

Research Area	Publication Title + Authors + Full Citation + DOI
P22 PCM storage	Review on storage materials and thermal performance enhancement techniques for high temperature phase change thermal storage systems. Ming Liu, Wasim Saman, Frank Bruno. (2012) Renewable and Sustainable Energy Reviews 16 May (2012) 2118– 2132. DOI: 10.1016/j.rser.2012.01.020
P31 sCO2 systems - Power blocks	Dynamic characteristics of a direct-heated supercritical carbon-dioxide Brayton cycle in a solar thermal power plant. Singh, R., Miller, S.A., Rowlands, A.S., Jacobs, P.A. (2013) Energy 50, February (2013) 194-204. http://dx.doi.org/10.1016/j.energy.2012.11.029
P31 sCO2 systems - Power blocks	Effects of relative volume-ratios on dynamic performance of a direct-heated supercritical carbon-dioxide closed Brayton cycle in a solar-thermal power plant. Singh, R., Miller, S.A., Rowlands, A.S. (2013) Energy 55 April 1025-1032. http://dx.doi.org/10.1016/j.energy.2013.03.049
P11 Receiver Scoping	Heliostat cost reduction – where to now? Joe Coventry, John Pye (2014) Energy Procedia. http://dx.doi.org/10.1016/j.egypro.2014.03.007
P31 sCO2 systems - Power blocks	Supercritical CO2 cycles offer experience curve opportunity to CST in remote area markets. Hal Gurgenci (2014) Energy Procedia. http://dx.doi.org/10.1016/j.egypro.2014.03.125
P31 sCO2 systems - Power blocks	Influence of ambient conditions and water flow on the performance of pre-cooled natural draft dry cooling towers. Suoying He, Zhiqiang Guan, Hal Gurgenci, Ingo Jahn, Yuansen Lu, Abdullah M. Alkhedhair (2014) Applied Thermal Engineering, Volume 66, Issues 1–2, May, Pages 621-631, ISSN 1359-4311. http://dx.doi.org/10.1016/j.applthermaleng.2014.02.070
P31 sCO2 systems - Power blocks	Experimental study of film media used for evaporative pre-cooling of air. Suoying He, Zhiqiang Guan, Hal Gurgenci, Kamel Hooman, Yuansen Lu, Abdullah M. Alkhedhair (2014) Energy Conversion and Management, Volume 87, November), Pages 874-884, ISSN 0196-8904. http://dx.doi.org/10.1016/j.enconman.2014.07.084
P31 sCO2 systems - Power blocks	Theoretical and experimental studies on a solid containing water droplet. M.H. Sadafi, I. Jahn, A.B. Stilgoe, K. Hooman (2014) International Journal of Heat and Mass Transfer, Volume 78, November, 25-33, ISSN 0017-9310. http://dx.doi.org/10.1016/j.ijheatmasstransfer.2014.06.064
P31 sCO2 systems - Power blocks	The influence of windbreak wall orientation on the cooling performance of small natural draft dry cooling towers. Lu, Y.S.,Gurgenci, H., Guan, Z., and He, S (2014) International Journal of Heat and Mass Transfer, Volume 79, December 2014, 1059–1069. http://dx.doi.org/10.1016/j.ijheatmasstransfer.2014.09.012
P01 OEM	Impact of Cost Uncertainties and Solar Data Variations on the Economics of Central Receiver Solar Power Plants: An Australian Perspective. Meybodi M.A, Beath A.C. (2016) Renewable Energy 93 510-524. http://dx.doi.org/10.1016/j.renene.2016.03.016
P01 OEM	Current and Future Status of Concentrating Solar Power in Australia. Hinkley JT., Hayward JA., Beath AC., Brinsmead TS., Meybodi MA., Lovegrove KM. (2015) J. Japan Institute of Energy, 95, 227-234. DOI

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P11 Receiver Scoping	Fourier sampling of sun path for applications in solar energy. V. Grigoriev, M. Blanco, C. Corsi (2015) American Institute of Physics. http://dx.doi.org/10.1063/1.4949032
P11 Receiver Scoping	Effect of heliostat design wind speed on the levelised cost of electricity from concentrating solar thermal power tower plants. Emes, M. J., M. Arjomandi and G. J. Nathan (2015) Solar Energy 115(0): 441-451. http://dx.doi.org/10.1016/j.solener.2015.02.047
P12 Heliostat scoping	A review of Sodium receiver technologies for central receiver solar power plants. J. Coventry, C. Andraka, J. Pye, M. Blanco, J. Fisher. (2015) Solar Energy, 122, 749–762. http://dx.doi.org/10.1016/j.solener.2015.09.023
P12 Heliostat scoping	A Novel Solar Expanding-Vortex Particle Reactor: Influence of Vortex Structure on Particle Residence Times and Trajectories. Alfonso Chinnici, Maziar Arjomandi, Zhao Feng Tian, Zhao Lu, Graham Jerrold Natha (2015) Solar Energy - Volume 122, December 2015, Pages 58–75. http://dx.doi.org/10.1016/j.solener.2015.08.017
P22 PCM storage	Impact of the heat transfer fluid in a flat plate phase change thermal storage unit for concentrated solar tower plants. Ming Liu, Martin Belusko, N.H. Steven Tay, Frank Bruno. (2015) Solar Energy, Volume 101, March (2014), Pages 220-231, ISSN 0038-092X. http://dx.doi.org/10.1016/j.solener.2013.12.030
P22 PCM storage	Review on shell materials used in the encapsulation of phase change materials for high temperature thermal energy storage. Rhys Jacob, Frank Bruno (2015) Renewable and Sustainable Energy Reviews 48(0): 79-87. https://doi.org/10.1016/j.rser.2015.03.038
P22 PCM storage	Determination of thermo-physical properties and stability testing of high-temperature phase-change materials for CSP applications. Liu, M., J. C. Gomez, C. S. Turchi, N. H. S. Tay, W. Saman and F. Bruno. (2015) Solar Energy Materials and Solar Cells 139(0): 81-87. http://dx.doi.org/10.1016/j.solmat.2015.03.014
P22 PCM storage	Investigation of Cascaded Shell and Tube Latent Heat Storage Systems for Solar Tower Power Plants. Liu M., Tay N.H.S., Belusko M., Bruno F. (2015) Energy Procedia, 69, pp 913-924, 2015. http://dx.doi.org/10.1016/j.egypro.2015.03.175
P22 PCM storage	Effective tube-in-tank PCM thermal storage for CSP applications, Part 1: Impact of tube configuration on discharging effectiveness. Belusko M, Tay N.H.S., Liu M., Bruno F. (2015) Solar Energy. http://dx.doi.org/10.1016/j.solener.2015.09.042
P22 PCM storage	Effective tube-in-tank PCM thermal storage for CSP applications, Part 2: Parametric assessment and impact of latent fraction. Belusko M, Tay N.H.S., Liu M., Bruno F. (2015) Solar Energy. http://dx.doi.org/10.1016/j.solener.2015.09.034
P22 PCM storage	Review on concentrating solar power plants and new developments in high temperature thermal energy storage technologies. Liu, M., Steven Tay, N.H., Bell, S., Belusko, M., Jacob, R., Will, G., Saman, W., Bruno, F. (2015) Renewable and Sustainable Energy Reviews, 53, pp. 1411-1432. Cited 1 time. http://dx.doi.org/10.1016/j.rser.2015.09.026

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P22 PCM storage	Effective tube-in-tank PCM thermal storage for CSP applications, Part 2: Parametric assessment and impact of latent fraction. M Belusko, NHS Tay, M Liu, F Bruno. (2015) Solar Energy, Volume 139, 1 December 2016, Pages 744-756. https://doi.org/10.1016/j.solener.2015.09.034
P22 PCM storage	Effective tube-in-tank PCM thermal storage for CSP applications, Part 1: Impact of tube configuration on discharging effectiveness. M Belusko, NHS Tay, M Liu, F Bruno. (2015) Solar Energy, Volume 139, 1 December 2016, Pages 733-743. https://doi.org/10.1016/j.solener.2015.09.042
P31 sCO ₂ systems - Power blocks	Experimental study of the application of two trickle media for inlet air pre-cooling of natural draft dry cooling towers. Suoying He, Zhiqiang Guan, Hal Gurgenci, Kamel Hooman, Yuanshen Lu, Abdullah M. Alkhedhair. (2015) Energy Conversion and Management, Volume 89, 1 January 2015, 644-654, ISSN 0196-8904. http://dx.doi.org/10.1016/j.enconman.2014.10.031
P31 sCO ₂ systems - Power blocks	A theoretical model with experimental verification for heat and mass transfer of saline water droplets. M.H. Sadafi, I. Jahn, A.B. Stilgoe, K. Hooman. (2015) International Journal of Heat and Mass Transfer, Volume 81, February, p1-9, ISSN 0017-9310. http://dx.doi.org/10.1016/j.ijheatmasstransfer.2014.10.005
P31 sCO ₂ systems - Power blocks	Water Spray For Pre-Cooling Of Inlet Air For Natural Draft Dry Cooling Towers – Experimental Study. (2015) Abdullah Alkhedhair, Zhiqiang Guan, Ingo Jahn, Hal Gurgenci, Suoying He. International Journal of Thermal Sciences. http://dx.doi.org/10.1016/j.ijthermalsci.2014.11.029
P31 sCO ₂ systems - Power blocks	Cooling performance of solid containing water for spray assisted dry cooling towers. Sadafi, M. H., I. Jahn and K. Hooman. (2015) Energy Conversion and Management 91(0): 158-167. http://dx.doi.org/10.1016/j.enconman.2014.12.005
P31 sCO ₂ systems - Power blocks	A review of wetted media with potential application in the pre-cooling of natural draft dry cooling towers. He, S., H. Gurgenci, Z. Guan, X. Huang and M. Lucas. (2015) Renewable and Sustainable Energy Reviews 44(0): 407-422. http://dx.doi.org/10.1016/j.rser.2014.12.037
P31 sCO ₂ systems - Power blocks	Experimental study of crosswind effects on the performance of small cylindrical natural draft dry cooling towers. Lu, Y., Z. Guan, H. Gurgenci, K. Hooman, S. He and D. Bharathan. (2015) Energy Conversion and Management 91(0): 238-248. http://dx.doi.org/10.1016/j.enconman.2014.12.018
P31 sCO ₂ systems - Power blocks	Numerical simulation of water spray in natural draft dry cooling towers with a new nozzle representation approach. Abdullah Alkhedhair, Ingo Jahn, Hal Gurgenci, Zhiqiang Guan, Suoying He, Yuanshen Lu. (2015) Applied Thermal Engineering, Volume 98, Pages 924-935. http://dx.doi.org/10.1016/j.applthermaleng.2015.10.118
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P41 Operations + Maintenance	Investigation of Roughness Periodicity on The Hydrophobic Properties of Surfaces. J. Toster and D.A. Lewis. (2015) Aust J. Chem (special issue invited), 68, 1228-1232. http://dx.doi.org/10.1071/CH15310



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P42 Solar Fuels	Storage capacities required for a solar thermal plant to avoid unscheduled reductions in output. Kueh, K., Nathan, G.J., Saw, W. (2015) Solar Energy, 118, 209–221. http://dx.doi.org/10.1016/j.solener.2015.04.040
P42 Solar Fuels	Performance Assessment of Fischer-Tropsch Liquid Fuels Production by Solar Hybridized Dual Fluidized Bed Gasification of Lignite. Guo, P., P. J. van Eyk, W. L. Saw, P. J. Ashman, G. J. Nathan and E. B. Stechel. (2015) Energy & Fuels. http://dx.doi.org/10.1021/acs.energyfuels.5b00007
P42 Solar Fuels	Fischer-Tropsch liquid fuel production by co-gasification of coal and biomass in a solar hybridized dual fluidized bed gasifier. P. Guo, W. Saw, P. J. van Eyk, P. J. Ashman, G. J. Nathan and E. B. Stechel. (2015) Energy Procedia. http://dx.doi.org/10.1016/j.egypro.2015.03.147
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P42 Solar Fuels	The challenges and opportunities for integration of solar syngas production with liquid fuel synthesis. James T. Hinkley, Robbie K. McNaughton, John Pye, Woei Saw and Ellen B. Stechel. (2015) SolarPACES 2015, AIP Conf. Proc. 1734, 120003-1–120003-8. http://dx.doi.org/10.1063/1.4949205
P11 Receiver Scoping	Development of the ASTRI heliostat. J. Coventry, M. Arjomandi, J. Barry, M. Blanco, G. Burgess, J. Campbell, P. Connor, M. Emes, P. Fairman, D. Farrant, F. Ghanadi, V. Grigoriev, C. Hall, P. Koltun, D. Lewis, S. Martin, G. Nathan, J. Pye, A. Qiu, W. Stuart, Y. Tang, F. Venn, J. Yu. (2016) AIP Conf. Proc. 1734, 020005. http://dx.doi.org/10.1063/1.4949029
P11 Receiver Scoping	A Novel Solar Expanding-Vortex Particle Reactor: Experimental and Numerical Investigation of the Iso-thermal Flow Field and Particle Deposition. Alfonso Chinnici, Maziar Arjomandi, Zhao Feng Tian, Graham Jerrold Nathan. (2016) Solar Energy - Volume 133, August 2016, Pages 451–464. http://dx.doi.org/10.1016/j.solener.2016.04.006
P11 Receiver Scoping	Experimental and numerical investigation of the flow characteristics within a Solar Expanding-Vortex Particle Receiver-Reactor. Alfonso Chinnici, Yunpeng Xue, Timothy CW Lau, Maziar Arjomandi, Graham J Nathan. (2016) Solar Energy - Volume 141, 1 January 2017, Pages 25–37. http://dx.doi.org/10.1016/j.solener.2016.11.020
P22 PCM storage	Eutectic Na₂CO₃-NaCl salt: A new phase change material for high temperature thermal storage. Sun, Y., Liu, M., Bruno, F., Li, S., Jiang, Y. (2016) Solar Energy Materials and Solar Cells, 152, pp. 155-160. http://dx.doi.org/10.1016/j.solmat.2016.04.002
P22 PCM storage	Embodied Energy and Cost of High Temperature Thermal Energy Storage Systems for use with Concentrated Solar Power Plants. Jacob R, Belusko M, Fernández A.I., Cabeza L.F., Saman W., Bruno F. (2016) Applied Energy vol. 180, 15 pp. 586-597. https://doi.org/10.1016/j.apenergy.2016.08.027
P22 PCM storage	Eutectic Na₂CO₃-NaCl salt: A new phase change material for high temperature thermal storage. Jiang, Y.; Sun, Y.; Liu, M.; Bruno, F.; Li, S. (2016) Solar Energy Materials & Solar Cells, Volume 152 (2016) 155-160. https://doi.org/10.1016/j.solmat.2016.04.002

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P22 PCM storage	Embodied energy and cost of high temperature thermal energy storage systems for use with concentrated solar power plants. R Jacob, M Belusko, AI Fernández, LF Cabeza, W Saman, F Bruno. (2016) Applied Energy, Volume 180, 15 October 2016, Pages 586-597 https://doi.org/10.1016/j.apenergy.2016.08.027
P22 PCM Storage	A numerical model for thermal energy storage systems utilising encapsulated phase change materials R. Jacob, W. Saman, F. Bruno. (2016) AIP Conference Proceedings 1734, 050020. https://doi.org/10.1063/1.4949118
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P31 sCO ₂ systems - Power blocks	Evaluation of Power Block Arrangements for 100MW Scale Concentrated Solar Thermal Power Generation Using Top-Down Design. Post, Alex; Beath, Andrew; Sauret, Emilie; Persky, Rodney. (2016) AIP Publishing; 2017. 1-8, SolarPACES 2016; 11-14 October 2016; Abu Dhabi, UAE https://doi.org/10.1063/1.4984382
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P31 sCO ₂ systems - Power blocks	CFD simulation of a supercritical carbon dioxide radial-inflow turbine, comparing the results of using real gas equation of estate and real gas property file. Odabaee, Mostafa, Sauret, Emilie and Hooman, Kamel. (2016) Applied Mechanics and Materials, (2016) 846 85-90. http://dx.doi.org/10.4028/www.scientific.net/AMM.846.85
P31 sCO ₂ systems - Power blocks	Effect of operating conditions on the elastohydrodynamic performance of foil thrust bearings for supercritical CO₂ cycles. Qin, K., Jahn, I., Jacobs, P. (2016) Journal of Engineering for Gas Turbines and Power, 139 4: 042505-1-042505-10. https://doi.org/10.1115/1.4034723

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P01 OEM	Techno-economic Analysis of Supercritical Carbon Dioxide Power Blocks. Mehdi Aghaei Meybodi, Andrew Beath, Stephen Gwynn-Jones, Anand Veeraragavan, Hal Gurgenci, and Kamel Hooman. (2017) AIP Conference Proceedings 1850, 060001 (1-8), SolarPACES, Abu Dhabi, UAE, 11–14 October. https://doi.org/10.1063/1.4984409
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