

Gorakshnath Takalkar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

376
citations

10
h-index

18
g-index

32
ext. papers

475
ext. citations

4.8
avg, IF

4.47
L-index

#	Paper	IF	Citations
32	Thermochemical splitting of CO ₂ using solution combustion synthesized lanthanum-strontium-manganese perovskites. <i>Fuel</i> , 2021 , 285, 119154	7.1	4
31	Energy and exergy analysis of parallel flow double effect H ₂ O-[mmim][DMP] absorption refrigeration system for solar powered district cooling. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101382	5.6	2
30	Thermodynamic analysis and experimental validation of multi-composition ammonia liquor absorption engine cycle for power generation. <i>International Journal of Energy Research</i> , 2020 , 44, 12430-12443 ¹	4.5	1
29	Early gas kick detection in vertical wells via transient multiphase flow modelling: A review. <i>Journal of Natural Gas Science and Engineering</i> , 2020 , 80, 103391	4.6	12
28	Application of Li-, Mg-, Ba-, Sr-, Ca-, and Sn-doped ceria for solar-driven thermochemical conversion of carbon dioxide. <i>Journal of Materials Science</i> , 2020 , 55, 11797-11807	4.3	6
27	Investigation of Zr-doped ceria for solar thermochemical valorization of CO ₂ . <i>International Journal of Energy Research</i> , 2020 , 44, 12284-12294	4.5	3
26	Ni incorporation in MgFe ₂ O ₄ for improved CO ₂ -splitting activity during solar fuel production. <i>Journal of Materials Science</i> , 2020 , 55, 11086-11094	4.3	3
25	Thermodynamic properties and performance evaluation of [EMIM][DMP]-H ₂ O working pair for absorption cooling cycle. <i>International Journal of Energy Research</i> , 2020 , 44, 12269-12283	4.5	4
24	Co-precipitation synthesized nanostructured Ce _{0.9} Ln _{0.05} Ag _{0.05} O ₂ materials for solar thermochemical conversion of CO ₂ into fuels. <i>Journal of Materials Science</i> , 2020 , 55, 9748-9761	4.3	3
23	Evacuated tube heat pipe solar collector for Encontech engine-driven reverse osmosis solar desalination. <i>International Journal of Energy Research</i> , 2020 , 44, 12460-12473	4.5	1
22	Thermochemical splitting of CO ₂ using solution combustion synthesized LaMO ₃ (where, M = Co, Fe, Mn, Ni, Al, Cr, Sr). <i>Applied Surface Science</i> , 2020 , 509, 144908	6.7	2
21	Thermodynamic analysis of solar-driven chemical looping steam methane reforming over Cr ₂ O ₃ /Cr redox pair. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10370-10380	6.7	6
20	Energetic and exergetic performance of NH ₃ -H ₂ O-based absorption refrigeration cycle: effect of operating factor. <i>International Journal of Exergy</i> , 2020 , 31, 352	1.2	1
19	Thermochemical splitting of CO ₂ using Co-precipitation synthesized Ce _{0.75} Zr _{0.2} M _{0.05} O ₂ - δ (M = Cr, Mn, Fe, Co, Ni, Zn) materials. <i>Fuel</i> , 2019 , 256, 115834	7.1	8
18	Thermocatalytic splitting of CO ₂ using sol-gel synthesized Co-ferrite redox materials. <i>Fuel</i> , 2019 , 257, 115965	7.1	13
17	Sol-gel synthesized Ni _x Fe _{3-x} O ₄ for thermochemical conversion of CO ₂ . <i>Applied Surface Science</i> , 2019 , 489, 693-700	6.7	9
16	Combustion synthesized A _{0.5} Sr _{0.5} MnO ₃ - δ perovskites (where, A = La, Nd, Sm, Gd, Tb, Pr, Dy, and Y) as redox materials for thermochemical splitting of CO ₂ . <i>Applied Surface Science</i> , 2019 , 489, 80-91	6.7	21

15	Vapour liquid equilibrium of Potassium formate K^+HCO_2^- in Water: measurements and correlation by e-NRTL model. <i>Indian Chemical Engineer</i> , 2019 , 61, 361-373	1	2
14	Experimental Investigation of Isothermal Vapor-Liquid Equilibrium and Estimation of Excess Thermodynamic Properties (hE) of $\text{CH}_3\text{OH}+\text{H}_2\text{O}$ from 278.15 to 423.15 K. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 1488-1500	2.8	0
13	Evaluation of redox performance of silver and transition metal-doped ternary ceria oxides for thermochemical splitting of CO_2 . <i>International Journal of Energy Research</i> , 2019 , 43, 3616-3627	4.5	2
12	A decade of ceria based solar thermochemical $\text{H}_2\text{O}/\text{CO}_2$ splitting cycle. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 34-60	6.7	76
11	Application of cobalt incorporated Iron oxide catalytic nanoparticles for thermochemical conversion of CO_2 . <i>Applied Surface Science</i> , 2019 , 495, 143508	6.7	9
10	Thermochemical CO_2 splitting using a sol-gel synthesized Mg-ferrite based redox system. <i>International Journal of Energy Research</i> , 2019 , 43, 6983	4.5	6
9	Solar thermocatalytic conversion of CO_2 using $\text{Pr}_x\text{Sr}_{(1-x)}\text{MnO}_3$ perovskites. <i>Fuel</i> , 2019 , 254, 115624	7.1	18
8	Thermodynamic analysis of $\text{EMISE}+\text{Water}$ as a working pair for absorption refrigeration system. <i>Applied Thermal Engineering</i> , 2019 , 148, 787-795	5.8	18
7	Delivery of Immunomodulatory Microparticles in a Murine Model of Rotator Cuff Tear. <i>MRS Advances</i> , 2018 , 3, 1341-1346	0.7	1
6	Transition metal doped ceria for solar thermochemical fuel production. <i>Solar Energy</i> , 2018 , 172, 204-2116.8	16.8	44
5	Mathematical modeling, simulation and optimization of solar thermal powered Encontech engine for desalination. <i>Solar Energy</i> , 2018 , 172, 104-115	6.8	4
4	Nanostructured co-precipitated $\text{Ce}_{0.9}\text{Ln}_{0.1}\text{O}_2$ (Ln = La, Pr, Sm, Nd, Gd, Tb, Dy, or Er) for thermochemical conversion of CO_2 . <i>Ceramics International</i> , 2018 , 44, 16688-16697	5.1	37
3	Effectiveness of Ni incorporation in iron oxide crystal structure towards thermochemical CO_2 splitting reaction. <i>Ceramics International</i> , 2017 , 43, 5150-5155	5.1	39
2	La-Based Perovskites as Oxygen-Exchange Redox Materials for Solar Syngas Production. <i>MRS Advances</i> , 2017 , 2, 3365-3370	0.7	19
1	Comprehensive performance analysis and optimization of 1,3-dimethylimidazolium dimethylphosphate-water binary mixture for a single effect absorption refrigeration system. <i>Frontiers in Energy</i> , 1	2.6	2