Jun Xiang

List of Publications by Citations

559 papers	14,466 citations	62 h-index	88 g-index
591 ext. papers	18,321 ext. citations	6.8 avg, IF	7.24 L-index

#	Paper	IF	Citations
559	Thermochemical processing of sewage sludge to energy and fuel: Fundamentals, challenges and considerations. *Renewable and Sustainable Energy Reviews*, **2017**, 80, 888-913	16.2	294
558	Biomass pyrolysis: A review of the process development and challenges from initial researches up to the commercialisation stage. *Journal of Energy Chemistry*, **2019**, 39, 109-143	12	227
557	Pyrolysis and dehalogenation of plastics from waste electrical and electronic equipment (WEEE): a review. *Waste Management*, **2013**, 33, 462-73	8.6	187
556	Levulinic esters from the acid-catalysed reactions of sugars and alcohols as part of a bio-refinery. *Green Chemistry*, **2011**, 13, 1676	10	186
555	Effect of temperature on gas composition and char structural features of pyrolyzed agricultural residues. *Bioresource Technology*, **2011**, 102, 8211-9	11	176
554	Characterization of solid residues from municipal solid waste incinerator. *Fuel*, **2004**, 83, 1397-1405	7.1	156
553	Influence of different demineralization treatments on physicochemical structure and thermal degradation of biomass. *Bioresource Technology*, **2013**, 146, 254-260	11	148
552	Chemical recycling of brominated flame retarded plastics from e-waste for clean fuels production: A review. *Renewable and Sustainable Energy Reviews*, **2016**, 61, 433-450	16.2	148
551	Investigation of the steam reforming of a series of model compounds derived from bio-oil for hydrogen production. *Applied Catalysis B: Environmental*, **2009**, 88, 376-385	21.8	146
550	Evaluation of the porous structure development of chars from pyrolysis of rice straw: Effects of pyrolysis temperature and heating rate. *Journal of Analytical and Applied Pyrolysis*, **2012**, 98, 177-183	6	145
549	Gas-phase elemental mercury removal by novel carbon-based sorbents. *Carbon*, **2012**, 50, 362-371	10.4	144
548	Investigation of steam reforming of acetic acid to hydrogen over Ni□o metal catalyst. *Journal of Molecular Catalysis A*, **2007**, 261, 43-48		137
547	The activity and mechanism study of Fe□Mn□e/□Al2O3 catalyst for low temperature selective catalytic reduction of NO with NH3. *Fuel*, **2015**, 139, 232-239	7.1	133
546	Polymerization on heating up of bio-oil: A model compound study. *AICHE Journal*, **2013**, 59, 888-900	3.6	130
545	Release characteristics of alkali and alkaline earth metallic species during biomass pyrolysis and steam gasification process. *Bioresource Technology*, **2012**, 116, 278-84	11	130
544	Acid-Catalyzed Conversion of Xylose in 20 Solvents: Insight into Interactions of the Solvents with Xylose, Furfural, and the Acid Catalyst. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 2562-2575	8.3	129
543	Reaction pathways of glucose during esterification: effects of reaction parameters on the formation of humin type polymers. *Bioresource Technology*, **2011**, 102, 10104-13	11	120

542	Catalytic effects of inherent alkali and alkaline earth metallic species on steam gasification of biomass. *International Journal of Hydrogen Energy*, **2015**, 40, 15460-15469	6.7	119
541	Comparative study of alumina-supported transition metal catalysts for hydrogen generation by steam reforming of acetic acid. *Applied Catalysis B: Environmental*, **2010**, 99, 289-297	21.8	119
540	Effects of inherent alkali and alkaline earth metallic species on biomass pyrolysis at different temperatures. *Bioresource Technology*, **2015**, 192, 23-30	11	118
539	Cobalt manganese oxides modified titania catalysts for oxidation of elemental mercury at low flue gas temperature. *Chemical Engineering Journal*, **2014**, 236, 29-38	14.7	116
538	Removal of elemental mercury by bamboo charcoal impregnated with H2O2. *Fuel*, **2011**, 90, 1471-1475	7.1	113
537	FTIR study of pyrolysis products evolving from typical agricultural residues. *Journal of Analytical and Applied Pyrolysis*, **2010**, 88, 117-123	6	106
536	Zero-Dimensional Perovskite Nanocrystals for Efficient Luminescent Solar Concentrators. *Advanced Functional Materials*, **2019**, 29, 1902262	15.6	102
535	Catalytic oxidation of Hg0 by CuO□MnO2□e2O3/□Al2O3 catalyst. *Chemical Engineering Journal*, **2013**, 225, 68-75	14.7	101
534	The activity and characterization of MnOx□eO2□rO2/□Al2O3 catalysts for low temperature selective catalytic reduction of NO with NH3. *Chemical Engineering Journal*, **2014**, 243, 347-354	14.7	99
533	Steam reforming of acetic acid over Ni/ZrO2 catalysts: Effects of nickel loading and particle size on product distribution and coke formation. *Applied Catalysis A: General*, **2012**, 417-418, 281-289	5.1	97
532	Effects of heating rate on the evolution of bio-oil during its pyrolysis. *Energy Conversion and Management*, **2018**, 163, 420-427	10.6	93
531	One-Pot Synthesis of Levulinic Acid/Ester from C5 Carbohydrates in a Methanol Medium. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 1593-1599	8.3	92
530	Characterization of char from rapid pyrolysis of rice husk. *Fuel Processing Technology*, **2008**, 89, 1096-1105	7.2	87
529	Upgrading biomass-derived furans via acid-catalysis/hydrogenation: the remarkable difference between water and methanol as the solvent. *Green Chemistry*, **2015**, 17, 219-224	10	86
528	Enhancing carbon dioxide gas-diffusion electrolysis by creating a hydrophobic catalyst microenvironment. *Nature Communications*, **2021**, 12, 136	17.4	82
527	Structural evolution of maize stalk/char particles during pyrolysis. *Bioresource Technology*, **2009**, 100, 4877-83	11	81
526	Ag modified Mn□e/□Al2O3 catalyst for selective catalytic reduction of NO with NH3 at low-temperature. *Fuel Processing Technology*, **2015**, 135, 66-72	7.2	80
525	Steam reforming of acetic acid over Ni/Al2O3 catalysts: Correlation of nickel loading with properties and catalytic behaviors of the catalysts. *Fuel*, **2018**, 217, 389-403	7.1	79

524	Acid-catalyzed conversion of xylose in methanol-rich medium as part of biorefinery. *ChemSusChem*, **2012**, 5, 1427-34	8.3	77
523	Recent Developments in Polymeric Carbon Nitride-Derived Photocatalysts and Electrocatalysts for Nitrogen Fixation. *ACS Catalysis*, **2019**, 9, 10260-10278	13.1	76
522	Evolution of Aromatic Structures during the Low-Temperature Electrochemical Upgrading of Bio-oil. *Energy & Fuels*, **2019**, 33, 11292-11301	4.1	76
521	Impacts of nickel loading on properties, catalytic behaviors of Ni/Al2O3 catalysts and the reaction intermediates formed in methanation of CO2. *International Journal of Hydrogen Energy*, **2019**, 44, 9291-9306	6.7	75
520	Pyrolysis of poplar, cellulose and lignin: Effects of acidity and alkalinity of the metal oxide catalysts. *Journal of Analytical and Applied Pyrolysis*, **2018**, 134, 590-605	6	75
519	Effects of volatile–char interactions on in situ destruction of nascent tar during the pyrolysis and gasification of biomass. Part I. Roles of nascent char. *Fuel*, **2014**, 122, 60-66	7.1	75
518	Interaction and kinetic analysis for coal and biomass co-gasification by TG-FTIR. *Bioresource Technology*, **2014**, 154, 313-21	11	74
517	Upgrading of bio-oil via acid-catalyzed reactions in alcohols – A mini review. *Fuel Processing Technology*, **2017**, 155, 2-19	7.2	74
516	Preparation and characterization of Fe2O3–SiO2 composite and its effect on elemental mercury removal. *Chemical Engineering Journal*, **2012**, 195-196, 218-225	14.7	74
515	Catalytic oxidation of Hg(0) by MnOx-CeO2/γ-Al2O3 catalyst at low temperatures. *Chemosphere*, **2014**, 101, 49-54	8.4	73
514	Formation of coke during the pyrolysis of bio-oil. *Fuel*, **2013**, 108, 439-444	7.1	73
513	Effects of steam and CO2 on the characteristics of chars during devolatilization in oxy-steam combustion process. *Applied Energy*, **2016**, 182, 20-28	10.7	73
512	Electrochemical detection of hydroquinone with a gold nanoparticle and graphene modified carbon ionic liquid electrode. *Sensors and Actuators B: Chemical*, **2012**, 168, 27-33	8.5	72
511	High yields of solid carbonaceous materials from biomass. *Green Chemistry*, **2019**, 21, 1128-1140	10	70
510	One-pot conversion of biomass-derived xylose and furfural into levulinate esters via acid catalysis. *Chemical Communications*, **2017**, 53, 2938-2941	5.8	69
509	Mediating acid-catalyzed conversion of levoglucosan into platform chemicals with various solvents. *Green Chemistry*, **2012**, 14, 3087	10	68
508	Progress of the applications of bio-oil. *Renewable and Sustainable Energy Reviews*, **2020**, 134, 110124	16.2	68
507	Evolution of char structure during steam gasification of the chars produced from rapid pyrolysis of rice husk. *Bioresource Technology*, **2012**, 114, 691-7	11	67

506	Char Structural Evolution during Pyrolysis and Its Influence on Combustion Reactivity in Air and Oxy-Fuel Conditions. *Energy & Fuels*, **2012**, 26, 1565-1574	4.1	67
505	Acetic acid steam reforming to hydrogen over Co□Ce/Al2O3 and Co□La/Al2O3 catalysts□The promotion effect of Ce and La addition. *Catalysis Communications*, **2010**, 12, 50-53	3.2	67
504	Inhibition of methane formation in steam reforming reactions through modification of Ni catalyst and the reactants. *Green Chemistry*, **2009**, 11, 724	10	66
503	Methanation of CO2 over Ni/Al2O3 modified with alkaline earth metals: Impacts of oxygen vacancies on catalytic activity. *International Journal of Hydrogen Energy*, **2019**, 44, 8197-8213	6.7	64
502	Coke Formation during Thermal Treatment of Bio-oil. *Energy & Fuels*, **2020**, 34, 7863-7914	4.1	64
501	Elemental mercury (Hg0) removal from containing SO2/NO flue gas by magnetically separable Fe2.45Ti0.55O4/H2O2 advanced oxidation processes. *Chemical Engineering Journal*, **2015**, 273, 381-389	14.7	63
500	Steam reforming of acetic acid over nickel-based catalysts: The intrinsic effects of nickel precursors on behaviors of nickel catalysts. *Applied Catalysis B: Environmental*, **2018**, 237, 538-553	21.8	63
499	Copper-based catalysts with tunable acidic and basic sites for the selective conversion of levulinic acid/ester to □valerolactone or 1,4-pentanediol. *Green Chemistry*, **2019**, 21, 4499-4511	10	63
498	Effects of temperature on the hydrotreatment behaviour of pyrolysis bio-oil and coke formation in a continuous hydrotreatment reactor. *Fuel Processing Technology*, **2016**, 148, 175-183	7.2	63
497	Effects of temperature on the yields and properties of bio-oil from the fast pyrolysis of mallee bark. *Fuel*, **2013**, 108, 400-408	7.1	62
496	Study on the gas evolution and char structural change during pyrolysis of cotton stalk. *Journal of Analytical and Applied Pyrolysis*, **2012**, 97, 130-136	6	62
495	Progress in the reforming of bio-oil derived carboxylic acids for hydrogen generation. *Journal of Power Sources*, **2018**, 403, 137-156	8.9	61
494	Acid-catalysed reactions between methanol and the bio-oil from the fast pyrolysis of mallee bark. *Fuel*, **2012**, 97, 512-522	7.1	60
493	Fractal characteristic of three Chinese coals. *Fuel*, **2004**, 83, 1307-1313	7.1	60
492	The significance of pelletization operating conditions: An analysis of physical and mechanical characteristics as well as energy consumption of biomass pellets. *Renewable and Sustainable Energy Reviews*, **2019**, 105, 332-348	16.2	59
491	Role of O-containing functional groups in biochar during the catalytic steam reforming of tar using the biochar as a catalyst. *Fuel*, **2019**, 253, 441-448	7.1	58
490	A study of the relationships between coal structures and combustion characteristics: The insights from micro-Raman spectroscopy based on 32 kinds of Chinese coals. *Applied Energy*, **2018**, 212, 46-56	10.7	58
489	Upgrading of bio-oil into advanced biofuels and chemicals. Part III. Changes in aromatic structure and coke forming propensity during the catalytic hydrotreatment of a fast pyrolysis bio-oil with Pd/C catalyst. *Fuel*, **2014**, 116, 642-649	7.1	58

488	Effects of volatile–char interactions on in-situ destruction of nascent tar during the pyrolysis and gasification of biomass. Part II. Roles of steam. *Fuel*, **2015**, 143, 555-562	7.1	58
487	Acid-catalyzed conversion of C6 sugar monomer/oligomers to levulinic acid in water, tetrahydrofuran and toluene: Importance of the solvent polarity. *Fuel*, **2015**, 141, 56-63	7.1	57
486	Effects of oxygen species from Fe addition on promoting steam reforming of toluene over Fe–Ni/Al2O3 catalysts. *International Journal of Hydrogen Energy*, **2016**, 41, 17967-17975	6.7	57
485	Bio-oil steam reforming, partial oxidation or oxidative steam reforming coupled with bio-oil dry reforming to eliminate CO2 emission. *International Journal of Hydrogen Energy*, **2010**, 35, 7169-7176	6.7	56
484	Steam reforming of guaiacol over Ni/Al2O3 and Ni/SBA-15: Impacts of support on catalytic behaviors of nickel and properties of coke. *Fuel Processing Technology*, **2019**, 191, 138-151	7.2	55
483	Exergy analysis of a 1000 MW single reheat supercritical CO2 Brayton cycle coal-fired power plant. *Energy Conversion and Management*, **2018**, 173, 348-358	10.6	54
482	Catalytic steam reforming of cellulose-derived compounds using a char-supported iron catalyst. *Fuel Processing Technology*, **2013**, 116, 234-240	7.2	54
481	Effects of CO2 and heating rate on the characteristics of chars prepared in CO2 and N2 atmospheres. *Fuel*, **2015**, 142, 243-249	7.1	53
480	Study on Char Surface Active Sites and Their Relationship to Gasification Reactivity. *Energy & Fuels*, **2013**, 27, 118-125	4.1	53
479	Pyrolysis of different wood species: Impacts of C/H ratio in feedstock on distribution of pyrolysis products. *Biomass and Bioenergy*, **2019**, 120, 28-39	5.3	53
478	Acid-catalyzed conversion of mono- and poly-sugars into platform chemicals: effects of molecular structure of sugar substrate. *Bioresource Technology*, **2013**, 133, 469-74	11	52
477	A mini review of the specialties of the bio-oils produced from pyrolysis of 20 different biomasses. *Renewable and Sustainable Energy Reviews*, **2019**, 114, 109313	16.2	51
476	Pruning of the surface species on Ni/Al2O3 catalyst to selective production of hydrogen via acetone and acetic acid steam reforming. *Applied Catalysis A: General*, **2012**, 427-428, 49-57	5.1	51
475	Exergy analysis of the turbine system in a 1000 MW double reheat ultra-supercritical power plant. *Energy*, **2017**, 119, 540-548	7.9	50
474	Evolution of the functionalities and structures of biochar in pyrolysis of poplar in a wide temperature range. *Bioresource Technology*, **2020**, 304, 123002	11	50
473	Mini-Review on Char Catalysts for Tar Reforming during Biomass Gasification: The Importance of Char Structure. *Energy & Fuels*, **2020**, 34, 1219-1229	4.1	50
472	Investigation of deactivation mechanisms of a solid acid catalyst during esterification of the bio-oils from mallee biomass. *Applied Energy*, **2013**, 111, 94-103	10.7	49
471	Destruction of tar during volatile-char interactions at low temperature. *Fuel Processing Technology*, **2018**, 171, 215-222	7.2	49

470	Biomass-derived sugars and furans: Which polymerize more during their hydrolysis?. *Fuel Processing Technology*, **2015**, 137, 212-219	7.2	48
469	Syngas production by CO2 reforming of ethanol over Ni/Al2O3 catalyst. *Catalysis Communications*, **2009**, 10, 1633-1637	3.2	48
468	Direct conversion of furfural to levulinic acid/ester in dimethoxymethane: Understanding the mechanism for polymerization. *Green Energy and Environment*, **2019**, 4, 400-413	5.7	48
467	Effects of reaction conditions on the emission behaviors of arsenic, cadmium and lead during sewage sludge pyrolysis. *Bioresource Technology*, **2017**, 236, 138-145	11	47
466	Exergy analysis of a 1000 MW double reheat ultra-supercritical power plant. *Energy Conversion and Management*, **2017**, 147, 155-165	10.6	47
465	Production of value-added chemicals from bio-oil via acid catalysis coupled with liquid□liquid extraction. *RSC Advances*, **2012**, 2, 9366	3.7	47
464	Carbon nanotubes formation and its influence on steam reforming of toluene over Ni/Al2O3 catalysts: Roles of catalyst supports. *Fuel Processing Technology*, **2018**, 176, 7-14	7.2	46
463	Molecular structure characterization of the tetrahydrofuran-microwave-extracted portions from three Chinese low-rank coals. *Fuel*, **2017**, 189, 178-185	7.1	45
462	Vaporization of heavy metals during thermal treatment of model solid waste in a fluidized bed incinerator. *Chemosphere*, **2012**, 86, 1122-6	8.4	45
461	Pyrolysis of Maize Stalk on the Characterization of Chars Formed under Different Devolatilization Conditions. *Energy & Fuels*, **2009**, 23, 4605-4611	4.1	45
460	Adsorption properties of NO and NH3 over MnOx based catalyst supported on □Al2O3. *Chemical Engineering Journal*, **2016**, 302, 570-576	14.7	45
459	Steam reforming of acetic acid over cobalt catalysts: Effects of Zr, Mg and K addition. *International Journal of Hydrogen Energy*, **2017**, 42, 4793-4803	6.7	44
458	Mechanism on heavy metals vaporization from municipal solid waste fly ash by MgCl□6H□O. *Waste Management*, **2016**, 49, 124-130	8.6	44
457	Mechanism Study of Rice Straw Pyrolysis by Fourier Transform Infrared Technique. *Chinese Journal of Chemical Engineering*, **2009**, 17, 522-529	3.2	44
456	Steam reforming of acetic acid for hydrogen production over attapulgite and alumina supported Ni catalysts: Impacts of properties of supports on catalytic behaviors. *International Journal of Hydrogen Energy*, **2019**, 44, 5230-5244	6.7	44
455	Investigation of pathways for transformation of N-heterocycle compounds during sewage sludge pyrolysis process. *Fuel Processing Technology*, **2018**, 182, 37-44	7.2	44
454	Advances in constructing polymeric carbon-nitride-based nanocomposites and their applications in energy chemistry. *Sustainable Energy and Fuels*, **2019**, 3, 611-655	5.8	43
453	Understanding correlation of the interaction between nickel and alumina with the catalytic behaviors in steam reforming and methanation. *Fuel*, **2019**, 250, 176-193	7.1	43

452	Investigation of the Effects of Molecular Structure on Oxygenated Hydrocarbon Steam Re-forming. *Energy & Fuels*, **2009**, 23, 926-933	4.1	43
451	A comparative study of catalytic behaviors of Mn, Fe, Co, Ni, Cu and ZnB ased catalysts in steam reforming of methanol, acetic acid and acetone. *International Journal of Hydrogen Energy*, **2020**, 45, 3815-3832	6.7	43
450	Steam reforming of acetic acid over Ni/Al2O3 catalyst: Correlation of calcination temperature with the interaction of nickel and alumina. *Fuel*, **2018**, 227, 307-324	7.1	42
449	Kinetic models comparison for steam gasification of coal/biomass blend chars. *Bioresource Technology*, **2014**, 171, 253-9	11	42
448	Fe2P@mesoporous carbon nanosheets synthesized via an organic template method as a cathode electrocatalyst for ZnB air batteries. *Journal of Materials Chemistry A*, **2019**, 7, 11321-11330	13	41
447	CO2 sequestration by direct gasB solid carbonation of fly ash with steam addition. *Journal of Cleaner Production*, **2018**, 178, 98-107	10.3	41
446	Fe3-xCuxO4 as highly active heterogeneous Fenton-like catalysts toward elemental mercury removal. *Chemosphere*, **2015**, 125, 16-24	8.4	41
445	Enhanced capture of elemental mercury by bamboo-based sorbents. *Journal of Hazardous Materials* , **2012**, 239-240, 160-6	12.8	41
444	Hydrolysis and glycosidation of sugars during the esterification of fast pyrolysis bio-oil. *Fuel*, **2012**, 95, 146-151	7.1	41
443	Catalytic pyrolysis of poplar wood over transition metal oxides: Correlation of catalytic behaviors with physiochemical properties of the oxides. *Biomass and Bioenergy*, **2019**, 124, 125-141	5.3	40
442	Formation of g-C3N4 Nanotubes towards Superior Photocatalysis Performance. *ChemCatChem*, **2019**, 11, 4558-4567	5.2	40
441	Renewable hydrogen production by a mild-temperature steam reforming of the model compound acetic acid derived from bio-oil. *Journal of Molecular Catalysis A*, **2012**, 355, 123-133		40
440	Facile synthesis of ternary Ag/AgBr-Ag(2)CO(3) hybrids with enhanced photocatalytic removal of elemental mercury driven by visible light. *Journal of Hazardous Materials*, **2016**, 314, 78-87	12.8	40
439	Dewatering of sewage sludge via thermal hydrolysis with ammonia-treated Fenton iron sludge as skeleton material. *Journal of Hazardous Materials*, **2019**, 379, 120810	12.8	39
438	Benign-by-design N-doped carbonaceous materials obtained from the hydrothermal carbonization of sewage sludge for supercapacitor applications. *Green Chemistry*, **2020**, 22, 3885-3895	10	39
437	Effects of H2O Gasification Reaction on the Characteristics of Chars under Oxy-Fuel Combustion Conditions with Wet Recycle. *Energy & Fuels*, **2016**, 30, 9071-9079	4.1	39
436	Evolution of coke structures during the pyrolysis of bio-oil at various temperatures and heating rates. *Journal of Analytical and Applied Pyrolysis*, **2018**, 134, 336-342	6	39
435	Ultra-stable CsPbBr Perovskite Nanosheets for X-Ray Imaging Screen. *Nano-Micro Letters*, **2019**, 11, 52	19.5	38

434	Effects of calcination temperature of electrospun fibrous Ni/Al 2 O 3 catalysts on the dry reforming of methane. *Fuel Processing Technology*, **2017**, 155, 246-251	7.2	38
433	Preparation, Characterization, and Application of Modified Chitosan Sorbents for Elemental Mercury Removal. *Industrial & Engineering Chemistry Research*, **2009**, 48, 4980-4989	3.9	38
432	Opposite effects of self-growth amorphous carbon and carbon nanotubes on the reforming of toluene with Ni/□Al2O3 for hydrogen production. *International Journal of Hydrogen Energy*, **2017**, 42, 14439-14448	6.7	38
431	Effect of Promotion with Ru Addition on the Activity and SO2 Resistance of MnOx□TiO2 Adsorbent for Hg0 Removal. *Industrial & Engineering Chemistry Research*, **2015**, 54, 2930-2939	3.9	37
430	Different reaction behaviours of light or heavy density polyethylene during the pyrolysis with biochar as the catalyst. *Journal of Hazardous Materials*, **2020**, 399, 123075	12.8	37
429	Fundamental Advances in Biomass Autothermal/Oxidative Pyrolysis: A Review. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 11888-11905	8.3	37
428	Catalytic behaviors of alkali metal salt involved in homogeneous volatile and heterogeneous char reforming in steam gasification of cellulose. *Energy Conversion and Management*, **2018**, 158, 147-155	10.6	36
427	Coke formation during the hydrotreatment of bio-oil using NiMo and CoMo catalysts. *Fuel Processing Technology*, **2017**, 155, 261-268	7.2	36
426	Steam Reforming of Acetic Acid to Hydrogen over Fe□o Catalyst. *Chemistry Letters*, **2006**, 35, 452-453	1.7	36
425	Pyrolysis of the aromatic-poor and aromatic-rich fractions of bio-oil: Characterization of coke structure and elucidation of coke formation mechanism. *Applied Energy*, **2019**, 239, 981-990	10.7	36
424	Balanced distribution of Br□sted acidic sites and Lewis acidic sites for highly selective conversion of xylose into levulinic acid/ester over Zr-beta catalysts. *Green Chemistry*, **2019**, 21, 6634-6645	10	36
423	Evolution of structure and activity of char-supported iron catalysts prepared for steam reforming of bio-oil. *Fuel Processing Technology*, **2017**, 158, 180-190	7.2	35
422	The performance and mechanism of bifunctional biocide sodium pyrithione against sulfate reducing bacteria in X80 carbon steel corrosion. *Corrosion Science*, **2019**, 150, 296-308	6.8	35
421	Recent Progresses in Constructing the Highly Efficient Ni Based Catalysts With Advanced Low-Temperature Activity Toward CO Methanation. *Frontiers in Chemistry*, **2020**, 8, 269	5	35
420	Polymerization and cracking during the hydrotreatment of bio-oil and heavy fractions obtained by fractional condensation using Ru/C and NiMo/Al2O3 catalyst. *Journal of Analytical and Applied Pyrolysis*, **2016**, 118, 136-143	6	35
419	Effect of acidic, neutral and alkaline conditions on product distribution and biocrude oil chemistry from hydrothermal liquefaction of microalgae. *Bioresource Technology*, **2018**, 270, 129-137	11	35
418	Effect of calcination temperature on the activity and structure of MnO /TiO2 adsorbent for Hg0 removal. *Fuel Processing Technology*, **2015**, 135, 25-33	7.2	34
417	Evolution of aromatic structures during the reforming of bio-oil: Importance of the interactions among bio-oil components. *Fuel*, **2013**, 111, 805-812	7.1	34

416	Co-production of hydrogen and carbon nanotubes from the decomposition/reforming of biomass-derived organics over Ni/□Al2O3 catalyst: Performance of different compounds. *Fuel*, **2017**, 210, 307-314	7.1	34
415	Characterization of Fly Ashes from Two Chinese Municipal Solid Waste Incinerators. *Energy & Fuels*, **2003**, 17, 1487-1491	4.1	34
414	An experimental research on boiler combustion performance. *Fuel Processing Technology*, **2000**, 68, 139-151	7.2	34
413	Methanation of CO2 over nickel catalysts: Impacts of acidic/basic sites on formation of the reaction intermediates. *Fuel*, **2020**, 262, 116521	7.1	34
412	Hydrothermal liquefaction of cellulose in ammonia/water. *Bioresource Technology*, **2019**, 278, 311-317	11	34
411	Catalytic pyrolysis of flame retarded high impact polystyrene over various solid acid catalysts. *Fuel Processing Technology*, **2017**, 155, 32-41	7.2	33
410	Study on the behavior of heavy metals during thermal treatment of municipal solid waste (MSW) components. *Environmental Science and Pollution Research*, **2016**, 23, 253-65	5.1	33
409	Photocatalytic oxidation removal of Hg0 using ternary Ag/AgI-Ag2CO3 hybrids in wet scrubbing process under fluorescent light. *Applied Surface Science*, **2017**, 392, 1107-1116	6.7	33
408	Self-templated nitrogen-doped mesoporous carbon decorated with double transition-metal active sites for enhanced oxygen electrode catalysis. *Rare Metals*, **2020**, 39, 824-833	5.5	33
407	Effect of the pre-reforming by Fe/bio-char catalyst on a two-stage catalytic steam reforming of bio-oil. *Fuel*, **2019**, 239, 282-289	7.1	33
406	Mercury emission and speciation in fly ash from a 35 MWth large pilot boiler of oxyfuel combustion with different flue gas recycle. *Fuel*, **2017**, 195, 174-181	7.1	32
405	Enhanced photocatalytic activity and characterization of magnetic Ag/BiOI/ZnFe 2 O 4 composites for Hg 0 removal under fluorescent light irradiation. *Applied Surface Science*, **2018**, 433, 914-926	6.7	32
404	Kinetic vaporization of heavy metals during fluidized bed thermal treatment of municipal solid waste. *Waste Management*, **2013**, 33, 340-6	8.6	32
403	Physical and chemical characterization of ashes from a municipal solid waste incinerator in China. *Waste Management and Research*, **2013**, 31, 663-73	4	32
402	Tuning the Microenvironment in Gas-Diffusion Electrodes Enables High-Rate CO2 Electrolysis to Formate. *ACS Energy Letters*, **2021**, 6, 1694-1702	20.1	32
401	Methanation of CO2: Impacts of modifying nickel catalysts with variable-valence additives on reaction mechanism. *Fuel*, **2019**, 254, 115654	7.1	31
400	Raman spectroscopy of biochar from the pyrolysis of three typical Chinese biomasses: A novel method for rapidly evaluating the biochar property. *Energy*, **2020**, 202, 117644	7.9	31
399	Importance of the aromatic structures in volatiles to the in-situ destruction of nascent tar during the volatile□har interactions. *Fuel Processing Technology*, **2015**, 132, 31-38	7.2	31

398	A DFT study of the interaction of elemental mercury with small neutral and charged silver clusters. *Chemical Physics Letters*, **2011**, 517, 227-233	2.5	31
397	Effects of water and alcohols on the polymerization of furan during its acid-catalyzed conversion into benzofuran. *RSC Advances*, **2016**, 6, 40489-40501	3.7	31
396	Steam reforming of the alcohols with varied structures: Impacts of acidic sites of Ni catalysts on coking. *Applied Catalysis A: General*, **2019**, 584, 117162	5.1	30
395	Acid-treatment of C5 and C6 sugar monomers/oligomers: Insight into their interactions. *Fuel Processing Technology*, **2014**, 126, 315-323	7.2	30
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