

Research Area	Publication Title + Authors + Full Citation + DOI
P1.1 Heliostats	<a href="#">A review of static and dynamic heliostat wind loads</a> Matthew Emes, Azadeh Jafari, Andreas Pfahl, Joe Coventry, Maziar Arjomandi (2021) Solar Energy, Volume 225, 2021, Pages 60-82, ISSN 0038-092X. <a href="https://doi.org/10.1016/j.solener.2021.07.014">https://doi.org/10.1016/j.solener.2021.07.014</a>
	<a href="#">Wire mesh fences for manipulation of turbulence energy spectrum</a> Jafari, A., Emes, M., Cazzolato, B., Ghanadi, F. and Arjomandi, M. (2021) Experiments in Fluids, 62(2), 30. <a href="https://doi.org/10.1007/s00348-021-03133-7">https://doi.org/10.1007/s00348-021-03133-7</a>
P1.2 Sodium Receiver	<a href="#">MDBA: An accurate and efficient method for aiming heliostats</a> Shuang Wang, Charles-Alexis Asselineau, William R. Logie, John Pye, Joe Coventry (2021) Solar Energy, Volume 225, 2021, Pages 694-707, ISSN 0038-092X. <a href="https://doi.org/10.1016/j.solener.2021.07.059">https://doi.org/10.1016/j.solener.2021.07.059</a>
	<a href="#">CSP Gen3: Liquid-Phase Pathway to SunShot</a> Craig Turchi, Samuel Gage, Janna Martinek, Sameer Jape, Ken Armijo, Joe Coventry, John Pye, Charles-Alexis Asselineau, Felix Venn, William R. Logie, Armando Fontalvo, Shuang Wang, Robbie McNaughton, Daniel Potter, Theodore Steinberg, Geoffrey Will (2021) National Renewable Energy Laboratory, 2021. NREL/TP-5700-79323. <a href="https://doi.org/10.2172/1807668">https://doi.org/10.2172/1807668</a>
P1.4 Particle Receiver	<a href="#">Particle velocity measurement within a free-falling particle curtain using microscopic shadow velocimetry</a> Shipu Han, Zhiwei Sun, Zhao Feng Tian, Timothy Lau, and Graham Nathan (2021) Opt. Express 29, 10923-10938 (2021) <a href="https://doi.org/10.1364/OE.421017">https://doi.org/10.1364/OE.421017</a>
	<a href="#">A new numerical method for determining heat transfer and packing distribution in particle heat exchangers for concentrated solar power</a> S. Kuruneru, Y.C. Soo Too, J.-S. Kim (2021) Int. J. of Heat and Fluid Flow, 90, 108805. <a href="https://doi.org/10.1016/j.ijheatfluidflow.2021.108805">https://doi.org/10.1016/j.ijheatfluidflow.2021.108805</a>
P1.7 Particle Receiver	<a href="#">Development of a staged particle heat exchanger for particle thermal energy storage system</a> Y.C. Soo Too et al. (2021) Solar Energy, 220, 111-118. <a href="https://doi.org/10.1016/j.solener.2021.03.014">https://doi.org/10.1016/j.solener.2021.03.014</a>
	<a href="#">A coupled CFD-DEM approach to model the in-trough mixing in a multi-stage solar particle receiver</a> S. Kuruneru, J.-S. Kim, Y.C. Soo Too, D. Potter (2021) Energy Reports, Vol 7, No 2021, pp 5510-5526. <a href="https://doi.org/10.1016/j.egy.2021.08.179">https://doi.org/10.1016/j.egy.2021.08.179</a>
	<a href="#">A preliminary investigation of surface erosion rates in particle-based solar receivers</a> Kuruneru, S.T.W., Kim, J.S. (2021) (extended abstract) APSRC 16-17 December, UNSW Sydney, Australia

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P2.1 High Temperature Thermal Energy Storage	<p><a href="#">Mathematical modelling of heat transmission in the temperature history apparatus by using inverse method to evaluate the latent heat of high temperature PCMs</a>                      Omaraa, E., Farah, S., Alemu, A., Saman, W., Bruno, F., Liu, M.                      (2021) International Journal of Heat and Mass Transfer, vol. 167, article no. 120825, pp. 1-13. DOI: 10.1016/j.ijheatmasstransfer.2020.120825</p>
	<p><a href="#">Review and characterisation of high-temperature phase change material candidates between 500 C and 700°C</a>                      Liu, M., Omaraa, E.S., Qi, J., Haseli, P., Ibrahim, J., Sergeev, D., Müller, M., Bruno, F., Majewski, P.,                      (2021) Renewable and Sustainable Energy Reviews, 150, art. no. 111528. DOI: 10.1016/j.rser.2021.111528</p>
	<p><a href="#">A novel, low-cost and robust method for determining molten salt density at high temperatures</a>                      Severino, J., Jacob, R., Belusko, M., Liu, M., Bruno, F.,                      (2021) Journal of Energy Storage, 41, art. no. 102935. DOI: 10.1016/j.est.2021.102935</p>
	<p><a href="#">Experimental phase diagram study of the binary KCl-Na<sub>2</sub>CO<sub>3</sub> system</a>                      Haseli, P, Jacob, R, Liu, M, Majewski, F, Christo &amp; Bruno                      (2021) Thermochimica Acta, vol. 695, no. 178811, pp. 1–10. DOI: 10.1016/j.tca.2020.178811</p>
	<p><a href="#">Techno-economic analysis on the design of sensible and latent heat thermal energy storage systems for concentrated solar power plants</a>                      Liu, M., Jacob, R., Belusko, M., Riahi, S., Bruno, F.                      (2021) Renewable Energy, 178, pp. 443-455. DOI: 10.1016/j.renene.2021.06.069</p>
	<p><a href="#">Design of sensible and latent heat thermal energy storage systems for concentrated solar power plants: Thermal performance analysis</a>                      Liu, M., Riahi, S., Jacob, R., Belusko, M., Bruno, F.                      (2020) Renewable Energy, 151, pp. 1286-1297. DOI: 10.1016/j.renene.2019.11.115</p>
	<p><a href="#">Assessment of exergy delivery of thermal energy storage systems for CSP plants: Cascade PCMs, graphite-PCMs and two-tank sensible heat storage systems</a>                      Riahi, S., Liu, M., Jacob, R., Belusko, M., Bruno, F.                      (2020) Sustainable Energy Technologies and Assessments, 42, art. no. 100823. DOI: 10.1016/j.seta.2020.100823</p>
	<p><a href="#">Corrosion interface formation in thermally cycled stainless steel 316 with high-temperature phase change material</a>                      Yin, Y, Rumman, R, Chambers, BA, Liu, M, Jacob, R, Belusko, M, Bruno, F, Lewis, DA &amp; Andersson, GG                      (2021) Solar Energy Materials and Solar Cells, vol. 225, article no. 111062, pp. 1-10. DOI: 10.1016/j.solmat.2021.111062</p>
	<p><a href="#">Chemical degradation in thermally cycled stainless steel 316 with high-temperature phase change material</a>                      Yin, Y, Rumman, R, Chambers, BA, Liu, M, Jacob, R, Bruno, F, Belusko, M, Lewis, DA &amp; Andersson, GG                      (2021) Solar Energy Materials and Solar Cells, vol. 230, article no. 111216, pp. 1-14. DOI: 10.1016/j.solmat.2021.111216</p>
	<p><a href="#">Investigation of the effect of thermal resistance on the performance of phase change materials</a>                      Opolot, M., Zhao, C., Liu, M., Mancin, S., Bruno, F., Hooman, K.                      (2021) International Journal of Thermal Sciences, vol. 164, article no. 106852, pp. 1-13. DOI: 10.1016/j.ijthermalsci.2021.106852</p>
	<p><a href="#">Phase change behaviour study of PCM tanks partially filled with graphite foam</a>                      Zhao, C, Opolot, M, Liu, M, Bruno, F, Mancin, S &amp; Hooman, K                      (2021) Applied Thermal Engineering, vol. 196, article no. 117313, pp. 1-15. DOI: 10.1016/j.applthermaleng.2021.117313</p>
	<p><a href="#">Simulations of melting performance enhancement for a PCM embedded in metal periodic structures</a>                      Zhao, C, Opolot, M, Liu, M, Bruno, F, Mancin, S, Flewell-Smith, R &amp; Hooman, K</p>

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	(2021) International Journal of Heat and Mass Transfer, vol. 168, article no. 120853, pp. 1-14. DOI: 10.1016/j.ijheatmasstransfer.2020.120853
Research Area	Publication Title + Authors + Full Citation + DOI
<b>P2.2 Heat Exchangers</b>	<a href="#">Transient Thermo-mechanical analysis of a shell and tube latent heat thermal energy storage for CSP plants</a> Riahi, S., Evans, M., Belusko, M., Flewell-Smith, R., Jacob, R., Bruno, F. (2021) Applied Thermal Engineering, 196, art. no. 117327. DOI 10.1016/j.applthermaleng.2021.117327
	<a href="#">Review and characterisation of high-temperature phase change material candidates between 500 C and 700°C</a> Liu, M., Omaraa, E.S., Qi, J., Haseli, P., Ibrahim, J., Sergeev, D., Müller, M., Bruno, F., Majewski, P., (2021) Renewable and Sustainable Energy Reviews, 150, art. no. 111528. DOI 10.1016/j.rser.2021.111528
	<a href="#">A novel, low-cost and robust method for determining molten salt density at high temperatures</a> Severino, J., Jacob, R., Belusko, M., Liu, M., Bruno, F., (2021) Journal of Energy Storage, 41, art. no. 102935. DOI 10.1016/j.est.2021.102935
	<a href="#">Experimental phase diagram study of the binary KCl-Na<sub>2</sub>CO<sub>3</sub> system</a> Haseli, P, Jacob, R, Liu, M, Majewski, F, Christo & Bruno (2021) Thermochemica Acta, vol. 695, no. 178811, pp. 1–10. DOI 10.1016/j.tca.2020.178811
	<a href="#">Hydrothermal Assessment of Different Configurations for a High Temperature sodium-sCO<sub>2</sub> Printed Circuit Heat Exchanger</a> Riahi, S., Belusko, M., Lau, T., Flewell-Smith, R., Evans, M., Bruno, F. (2022) (Under Review), International Journal of Heat and Mass Transfer
Research Area	Publication Title + Authors + Full Citation + DOI
<b>P2.3 Storage Technology Options</b>	<a href="#">Packed bed thermal energy storage with sodium as the heat transfer fluid</a> Joe Coventry, Juan Torres, Zebedee Kee, Mehdi Vahabzadeh Bozorg, Mahdiar Taheri, Ahmad Mojir1, John Pye, Stuart Bell, Geoffrey Will, Ted Steinberg (2021) (extended abstract) APSRC 16-17 December, UNSW Sydney, Australia
Research Area	Publication Title + Authors + Full Citation + DOI
<b>P3.4 Power Block</b>	<a href="#">Design a cooling pillow to support a high-speed supercritical CO<sub>2</sub> turbine shaft</a> Md. Uddin, Halim Gurgenci, ZhiqiangGuan, AlexKlimenko, JunLi, JishunLi. (2021) Applied Thermal Engineering, Elsevier, Volume 196, 2021, 117345.
	<a href="#">Numerical study of melting performance enhancement for PCM in an annular enclosure with internal-external fins and metal foams</a> C.R. Zhao, M. Opolot, M. Liu, F. Bruno, S. Mancin, K. Hooman. (2020) International Journal of Heat and Mass Transfer, 2020, 150: 119348.
	<a href="#">Simulations of melting performance enhancement for a PCM embedded in metal periodic structures</a> C.R. Zhao, M. Opolot, M. Liu, F. Bruno, S. Mancin, R. Flewell-Smith, K. Hooman. (2021) International Journal of Heat and Mass Transfer, 2021, 168: 120853.

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	<p><a href="#">Phase change behaviour study of PCM tanks partially filled with graphite foam</a> C.R. Zhao, M. Opolot, M. Liu, F. Bruno, S. Mancin, K. Hooman. (2021) Applied Thermal Engineering, 2021, 196: 117313.</p> <p><a href="#">Review of Analytical Studies of Melting Rate Enhancement with Fin and/or Foam Inserts</a> C.R. Zhao, M. Opolot, M. Liu, J. Wang, F. Bruno, S. Mancin, K. Hooman. (2021) Applied Thermal Engineering, 2022: 118154.</p>
Research Area	Publication Title + Authors + Full Citation + DOI
<b>P4.1 HyS Cycle</b>	<p><a href="#">Integration assessment of the hybrid sulphur cycle with a copper production plant</a> Ahmad Seyfaee, Mehdi Jafarian, Gkiokchan Moumin, , Claudio Corgnale, Christian Sattler Graham J.Nathan (2021) Energy Conversion and Management, Volume 249, page: 114832 DOI: <a href="https://doi.org/10.1016/j.enconman.2021.114832">https://doi.org/10.1016/j.enconman.2021.114832</a></p>
Research Area	Publication Title + Authors + Full Citation + DOI
<b>P4.2 Commercial Application of STEM Technologies</b>	<p><a href="#">Identifying Pathways to Commercial Application of Beam-Down Solar Particle Technology in Mining and Off-Grid Applications in Australia</a> Chinnici et al. (2021) (extended abstract) APSRC 16-17 December, UNSW Sydney, Australia</p> <p><a href="#">Liquid fuel production via supercritical water gasification of algae: a role for solar heat integration?, 2021</a> MB Venkataraman, A Rahbari, P van Eyk, AW Weimer, W Lipiński, J Pye (2021) Sustainable Energy &amp; Fuels 6 (doi:10.1039/D1SE01615F)</p> <p><a href="#">Methanol fuel production from solar-assisted supercritical water gasification of algae: A techno-economic annual optimisation, 2021</a> A Rahbari, A Shirazi, J Pye (2021) Sustainable Energy &amp; Fuels 5 (doi:10.1039/D1SE00394A), 4913-4931</p>
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<b>P4.3 Photocatalysis</b>	<p><a href="#">Au101-rGO nanocomposite: immobilization of phosphine-protected gold nanoclusters on reduced graphene oxide without aggregation</a> Mousavi et al. (2021) Nanoscale Advances (2021); doi: 10.1039/D0NA00927J</p> <p><a href="#">Investigation of the Diffusion of Cr2O3 into Different Phases of TiO2 upon Annealing</a> Alotabi et al. (2021) ACS Applied Energy Materials (2021); doi.org/10.1021/acsaem.0c02270</p> <p><a href="#">Sub-monolayer Au&lt;sub&gt;9&lt;/sub&gt; Cluster Formation via Pulsed Nozzle Cluster Deposition</a> Daughtry et al, (2020) Nanoscale Advances (2020); <a href="https://doi.org/10.1039/D0NA00566E">https://doi.org/10.1039/D0NA00566E</a></p> <p><a href="#">Gas phase Photocatalytic Water Splitting of Moisture in Ambient Air: Toward Reagent-Free Hydrogen Production</a> Shearer et al., J.</p>

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	(2020) Photochem A (2020); doi.org/10.1016/j.jphotochem.2020.112757
	<a href="#">Activation of Water-Splitting Photocatalysts by Loading with Ultrafine Rh–Cr Mixed-Oxide Co-catalyst Nanoparticles</a> Kurashige et al., (2020) Angewandte Chemie (2020). <a href="https://doi.org/10.1002/anie.201916681">https://doi.org/10.1002/anie.201916681</a>
	<a href="#">Cr<sub>2</sub>O<sub>3</sub> Layer Inhibits Agglomeration of Phosphine-Protected Au<sub>9</sub> Clusters on TiO<sub>2</sub> Films</a> Alotabi et al., (2021) Journal of Chemical Physics (2021); doi.org/10.1063/5.0059912
	<a href="#">Simple and High-Yield Preparation of Carbon-Black-Supported ~1-nm Platinum Nanoclusters with Superior Oxygen Reduction Reactivity</a> Kawawaki et al., (2021) Nanoscale (2021); doi.org/10.1039/D1NR04202E
	<a href="#">Creation of High-Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster</a> Kawawaki et al., (2021) Angewandte Chemie (2021); doi.org/10.1002/anie.202104911
	<a href="#">The interaction of size-selected Ru<sub>3</sub> clusters with RF-deposited TiO<sub>2</sub>: probing Ru–CO binding sites with CO-Temperature Programmed Desorption</a> Howard-Fabretto et al., (2021) Nanoscale Advances (2021); doi: 10.1039/D1NA00181G
	<a href="#">Ultrafast Energy Transfer and Relaxation Dynamics of the Atomically-Precise Au<sub>9</sub> Cluster</a> Madrdejos et al., (2021) Journal of Physical Chemistry (2021); doi.org/10.1021/acs.jpcc.0c08838
	<a href="#">Investigation of the Diffusion of Cr<sub>2</sub>O<sub>3</sub> into Different Phases of TiO<sub>2</sub> upon Annealing</a> Alotabi et al., (2021) ACS Applied Energy Materials (2021); doi.org/10.1021/acsaem.0c02270
	<a href="#">Sub-monolayer Au<sub>9</sub> Cluster Formation via Pulsed Nozzle Cluster Deposition</a> Daughtry et al., (2021) Nanoscale Advances (2020); <a href="https://doi.org/10.1039/D0NA00566E">https://doi.org/10.1039/D0NA00566E</a>
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<b>P4.4 SDFB</b>	<a href="#">Interactions of Olivine and Silica Sand with Potassium- or Silicon-Rich Agricultural Residues under Combustion, Steam Gasification, and CO<sub>2</sub> Gasification</a> Li, G., Nathan, G. J., Kuba, M., Ashman, P. J., & Saw, W. L.

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	(2021) Industrial and Engineering Chemistry Research, 60(39), 14354-14369. <a href="https://doi.org/10.1021/acs.iecr.1c02579">https://doi.org/10.1021/acs.iecr.1c02579</a>
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<b>P4.5 Decarbonisation of Steelmaking</b>	<p><a href="#">Solar-thermal beneficiation of iron ore: System-level dynamic simulation and techno-economic optimization</a> A Rahbari, A Fontalvo and J Pye (2022) (under review with Applied Thermal Engineering)</p> <p><a href="#">Solar-thermal sintering of iron ore: System-level dynamic simulation and techno-economic optimization</a> A Rahbari, M Zheng, C Corsi, G Gunawan Gan and J Pye (2022) (awaiting submission)</p>
Research Area	Publication Title + Authors + Full Citation + DOI
<b>P5.3 Advanced Materials</b>	<p><a href="#">An innovative empirical method for the accurate identification of the eutectic point of binary salts for Solar Thermal Energy Storage</a> Ong, T.C., Wickham, E., Will, G., Steinberg, T.A., (2021) Materials Today Communications, Nov. 2020. doi/10.1016/j.mtcomm.2020.101864.</p> <p><a href="#">An Improved Technique for Molten Salt Corrosion Sample Preparation</a> Lippiatt, K., Bell, S., Cheng-Ong, T., East, C., McAuley, D., Will, G., and Steinberg, T., (2021) Solar Energy Materials and Solar Cells, Vol. 226, July 2021, doi.org/10.1016/j.solmat.2021.111057</p> <p><a href="#">Chemical Degradation in Thermally Cycled Stainless Steel 316 with High-Temperature Phase Change Material</a> Yanting Yin, Raihan Rumman, Benjamin A. Chambers, Ming Liu, Rhys Jacob, Frank Bruno, Martin Belusko, David A. Lewis, and Gunther G. Andersson (2021) Solar Energy Materials and Solar Cells 2021, 230. DOI: 10.1016/j.solmat.2021.111216</p> <p><a href="#">Aggressive corrosion of C-276 nickel superalloy in chloride/sulphate eutectic salt</a> Bell, S., Rhamdami, M.A., Will, G., Steinberg, T. A., (2021) Solar Energy, Vol 227, October 2021, Pages 557-567. <a href="https://doi.org/10.1016/j.solener.2021.09.023">https://doi.org/10.1016/j.solener.2021.09.023</a>.</p> <p><a href="#">Corrosion mechanism of SS316L exposed to NaCl/Na2CO3 molten salt in air and argon environments</a> Bell, S., Jones, M.W.M., Graham, E., Peterson, D.J., van Riesen, G.A., Hinsley, G., Rhamdami, M.A., Will, G., Steinberg, T. A., (2021) Corrosion Science, Vol 195, Feb. 2022. <a href="https://doi.org/10.1016/j.corsci.2021.109966">https://doi.org/10.1016/j.corsci.2021.109966</a></p> <p><a href="#">Corrosion Interface Formation in Thermally Cycled Stainless Steel 316 with High-Temperature Phase Change Material.</a> Yanting Yin, Raihan Rumman, Benjamin A. Chambers, Ming Liu, Rhys Jacob, Frank Bruno, Martin Belusko, David A. Lewis, and Gunther G. Andersson (2021) Solar Energy Materials and Solar Cells 2021, 225. DOI: 10.1016/j.solmat.2021.111062</p> <p><a href="#">Identifying structural integrity issues for molten salt phase change material thermal storage systems from corrosion behaviour</a> V. Gray, K. Lippiatt, S. Bell, S. Maher, M. Sarvghad, T. Ong, G. Will and T. Steinberg (2020) AIP Conf. Proc., vol. 2303, no. 1, p. 020003, Dec. 2020, doi: 10.1063/5.0028680.</p> <p><a href="#">Review of the solubility, monitoring, and purification of impurities in molten salts for energy storage in concentrated solar power plants</a> T.C. Ong, M. Sarvghad, K. Lippiatt, L. Griggs, H. Ryan, G. Will, and T.A. Steinberg, (2020) Renew. Sustain. Energy Rev., vol. 131, p. 110006, Oct. 2020, doi: 10.1016/j.rser.2020.110006.</p>

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P5.4 O + M	<a href="#">Sectorial reflectance-based cleaning policy of heliostats for Solar Tower power plants</a> Truong-Ba H, Cholette ME, Picotti G, Steinberg TA, Manzolini G. (2021) Renew Energy, 2020;166:176–89. <a href="https://doi.org/10.1016/j.renene.2020.11.129">https://doi.org/10.1016/j.renene.2020.11.129</a> .
	<a href="#">Object-Oriented Modelling of an External Receiver for Solar Tower Application: Dynamic Simulation and Impact of Soiling</a> G. Picotti et al., (2020) Conference paper published in AIP proceedings (SolarPACES 2019);, doi: 10.1063/5.0028515
	<a href="#">Evaluation of reflectance measurement techniques for artificially soiled solar reflectors: Experimental campaign and model assessment</a> Picotti, G., Simonetti, R., Schmidt, T., Cholette, M.E., Heimsath, A., Ernst, S.J., Manzolini, G., 2021. (2021) Sol. Energy Mater. Sol. Cells 231, 111321. <a href="https://doi.org/10.1016/j.solmat.2021.111321">https://doi.org/10.1016/j.solmat.2021.111321</a>
	<a href="#">Optimization of cleaning strategies for heliostat fields in solar tower plants</a> G. Picotti, L. Moretti, M.E. Cholette, M. Binotti, R. Simonetti, E. Martelli, T.A. Steinberg, G. Manzolini (2020) Sol. Energy, vol. 204, pp. 501–514, Jul. 2020, doi: 10.1016/j.solener.2020.04.032.

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P6.1 System Modelling	System modelling and optimisation of a particle-based CSP system P Gunawan, Y Wang, J Pye (2021) Technical Report, Solar Thermal Group, Australian National University.
	<a href="#">MDBA: An accurate and efficient method for aiming heliostats</a> S Wang, CA Asselineau, WR Logie, J Pye, J Coventry (2021) Solar Energy 225 (doi:10.1016/j.solener.2021.07.059), 694-707
	<a href="#">CSP Gen3: Liquid-Phase Pathway to SunShot</a> Craig Turchi, Samuel Gage, Janna Martinek, Sameer Jape, Ken Armijo, Joe Coventry, John Pye, Charles-Alexis Asselineau, Felix Venn, Logie. William, Armando Fontalvo, Shuang Wang, Robbie McNaughton, Daniel Potter, Theodore Steinberg, Geoffrey Will (2021) <a href="https://www.osti.gov/servlets/purl/1807668">https://www.osti.gov/servlets/purl/1807668</a>
	<a href="#">Molten Salt vs. Liquid Sodium Receiver Selection Using the Analytic Hierarchy Process</a> CS Turchi, C Libby, J Pye, J Coventry (2021) National Renewable Energy Lab.(NREL), Golden, CO (United States)

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P6.2 Opportunity Assessment	<a href="#">Identification and techno-economic assessment of potential enhancement of existing biomass power generators with concentrated solar thermal input</a> Andrew Beath, Mehdi Aghaei Meybodi. (2021) Journal of Renewable and Sustainable Energy 13, 053702 (2021); <a href="https://doi.org/10.1063/5.0057669">https://doi.org/10.1063/5.0057669</a>