thời cổ đại bằng cách sử dụng một loạt các công nghệ phát triển hơn bao giờ hết. Bức xạ Mặt trời, cùng với tài nguyên thứ cấp của năng lượng mặt trời như sức gió và sức sóng, sức nước và sinh khối, làm thành hầu hết năng lượng tái tạo có sẵn trên Trái đất.



Để hiểu rõ hơn Cục Thông tin KH&CN quốc gia xin giới thiệu một số bài nghiên cứu đã được xuất bản chính thức và các bài viết được chấp nhận đăng trên những cơ sở dữ liệu học thuật chính thống. 

**Sciencedirect**

1. A novel review on the efficiency of nanomaterials for solar energy storage systems

Journal of Energy Storage16 September 2022 Volume 55, Part C (Cover date: 25 November 2022) Article 105661

Aslı Akyol İnadaSamaneh ArmanBabak Safaei

<https://www.sciencedirect.com/science/article/pii/S2352152X22016498/pdfft?md5=62c885a301bb497e6d67a46fe00d15ed&pid=1-s2.0-S2352152X22016498-main.pdf>

2. Experimental study of dehumidification performance and solar thermal energy enhancement properties on a dehumidification system using desiccant coated heat exchanger

Energy 1 August 2022 Volume 259 (Cover date: 15 November 2022) Article 124983

Shaowei ChaiErjian ChenYanjun Dai

<https://www.sciencedirect.com/science/article/pii/S0360544222018813/pdfft?md5=24a2449bdc2ee6fe5d9cf33f1e435226&pid=1-s2.0-S0360544222018813-main.pdf>

3. Experimental and numerical study regarding the biomimetic bone porous structure to match energy and mass flow in a solar thermochemical reactor

Journal of Energy Storage 14 September 2022 Volume 55, Part C (Cover date: 25 November 2022) Article 105645

Xuhang ShiFuqiang WangJie Xu

<https://www.sciencedirect.com/science/article/pii/S2352152X22016334/pdfft?md5=cd528bd408d503babe95e2cf0a5870af&pid=1-s2.0-S2352152X22016334-main.pdf>

4. Solar Energy-Powered Battery Electric Vehicle charging stations: Current development and future prospect review

Renewable and Sustainable Energy Reviews 6 September 2022 Volume 169 (Cover date: November 2022) Article 112862

Kah Yung YapHon Huin ChinJiří Jaromír Klemeš

<https://www.sciencedirect.com/science/article/pii/S1364032122007444/pdfft?md5=72c66b285b7788e934fef772f1ba7353&pid=1-s2.0-S1364032122007444-main.pdf>

5. Performance analysis for post-combustion CO2 capture in coal-fired power plants by integration with solar energy

Energy 26 August 2022 Volume 261, Part A (Cover date: 15 December 2022) Article 125239

Ying WuYing DaiYuezhao Zhu

<https://www.sciencedirect.com/science/article/pii/S0360544222021272/pdfft?md5=bc9b6d8d374b03eae9316e8aa2a7c66e&pid=1-s2.0-S0360544222021272-main.pdf>

6. Seasonal-regulatable energy systems design and optimization for solar energy year-round utilization☆

Applied Energy 28 June 2022 Volume 322 (Cover date: 15 September 2022) Article 119500

Datong GaoTrevor Hocksun KwanGang Pei

<https://www.sciencedirect.com/science/article/pii/S0306261922008236/pdfft?md5=f74e3a1d4ea4e414a2e358fab49e60f1&pid=1-s2.0-S0306261922008236-main.pdf>

7. Thermal energy storage and solar energy utilization enabled by novel composite sodium acetate trihydrate/sodium dihydrogen phosphate dihydrate phase change materials

Solar Energy Materials and Solar Cells 29 August 2022 Volume 247 (Cover date: 15 October 2022) Article 111938

Xingru LiuZhongliang HuangYing Chen

<https://www.sciencedirect.com/science/article/pii/S0927024822003567/pdfft?md5=9d9cd695a753a97f6ee37d8a84ce2afb&pid=1-s2.0-S0927024822003567-main.pdf>

8. Feasibility of annual dry anaerobic digestion temperature-controlled by solar energy in cold and arid areas

Journal of Environmental Management 28 June 2022 Volume 318 (Cover date: 15 September 2022) Article 115626

Jinping LiShirong JinVojislav Novakovic

<https://www.sciencedirect.com/science/article/pii/S0301479722011999/pdfft?md5=6b33ca9aadabc4e8ec6e0af19b35d2d4&pid=1-s2.0-S0301479722011999-main.pdf>

9. Phase change materials based thermal energy storage for solar energy systems

Journal of Building Engineering 3 June 2022 Volume 56 (Cover date: 15 September 2022) Article 104731

Hafiz Muhammad Ali

<https://www.sciencedirect.com/science/article/pii/S2352710222007446/pdfft?md5=b9848c85f0d9d83d6b423b9992461759&pid=1-s2.0-S2352710222007446-main.pdf>

10. Parametric development and multi-aspect assessment of a novel solar energy driven plant for synchronic generation of green hydrogen and electricity

Fuel 17 August 2022 Volume 330 (Cover date: 15 December 2022) Article 125527

Wei ZhangXuefeng LinYu Bi

<https://www.sciencedirect.com/science/article/pii/S0016236122023602/pdfft?md5=48103a32ea5b9d5bf9ef74cd7526cf1d&pid=1-s2.0-S0016236122023602-main.pdf>

11. Measuring dynamics of solar energy resource quality: Methodology and policy implications for reducing regional energy inequality

Renewable Energy 2 August 2022 Volume 197 (Cover date: September 2022) Pages 138-150

Yanwei SunYing LiRenfeng Ma

<https://www.sciencedirect.com/science/article/pii/S0960148122011314/pdfft?md5=f32a1376632374dc97e0985b3c3e9b54&pid=1-s2.0-S0960148122011314-main.pdf>

12. Capacity optimization and feasibility assessment of solar-wind hybrid renewable energy systems in China

Journal of Cleaner Production 15 July 2022 Volume 368 (Cover date: 25 September 2022) Article 133139

Jingze YangZhen YangYuanyuan Duan

<https://www.sciencedirect.com/science/article/pii/S0959652622027287/pdfft?md5=1f581f45e25a7e8854dc2e5c8a667d59&pid=1-s2.0-S0959652622027287-main.pdf>

13. Ground-based investigation of a directional, flexible, and wireless concentrated solar energy transmission system

Applied Energy 28 June 2022 Volume 322 (Cover date: 15 September 2022) Article 119517

Ji-Xiang WangMingliang ZhongBo Qi

<https://www.sciencedirect.com/science/article/pii/S0306261922008388/pdfft?md5=d5f95c999bdf5c982d042d5eb12db1e0&pid=1-s2.0-S0306261922008388-main.pdf>

14. Popcorn-derived porous carbon based adipic acid composite phase change materials for direct solar energy storage systems

Journal of Energy Storage 7 June 2022 Volume 52, Part C (Cover date: 25 August 2022) Article 104972

Feilong ShaoShaobo XiWei Yu

<https://www.sciencedirect.com/science/article/pii/S2352152X22009781/pdfft?md5=d94ff7176ef1a4a3e2bb3a304ec29e9d&pid=1-s2.0-S2352152X22009781-main.pdf>

15. Inverse design a patternless solar energy absorber for maximizing absorption

Solar Energy Materials and Solar Cells 3 June 2022 Volume 244 (Cover date: 15 August 2022) Article 111822

Jing LiuChao DouYu Gu

<https://www.sciencedirect.com/science/article/pii/S0927024822002422/pdfft?md5=841f235a4bef968c988d5cc682789e59&pid=1-s2.0-S0927024822002422-main.pdf>

16. Membrane distillation driven by solar energy: A review

Journal of Cleaner Production 30 June 2022 Volume 366 (Cover date: 15 September 2022) Article 132949

S. M. ShalabyA. E. KabeelRadisav D. Vidic

<https://www.sciencedirect.com/science/article/pii/S0959652622025410/pdfft?md5=2d1207e185c8df088977d542ca926171&pid=1-s2.0-S0959652622025410-main.pdf>

17. Non orthogonal multiple access with solar energy harvesting

Digital Signal Processing 19 August 2022 Volume 130 (Cover date: October 2022) Article 103693

Raed AlhamadHatem Boujemaa

<https://www.sciencedirect.com/science/article/pii/S1051200422003104/pdfft?md5=350325280a957c1d1e6c1d1f33fe3136&pid=1-s2.0-S1051200422003>

18. Flexible wearable hybrid nanogenerator to harvest solar energy and human kinetic energy

Nano Energy 15 September 2022 Volume 103, Part A (Cover date: 1 December 2022) Article 107808

Xilong KangShuhai JiaXing Zhou

<https://www.sciencedirect.com/science/article/pii/S2211285522008850/pdfft?md5=907f175e94b4c0298d25ba164e818eef&pid=1-s2.0-S2211285522008850-main.pdf>

19. Design of an ultra-wideband solar energy absorber with wide-angle and polarization independent characteristics

Optical Materials 2 July 2022 Volume 131 (Cover date: September 2022) Article 112683

Shobhit K. PatelJaymit SurveSofyan A. Taya

<https://www.sciencedirect.com/science/article/pii/S0925346722007170/pdfft?md5=c80a1bcf2a48ade25faf13a9383c93ed&pid=1-s2.0-S0925346722007170-main.pdf>

20. Solar energy harvesting pavements on the road: comparative study and performance assessment

Sustainable Cities and Society 29 March 2022 Volume 81 (Cover date: June 2022) Article 103868

Tao MaSenji LiGang Xiao

<https://www.sciencedirect.com/science/article/pii/S2210670722001950/pdfft?md5=4898b9fdd5132119f2bbd952fc947f79&pid=1-s2.0-S2210670722001950-main.pdf>

21. Jet impingement cooling applications in solar energy technologies: Systematic literature review

Thermal Science and Engineering Progress 17 August 2022 Volume 34 (Cover date: 1 September 2022) Article 101445

Win Eng EweAhmad FudholiHaznan Abimanyu

<https://www.sciencedirect.com/science/article/pii/S2451904922002517/pdfft?md5=6be63d100b6627849edb3f7a1dd9cf55&pid=1-s2.0-S2451904922002517-main.pdf>

22. Design and evaluation of a new solar-biomass based energy system for a small sustainable residential community

Journal of Cleaner Production 31 July 2022 Volume 369 (Cover date: 1 October 2022) Article 133275

Khalid AltayibIbrahim Dincer

<https://www.sciencedirect.com/science/article/pii/S095965262202861X/pdfft?md5=a394b4540de270d6b54d329933137258&pid=1-s2.0-S095965262202861X-main.pdf>

23. Residential solar energy consumption and greenhouse gas nexus: Evidence from Morlet wavelet transforms

Renewable Energy 6 May 2022 Volume 192 (Cover date: June 2022) Pages 793-804

Sevda Kuşkaya

<https://www.sciencedirect.com/science/article/pii/S0960148122005754/pdfft?md5=27433c97383bd6fd4c33a8ecdfe98cb5&pid=1-s2.0-S0960148122005754-main.pdf>

24. Planning research on rural integrated energy system based on coupled utilization of biomass-solar energy resources

Sustainable Energy Technologies and Assessments 29 June 2022 Volume 53, Part A (Cover date: October 2022) Article 102416

Yongli WangChengcong CaiMinhan Zhou

<https://www.sciencedirect.com/science/article/pii/S2213138822004684/pdfft?md5=c835e1d2934f045a262aeddf1b1a455f&pid=1-s2.0-S2213138822004684-main.pdf>

25. Study on design optimization of new liquified air energy storage (LAES) system coupled with solar energy

Journal of Energy Storage 15 March 2022 Volume 51 (Cover date: July 2022) Article 104365

Ming YangLiqiang DuanYue Jiang

<https://www.sciencedirect.com/science/article/pii/S2352152X22003899/pdfft?md5=68e55081337e4870f1da17e1df6086a5&pid=1-s2.0-S2352152X22003899-main.pdf>

26. Tailoring and properties of a novel solar energy-triggered regenerative bionic fiber adsorbent for CO2 capture

Chemical Engineering Journal 2 July 2022 Volume 449 (Cover date: 1 December 2022) Article 137885

Wei LuXiaoyu ShiHui He

<https://www.sciencedirect.com/science/article/pii/S138589472203371X/pdfft?md5=55860c47cc9b05a7ab6384e78de0bfcb&pid=1-s2.0-S138589472203371X-main.pdf>

27. The effect of using phase change materials in solar panel cooling to provide green and sustainable energy of a building

Journal of Building Engineering 14 July 2022 Volume 57 (Cover date: 1 October 2022) Article 104933

Minglong ZhangYing LiuTeeba Ismail Kh

<https://www.sciencedirect.com/science/article/pii/S2352710222009445/pdfft?md5=7e1329a7c929ae0cfba01c9e2ec37c39&pid=1-s2.0-S2352710222009445-main.pdf>

28. Anisotropic gold nanostructures applied to improve solar energy conversion

Applied Materials Today 29 June 2022 Volume 29 (Cover date: December 2022) Article 101575

Anran ZhangYangping ZhangYukou Du

<https://www.sciencedirect.com/science/article/pii/S2352940722002098/pdfft?md5=766e9727a26fadf414667c1aa0039d5a&pid=1-s2.0-S2352940722002098-main.pdf>

29. Parametric optimization of a novel solar concentrating photovoltaic-near field thermophotovoltaic hybrid system based on cascade utilization of full-spectrum solar energy

Renewable Energy 11 July 2022 Volume 196 (Cover date: August 2022) Pages 1443-1454

Huadong HuangShiquan ShanZhijun Zhou

<https://www.sciencedirect.com/science/article/pii/S0960148122008862/pdfft?md5=c74b475ba54da32e3014c6d32d58647a&pid=1-s2.0-S0960148122008862-main.pdf>

30. The energy, exergy, and techno-economic analysis of a solar seasonal residual energy utilization system

Energy 1 March 2022 Volume 248 (Cover date: 1 June 2022) Article 123626

Datong GaoTrevor Hocksun KwanGang Pei

<https://www.sciencedirect.com/science/article/pii/S0360544222005291/pdfft?md5=1a2badcfc1b2128ee253efb214125b17&pid=1-s2.0-S0360544222005291-main.pdf>

31. Thermal systems energy optimization using multifunctional hybrid clean solar energy joined with chiller-based cooling: Effects of solar-assisted system on efficiency

Sustainable Energy Technologies and Assessments 13 June 2022 Volume 53, Part A (Cover date: October 2022) Article 102397

Nidal H. Abu-HamdehAhmed KhoshaimElias M. Salilih

<https://www.sciencedirect.com/science/article/pii/S2213138822004490/pdfft?md5=560136cb7cc93d6bce84d18f46756365&pid=1-s2.0-S2213138822004490-main.pdf>

32. System modelling and optimization of a low temperature local hybrid energy system based on solar energy for a residential district

Energy Conversion and Management 24 June 2022 Volume 267 (Cover date: 1 September 2022) Article 115918

Xiaolei YuanLassi HeikariYiqun Pan

<https://www.sciencedirect.com/science/article/pii/S0196890422007142/pdfft?md5=6425275e008a75101001d2c8eb4fb5ea&pid=1-s2.0-S0196890422007142-main.pdf>

33. Compressor-assisted thermochemical sorption integrated with solar photovoltaic-thermal collector for seasonal solar thermal energy storage

Energy Conversion and Management: X 17 June 2022 Volume 15 (Cover date: August 2022) Article 100248

Kamon ThinsuratZhiwei MaHuashan Bao

<https://www.sciencedirect.com/science/article/pii/S259017452200071X/pdfft?md5=8104fbf8a1b07142ceef00dc64795d66&pid=1-s2.0-S259017452200071X-main.pdf>

34. The asymmetric nexus of solar energy and environmental quality: Evidence from Top-10 solar energy-consuming countries

Energy 4 February 2022 Volume 247 (Cover date: 15 May 2022) Article 123381

Jinna YuHayot Berk SaydalievSajid Ali

<https://www.sciencedirect.com/science/article/pii/S0360544222002845/pdfft?md5=1d8250f14cd85085f8a223eca93a09d0&pid=1-s2.0-S0360544222002845-main.pdf>

35. Phase-change nanofluids based on n-octadecane emulsion and phosphorene nanosheets for enhancing solar photothermal energy conversion and heat transportation

Solar Energy Materials and Solar Cells 23 September 2022 Volume 248 (Cover date: December 2022) Article 112016

Tao ShiMeng ZhangXiaodong Wang

<https://www.sciencedirect.com/science/article/pii/S0927024822004330/pdfft?md5=db510ff587faba747ea6687b735f45e8&pid=1-s2.0-S0927024822004330-main.pdf>

36. Assessing the potential and utilization of solar energy at the building-scale in Shanghai

Sustainable Cities and Society 26 April 2022 Volume 82 (Cover date: July 2022) Article 103917

Zuoqi ChenBailang YuJianping Wu

<https://www.sciencedirect.com/science/article/pii/S2210670722002396/pdfft?md5=3482d39f1bd745a5d5a9c88881a32f43&pid=1-s2.0-S2210670722002396-main.pdf>

37. Modelling and analysis of a novel hydrogen production approach by full spectrum solar energy

Energy Conversion and Management 6 May 2022 Volume 263 (Cover date: 1 July 2022) Article 115694

Guiqiang LiJinpeng LiM. Waqar Akram

<https://www.sciencedirect.com/science/article/pii/S0196890422004903/pdfft?md5=eab314589600f48409ed3056db6c5522&pid=1-s2.0-S0196890422004903-main.pdf>

**Springer**

1. Improving the potable water generation through tubular solar still using eggshell powder (bio-based energy source) as a natural energy storage material — an experimental approach

Amrit Kumar Thakur & Ravishankar Sathyamurthy

Environmental Science and Pollution Research volume 29, pages 40903–40920 (2022)

<https://link.springer.com/content/pdf/10.1007/s11356-022-18906-8.pdf>

2. Solar cell-integrated energy storage devices for electric vehicles: a breakthrough in the green renewable energy

Kuppusamy A.V., Shahid Bashir, S. Ramesh & K. Ramesh

Ionics volume 28, pages 4065–4081 (2022)

<https://link.springer.com/content/pdf/10.1007/s11581-022-04700-6.pdf>

3. Study on IoT networks with the combined use of wireless power transmission and solar energy harvesting

Maryam Chinipardaz & Somaieh Amraee

Sādhanā volume 47, Article number: 86 (2022)

<https://link.springer.com/content/pdf/10.1007/s12046-022-01829-y.pdf>

4. Energy matrices, economic and environmental analysis of thermoelectric solar desalination using cooling fan

Shahin Shoeibi, Nader Rahbar, Ahad Abedini Esfahlani & Hadi Kargarsharifabad

Journal of Thermal Analysis and Calorimetry volume 147, pages 9645–9660 (2022)

<https://link.springer.com/content/pdf/10.1007/s10973-022-11217-7.pdf>

5. Performance comparison of solar still with inbuilt condenser and agitator over conventional solar still with energy and exergy analysis

Arun Kumar Rajasekaran & Kalidasa Murugavel Kulandaivelu

Environmental Science and Pollution Research (2022)

<https://link.springer.com/content/pdf/10.1007/s11356-022-21466-6.pdf>

6. A Review on India's Solar Energy Prospective: Potential, Environmental Protection and Policies Framework

Umesh Agarwal, Narendra Singh Rathore, Naveen Jain & Manoj Kumawat

Journal of The Institution of Engineers (India): Series A (2022)

<https://link.springer.com/content/pdf/10.1007/s40030-022-00664-y.pdf>

7. Solar radiation and solar energy estimation using ANN and Fuzzy logic concept: A comprehensive and systematic study

Daxal Patel, Shriya Patel, Poojan Patel & Manan Shah

Environmental Science and Pollution Research volume 29, pages 32428–32442 (2022)

<https://link.springer.com/content/pdf/10.1007/s11356-022-19185-z.pdf>

8. Socio-economic impacts of solar energy technologies for sustainable green energy: a review

Ahmed N. Abdalla, Wang Jing, Muhammad Shahzad Nazir, Mingxin Jiang & Hao Tao

Environment, Development and Sustainability (2022)

<https://link.springer.com/content/pdf/10.1007/s10668-022-02654-3.pdf>

9. Influence of operating conditions on solar energy utilization efficiency of flat plate solar collector

Shubo Xiao, Ying Zhang, Kuiming Xia & Jibo Long

Renewables: Wind, Water, and Solar volume 9, Article number: 2 (2022)

<https://link.springer.com/content/pdf/10.1186/s40807-022-00070-9.pdf>

10. Modeling and optimization of photovoltaic serpentine type thermal solar collector with thermal energy storage system for hot water and electricity generation for single residential building

Srimanickam Baskaran, Christopher Sathiya Satchi, Saranya Amirtharajan & Metilda Manuel Swami Durai

Environmental Science and Pollution Research volume 29, pages 59575–59591 (2022)

<https://link.springer.com/content/pdf/10.1007/s11356-022-19957-7.pdf>

11. Analysis of a solar still with photovoltaic modules and electrical heater - Energy and exergy approach

Arani Rajendra Prasad, Muthu Manokar Athikesavan, Abd Elnaby Kabeel, Manegalai Govindan Sumithra, Ravishankar Sathyamurthy & Amrit Kumar Thakur

Environmental Science and Pollution Research volume 29, pages 57453–57465 (2022)

<https://link.springer.com/content/pdf/10.1007/s11356-022-19674-1.pdf>

12. Predicting on-site solar energy generation using off-site weather stations and deep neural networks

Jose Ramirez-Vergara, L. B. Bosman, Walter D. Leon-Salas & Ebisa Wollega

International Journal of Energy and Environmental Engineering (2022)

<https://link.springer.com/content/pdf/10.1007/s40095-022-00501-9.pdf>

13. Production and feasibility characterization of bio-oil from jojoba seed–based biomass through solar thermal energy pyrolysis process

Yashvir Singh, Amneesh Singla, Nishant Kumar Singh & Abhishek Sharma

Biomass Conversion and Biorefinery (2022)

<https://link.springer.com/content/pdf/10.1007/s13399-022-02686-9.pdf>

14. Augmenting the productivity of tubular solar still using low-cost energy storage materials

Ritesh Krishna Sambare, Satish Kumar Dewangan, Pankaj Kumar Gupta & Sandeep Joshi

Environmental Science and Pollution Research (2022)

<https://link.springer.com/content/pdf/10.1007/s11356-022-21324-5.pdf>

15. Economic assessment of converting a pressurised water distribution network into an off-grid system supplied with solar photovoltaic energy

Houssem Eddine Chabour, Miguel Angel Pardo & Adrian Riquelme

Clean Technologies and Environmental Policy volume 24, pages 1823–1835 (2022)

<https://link.springer.com/content/pdf/10.1007/s10098-022-02290-5.pdf>

16. Application of trigeneration system power by concentrating photovoltaic-thermal solar collectors for energy demands of an industrial complex

Mehrdad Khademy, Alireza Saraei & M. H. Jalaledin Abyaneh

International Journal of Energy and Environmental Engineering volume 13, pages 1101–1128 (2022)

<https://link.springer.com/content/pdf/10.1007/s40095-022-00512-6.pdf>

17. Energy, exergy, environmental impact, and economic analyses of evacuated tube compound parabolic concentrator–powered solar thermal domestic water heating system

Dinesh Kumar Sharma, Dilip Sharma & Ahmed Hamza H. Ali

Environmental Science and Pollution Research (2022)

<https://link.springer.com/content/pdf/10.1007/s11356-022-21505-2.pdf>

18. Energy, exergy and enviroeconomic analysis of modified multi-wick basin type inverted absorber solar still

Devendra Singh & Ajay Kumar Sharma

Journal of Mechanical Science and Technology volume 36, pages 1003–1013 (2022)

<https://link.springer.com/content/pdf/10.1007/s12206-022-0146-2.pdf>

19. Performance assessment of a new energy harvesting system using thermoelectric generator coupled with solar radiation on hybrid nanofluids

Rashmi Rekha Sahoo & Kartik Srivastava

Journal of Thermal Analysis and Calorimetry volume 147, pages 12269–12284 (2022)

<https://link.springer.com/content/pdf/10.1007/s10973-022-11377-6.pdf>

20. Comparative study on the performance of solar still equipped with local clay as an energy storage material

Ahmed H. Mohammed, Mohamed Attalla & Ahmed N. Shmroukh

Environmental Science and Pollution Research volume 29, pages 74998–75012 (2022)

<https://link.springer.com/content/pdf/10.1007/s11356-022-21095-z.pdf>

21. Energy supply based on wind-solar power in Germany

Hans Lustfeld

Discover Energy volume 2, Article number: 2 (2022)

<https://link.springer.com/content/pdf/10.1007/s43937-022-00007-9.pdf>

22. A review of advanced architectural glazing technologies for solar energy conversion and intelligent daylighting control

Xiao Liu & Yupeng Wu

Architectural Intelligence volume 1, Article number: 10 (2022)

<https://link.springer.com/content/pdf/10.1007/s44223-022-00009-6.pdf>

**IEEE**

1. GaAs//CuIn1−yGaySe2 Three-Junction Solar Cells With 28.06% Efficiency Fabricated Using a Bonding Technique Involving Pd Nanoparticles and an Adhesive

Kikuo Makita;Yukiko Kamikawa;Hidenori Mizuno;Ryuji Oshima;Yasushi Shoji;Shogo Ishizuka;Ralph Müller;David Lackner;Frank Dimroth;Takeyoshi Sugaya

IEEE Journal of Photovoltaics

Year: 2022 | Volume: 12, Issue: 2 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9659815>

2. Increasing Self-Sufficiency of Energy Community by Common Thermal Energy Storage

Elahe Doroudchi;Hosna Khajeh;Hannu Laaksonen

IEEE Access

Year: 2022 | Volume: 10 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9845400>

3. SWIPT-Based Energy Scheduling for Solar-Powered WSN in Full-Duplex Mode

Juan Gao;Runze Wu;Jianhong Hao;Chen Xu;Haobo Guo

IEEE Sensors Journal

Year: 2022 | Volume: 22, Issue: 13 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9771399>

4. Energy-Optimized Trajectory Planning for Solar-Powered Aircraft in a Wind Field Using Reinforcement Learning

Zeyi Xi;Di Wu;Wenjun Ni;Xiaoping Ma

IEEE Access

Year: 2022 | Volume: 10 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9857912>

5. Optimal Solar Greenhouses Design Using Multiobjective Genetic Algorithm

Bahram Mahjoob Karambasti;Mohamad Naghashzadegan;Maryam Ghodrat;Ghadir Ghorbani;Roy B. V. B. Simorangkir;Ali Lalbakhsh

IEEE Access

Year: 2022 | Volume: 10 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9819891>

6. Optimal Energy Management of Hydrogen Energy Facility Using Integrated Battery Energy Storage and Solar Photovoltaic Systems

Abdulrahman M. Abomazid;Nader A. El-Taweel;Hany E. Z. Farag

IEEE Transactions on Sustainable Energy

Year: 2022 | Volume: 13, Issue: 3 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9740444>

7. Integrated Solar Mesh Dipole Antenna Based Energy Harvesting System

Morsy Ahmed Morsy;Khalid Saleh

IEEE Access

Year: 2022 | Volume: 10 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9864574>

8. Optimum Integration of Solar Energy With Battery Energy Storage Systems

Yaze Li;Jingxian Wu

IEEE Transactions on Engineering Management

Year: 2022 | Volume: 69, Issue: 3 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9019606>

9. A Comprehensive Study of Module Layouts for Silicon Solar Cells Under Partial Shading

Nils Klasen;Florian Lux;Julian Weber;Torsten Roessler;Achim Kraft

IEEE Journal of Photovoltaics

Year: 2022 | Volume: 12, Issue: 2 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9707736>

10. Paint With the Sun: A Thermal-Vision Guided Robot to Harness Solar Energy for Heliography

Luyin Hu;Anqing Duan;Mengying Li;Andrea Cherubini;Lu Li;David Navarro-Alarcon

IEEE Sensors Journal

Year: 2022 | Volume: 22, Issue: 18 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9850432>

11. TOPCon Silicon Solar Cells With Selectively Doped PECVD Layers Realized by Inkjet-Printing of Phosphorus Dopant Sources

Zohreh Kiaee;Tobias Fellmeth;Bernd Steinhauser;Christian Reichel;Milad Nazarzadeh;Ann-Catherine Nölken;Roman Keding

IEEE Journal of Photovoltaics

Year: 2022 | Volume: 12, Issue: 1 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9647858>

12. Critical Review of Data, Models and Performance Metrics for Wind and Solar Power Forecast

V. Prema;M. S. Bhaskar;Dhafer Almakhles;N. Gowtham;K. Uma Rao

IEEE Access

Year: 2022 | Volume: 10 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9658498>

13. A Sustainable Business Framework Using Solar and Bio-Energy to Instate Incessant Power in Rural India: Optimal Scheduling, Smart Metering, and Economic Viability

Pratik Kalkal;A. V. Ravi Teja

IEEE Access

Year: 2022 | Volume: 10 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9690162>

14. Millions of Small Pressure Cycles Drive Damage in Cracked Solar Cells

Timothy J Silverman;Nick Bosco;Michael Owen-Bellini;Cara Libby;Michael G. Deceglie

IEEE Journal of Photovoltaics

Year: 2022 | Volume: 12, Issue: 4 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9786534>

15. Optimal Coordinated Bidding Strategy of Wind and Solar System with Energy Storage in Day-ahead Market

Yinping Yang;Chao Qin;Yuan Zeng;Chengshan Wang

Journal of Modern Power Systems and Clean Energy

Year: 2022 | Volume: 10, Issue: 1 | Journal Article | Publisher: SGEPRI

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9497854>

16. Grid Integration Challenges and Solution Strategies for Solar PV Systems: A Review

Md Shafiullah;Shakir D. Ahmed;Fahad A. Al-Sulaiman

IEEE Access

Year: 2022 | Volume: 10 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9773105>

17. Accurate Current Sharing and Voltage Regulation in Hybrid Wind/Solar Systems: An Adaptive Dynamic Programming Approach

Rui Wang;Dazhong Ma;Ming-Jia Li;Qiuye Sun;Huaguang Zhang;Peng Wang

IEEE Transactions on Consumer Electronics

Year: 2022 | Volume: 68, Issue: 3 | Journal Article | Publisher: IEEE

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9790850>

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