

# Rahul R Bhosale

## 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.

116  
papers

2,233  
citations

30  
h-index

43  
g-index

121  
ext. papers

2,756  
ext. citations

6.1  
avg, IF

6.17  
L-index

#	Paper	IF	Citations
116	Thermodynamic evaluation of solar assisted ZnO/Zn thermochemical CO splitting cycle.. <i>Environmental Research</i> , <b>2022</b> , 113266	7.9	
115	Nickel/Cobalt nanoparticles for electrochemical production of hydrogen. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 11369-11377	6.7	3
114	H2 generation via solar assisted CaO/Ca thermochemical H2O splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 12095-12104	6.7	0
113	Utilization of Niobium Pentoxide based redox reactions for solar hydrogen generation via thermochemical water splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 11242-11251	6.7	0
112	Solar hydrogen production via ZnO/Zn based thermochemical water splitting cycle: Effect of partial reduction of ZnO. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 4739-4748	6.7	4
111	Thermochemical splitting of CO2 using solution combustion synthesized lanthanum strontium manganese perovskites. <i>Fuel</i> , <b>2021</b> , 285, 119154	7.1	4
110	Solar assisted methanothermal reduction of barium oxide for the co-production of barium and syngas. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 8168-8179	4.5	1
109	Solar thermochemical splitting of H2O using Ca-Ferrite based redox reactions: Effect of partial pressure of O2. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 11232-11241	6.7	
108	Catalytic hydrothermal liquefaction of biomass into bio-oils and other value-added products: A review. <i>Fuel</i> , <b>2021</b> , 285, 119053	7.1	35
107	Bio-sorption of toxic metals from industrial wastewater by algae strains <i>Spirulina platensis</i> and <i>Chlorella vulgaris</i> : Application of isotherm, kinetic models and process optimization. <i>Science of the Total Environment</i> , <b>2021</b> , 755, 142654	10.2	21
106	Solar photo-catalytic production of hydrogen by irradiation of cobalt co-doped TiO2. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 12068-12081	6.7	5
105	Moderate Temperature Treatment of Gas-Phase Volatile Organic Toluene Using NiO and NiO/TiO2 Nano-catalysts: Characterization and Kinetic Behaviors. <i>Waste and Biomass Valorization</i> , <b>2021</b> , 12, 3075-3089	3.3	
104	Treatment of waste gas contaminated with dichloromethane using photocatalytic oxidation, biodegradation and their combinations. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 123735	12.8	10
103	Solar thermochemical conversion of CO2 into fuels using gadolinium sesquioxide: A thermodynamic efficiency analysis. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 8202-8213	4.5	
102	A solar thermochemical praseodymium sesquioxide assisted CO2 splitting cycle. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 9999-10011	4.5	
101	Application of Zn-ferrite towards thermochemical utilization of carbon dioxide: A thermodynamic investigation. <i>Energy Conversion and Management</i> , <b>2021</b> , 245, 114528	10.6	1
100	Guest editorial for the special issue energy research for better sustainability. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 12208-12208	4.5	

99	Solar hydrogen production via thermochemical magnesium oxide [Magnesium sulfate water splitting cycle. <i>Fuel</i> , <b>2020</b> , 275, 117892	7.1	9
98	Solar oxidation of toluene over Co doped nano-catalyst. <i>Chemosphere</i> , <b>2020</b> , 255, 126878	8.4	11
97	Application of chromium oxide-based redox reactions for hydrogen production via solar thermochemical splitting of water. <i>Fuel</i> , <b>2020</b> , 277, 118160	7.1	2
96	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> , <b>2020</b> , 55, 11797-11807	4.3	6
95	Investigation of Zr-doped ceria for solar thermochemical valorization of CO <sub>2</sub> . <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 12284-12294	4.5	3
94	Terbium oxide-based solar thermochemical CO <sub>2</sub> splitting cycle: A thermodynamic investigation <b>2020</b> , 10, 703-714		3
93	Solar thermochemical conversion of CO <sub>2</sub> via erbium oxide based redox cycle <b>2020</b> , 10, 865-874		2
92	Thermodynamic study of the effect of partial thermal reduction of dysprosium oxide on solar-to-fuel energy conversion efficiency. <i>Fuel</i> , <b>2020</b> , 278, 118249	7.1	0
91	A review on valorization of spent coffee grounds (SCG) towards biopolymers and biocatalysts production. <i>Bioresource Technology</i> , <b>2020</b> , 314, 123800	11	27
90	Nitrogen-fixing cyanobacteria as a potential resource for efficient biodiesel production. <i>Fuel</i> , <b>2020</b> , 279, 118440	7.1	9
89	Ni incorporation in MgFe <sub>2</sub> O <sub>4</sub> for improved CO <sub>2</sub> -splitting activity during solar fuel production. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 11086-11094	4.3	3
88	Cost effective biomethanation via surfactant coupled ultrasonic liquefaction of mixed microalgal biomass harvested from open raceway pond. <i>Bioresource Technology</i> , <b>2020</b> , 304, 123021	11	13
87	Solar driven MgO/Mg based methane reforming and water splitting process: A thermodynamic inspection. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10313-10323	6.7	
86	Enhancing the production of biogas through anaerobic co-digestion of agricultural waste and chemical pre-treatments. <i>Chemosphere</i> , <b>2020</b> , 255, 126805	8.4	33
85	Co-precipitation synthesized nanostructured Ce <sub>0.9</sub> Ln <sub>0.05</sub> Ag <sub>0.05</sub> O <sub>2</sub> materials for solar thermochemical conversion of CO <sub>2</sub> into fuels. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 9748-9761	4.3	3
84	Evacuated tube heat pipe solar collector for Encontech engine-driven reverse osmosis solar desalination. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 12460-12473	4.5	1
83	Concentrated solar power driven water splitting cycle using Zn-ferrite based thermochemical redox reactions. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10342-10352	6.7	6
82	Industrial wastewater to biohydrogen: Possibilities towards successful biorefinery route. <i>Bioresource Technology</i> , <b>2020</b> , 298, 122378	11	33

81	Electrochemical oxidation of ammonia on nickel oxide nanoparticles. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10398-10408	6.7	35
80	Heavy metal ions removal from industrial wastewater using magnetic nanoparticles (MNP). <i>Applied Surface Science</i> , <b>2020</b> , 506, 144924	6.7	94
79	Thermochemical splitting of CO <sub>2</sub> using solution combustion synthesized LaMO <sub>3</sub> (where, M = Co, Fe, Mn, Ni, Al, Cr, Sr). <i>Applied Surface Science</i> , <b>2020</b> , 509, 144908	6.7	2
78	Thermodynamic analysis of solar-driven chemical looping steam methane reforming over Cr <sub>2</sub> O <sub>3</sub> /Cr redox pair. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10370-10380	6.7	6
77	Various potential techniques to reduce the water footprint of microalgal biomass production for biofuel-A review. <i>Science of the Total Environment</i> , <b>2020</b> , 749, 142218	10.2	19
76	Experimental measurements and modelling of viscosity and density of calcium and potassium chlorides ternary solutions. <i>Scientific Reports</i> , <b>2020</b> , 10, 16312	4.9	1
75	Solar syngas production via methanothermal reduction of strontium oxide. <i>Fuel</i> , <b>2020</b> , 280, 118466	7.1	
74	Energetic and exergetic performance of NH <sub>3</sub> -H <sub>2</sub> O-based absorption refrigeration cycle: effect of operating factor. <i>International Journal of Exergy</i> , <b>2020</b> , 31, 352	1.2	1
73	Production of solar CO via two-step neodymium oxide based thermochemical CO <sub>2</sub> splitting cycle. <i>Fuel</i> , <b>2020</b> , 282, 118803	7.1	0
72	Solar driven CdSO <sub>4</sub> /CdO thermochemical water splitting cycle for hydrogen generation. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 5829-5839	6.7	1
71	Thermodynamic efficiency analysis of ZnO/Zn based solar thermochemical CH <sub>4</sub> reforming and H <sub>2</sub> O splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 5760-5771	6.7	7
70	Hydrogen production via thermochemical H <sub>2</sub> O splitting using CaSO <sub>4</sub> /CaO redox reactions. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 3444-3456	6.7	1
69	A novel three-step GeO <sub>2</sub> /GeO thermochemical water splitting cycle for solar hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 5816-5828	6.7	9
68	Solar thermochemical H <sub>2</sub> production via MnSO <sub>4</sub> /MnO water splitting cycle: Thermodynamic equilibrium and efficiency analysis. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10324-10333	6.7	2
67	Hydrogen production via solar driven thermochemical cerium oxide /cerium sulfate water splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 10381-10390	6.7	7
66	Estimation of solar-to-fuel energy conversion efficiency of a solar driven samarium oxide-based thermochemical CO <sub>2</sub> splitting cycle <b>2020</b> , 10, 725-735		0
65	Review on sustainable production of biochar through hydrothermal liquefaction: Physico-chemical properties and applications. <i>Bioresource Technology</i> , <b>2020</b> , 310, 123414	11	56
64	Thermochemical splitting of CO <sub>2</sub> using Co-precipitation synthesized Ce <sub>0.75</sub> Zr <sub>0.2</sub> M <sub>0.05</sub> O <sub>2-<math>\delta</math></sub> (M = Cr, Mn, Fe, CO, Ni, Zn) materials. <i>Fuel</i> , <b>2019</b> , 256, 115834	7.1	8

63	Thermocatalytic splitting of CO <sub>2</sub> using sol-gel synthesized Co-ferrite redox materials. <i>Fuel</i> , <b>2019</b> , 257, 115965	7.1	13
62	Mn-ferrite based solar thermochemical water splitting cycle: A thermodynamic evaluation. <i>Fuel</i> , <b>2019</b> , 256, 115847	7.1	1
61	Impact of CO concentration and ambient conditions on microalgal growth and nutrient removal from wastewater by a photobioreactor. <i>Science of the Total Environment</i> , <b>2019</b> , 662, 662-671	10.2	72
60	Sol-gel synthesized Ni <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> for thermochemical conversion of CO <sub>2</sub> . <i>Applied Surface Science</i> , <b>2019</b> , 489, 693-700	6.7	9
59	Combustion synthesized A <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3-<math>\delta</math></sub> perovskites (where, A = La, Nd, Sm, Gd, Tb, Pr, Dy, and Y) as redox materials for thermochemical splitting of CO <sub>2</sub> . <i>Applied Surface Science</i> , <b>2019</b> , 489, 80-91	6.7	21
58	Influence of draw solution type and properties on the performance of forward osmosis process: Energy consumption and sustainable water reuse. <i>Chemosphere</i> , <b>2019</b> , 233, 234-244	8.4	23
57	A review on the conversion of volatile fatty acids to polyhydroxyalkanoates using dark fermentative effluents from hydrogen production. <i>Bioresource Technology</i> , <b>2019</b> , 287, 121427	11	50
56	Photocatalytic conversion of CO <sub>2</sub> and H <sub>2</sub> O to useful fuels by nanostructured composite catalysis. <i>Applied Surface Science</i> , <b>2019</b> , 483, 363-372	6.7	21
55	Experimental Investigation of Isothermal Vapor-Liquid Equilibrium and Estimation of Excess Thermodynamic Properties (hE) of CH <sub>2</sub> Cl <sub>2</sub> /H <sub>2</sub> O from 278.15 to 423.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 1488-1500	2.8	0
54	Evaluation of redox performance of silver and transition metal-doped ternary ceria oxides for thermochemical splitting of CO <sub>2</sub> . <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 3616-3627	4.5	2
53	Harvesting of intact microalgae in single and sequential conditioning steps by chemical and biological based - flocculants: Effect on harvesting efficiency, water recovery and algal cell morphology. <i>Bioresource Technology</i> , <b>2019</b> , 281, 250-259	11	20
52	Intergraded wastewater treatment and carbon bio-fixation from flue gases using <i>Spirulina platensis</i> and mixed algal culture. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 124, 240-250	5.5	46
51	A decade of ceria based solar thermochemical H <sub>2</sub> O/CO <sub>2</sub> splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 34-60	6.7	76
50	Thermodynamic analysis of Ni-ferrite based solar thermochemical H <sub>2</sub> O splitting cycle for H <sub>2</sub> production. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 61-71	6.7	16
49	Bio-carrier and operating temperature effect on ammonia removal from secondary wastewater effluents using moving bed biofilm reactor (MBBR). <i>Science of the Total Environment</i> , <b>2019</b> , 693, 133425	10.2	40
48	Application of cobalt incorporated Iron oxide catalytic nanoparticles for thermochemical conversion of CO <sub>2</sub> . <i>Applied Surface Science</i> , <b>2019</b> , 495, 143508	6.7	9
47	Thermochemical CO <sub>2</sub> splitting using a sol-gel synthesized Mg-ferrite based redox system. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 6983	4.5	6
46	Solar thermocatalytic conversion of CO <sub>2</sub> using Pr <sub>x</sub> Sr <sub>(1-x)</sub> MnO <sub>3-<math>\delta</math></sub> perovskites. <i>Fuel</i> , <b>2019</b> , 254, 115624	7.1	18

45	Thermochemical H <sub>2</sub> production via solar driven hybrid SrO/SrSO <sub>4</sub> water splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 118-127	6.7	7
44	Thermodynamic analysis of EMISE-Water as a working pair for absorption refrigeration system. <i>Applied Thermal Engineering</i> , <b>2019</b> , 148, 787-795	5.8	18
43	Influence of fuel ratio on the performance of combustion synthesized bifunctional cobalt oxide catalysts for fuel cell application. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 436-445	6.7	27
42	Solar driven two-step CH <sub>4</sub> reforming and H <sub>2</sub> O splitting using Al <sub>2</sub> O <sub>3</sub> for Co-production of Al, syngas, and H <sub>2</sub> . <i>Solar Energy</i> , <b>2018</b> , 172, 232-241	6.8	2
41	Synthesis and characterization of nanocrystalline CoFe <sub>2</sub> O <sub>4</sub> -zirconia via propylene oxide aided sol-gel method. <i>Ceramics International</i> , <b>2018</b> , 44, 8679-8683	5.1	7
40	Delivery of Immunomodulatory Microparticles in a Murine Model of Rotator Cuff Tear. <i>MRS Advances</i> , <b>2018</b> , 3, 1341-1346	0.7	1
39	Combustion synthesis of bifunctional LaMO <sub>3</sub> (M = Cr, Mn, Fe, Co, Ni) perovskites for oxygen reduction and oxygen evolution reaction in alkaline media. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 809, 22-30	4.1	76
38	Mineralization of dichloromethane using solar-oxidation and activated TiO <sub>2</sub> : Pilot scale study. <i>Solar Energy</i> , <b>2018</b> , 172, 116-127	6.8	11
37	Mathematical modeling, simulation and optimization of solar thermal powered Encontech engine for desalination. <i>Solar Energy</i> , <b>2018</b> , 172, 104-115	6.8	4
36	Potential use of solar photocatalytic oxidation in removing emerging pharmaceuticals from wastewater: A pilot plant study. <i>Solar Energy</i> , <b>2018</b> , 172, 128-140	6.8	28
35	Thermodynamic efficiency analysis of zinc oxide based solar driven thermochemical H <sub>2</sub> O splitting cycle: Effect of partial pressure of O <sub>2</sub> , thermal reduction and H <sub>2</sub> O splitting temperatures. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 14915-14924	6.7	43
34	Kinetics of reactive absorption of CO <sub>2</sub> using aqueous blend of potassium carbonate, ethylaminoethanol, and N-methyl-2-Pyrrolidone (APCEN solvent). <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 89, 191-197	5.3	3
33	Thermodynamic analysis of solar driven SnO <sub>2</sub> /SnO based thermochemical water splitting cycle. <i>Energy Conversion and Management</i> , <b>2017</b> , 135, 226-235	10.6	82
32	Effectiveness of Ni incorporation in iron oxide crystal structure towards thermochemical CO <sub>2</sub> splitting reaction. <i>Ceramics International</i> , <b>2017</b> , 43, 5150-5155	5.1	39
31	Study of ethanol dehydrogenation reaction mechanism for hydrogen production on combustion synthesized cobalt catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 23464-23473	6.7	41
30	La-Based Perovskites as Oxygen-Exchange Redox Materials for Solar Syngas Production. <i>MRS Advances</i> , <b>2017</b> , 2, 3365-3370	0.7	19
29	Catalytic Reduction of CO <sub>2</sub> into Solar Fuels via Ferrite Based Thermochemical Redox Reactions. <i>MRS Advances</i> , <b>2017</b> , 2, 3389-3395	0.7	
28	Solar thermochemical ZnO/ZnSO <sub>4</sub> water splitting cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 23474-23483	6.7	49



27	Advanced wastewater treatment using microalgae: effect of temperature on removal of nutrients and organic carbon. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2017</b> , 67, 012032	0.3	10
26	A comparative thermodynamic analysis of samarium and erbium oxide based solar thermochemical water splitting cycles. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 23416-23426	6.7	47
25	Thermodynamic exergy analysis of dysprosium oxide-based solar thermochemical water-splitting cycle. <i>International Journal of Exergy</i> , <b>2017</b> , 23, 226	1.2	3
24	Thermodynamic investigation of hydrogen enrichment and carbon suppression using chemical additives in ethanol dry reforming. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 15149-15157	6.7	12
23	Sol-gel derived CeO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> nanoparticles: Synthesis, characterization and solar thermochemical application. <i>Ceramics International</i> , <b>2016</b> , 42, 6728-6737	5.1	37
22	Removal of emerging pharmaceuticals from wastewater by ozone-based advanced oxidation processes. <i>Environmental Progress and Sustainable Energy</i> , <b>2016</b> , 35, 982-995	2.5	55
21	In situ DRIFTS Studies on Cu, Ni and CuNi catalysts for Ethanol Decomposition Reaction. <i>Catalysis Letters</i> , <b>2016</b> , 146, 778-787	2.8	40
20	Solar co-production of samarium and syngas via methanothermal reduction of samarium sesquioxide. <i>Energy Conversion and Management</i> , <b>2016</b> , 112, 413-422	10.6	28
19	Assessment of Ce Zr Hf O <sub>2</sub> based oxides as potential solar thermochemical CO <sub>2</sub> splitting materials. <i>Ceramics International</i> , <b>2016</b> , 42, 9354-9362	5.1	47
18	Propylene oxide assisted sol-gel synthesis of zinc ferrite nanoparticles for solar fuel production. <i>Ceramics International</i> , <b>2016</b> , 42, 2431-2438	5.1	28
17	Solar Thermochemical Hydrogen Production via Terbium Oxide Based Redox Reactions. <i>International Journal of Photoenergy</i> , <b>2016</b> , 2016, 1-9	2.1	40
16	Solar Hydrogen Production via a Samarium Oxide-Based Thermochemical Water Splitting Cycle. <i>Energies</i> , <b>2016</b> , 9, 316	3.1	52
15	Solar hydrogen production via erbium oxide based thermochemical water splitting cycle. <i>Journal of Renewable and Sustainable Energy</i> , <b>2016</b> , 8, 034702	2.5	42
14	Cobalt oxide nanopowder synthesis using cellulose assisted combustion technique. <i>Ceramics International</i> , <b>2016</b> , 42, 12771-12777	5.1	37
13	CO <sub>2</sub> Capture Using Aqueous Potassium Carbonate Promoted by Ethylaminoethanol: A Kinetic Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 5238-5246	3.9	28
12	Thermochemical Conversion of CO <sub>2</sub> into Solar Fuels Using Ferrite Nanomaterials <b>2015</b> , 141-148		1
11	Thermodynamic Analysis of Solar Fuel Production via Thermochemical H <sub>2</sub> O and/or CO <sub>2</sub> Splitting Using Tin Oxide Based Redox Reactions <b>2015</b> , 39-48		1
10	Solar Fuel Production via Non-Stoichiometric CexZryHfzO2-Based Two-Step Thermochemical Redox Cycle <b>2015</b> , 117-124		1

9	Cellulose assisted combustion synthesis of porous CuNi nanopowders. <i>RSC Advances</i> , <b>2015</b> , 5, 28703-28712	51
8	Solar hydrogen production via thermochemical iron oxide/iron sulfate water splitting cycle. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 1639-1650	6.7 70
7	CO <sub>2</sub> Capture Using an Aqueous Formulated Solvent Containing Ethylaminoethanol, N-Methyl-2-Pyrrolidone, and Hydroxyl Radical Scavengers: Study of Solvent Degradation and Absorption Kinetics <b>2015</b> , 11-19	3
6	Sol-Gel Synthesis of Nanocrystalline Ni-Ferrite and Co-Ferrite Redox Materials for Thermochemical Production of Solar Fuels. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1675, 203-208	18
5	Kinetics of thermal degradation of renewably prepared amines useful for flue gas treatment. <i>Journal of Renewable and Sustainable Energy</i> , <b>2013</b> , 5, 063110	2.5 19
4	Kinetics of Absorption of Carbon Dioxide in Aqueous Solution of Ethylaminoethanol Modified with N-methyl-2-pyrrolidone. <i>Separation Science and Technology</i> , <b>2013</b> , 48, 2324-2337	2.5 27
3	Thermochemical water-splitting for H <sub>2</sub> generation using sol-gel derived Mn-ferrite in a packed bed reactor. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 2924-2934	6.7 82
2	Sol-Gel Derived NiFe <sub>2</sub> O <sub>4</sub> Modified with ZrO <sub>2</sub> for Hydrogen Generation from Solar Thermochemical Water-Splitting Reaction. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1387, 1	27
1	H <sub>2</sub> generation from two-step thermochemical water-splitting reaction using sol-gel derived SnxFe <sub>y</sub> O <sub>z</sub> . <i>Journal of Renewable and Sustainable Energy</i> , <b>2011</b> , 3, 063104	2.5 30