

# Unalome Wetwatana Hartley

## List of Publications by Year in descending order

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27  
papers

239  
citations

1040056

9  
h-index

996975

15  
g-index

28  
all docs

28  
docs citations

28  
times ranked

313  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced ceramic membrane design for gas separation and energy application. , 2022, , 239-268.		1
2	Mechanisms of synthesis gas production via thermochemical cycles over $\text{La}_{0.3}\text{Sr}_{0.7}\text{Co}_{0.7}\text{Fe}_{0.3}\text{O}_3$ . International Journal of Hydrogen Energy, 2021, 46, 24666-24675.	7.1	4
3	Application of a micro-channel reactor for process intensification in high purity syngas production via $\text{H}_2\text{O}/\text{CO}_2$ co-splitting. International Journal of Hydrogen Energy, 2021, 46, 24581-24590.	7.1	6
4	A Dual Reactor for Isothermal Thermochemical Cycles of $\text{H}_2\text{O}/\text{CO}_2$ Co-Splitting Using $\text{La}_{0.3}\text{Sr}_{0.7}\text{Co}_{0.7}\text{Fe}_{0.3}\text{O}_3$ as an Oxygen Carrier. Processes, 2021, 9, 1018.	2.8	1
5	$\text{FeTiO}_3$ Perovskite Nanoparticles for Efficient Electrochemical Water Splitting. Catalysts, 2021, 11, 1028.	3.5	12
6	Tar steam reforming for synthesis gas production over Ni-based on ceria/zirconia and $\text{La}_{0.3}\text{Sr}_{0.7}\text{Co}_{0.7}\text{Fe}_{0.3}\text{O}_3$ in a packed-bed reactor. Chemosphere, 2021, 277, 130280.	8.2	6
7	Design and development of defect rich titania nanostructure for efficient electrocatalyst for hydrogen evolution reaction in an acidic electrolyte. Journal of Materials Research and Technology, 2021, 14, 2739-2750.	5.8	6
8	$\text{CO}_2$ Hydrogenation to Synthetic Natural Gas over Ni, Fe and Co-Based $\text{CeO}_2/\text{Cr}_2\text{O}_3$ . Catalysts, 2021, 11, 1159.	3.5	8
9	Process Intensification of Methane Production via Catalytic Hydrogenation in the Presence of Ni-CeO <sub>2</sub> /Cr <sub>2</sub> O <sub>3</sub> Using a Micro-Channel Reactor. Catalysts, 2021, 11, 1224.	3.5	2
10	Effect of La and Gd substitution in $\text{BaFeO}_{3-\delta}$ perovskite structure on its catalytic performance for thermochemical water splitting. Catalysis Communications, 2020, 135, 105901.	3.3	11
11	$\text{CO}_2$ utilization via methanation using $40\%\text{Ni}/\text{CexCr}_{1-x}\text{O}_2$ as a novel catalyst: a comparative study of packed-bed and micro-channel reactors. Reaction Kinetics, Mechanisms and Catalysis, 2020, 131, 101-117.	1.7	3
12	Optimizing Operating Conditions for Oxidative Coupling Methane (OCM) in the Presence of NaCl-MnOx/SiO <sub>2</sub> . Applied Science and Engineering Progress, 2020, , .	0.8	2
13	Effect of strontium and zirconium doped barium cerate on the performance of proton ceramic electrolyser cell for syngas production from carbon dioxide and steam. International Journal of Hydrogen Energy, 2019, 44, 20634-20640.	7.1	5
14	Thermodynamic and mechanism study of syngas production via integration of nitrous oxide decomposition and methane partial oxidation in the presence of $10\%\text{NiO}/\text{La}_{0.3}\text{Sr}_{0.7}\text{Co}_{0.7}\text{Fe}_{0.3}\text{O}_3$ . Reaction Kinetics, Mechanisms and Catalysis, 2019, 127, 839-855.	1.7	9
15	Catalytic activity of trimetallic sulfided Re-Ni-Mo/ $\gamma\text{-Al}_2\text{O}_3$ toward deoxygenation of palm feedstocks. Renewable Energy, 2019, 140, 111-123.	8.9	32
16	New bio-inspired design for high-performance and highly robust $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ membranes for oxygen permeation. Journal of Membrane Science, 2019, 578, 203-208.	8.2	28
17	Comparison of Packed-Bed and Micro-Channel Reactors for Hydrogen Production via Thermochemical Cycles of Water Splitting in the Presence of Ceria-Based Catalysts. Processes, 2019, 7, 767.	2.8	6
18	Effect of sintering additives on barium cerate based solid oxide electrolysis cell for syngas production from carbon dioxide and steam. Fuel Processing Technology, 2018, 173, 119-125.	7.2	10

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19	Nitrous oxide decomposition over La <sub>0.3</sub> Sr <sub>0.7</sub> Co <sub>0.7</sub> Fe <sub>0.3</sub> O <sub>3</sub> catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2018, 125, 85-97.	1.7	3
20	Study of crystal growth and kinetic parameters of Zn/ZnO oxidation in the presence of H <sub>2</sub> O and CO <sub>2</sub> . Reaction Kinetics, Mechanisms and Catalysis, 2018, 125, 99-110.	1.7	5
21	A highly-robust solid oxide fuel cell (SOFC): simultaneous greenhouse gas treatment and clean energy generation. Energy and Environmental Science, 2016, 9, 3682-3686.	30.8	31
22	Thermodynamic analysis and experimental study of hydrogen production from oxidative reforming of n-butanol. Chemical Engineering Journal, 2015, 278, 2-12.	12.7	25
23	Hydrogen Production From Palmitic Acid Through Autothermal Reforming: Thermodynamic Analysis. Engineering Journal, 2015, 19, 153-165.	1.0	4
24	Methanol Synthesis in a Slurry Phase Reactor over Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> Catalyst. Advanced Materials Research, 2014, 931-932, 27-31.	0.3	2
25	Modelling of a tubular solid oxide fuel cell with different designs of indirect internal reformer. Journal of Energy Chemistry, 2014, 23, 251-263.	12.9	12
26	Catalytic Steam and Autothermal Reforming of Used Lubricating Oil (ULO) over Rh- and Ni-Based Catalysts. Industrial & Engineering Chemistry Research, 2010, 49, 10981-10985.	3.7	4
27	Catalytic Pyrolysis of LDPE Plastic Wastes over Mortar Cement Catalyst. Advanced Materials Research, 0, 931-932, 47-51.	0.3	1