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Environmental and economic impacts of solar-powered integrated greenhouses

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Journal of Industrial Ecology, 2020, 24, 234-247.

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#	Paper	IF	Citations
31	Bringing a life cycle perspective to emerging technology development. <i>Journal of Industrial Ecology</i> , 2020 , 24, 6-10	7.2	4
30	Balancing crop production and energy harvesting in organic solar-powered greenhouses. <i>Cell Reports Physical Science</i> , 2021 , 2, 100381	6.1	15
29	Progress in Semitransparent Organic Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100041	7.1	16
28	What is recycled water, anyway? Investigating greenhouse grower definitions, perceptions, and willingness to use recycled water. <i>Renewable Agriculture and Food Systems</i> , 2021 , 36, 491-500	1.8	2
27	Light manipulation using organic semiconducting materials for enhanced photosynthesis. <i>Cell Reports Physical Science</i> , 2021 , 2, 100390	6.1	2
26	Agrivoltaic Systems Design and Assessment: A Critical Review, and a Descriptive Model towards a Sustainable Landscape Vision (Three-Dimensional Agrivoltaic Patterns). <i>Sustainability</i> , 2021 , 13, 6871	3.6	20
25	Semi-Transparent Organic Photovoltaics Applied as Greenhouse Shade for Spring and Summer Tomato Production in Arid Climate. <i>Agronomy</i> , 2021 , 11, 1152	3.6	7
24	Colour-Tuneable Hybrid Heterojunctions as Semi-Transparent Photovoltaic Windows for Photoelectrochemical Water-Splitting. <i>SSRN Electronic Journal</i> ,	1	
23	Global energy assessment of the potential of photovoltaics for greenhouse farming. <i>Applied Energy</i> , 2022 , 309, 118474	10.7	3
22	The application of solar-driven technologies for the sustainable development of agriculture farming: a comprehensive review. <i>Reviews in Environmental Science and Biotechnology</i> , 2022 , 21, 139-167	13.9	0
21	Progress and challenges of crop production and electricity generation in agrivoltaic systems using semi-transparent photovoltaic technology. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 158, 112126	16.2	8
20	Organic solar powered greenhouse performance optimization and global economic opportunity. <i>Energy and Environmental Science</i> ,	35.4	3
19	Beyond energy balance in agrivoltaic food production: Emergent crop traits from color selective solar cells.		
18	Color-tunable hybrid heterojunctions as semi-transparent photovoltaic windows for photoelectrochemical water splitting. <i>Cell Reports Physical Science</i> , 2021 , 2, 100676	6.1	1
17	Economic Analysis of Incremental Distribution Network Construction of Urban Industrial Park under the Background of Smart City. <i>Mathematical Problems in Engineering</i> , 2022 , 2022, 1-11	1.1	
16	The interplay of chemical structure, physical properties, and structural design as a tool to modulate the properties of melanins within mesopores. <i>Scientific Reports</i> , 2022 , 12,	4.9	1
15	Highly efficient dye-sensitized solar cells for wavelength-selective greenhouse: A promising agrivoltaic system.		0

14	Why energy models should integrate social and environmental factors: Assessing user needs, omission impacts, and real-word accuracy in the European Union. 2022 , 92, 102775	1
13	Optimal allocation of tomato supply to minimize greenhouse gas emissions in major U.S. metropolitan markets. 2023 , 188, 106660	0
12	Research Trends on Greenhouse Engineering Using a Science Mapping Approach. 2022 , 8, 833	1
11	Tomatoes from the desert: Environmental footprints and sustainability potential in a changing world. 6,	0
10	Evaluating the Performance of Flexible, Semi-Transparent Large-Area Organic Photovoltaic Arrays Deployed on a Greenhouse. 2022 , 4, 969-992	0
9	Study on the thermal performance of a new type of latent heat storage unit (LHSU). 2023 , 64, 105630	0
8	The global impact of financial development on renewable energy in a panel structural vector autoregression analysis.	0
7	Strategies to Improve the Photochromic Properties and Photovoltaic Performances of Naphthopyran Dyes in Dye-Sensitized Solar Cells. 2203651	0
6	Sustainability evaluation of protected vegetables production in China based on emergy analysis. 2023 , 135928	0
5	Low Temperature Sequential Deposition Strategy for High Performance Pseudoplanar Heterojunction Semitransparent Organic Photovoltaics. 2023 , 11,	0
4	Emergent molecular traits of lettuce and tomato grown under wavelength-selective solar cells. 14,	0
3	Effect of PV roof coverage on the lighting availability, heating, and cooling demands for a Venlo greenhouse in Tehran. 2023 ,	0
2	A Mini-Review on Solar-Powered Energy Conservation Strategies for Sustainable Greenhouse Systems. 2022 ,	0
1	Improving the Efficiency of Organic Solar Cells via the Molecular Engineering of Simple Fused Non-Fullerene Acceptors. 2023 , 16, 3443	0