

Sushil Adhikari

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117
papers

6,648
citations

39
h-index

80
g-index

121
ext. papers

7,446
ext. citations

6.2
avg, IF

6.18
L-index

#	Paper	IF	Citations
117	Current Status of Hydrogen Production Techniques by Steam Reforming of Ethanol: A Review. <i>Energy & Fuels</i> , 2005 , 19, 2098-2106	4.1	1068
116	Biorefineries: Current Status, Challenges, and Future Direction. <i>Energy & Fuels</i> , 2006 , 20, 1727-1737	4.1	505
115	Hydrogen Membrane Separation Techniques. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 875-881	3.9	459
114	A review on biomass gasification syngas cleanup. <i>Applied Energy</i> , 2015 , 155, 294-307	10.7	273
113	A thermodynamic analysis of hydrogen production by steam reforming of glycerol. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 2875-2880	6.7	243
112	Catalytic pyrolysis of green algae for hydrocarbon production using H+ZSM-5 catalyst. <i>Bioresource Technology</i> , 2012 , 118, 150-7	11	226
111	Hydrogen production from glycerol: An update. <i>Energy Conversion and Management</i> , 2009 , 50, 2600-2604	10.6	207
110	Production of hydrogen by steam reforming of glycerin over alumina-supported metal catalysts. <i>Catalysis Today</i> , 2007 , 129, 355-364	5.3	183
109	Physiochemical properties of bio-oil produced at various temperatures from pine wood using an auger reactor. <i>Bioresource Technology</i> , 2010 , 101, 8389-95	11	176
108	Hydrogen production from glycerin by steam reforming over nickel catalysts. <i>Renewable Energy</i> , 2008 , 33, 1097-1100	8.1	172
107	Conversion of Glycerol to Hydrogen via a Steam Reforming Process over Nickel Catalysts. <i>Energy & Fuels</i> , 2008 , 22, 1220-1226	4.1	144
106	A review on current status of hydrogen production from bio-oil. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 2366-2372	16.2	138
105	Production of hydrocarbon fuels from biomass using catalytic pyrolysis under helium and hydrogen environments. <i>Bioresource Technology</i> , 2011 , 102, 6742-9	11	128
104	Catalytic Pyrolysis of Biomass over H+ZSM-5 under Hydrogen Pressure. <i>Energy & Fuels</i> , 2012 , 26, 5300-5306	4.1	123
103	A Comparative Thermodynamic and Experimental Analysis on Hydrogen Production by Steam Reforming of Glycerin. <i>Energy & Fuels</i> , 2007 , 21, 2306-2310	4.1	115
102	Effect of temperature and Na ₂ CO ₃ catalyst on hydrothermal liquefaction of algae. <i>Algal Research</i> , 2015 , 12, 80-90	5	114
101	Effect of Alkali and Alkaline Earth Metals on in-Situ Catalytic Fast Pyrolysis of Lignocellulosic Biomass: A Microreactor Study. <i>Energy & Fuels</i> , 2016 , 30, 3045-3056	4.1	112

100	Effect of torrefaction on biomass structure and hydrocarbon production from fast pyrolysis. <i>Green Chemistry</i> , 2015 , 17, 2406-2417	10	94
99	Catalytic Pyrolysis of Torrefied Biomass for Hydrocarbons Production. <i>Energy & Fuels</i> , 2012 , 26, 7347-7353	7	81
98	Influence of biochemical composition during hydrothermal liquefaction of algae on product yields and fuel properties. <i>Bioresource Technology</i> , 2017 , 243, 1112-1120	11	72
97	Upgrading of syngas derived from biomass gasification: A thermodynamic analysis. <i>Biomass and Bioenergy</i> , 2009 , 33, 882-889	5-3	72
96	Review of NMR Characterization of Pyrolysis Oils. <i>Energy & Fuels</i> , 2016 , 30, 6863-6880	4-1	67
95	Effect of bio-char on methane generation from glucose and aqueous phase of algae liquefaction using mixed anaerobic cultures. <i>Biomass and Bioenergy</i> , 2018 , 108, 479-486	5-3	64
94	Glycerol based automotive fuels from future biorefineries. <i>Fuel</i> , 2007 , 86, 2806-2809	7-1	63
93	Influence of Pyrolysis Operating Conditions on Bio-Oil Components: A Microscale Study in a Pyroprobe. <i>Energy & Fuels</i> , 2011 , 25, 1191-1199	4-1	61
92	Biomass Gasification Using Carbon Dioxide: Effect of Temperature, CO ₂ /C Ratio, and the Study of Reactions Influencing the Process. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2883-2891	3-9	54
91	Thermal and Storage Stability of Bio-Oil from Pyrolysis of Torrefied Wood. <i>Energy & Fuels</i> , 2015 , 29, 5117-5126	4-1	52
90	Modeling for proximate analysis and heating value of torrefied biomass with vibration spectroscopy. <i>Bioresource Technology</i> , 2013 , 133, 1-8	11	50
89	Effect of torrefaction temperature on lignin macromolecule and product distribution from HZSM-5 catalytic pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016 , 122, 95-105	6	48
88	Catalytic upgrading of bio-oil produced from hydrothermal liquefaction of <i>Nannochloropsis</i> sp. <i>Bioresource Technology</i> , 2018 , 252, 28-36	11	47
87	Catalytic Pyrolysis of Raw and Thermally Treated Lignin Using Different Acidic Zeolites. <i>Energy & Fuels</i> , 2014 , 28, 4532-4538	4-1	46
86	Southern pines char gasification with CO ₂ : Kinetics and effect of alkali and alkaline earth metals. <i>Fuel Processing Technology</i> , 2016 , 150, 64-70	7-2	44
85	Nutrient removal and energy production from aqueous phase of bio-oil generated via hydrothermal liquefaction of algae. <i>Bioresource Technology</i> , 2017 , 230, 43-48	11	43
84	Treatment of aqueous phase of bio-oil by granular activated carbon and evaluation of biogas production. <i>Bioresource Technology</i> , 2017 , 223, 115-120	11	43
83	Upgrading of hydrothermal liquefaction biocrude from algae grown in municipal wastewater. <i>Fuel Processing Technology</i> , 2016 , 142, 147-156	7-2	42

82	Effects of Temperature and Equivalence Ratio on Pine Syngas Primary Gases and Contaminants in a Bench-Scale Fluidized Bed Gasifier. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 5767-5777	3.9	42
81	Ultrahigh temperature water gas shift catalysts to increase hydrogen yield from biomass gasification. <i>Catalysis Today</i> , 2007 , 129, 269-274	5.3	41
80	Hydrogen production from biogas reforming and the effect of H ₂ S on CH ₄ conversion. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 19905-19911	6.7	40
79	Physical and Chemical Properties and Accelerated Aging Test of Bio-oil Produced from in Situ Catalytic Pyrolysis in a Bench-Scale Fluidized-Bed Reactor. <i>Energy & Fuels</i> , 2015 , 29, 841-848	4.1	39
78	Catalytic Pyrolysis of Raw and Thermally Treated Cellulose Using Different Acidic Zeolites. <i>Bioenergy Research</i> , 2014 , 7, 867-875	3.1	37
77	Distinct roles of residual xylan and lignin in limiting enzymatic hydrolysis of organosolv pretreated loblolly pine and sweetgum. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 646-54	5.7	37
76	Hydrogen Production through the Water-Gas Shift Reaction: Thermodynamic Equilibrium versus Experimental Results over Supported Ni Catalysts. <i>Energy & Fuels</i> , 2009 , 23, 3097-3102	4.1	36
75	Experimental study of torrefied pine as a gasification fuel using a bubbling fluidized bed gasifier. <i>Renewable Energy</i> , 2016 , 93, 460-468	8.1	32
74	Synthesis and Characterization of Bio-oil-Based Self-Curing Epoxy Resin. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9389-9400	3.9	30
73	Progress in the solvent depolymerization of lignin. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 133, 110359	16.2	30
72	Enhancement of biogas production from wastewater sludge via anaerobic digestion assisted with biochar amendment. <i>Bioresource Technology</i> , 2020 , 309, 123368	11	29
71	Chemical looping dry reforming of benzene as a gasification tar model compound with Ni- and Fe-based oxygen carriers in a fluidized bed reactor. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 18790-18800	6.7	28
70	Conversion of Solid Wastes to Fuels and Chemicals Through Pyrolysis 2018 , 239-263		28
69	Physical and flow properties of pecan shells: Particle size and moisture effects. <i>Powder Technology</i> , 2011 , 212, 173-180	5.2	27
68	Effects of surfactant on biochemical and hydrothermal conversion of softwood hemicellulose to ethanol and furan derivatives. <i>Process Biochemistry</i> , 2011 , 46, 1785-1792	4.8	26
67	Leaching and anaerobic digestion of poultry litter for biogas production and nutrient transformation. <i>Waste Management</i> , 2019 , 84, 413-422	8.6	26
66	Co-pyrolysis of lignin and plastics using red clay as catalyst in a micro-pyrolyzer. <i>Bioresource Technology</i> , 2018 , 270, 311-319	11	26
65	Kinetics and Mechanisms for Copyrolysis of Palm Empty Fruit Bunch Fiber (EFBF) with Palm Oil Mill Effluent (POME) Sludge. <i>Energy & Fuels</i> , 2017 , 31, 8217-8227	4.1	25

64	Enriched hydrogen production over air and air-steam fluidized bed gasification in a bubbling fluidized bed reactor with CaO: Effects of biomass and bed material catalyst. <i>Energy Conversion and Management</i> , 2020 , 225, 113408	10.6	25
63	Blended Feedstocks for Thermochemical Conversion: Biomass Characterization and Bio-Oil Production From Switchgrass-Pine Residues Blends. <i>Frontiers in Energy Research</i> , 2018 , 6,	3.8	25
62	Effect of autohydrolysis pretreatment on biomass structure and the resulting bio-oil from a pyrolysis process. <i>Fuel</i> , 2017 , 206, 494-503	7.1	24
61	Estimation of Biomass Synthesis Gas Composition using Equilibrium Modeling. <i>Energy & Fuels</i> , 2010 , 24, 2692-2698	4.1	23
60	Inhibitory activity of carbonyl compounds on alcoholic fermentation by <i>Saccharomyces cerevisiae</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 918-26	5.7	22
59	Potential of sustainable energy technologies under CDM in Thailand: Opportunities and barriers. <i>Renewable Energy</i> , 2008 , 33, 2122-2133	8.1	22
58	Catalytic upgrading of fractionated microalgae bio-oil (<i>Nannochloropsis oculata</i>) using a noble metal (Pd/C) catalyst. <i>Algal Research</i> , 2017 , 24, 188-198	5	21
57	Characterization of bamboo species at different ages and bio-oil production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 116, 215-222	6	21
56	Catalytic Upgrading of Methane to Higher Hydrocarbon in a Nonoxidative Chemical Conversion. <i>Energy & Fuels</i> , 2016 , 30, 2584-2593	4.1	21
55	Experimental investigation of hardwood air gasification in a pilot scale bubbling fluidized bed reactor and CFD simulation of jet/grid and pressure conditions. <i>Energy Conversion and Management</i> , 2018 , 168, 599-610	10.6	20
54	Direct biodiesel production from wet microalgae assisted by radio frequency heating. <i>Fuel</i> , 2019 , 256, 115994	7.1	19
53	Conversion of carbon dioxide and methane in biomass synthesis gas for liquid fuels production. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18031-18039	6.7	19
52	Energy and environmental implications of NOx emission reduction from the transport sector of Beijing: a least-cost planning analysis. <i>Transportation Research, Part D: Transport and Environment</i> , 2005 , 10, 1-11	6.4	19
51	Improvement in HPLC separation of acetic acid and levulinic acid in the profiling of biomass hydrolysate. <i>Bioresource Technology</i> , 2011 , 102, 4938-42	11	18
50	Ignition and volatilization behavior of dust from loblolly pine wood. <i>Fuel Processing Technology</i> , 2014 , 127, 117-123	7.2	17
49	Chemometric modeling of thermogravimetric data for the compositional analysis of forest biomass. <i>PLoS ONE</i> , 2017 , 12, e0172999	3.7	17
48	Simulation, Analysis, and Assessment of CO2 Enhanced Biomass Gasification. <i>Computer Aided Chemical Engineering</i> , 2013 , 32, 421-426	0.6	15
47	Adsorption of glycerol from biodiesel washwaters. <i>Environmental Technology (United Kingdom)</i> , 2009 , 30, 505-10	2.6	15

46	The effect of ethanol on hydroxyl and carbonyl groups in biopolyol produced by hydrothermal liquefaction of loblolly pine: (31)P-NMR and (19)F-NMR analysis. <i>Bioresource Technology</i> , 2016 , 214, 37-44 ¹¹	14
45	Inhibition effect of aromatic aldehydes on butanol fermentation by <i>Clostridium acetobutylicum</i> . <i>RSC Advances</i> , 2017 , 7, 1241-1250	3.7 12
44	Alternative Hydrocarbon Biofuel Production via Hydrotreating under a Synthesis Gas Atmosphere. <i>Energy & Fuels</i> , 2017 , 31, 12256-12262	4.1 12
43	Pyrolysis oil substituted epoxy resin: Improved ratio optimization and crosslinking efficiency. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9 12
42	Effects of temperature and equivalence ratio on mass balance and energy analysis in loblolly pine oxygen gasification. <i>Energy Science and Engineering</i> , 2016 , 4, 256-268	3.4 12
41	Effective Cu/Re promoted Ni-supported γ -Al ₂ O ₃ catalyst for upgrading algae bio-crude oil produced by hydrothermal liquefaction. <i>Fuel Processing Technology</i> , 2021 , 216, 106670	7.2 11
40	Effect of Autohydrolysis Pretreatment Conditions on Sugarcane Bagasse Structures and Product Distribution Resulting from Pyrolysis. <i>Energy Technology</i> , 2018 , 6, 640-648	3.5 10
39	Hydrogen production thermocatalytic decomposition of methane using carbon-based catalysts.. <i>RSC Advances</i> , 2020 , 10, 40882-40893	3.7 10
38	Synthesis and characterization of epoxy resins from fast pyrolysis bio-oil. <i>Green Materials</i> , 2018 , 6, 76-84 ^{3.2}	9
37	Effect of liquefaction temperature on hydroxyl groups of bio-oil from loblolly pine (<i>Pinus taeda</i>). <i>Bioresource Technology</i> , 2014 , 169, 808-811	11 9
36	Response of Titanium-Isopropoxide-Based Heterogeneous Amphiphilic Polymer Catalysts for Transesterification. <i>Energy & Fuels</i> , 2010 , 24, 4123-4129	4.1 9
35	Performance of household grid-connected PV system in Thailand. <i>Progress in Photovoltaics: Research and Applications</i> , 2003 , 11, 557-564	6.8 9
34	Synthesis of Novel Biolubricants from Waste Cooking Oil and Cyclic Oxygenates through an Integrated Catalytic Process. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3 9
33	Bubbling fluidized bed gasification of short rotation Eucalyptus: Effect of harvesting age and bark. <i>Biomass and Bioenergy</i> , 2018 , 110, 98-104	5.3 8
32	Economic analysis of municipal power generation from gasification of urban green wastes: case study of Fultondale, Alabama, USA. <i>Biofuels, Bioproducts and Biorefining</i> , 2012 , 6, 521-533	5.3 8
31	Production of green transportation fuels from <i>Brassica carinata</i> oil: A comparative study of noble and transition metal catalysts. <i>Fuel Processing Technology</i> , 2021 , 215, 106737	7.2 8
30	The effect of storage time and moisture content on grindability of loblolly pine (<i>Pinus taeda</i> L.). <i>European Journal of Wood and Wood Products</i> , 2016 , 74, 857-866	2.1 8
29	Moisture effect on fluidization behavior of loblolly pine Wood grinds. <i>Biomass Conversion and Biorefinery</i> , 2017 , 7, 207-220	2.3 7

28	Process Modeling of Fluidized Bed Biomass-CO ₂ Gasification using ASPEN Plus. <i>Computer Aided Chemical Engineering</i> , 2017 , 2509-2514	0.6	7
27	Effect of ammonia removal and biochar detoxification on anaerobic digestion of aqueous phase from municipal sludge hydrothermal liquefaction. <i>Bioresource Technology</i> , 2021 , 326, 124730	11	7
26	Biopolymers Fractionation and Synthesis of Nanocellulose/Silica Nanoparticles from Agricultural Byproducts. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 6284-6295	8.3	7
25	Production of Bio-oil from Underutilized Forest Biomass Using an Auger Reactor. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2015 , 37, 750-757	1.6	6
24	Physical and Flow Properties of Fractionated Loblolly Pine Grinds. <i>Transactions of the ASABE</i> , 2016 , 59, 999-1008	0.9	6
23	Aspen plus simulation to predict steady state performance of biomass-CO ₂ gasification in a fluidized bed gasifier. <i>Biofuels, Bioproducts and Biorefining</i> , 2018 , 12, 379-389	5.3	6
22	Fast pyrolysis bio-oil as precursor of thermosetting epoxy resins. <i>Polymer Engineering and Science</i> , 2018 , 58, 1296-1307	2.3	6
21	Hydrothermal liquefaction of municipal sewage sludge: Effect of red mud catalyst in ethylene and inert ambiances. <i>Energy Conversion and Management</i> , 2021 , 245, 114615	10.6	6
20	Hot water extraction as a pretreatment for reducing syngas inorganics impurities: A parametric investigation on switchgrass and loblolly pine bark. <i>Fuel</i> , 2018 , 220, 177-184	7.1	5
19	Fast Pyrolysis of Biomass: Effect of Blending Southern Pine and Switchgrass. <i>Transactions of the ASABE</i> , 2016 , 59, 5-10	0.9	5
18	Reforming glycerol under electro-statically charged surface conditions. <i>Energy and Environmental Science</i> , 2010 , 3, 1593	35.4	4
17	Performance of biochar assisted catalysts during hydroprocessing of non-edible vegetable oil: Effect of transition metal source on catalytic activity. <i>Energy Conversion and Management</i> , 2022 , 252, 115131	10.6	4
16	Production of Novolac Resin after Partial Substitution of Phenol from Bio-Oil. <i>Transactions of the ASABE</i> , 2020 , 63, 901-912	0.9	4
15	Dynamic Variation of Fuel Properties of Tonkin Cane (<i>Pseudosasa amabilis</i>) during Maturation. <i>Energy & Fuels</i> , 2015 , 29, 2408-2415	4.1	3
14	Effect of Soil on Fast Pyrolysis Products from Pine (<i>Pinus taeda</i>) Biomass. <i>Transactions of the ASABE</i> , 2018 , 61, 355-366	0.9	3
13	Production of Daphnia zooplankton on wastewater-grown algae for sustainable conversion of waste nutrients to fish feed. <i>Journal of Cleaner Production</i> , 2021 , 310, 127501	10.3	3
12	Sorption and recovery of phenolic compounds from aqueous phase of sewage sludge hydrothermal liquefaction using bio-char. <i>Chemosphere</i> , 2022 , 287, 131934	8.4	3
11	Fast Pyrolysis of <i>Opuntia ficus-indica</i> (Prickly Pear) and <i>Grindelia squarrosa</i> (Gumweed). <i>Energy & Fuels</i> , 2018 , 32, 3510-3518	4.1	2

10	Fast Pyrolysis of Agricultural Wastes for Bio-fuel and Bio-char. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2016 , 301-332	0.9	2
9	Influence of Biomass Inorganics on the Functionality of H+ZSM-5 Catalyst during In-Situ Catalytic Fast Pyrolysis. <i>Catalysts</i> , 2021 , 11, 124	4	2
8	Effect of Calcium Formate on Hydrodeoxygenation of Biomass Model Compounds. <i>Energy & Fuels</i> , 2019 , 33, 1314-1324	4.1	1
7	Physical, Ignition, and Volatilization Properties of Biomass Feedstock Dusts. <i>Transactions of the ASABE</i> , 2015 , 58, 1425-1437	0.9	1
6	Friction and wear properties of biomass-derived oils via thermochemical conversion processes. <i>Biomass and Bioenergy</i> , 2021 , 155, 106269	5.3	1
5	Effect of Pyrolysis Method on Physical Properties of Activated Biochar and its Application as Cathode Material for Lithium-Sulfur Battery. <i>Transactions of the ASABE</i> , 2020 , 63, 485-493	0.9	1
4	Synthesis of Biobased Novolac Phenol-Formaldehyde Wood Adhesives from Biorefinery-Derived Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10990-11002	8.3	1
3	Hydrotreatment of solvent-extracted biocrude from hydrothermal liquefaction of municipal sewage sludge. <i>Energy Conversion and Management</i> , 2022 , 263, 115719	10.6	0
2	Strategies for the promotion of cleaner and energy efficient technologies in the urban transport system in selected Asian cities. <i>International Journal of Environment and Pollution</i> , 2007 , 30, 45	0.7	
1	Biomass Gasification and Effect of Physical Properties on Products 2018 , 101-125		