

**Annexure-I : List of Research Publications related to SDG-7 and SDG-13
published by Shoolini University**

Title	Authors	Year	Journal Title	DOI
Performance analysis outcome of a 19-MWp commercial solar photovoltaic plant with fixed-tilt, adjustable-tilt, and solar tracking configurations	Rahul Chandel Shyam Singh Chandel	2021	Progress in Photovoltaics	https://doi.org/10.1002/pip.3458
Recent advances in net-zero energy greenhouses and adapted thermal energy storage systems	Gorjian, S. Ebadi, H. Najafi, G. Singh Chandel, S. Yildizhan, H.	2021	Sustainable Energy Technologies and Assessments	10.1016/j.seta.2020.100940
A new integrated single-diode solar cell model for photovoltaic power prediction with experimental validation under real outdoor conditions	Malik, P. Chandel, S.S.	2021	International Journal of Energy Research	10.1002/er.5881
A power prediction model and its validation for a roof top photovoltaic power plant considering module degradation	Malik, P. Chandel, R. Chandel, S.S.	2021	Solar Energy	10.1016/j.solener.2021.06.015
Novel Approach to Investigate the Influence of Optimum Tilt Angle on Minimum Cost of Energy-Based Maximum Power Generation and Sizing of PV Systems: A Case Study of Diverse Climatic Zones in India	Yadav, A.K. Malik, H. Chandel, S.S. Khan, I.A. Otaibi, S.A. Alkhamash, H.I.	2021	IEEE Access	10.1109/ACCESS.2021.3102153
Perspective of new innovative biogas technology policy implementation for sustainable development in India	Aggarwal, R.K. Chandel, S.S. Yadav, P. Khosla, A.	2021	Energy Policy	10.1016/j.enpol.2021.112666
Investigation of a building-integrated solar photovoltaic-wind-battery hybrid energy system: A case study	Sinha, S. Chandel, S.S. Malik, P.	2021	International Journal of Energy Research	10.1002/er.7184

Construction of dual Z-scheme g-C ₃ N ₄ /Bi ₄ Ti ₃ O ₁₂ /Bi ₄ O ₅ I ₂ heterojunction for visible and solar powered coupled photocatalytic antibiotic degradation and hydrogen production: Boosting via I ⁻ /I ₃ ⁻ and Bi ³⁺ /Bi ⁵⁺ redox mediators	Kumar, A. Sharma, G. Kumari, A. Guo, C. Naushad, M. Vo, D.-V.N. Iqbal, J. Stadler, F.J.	2021	Applied Catalysis B: Environmental	10.1016/j.apcatb.2020.119808
Recent advances in photocatalytic multivariate metal organic frameworks-based nanostructures toward renewable energy and the removal of environmental pollutants	Patial, S. Raizada, P. Hasija, V. Singh, P. Thakur, V.K. Nguyen, V.-H.	2021	Materials Today Energy	10.1016/j.mtener.2020.100589
Step-scheme heterojunction photocatalysts for solar energy, water splitting, CO ₂ conversion, and bacterial inactivation: a review	Hasija, V. Kumar, A. Sudhaik, A. Raizada, P. Singh, P. Van Le, Q. Le, T.T. Nguyen, V.-H.	2021	Environmental Chemistry Letters	10.1007/s10311-021-01231-w
Surface defect engineering of metal oxides photocatalyst for energy application and water treatment	Raizada, P. Soni, V. Kumar, A. Singh, P. Parwaz Khan, A.A. Asiri, A.M. Thakur, V.K. Nguyen, V.-H.	2021	Journal of Materiomics	10.1016/j.jmat.2020.10.009
An overview on advancements in biobased transesterification methods for biodiesel production: Oil resources, extraction, biocatalysts, and process intensification technologies	Kant Bhatia, S. Kant Bhatia, R. Jeon, J.-M. Pugazhendhi, A. Kumar Awasthi, M. Kumar, D. Kumar, G. Yoon, J.-J. Yang, Y.-H.	2021	Fuel	10.1016/j.fuel.2020.119117

An overview on polymeric carbon nitride assisted photocatalytic CO ₂ reduction: Strategically manoeuvring solar to fuel conversion efficiency	Kumar, A. Raizada, P. Kumar Thakur, V. Saini, V. Aslam Parwaz Khan, A. Singh, N. Singh, P.	2021	Chemical Engineering Science	10.1016/j.ces.2020.116219
Indium sulfide-based photocatalysts for hydrogen production and water cleaning: a review	Soni, V. Raizada, P. Kumar, A. Hasija, V. Singal, S. Singh, P. Hosseini-Bandegharai, A. Thakur, V.K. Nguyen, V.-H.	2021	Environmental Chemistry Letters	10.1007/s10311-020-01148-w
Novel Z-Scheme ZnIn ₂ S ₄ -based photocatalysts for solar-driven environmental and energy applications: Progress and perspectives	Kumar, Y. Kumar, R. Raizada, P. Khan, A.A.P. Le, Q.V. Singh, P. Nguyen, V.-H.	2021	Journal of Materials Science and Technology	10.1016/j.jmst.2021.01.051
The emerging covalent organic frameworks (COFs) for solar-driven fuels production	Xia, C. Kirlikovali, K.O. Nguyen, T.H.C. Nguyen, X.C. Tran, Q.B. Duong, M.K. Nguyen Dinh, M.T. Nguyen, D.L.T. Singh, P. Raizada, P. Nguyen, V.-H. Kim, S.Y. Singh, L. Nguyen, C.C. Shokouhimehr, M. Le, Q.V.	2021	Coordination Chemistry Reviews	10.1016/j.ccr.2021.214117

<p>An overview of converting reductive photocatalyst into all solid-state and direct Z-scheme system for water splitting and CO₂ reduction</p>	<p>Raizada, P. Kumar, A. Hasija, V. Singh, P. Thakur, V.K. Khan, A.A.P.</p>	<p>2021</p>	<p>Journal of Industrial and Engineering Chemistry</p>	<p>10.1016/j.jiec.2020.09.006</p>
<p>Boosting light-driven CO₂ reduction into solar fuels: Mainstream avenues for engineering ZnO-based photocatalysts</p>	<p>Patial, S. Kumar, R. Raizada, P. Singh, P. Van Le, Q. Lichtfouse, E. Le Tri Nguyen, D. Nguyen, V.-H.</p>	<p>2021</p>	<p>Environmental Research</p>	<p>10.1016/j.envres.2021.111134</p>
<p>Valorization of Wastewater Resources Into Biofuel and Value-Added Products Using Microalgal System</p>	<p>Arora, K. Kaur, P. Kumar, P. Singh, A. Patel, S.K.S. Li, X. Yang, Y.-H. Bhatia, S.K. Kulshrestha, S.</p>	<p>2021</p>	<p>Frontiers in Energy Research</p>	<p>10.3389/fenrg.2021.646571</p>
<p>A review study on the active methods of heat transfer enhancement in heat exchangers using electroactive and magnetic materials</p>	<p>Thapa, S. Samir, S. Kumar, K. Singh, S.</p>	<p>2021</p>	<p>Materials Today: Proceedings</p>	<p>10.1016/j.matpr.2021.01.382</p>

Advances and recent trends in cobalt-based cocatalysts for solar-to-fuel conversion	Soni, V. Xia, C. Cheng, C.K. Nguyen, V.-H. Nguyen, D.L.T. Bajpai, A. Kim, S.Y. Le, Q.V. Khan, A.A.P. Singh, P. Raizada, P.	2021	Applied Materials Today	10.1016/j.apmt.2021.101074
Nanoconfinement effects on hydrogen storage properties of MgH ₂ and LiBH ₄	Le, T.T. Pistidda, C. Nguyen, V.H. Singh, P. Raizada, P. Klassen, T. Dornheim, M.	2021	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2021.04.150
Local surface plasmon resonance assisted energy harvesting in thin film organic solar cells	Mola, G.T. Mthethwa, M.C. Hamed, M.S.G. Adedeji, M.A. Mbuyise, X.G. Kumar, A. Sharma, G. Zang, Y.	2021	Journal of Alloys and Compounds	10.1016/j.jallcom.2020.158172
Elevated Cr(VI) reduction in a biocathode microbial fuel cell without acclimatization inversion based on strain <i>Corynebacterium vitacruminis</i> LZU47-1	Zhao, S. Chen, Z. Khan, A. Wang, J. Kakade, A. Kulshrestha, S. Liu, P. Li, X.	2021	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2020.05.254
Wheat and maize-derived water-washed and unwashed biochar improved the nutrients phytoavailability and the grain and straw yield of rice and wheat: A field trial for sustainable management of paddy soils	Korai, P.K. Sial, T.A. Pan, G. Abdelrahman, H. Sikdar, A. Kumbhar, F. Channa, S.A. Ali, E.F. Zhang, J. Rinklebe, J. Shaheen, S.M.	2021	Journal of Environmental Management	10.1016/j.jenvman.2021.113250

Negatively-Doped Conducting Polymers for Oxygen Reduction Reaction	Vagin, M. Gueskine, V. Mitraka, E. Wang, S. Singh, A. Zozoulenko, I. Berggren, M. Fabiano, S. Crispin, X.	2021	Advanced Energy Materials	10.1002/aenm.202002664
A Strategy to Develop Efficient Ag ₃ PO ₄ -based Photocatalytic Materials Toward Water Splitting: Perspectives and Challenges	Hasija, V. Raizada, P. Hosseini-Bandegharai, A. Thakur, V.K. Van Le, Q. Nguyen, V.-H. Singh, P.	2021	ChemCatChem	10.1002/cctc.202100135
Thermal augmentation in evacuated tube solar collectors using reflectors, nano fluids, phase change materials and tilt angle: A review	Aggarwal, S. Kumar, S. Kumar, R. Thakur, R.	2021	Materials Today: Proceedings	10.1016/j.matpr.2021.01.371
Toward practical solar-driven photocatalytic water splitting on two-dimensional MoS ₂ based solid-state Z-scheme and S-scheme heterostructure	Raizada, P. Nguyen, T.H.C. Patial, S. Singh, P. Bajpai, A. Nguyen, V.-H. Nguyen, D.L.T. Cuong Nguyen, X. Aslam Parwaz Khan, A. Rangabhashiyam, S. Young Kim, S. Le, Q.V.	2021	Fuel	10.1016/j.fuel.2021.121302
Impact of perforated shapes in delta type hindrance promoter on thermo-hydraulic performance of solar water heating system (An experimental study)	Khargotra, R. Kumar, R. Kumar, S.	2021	Case Studies in Thermal Engineering	10.1016/j.csite.2020.100831
Review of developments on flat plate solar collectors for heat transfer enhancements using phase change materials and reflectors	Thakur, A. Kumar, R. Kumar, S. Kumar, P.	2021	Materials Today: Proceedings	10.1016/j.matpr.2021.02.120

Influence of hindrance promoter on the thermal augmentation factor of solar water heater (an experimental study)	Khargotra, R. Kumar, S. Kumar, R.	2021	Renewable Energy	10.1016/j.renene.2020.08.146
Micro-pollutant Pb(II) mitigation and lipid induction in oleaginous microalgae <i>Chlorella sorokiniana</i> UUIND6	Nanda, M. Jaiswal, K.K. Kumar, V. Vlaskin, M.S. Gautam, P. Bahuguna, V. Chauhan, P.K.	2021	Environmental Technology and Innovation	10.1016/j.eti.2021.101613
Pharmaceutical pollutant as sacrificial agent for sustainable synergistic water treatment and hydrogen production via novel Z-scheme Bi7O9I3/B4C heterojunction photocatalysts	Rana, A. Kumar, A. Sharma, G. Naushad, M. Bathula, C. Stadler, F.J.	2021	Journal of Molecular Liquids	10.1016/j.molliq.2021.117652
Pharmaceutical pollutant as sacrificial agent for sustainable synergistic water treatment and hydrogen production via novel Z-scheme Bi7O9I3/B4C heterojunction photocatalysts	Rana, A. Kumar, A. Sharma, G. Naushad, M. Bathula, C. Stadler, F.J.	2021	Journal of Molecular Liquids	10.1016/j.molliq.2021.117652
Recent progress and challenges in photocatalytic water splitting using layered double hydroxides (LDH) based nanocomposites	Shandilya, P. Sharma, R. Arya, R.K. Kumar, A. Vo, D.-V.N. Sharma, G.	2021	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2021.08.190
Recent progress and challenges in photocatalytic water splitting using layered double hydroxides (LDH) based nanocomposites	Shandilya, P. Sharma, R. Arya, R.K. Kumar, A. Vo, D.-V.N. Sharma, G.	2021	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2021.08.190
Bioremediation analysis of sediment-microbial fuel cells for energy recovery from microbial activity in soil	Bose, D. Santra, M. Sanka, R.V.S.P. Krishnakumar, B.	2021	International Journal of Energy Research	10.1002/er.6163

Heat transfer and friction factor correlations for an impinging air jets solar thermal collector with arc ribs on an absorber plate	Kumar, R. Nadda, R. Kumar, S. Kumar, K. Afzal, A. Abdul Razak, R.K. Sharifpur, M.	2021	Sustainable Energy Technologies and Assessments	10.1016/j.seta.2021.101523
Experimental investigation of impact of the energy storage medium on the thermal performance of double pass solar air heater	Kumar, R. Gaurav Kumar, S. Afzal, A. Muthu Manokar, A. Sharifpur, M. Issakhov, A.	2021	Sustainable Energy Technologies and Assessments	10.1016/j.seta.2021.101673
Controllable functionalization of g-C ₃ N ₄ mediated all-solid-state (ASS) Z-scheme photocatalysts towards sustainable energy and environmental applications	Sharma, S. Dutta, V. Raizada, P. Khan, A.A.P. Le, Q.V. Thakur, V.K. Biswas, J.K. Selvasembian, R. Singh, P.	2021	Environmental Technology and Innovation	10.1016/j.eti.2021.101972
Computational fluid dynamics based analysis for optimization of various thermal enhancement techniques used in evacuated tubes solar collectors: A review	Aggarwal, S. Kumar, R. Kumar, S. Bhatnagar, M. Kumar, P.	2021	Materials Today: Proceedings	10.1016/j.matpr.2021.04.021
Comparative study for deriving stage-discharge–sediment concentration relationships using soft computing techniques	Sihag, P. Sadikhani, M.R. Vambol, V. Vambol, S. Prabhakar, A.K. Sharma, N.	2021	Journal of Achievements in Materials and Manufacturing Engineering	10.5604/01.3001.0014.8489
Exergetic efficiency analysis of impingement jets integrated with internal conical ring roughened solar heat collector	Kumar, A. Kumar, N. Kumar, S. Maithani, R.	2021	Experimental Heat Transfer	10.1080/08916152.2021.2002466

Exergetic efficiency analysis of impingement jets integrated with internal conical ring roughened solar heat collector	Kumar, A. Kumar, N. Kumar, S. Maithani, R.	2021	Experimental Heat Transfer	10.1080/08916152.2021.2002466
CO2 Reforming of CH4 on Mesoporous Alumina-Supported Cobalt Catalyst: Optimization of Lanthana Promoter Loading	Tran, N.T. Kumar, P.S. Van Le, Q. Van Cuong, N. Phuong, P.T.T. Jalil, A.A. Sharma, G. Kumar, A. Sharma, A. Ayodele, B.V. Abidin, S.Z. Vo, D.-V.N.	2021	Topics in Catalysis	10.1007/s11244-021-01428-x
A comprehensive review of performance analysis of with and without fins solar thermal collector	Kumar, S. Thakur, R. Suri, A.R.S. Kashyap, K. Singhy, A. Kumar, S. Kumar, A.	2021	Frontiers in Heat and Mass Transfer	10.5098/hmt.16.4
A copper-specific microbial fuel cell biosensor based on riboflavin biosynthesis of engineered Escherichia coli	Zhou, T. Li, R. Zhang, S. Zhao, S. Sharma, M. Kulshrestha, S. Khan, A. Kakade, A. Han, H. Niu, Y. Li, X.	2021	Biotechnology and Bioengineering	10.1002/bit.27563
Review of Sustainable Grid-Independent Renewable Energy Access in Remote Communities of India	Bose, D. Saini, D.K. Yadav, M. Shrivastava, S. Parashar, N.	2021	Integrated Environmental Assessment and Management	10.1002/ieam.4373
A review on the simulation/CFD based studies on the thermal augmentation of flat plate solar collectors	Thakur, A. Kumar, S. Kumar, P. Kumar, S. Bhardwaj, A.K.	2021	Materials Today: Proceedings	10.1016/j.matpr.2021.03.550

Review of heat transfer augmentation methods and effect of using dimpled ribs and nanofluids	Suri, A.R.S. Pun, A.K. Al Haque, Md.S.	2021	Materials Today: Proceedings	10.1016/j.matpr.2021.05.702
Nanomaterial conjugated lignocellulosic waste: cost-effective production of sustainable bioenergy using enzymes	Kaur, P. Thakur, M. Tondan, D. Bamrah, G.K. Misra, S. Kumar, P. Pandohee, J. Kulshrestha, S.	2021	3 Biotech	10.1007/s13205-021-03002-4
Nanomaterial conjugated lignocellulosic waste: cost-effective production of sustainable bioenergy using enzymes	Kaur, P. Thakur, M. Tondan, D. Bamrah, G.K. Misra, S. Kumar, P. Pandohee, J. Kulshrestha, S.	2021	3 Biotech	10.1007/s13205-021-03002-4
Potential applications of algae in biochemical and bioenergy sector	Arora, K. Kumar, P. Bose, D. Li, X. Kulshrestha, S.	2021	3 Biotech	10.1007/s13205-021-02825-5
A review of heat removal mechanism in concentrated PVT systems using beam splitter	Kumar, S. Thakur, R. Singhy, A. Tripathi, R.K. Sethi, M.	2021	Materials Today: Proceedings	10.1016/j.matpr.2021.06.355
A review of heat removal mechanism in concentrated PVT systems using beam splitter	Kumar, S. Thakur, R. Singhy, A. Tripathi, R.K. Sethi, M.	2021	Materials Today: Proceedings	10.1016/j.matpr.2021.06.355
Decentralized Solar Energy Access and Assessment of Performance Parameters for Rural Communities in India	Bose, D. Saini, D.K. Yadav, M. Shrivastava, S. Parashar, N.	2021	Sustainability and climate change	10.1089/scc.2020.0050

An energy-efficient and reliable opportunistic routing for wireless sensor networks	Kumar, N. Singh, Y.	2021	International Journal of Sensors, Wireless Communications and Control	10.2174/2210327910999200503033802
A proof of concept for cooperation from the quinone groups adjacent to N sites during the metal-free oxidation of glycerol by nitrogen-rich graphene oxide	Dogra, A. Sharma, V. Barlocco, I. Villa, A. Gupta, N.	2021	New Journal of Chemistry	10.1039/d1nj04226b
Cytosine palladium complex supported on ordered mesoporous silica as highly efficient and reusable nanocatalyst for one-pot oxidative esterification of aldehydes	Rajabi, F. Chia, C.H. Sillanpää, M. Voskressensky, L.G. Luque, R.	2021	Catalysts	10.3390/catal11121482
C-, N-Vacancy defect engineered polymeric carbon nitride towards photocatalysis: Viewpoints and challenges	Kumar, A. Raizada, P. Hosseini-Bandegharai, A. Thakur, V.K. Nguyen, V.-H. Singh, P.	2021	Journal of Materials Chemistry A	10.1039/d0ta08384d
Recent advances in photocatalytic multivariate metal organic frameworks-based nanostructures toward renewable energy and the removal of environmental pollutants	Patial, S. Raizada, P. Hasija, V. Singh, P. Thakur, V.K. Nguyen, V.-H.	2021	Materials Today Energy	10.1016/j.mtener.2020.100589
Step-scheme heterojunction photocatalysts for solar energy, water splitting, CO ₂ conversion, and bacterial inactivation: a review	Hasija, V. Kumar, A. Sudhaik, A. Raizada, P. Singh, P. Van Le, Q. Le, T.T. Nguyen, V.-H.	2021	Environmental Chemistry Letters	10.1007/s10311-021-01231-w

Surface defect engineering of metal oxides photocatalyst for energy application and water treatment	Raizada, P. Soni, V. Kumar, A. Singh, P. Parwaz Khan, A.A. Asiri, A.M. Thakur, V.K. Nguyen, V.-H.	2021	Journal of Materiomics	10.1016/j.jmat.2020.10.009
An overview on polymeric carbon nitride assisted photocatalytic CO ₂ reduction: Strategically manoeuvring solar to fuel conversion efficiency	Kumar, A. Raizada, P. Kumar Thakur, V. Saini, V. Aslam Parwaz Khan, A. Singh, N. Singh, P.	2021	Chemical Engineering Science	10.1016/j.ces.2020.116219
Novel Z-Scheme ZnIn ₂ S ₄ -based photocatalysts for solar-driven environmental and energy applications: Progress and perspectives	Kumar, Y. Kumar, R. Raizada, P. Khan, A.A.P. Le, Q.V. Singh, P. Nguyen, V.-H.	2021	Journal of Materials Science and Technology	10.1016/j.jmst.2021.01.051
The emerging covalent organic frameworks (COFs) for solar-driven fuels production	Xia, C. Kirlikovali, K.O. Nguyen, T.H.C. Nguyen, X.C. Tran, Q.B. Duong, M.K. Nguyen Dinh, M.T. Nguyen, D.L.T. Singh, P. Raizada, P. Nguyen, V.-H. Kim, S.Y. Singh, L. Nguyen, C.C. Shokouhimehr, M. Le, Q.V.	2021	Coordination Chemistry Reviews	10.1016/j.ccr.2021.214117
An overview of converting reductive photocatalyst into all solid-state and direct Z-scheme system for water splitting and CO ₂ reduction	Raizada, P. Kumar, A. Hasija, V. Singh, P. Thakur, V.K. Khan, A.A.P.	2021	Journal of Industrial and Engineering Chemistry	10.1016/j.jiec.2020.09.006

<p>Boosting light-driven CO₂ reduction into solar fuels: Mainstream avenues for engineering ZnO-based photocatalysts</p>	<p>Patil, S. Kumar, R. Raizada, P. Singh, P. Van Le, Q. Lichtfouse, E. Le Tri Nguyen, D. Nguyen, V.-H.</p>	<p>2021</p>	<p>Environmental Research</p>	<p>10.1016/j.envres.2021.111134</p>
<p>Engineered nanoparticles for removal of pollutants from wastewater: Current status and future prospects of nanotechnology for remediation strategies</p>	<p>Khan, S. Naushad, M. Al-Gheethi, A. Iqbal, J.</p>	<p>2021</p>	<p>Journal of Environmental Chemical Engineering</p>	<p>10.1016/j.jece.2021.106160</p>
<p>Advances and recent trends in cobalt-based cocatalysts for solar-to-fuel conversion</p>	<p>Soni, V. Xia, C. Cheng, C.K. Nguyen, V.-H. Nguyen, D.L.T. Bajpai, A. Kim, S.Y. Le, Q.V. Khan, A.A.P. Singh, P. Raizada, P.</p>	<p>2021</p>	<p>Applied Materials Today</p>	<p>10.1016/j.apmt.2021.101074</p>

<p>A roadmap towards the development of superior photocatalysts for solar-driven CO₂-to-fuels production</p>	<p>Peng, W. Chuong Nguyen, T.H. Nguyen, D.L.T. Wang, T. Van Thi Tran, T. Le, T.H. Le, H.K. Grace, A.N. Singh, P. Raizadaa, P. Nguyen Dinh, M.T. Nguyen, C.C. Kim, S.Y. Le, Q.V.</p>	<p>2021</p>	<p>Renewable and Sustainable Energy Reviews</p>	<p>10.1016/j.rser.2021.111298</p>
<p>Recent progress and challenges in photocatalytic water splitting using layered double hydroxides (LDH) based nanocomposites</p>	<p>Shandilya, P. Sharma, R. Arya, R.K. Kumar, A. Vo, D.-V.N. Sharma, G.</p>	<p>2021</p>	<p>International Journal of Hydrogen Energy</p>	<p>10.1016/j.ijhydene.2021.08.190</p>
<p>Controllable functionalization of g-C₃N₄ mediated all-solid-state (ASS) Z-scheme photocatalysts towards sustainable energy and environmental applications</p>	<p>Sharma, S. Dutta, V. Raizada, P. Khan, A.A.P. Le, Q.V. Thakur, V.K. Biswas, J.K. Selvasembian, R. Singh, P.</p>	<p>2021</p>	<p>Environmental Technology and Innovation</p>	<p>10.1016/j.eti.2021.101972</p>
<p>CO₂ Reforming of CH₄ on Mesoporous Alumina-Supported Cobalt Catalyst: Optimization of Lanthana Promoter Loading</p>	<p>Tran, N.T. Kumar, P.S. Van Le, Q. Van Cuong, N. Phuong, P.T.T. Jalil, A.A. Sharma, G. Kumar, A. Sharma, A. Ayodele, B.V. Abidin, S.Z. Vo, D.-V.N.</p>	<p>2021</p>	<p>Topics in Catalysis</p>	<p>10.1007/s11244-021-01428-x</p>

Review of Sustainable Grid-Independent Renewable Energy Access in Remote Communities of India	Bose, D. Saini, D.K. Yadav, M. Shrivastava, S. Parashar, N.	2021	Integrated Environmental Assessment and Management	10.1002/ieam.4373
Artificial intelligence enabled plant emotion xpresser in the development hydroponics system	Vanipriya, C.H. Maruyi Malladi, S. Gupta, G.	2021	Materials Today: Proceedings	10.1016/j.matpr.2021.01.512
Decentralized Solar Energy Access and Assessment of Performance Parameters for Rural Communities in India	Bose, D. Saini, D.K. Yadav, M. Shrivastava, S. Parashar, N.	2021	Sustainability and climate change	10.1089/scc.2020.0050
Recent progress in bismuth oxyhalides-based heterojunctions for CO2 photoreduction	Kumar, A. Soni, V. Raizada, P. Singh, P.	2021	Nanostructured Photocatalysts: From Fundamental to Practical Applications	10.1016/B978-0-12-823007-7.00013-4