

Gorakshnath Takalkar

List of Publications by Citations

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32
papers

376
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ext. papers

475
ext. citations

4.8
avg, IF

4.47
L-index

#	Paper	IF	Citations
32	A decade of ceria based solar thermochemical H ₂ O/CO ₂ splitting cycle. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 34-60	6.7	76
31	Transition metal doped ceria for solar thermochemical fuel production. <i>Solar Energy</i> , 2018 , 172, 204-2116.8		44
30	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
29	Nanostructured co-precipitated Ce _{0.9} Ln _{0.1} 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
28	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
27	La-Based Perovskites as Oxygen-Exchange Redox Materials for Solar Syngas Production. <i>MRS Advances</i> , 2017 , 2, 3365-3370	0.7	19
26	Solar thermocatalytic conversion of CO ₂ using Pr _x Sr _(1-x) MnO _{3-δ} perovskites. <i>Fuel</i> , 2019 , 254, 115624	7.1	18
25	Thermodynamic analysis of EMISEM Water as a working pair for absorption refrigeration system. <i>Applied Thermal Engineering</i> , 2019 , 148, 787-795	5.8	18
24	Thermocatalytic splitting of CO ₂ using sol-gel synthesized Co-ferrite redox materials. <i>Fuel</i> , 2019 , 257, 115965	7.1	13
23	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
22	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
21	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
20	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
19	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
18	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
17	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
16	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

15	Mathematical modeling, simulation and optimization of solar thermal powered Encontech engine for desalination. <i>Solar Energy</i> , 2018 , 172, 104-115	6.8	4
14	Thermochemical splitting of CO ₂ using solution combustion synthesized lanthanum-strontium-manganese perovskites. <i>Fuel</i> , 2021 , 285, 119154	7.1	4
13	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
12	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
11	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
10	Vapour liquid equilibrium of Potassium formate-Water: measurements and correlation by e-NRTL model. <i>Indian Chemical Engineer</i> , 2019 , 61, 361-373	1	2
9	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
8	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
7	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
6	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
5	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
4	Delivery of Immunomodulatory Microparticles in a Murine Model of Rotator Cuff Tear. <i>MRS Advances</i> , 2018 , 3, 1341-1346	0.7	1
3	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
2	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
1	Experimental Investigation of Isothermal Vapor-Liquid Equilibrium and Estimation of Excess Thermodynamic Properties (hE) of CH ₂ Cl ₂ -H ₂ O from 278.15 to 423.15 K. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 1488-1500	2.8	0