Peter A Jensen

List of Publications by Year in Descending Order

143 papers	8,900 citations	50 h-index	92 g-index
143 ext. papers	9,828 ext. citations	6.5 avg, IF	6.21 L-index

#	Paper	IF	Citations
143	Influence of kaolin and coal fly ash addition on biomass ash deposition in an entrained flow reactor. *Fuel*, **2022**, 313, 123041	7.1	0
142	Modeling Potassium Capture by Aluminosilicate, Part 2: Coal Fly Ash. *Energy & Fuels*, **2021**, 35, 19725-19736	4.1	6
141	A perspective on catalytic hydropyrolysis of biomass. *Renewable and Sustainable Energy Reviews*, **2021**, 143, 110960	16.2	10
140	Self-heating and thermal runaway of biomass 1. Lab-scale experiments and modeling for conditions resembling power plant mills. *Fuel*, **2021**, 294, 120281	7.1	4
139	Effect of gasification reactions on biomass char conversion under pulverized fuel combustion conditions. *Proceedings of the Combustion Institute*, **2021**, 38, 3919-3928	5.9	2
138	Pyrolysis of antibiotic mycelial dreg and characterization of obtained gas, liquid and biochar. *Journal of Hazardous Materials*, **2021**, 402, 123826	12.8	11
137	Determination of Zero Dimensional, Apparent Devolatilization Kinetics for Biomass Particles at Suspension Firing Conditions. *Energies*, **2021**, 14, 1018	3.1	1
136	Modeling Potassium Capture by Aluminosilicate, Part 1: Kaolin. *Energy & Fuels*, **2021**, 35, 13984-13998	4.1	3
135	Steam gasification of char derived from penicillin mycelial dreg and lignocellulosic biomass: Influence of P, K and Ca on char reactivity. *Energy*, **2021**, 228, 120605	7.9	1
134	Characterization of Solid Residues from Entrained Flow Gasification of Coal Bio-Oil Slurry. *Energy & Fuels*, **2020**, 34, 5900-5906	4.1	4
133	Insights into the scalability of catalytic upgrading of biomass pyrolysis vapors using micro and bench-scale reactors. *Sustainable Energy and Fuels*, **2020**, 4, 3780-3796	5.8	7
132	Spillback nozzle characterization using pulsating LED shadowgraphy. *Experimental Thermal and Fluid Science*, **2020**, 119, 110172	3	0
131	Enhancing bio-oil quality and energy recovery by atmospheric hydrodeoxygenation of wheat straw pyrolysis vapors using Pt and Mo-based catalysts. *Sustainable Energy and Fuels*, **2020**, 4, 1991-2008	5.8	30
130	Catalytic upgrading of tars generated in a 100 kWth low temperature circulating fluidized bed gasifier for production of liquid bio-fuels in a polygeneration scheme. *Energy Conversion and Management*, **2020**, 207, 112538	10.6	7
129	Deoxygenation of wheat straw fast pyrolysis vapors over Na-Al2O3 catalyst for production of bio-oil with low acidity. *Chemical Engineering Journal*, **2020**, 394, 124878	14.7	21
128	Co-processing of wood and wheat straw derived pyrolysis oils with FCC feed: Product distribution and effect of deoxygenation. *Fuel*, **2020**, 260, 116312	7.1	11
127	Experimental and modelling study on the influence of wood type, density, water content, and temperature on wood devolatilization. *Fuel*, **2020**, 260, 116410	7.1	9

126	The influence of size and morphology on devolatilization of biomass particles. *Fuel*, **2020**, 264, 116755	7.1	14
125	Catalytic hydropyrolysis of biomass using supported CoMo catalysts Effect of metal loading and support acidity. *Fuel*, **2020**, 264, 116807	7.1	11
124	Micro-pyrolyzer screening of hydrodeoxygenation catalysts for efficient conversion of straw-derived pyrolysis vapors. *Journal of Analytical and Applied Pyrolysis*, **2020**, 150, 104868	6	6
123	Performance-screening of metal-impregnated industrial HZSM-5/Al2O3 extrudates for deoxygenation and hydrodeoxygenation of fast pyrolysis vapors. *Journal of Analytical and Applied Pyrolysis*, **2020**, 150, 104892	6	7
122	Catalytic Hydropyrolysis of Biomass Using Molybdenum Sulfide Based Catalyst. Effect of Promoters. *Energy & Fuels*, **2019**, 33, 1302-1313	4.1	21
121	Deoxygenation of Wheat Straw Fast Pyrolysis Vapors using HZSM-5, Al2O3, HZSM-5/Al2O3 Extrudates, and Desilicated HZSM-5/Al2O3 Extrudates. *Energy & Fuels*, **2019**, 33, 6405-6420	4.1	22
120	Catalytic deoxygenation of vapors obtained from ablative fast pyrolysis of wheat straw using mesoporous HZSM-5. *Fuel Processing Technology*, **2019**, 194, 106119	7.2	24
119	Potassium capture by coal fly ash: K2CO3, KCl and K2SO4. *Fuel Processing Technology*, **2019**, 194, 106115	7.2	18
118	New insights into the effect of pressure on catalytic hydropyrolysis of biomass. *Fuel Processing Technology*, **2019**, 193, 392-403	7.2	20
117	From wood chips to pellets to milled pellets: The mechanical processing pathway of Austrian pine and European beech. *Powder Technology*, **2019**, 350, 134-145	5.2	11
116	KOH capture by coal fly ash. *Fuel*, **2019**, 242, 828-836	7.1	16
115	Biomass fly ash deposition in an entrained flow reactor. *Proceedings of the Combustion Institute*, **2019**, 37, 2689-2696	5.9	11
114	Kinetic Parameters for Biomass under Self-Ignition Conditions: Low-Temperature Oxidation and Pyrolysis. *Energy & Fuels*, **2019**, 33, 8606-8619	4.1	7
113	Deactivation of a CoMo Catalyst during Catalytic Hydropyrolysis of Biomass. Part 1. Product Distribution and Composition. *Energy & Fuels*, **2019**, 33, 12374-12386	4.1	8
112	Deactivation of a CoMo Catalyst during Catalytic Hydropyrolysis of Biomass. Part 2. Characterization of the Spent Catalysts and Char. *Energy & Fuels*, **2019**, 33, 12387-12402	4.1	5
111	Impact of ZSM-5 Deactivation on Bio-Oil Quality during Upgrading of Straw Derived Pyrolysis Vapors. *Energy & Fuels*, **2019**, 33, 397-412	4.1	31
110	Potassium Capture by Kaolin, Part 2: K2CO3, KCl, and K2SO4. *Energy & Fuels*, **2018**, 32, 3566-3578	4.1	28
109	Measurements of the NOx precursors and major species concentrations above the grate at a waste-to-energy plant. *Fuel*, **2018**, 222, 475-484	7.1	9

108	Melting behaviour of raw materials and recycled stone wool waste. *Journal of Non-Crystalline Solids*, **2018**, 485, 34-41	3.9	4
107	Wood pellet milling tests in a suspension-fired power plant. *Fuel Processing Technology*, **2018**, 173, 89-102	7.2	9
106	Potassium Capture by Kaolin, Part 1: KOH. *Energy & Fuels*, **2018**, 32, 1851-1862	4.1	26
105	Tensile Adhesion Strength of Biomass Ash Deposits: Effect of the Temperature Gradient and Ash Chemistry. *Energy & Fuels*, **2018**, 32, 4432-4441	4.1	14
104	Biomass ash induced agglomeration in fluidized bed. Part 2: Effect of potassium salts in different gas composition. *Fuel Processing Technology*, **2018**, 180, 130-139	7.2	24
103	Predicting Biomass Char Yield from High Heating Rate Devolatilization Using Chemometrics. *Energy & Fuels*, **2018**, 32, 9572-9580	4.1	10
102	High Heating Rate Devolatilization Kinetics of Pulverized Biomass Fuels. *Energy & Fuels*, **2018**, 32, 12955-12961	4.1	8
101	Aerodynamic and Physical Characterization of Refuse Derived Fuel. *Energy & Fuels*, **2018**, 32, 7685-7700	4.1	4
100	Transportation fuels from biomass fast pyrolysis, catalytic hydrodeoxygenation, and catalytic fast hydropyrolysis. *Progress in Energy and Combustion Science*, **2018**, 68, 268-309	33.6	122
99	Mechanistic Model for Ash Deposit Formation in Biomass Suspension Firing. Part 1: Model Verification by Use of Entrained Flow Reactor Experiments. *Energy & Fuels*, **2017**, 31, 2771-2789	4.1	15
98	Mechanistic Model for Ash Deposit Formation in Biomass Suspension Firing. Part 2: Model Verification by Use of Full-Scale Tests. *Energy & Fuels*, **2017**, 31, 2790-2802	4.1	6
97	Fly Ash Formation during Suspension Firing of Biomass: Effects of Residence Time and Fuel Type. *Energy & Fuels*, **2017**, 31, 555-570	4.1	21
96	Imaging of Flames in Cement Kilns To Study the Influence of Different Fuel Types. *Energy & Fuels*, **2017**, 31, 11424-11438	4.1	6
95	Impact of KCl impregnation on single particle combustion of wood and torrefied wood. *Fuel*, **2017**, 206, 684-689	7.1	11
94	Deposit Shedding in Biomass-Fired Boilers: Shear Adhesion Strength Measurements. *Energy & Fuels*, **2017**, 31, 8733-8741	4.1	15
93	Atmospheric Hydrodeoxygenation of Biomass Fast Pyrolysis Vapor by MoO3. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 5432-5440	8.3	37
92	Characterization of free radicals by electron spin resonance spectroscopy in biochars from pyrolysis at high heating rates and at high temperatures. *Biomass and Bioenergy*, **2016**, 94, 117-129	5.3	39
91	Deactivation of Ni-MoS2 by bio-oil impurities during hydrodeoxygenation of phenol and octanol. *Applied Catalysis A: General*, **2016**, 523, 159-170	5.1	43

90	Agglomeration and Deposition Behavior of Solid Recovered Fuel. *Energy & Fuels*, **2016**, 30, 7858-7866	4.1	2
89	Extension of apparent devolatilization kinetics from thermally thin to thermally thick particles in zero dimensions for woody biomass. *Energy*, **2016**, 95, 279-290	7.9	22
88	Behavior of Alkali Metals and Ash in a Low-Temperature Circulating Fluidized Bed (LTCFB) Gasifier. *Energy & Fuels*, **2016**,	4.1	3
87	Influence on nickel particle size on the hydrodeoxygenation of phenol over Ni/SiO 2. *Catalysis Today*, **2016**, 259, 277-284	5.3	87
86	Direct upgrading of fast pyrolysis lignin vapor over the HZSM-5 catalyst. *Green Chemistry*, **2016**, 18, 1965-1975	10	92
85	Comparison of high temperature chars of wheat straw and rice husk with respect to chemistry, morphology and reactivity. *Biomass and Bioenergy*, **2016**, 86, 76-87	5.3	48
84	Devolatilization kinetics of woody biomass at short residence times and high heating rates and peak temperatures. *Applied Energy*, **2016**, 162, 245-256	10.7	31
83	Effect of fast pyrolysis conditions on biomass solid residues at high temperatures. *Fuel Processing Technology*, **2016**, 143, 118-129	7.2	55
82	Entrained flow gasification of coal/bio-oil slurries. *Energy*, **2016**, 111, 793-802	7.9	27
81	Effects of several types of biomass fuels on the yield, nanostructure and reactivity of soot from fast pyrolysis at high temperatures. *Applied Energy*, **2016**, 171, 468-482	10.7	70
80	Defluidization in fluidized bed gasifiers using high-alkali content fuels. *Biomass and Bioenergy*, **2016** , 91, 160-174	5.3	18
79	Influence of Torrefaction on Single Particle Combustion of Wood. *Energy & Fuels*, **2016**, 30, 5772-5778	4.1	20
78	Influence of fast pyrolysis conditions on yield and structural transformation of biomass chars. *Fuel Processing Technology*, **2015**, 140, 205-214	7.2	75
77	Activity and stability of Mo2C/ZrO2 as catalyst for hydrodeoxygenation of mixtures of phenol and 1-octanol. *Journal of Catalysis*, **2015**, 328, 208-215	7.3	78
76	Deposit Probe Measurements in Large Biomass-Fired Grate Boilers and Pulverized-Fuel Boilers. *Energy & Fuels*, **2014**, 28, 3539-3555	4.1	20
75	Release of Chlorine and Sulfur during Biomass Torrefaction and Pyrolysis. *Energy & Fuels*, **2014**, 28, 3738-3746	4.1	103
74	Stability and resistance of nickel catalysts for hydrodeoxygenation: carbon deposition and effects of sulfur, potassium, and chlorine in the feed. *Catalysis Science and Technology*, **2014**, 4, 3672-3686	5.5	57
73	Properties of slurries made of fast pyrolysis oil and char or beech wood. *Biomass and Bioenergy*, **2014**, 61, 227-235	5.3	8

72	Electron Microscopy Study of the Deactivation of Nickel Based Catalysts for Bio Oil Hydrodeoxygenation. *Microscopy and Microanalysis*, **2014**, 20, 458-459	0.5	
71	Comparison of Lignin, Macroalgae, Wood, and Straw Fast Pyrolysis. *Energy & Fuels*, **2013**, 27, 1399-1409	4.1	111
70	Influence of the Pyrolysis Temperature on Sewage Sludge Product Distribution, Bio-Oil, and Char Properties. *Energy & Fuels*, **2013**, 27, 1419-1427	4.1	72
69	Influence of Biomass Chemical Properties on Torrefaction Characteristics. *Energy & Fuels*, **2013**, 27, 7541-7548	4.1	47
68	Impact of coal fly ash addition on ash transformation and deposition in a full-scale wood suspension-firing boiler. *Fuel*, **2013**, 113, 632-643	7.1	55
67	Fast Pyrolysis of Lignin Using a Pyrolysis Centrifuge Reactor. *Energy & Fuels*, **2013**, 27, 3802-3810	4.1	46
66	Screening of Catalysts for Hydrodeoxygenation of Phenol as a Model Compound for Bio-oil. *ACS Catalysis*, **2013**, 3, 1774-1785	13.1	294
65	Trace elements in co-combustion of solid recovered fuel and coal. *Fuel Processing Technology*, **2013**, 105, 212-221	7.2	47
64	Performance of diesel particulate filter catalysts in the presence of biodiesel ash species. *Fuel*, **2013**, 106, 234-240	7.1	25
63	Characterization of Residual Particulates from Biomass Entrained Flow Gasification. *Energy & Fuels*, **2013**, 27, 262-270	4.1	38
62	Efficient Fuel Pretreatment: Simultaneous Torrefaction and Grinding of Biomass. *Energy & Fuels*, **2013**, 27, 7531-7540	4.1	17
61	Experimental Study on Effects of Particle Shape and Operating Conditions on Combustion Characteristics of Single Biomass Particles. *Energy & Fuels*, **2013**, 27, 507-514	4.1	58
60	Co-firing of Coal with Biomass and Waste in Full-Scale Suspension-Fired Boilers **2013**, 781-800		1
59	Experimental Investigation of Combustion Behavior of Flash Pyrolysis Oil **2013**, 181-187		
58	Biomass Gasification Behavior in an Entrained Flow Reactor: Gas Product Distribution and Soot Formation. *Energy & Fuels*, **2012**, 26, 5992-6002	4.1	78
57	Suspension-Firing of Biomass. Part 2: Boiler Measurements of Ash Deposit Shedding. *Energy & Fuels*, **2012**, 26, 5241-5255	4.1	21
56	Catalytic Conversion of Syngas into Higher Alcohols over Carbide Catalysts. *Industrial & Engineering Chemistry Research*, **2012**, 51, 4161-4172	3.9	40
55	Suspension-Firing of Biomass. Part 1: Full-Scale Measurements of Ash Deposit Build-up. *Energy & Fuels*, **2012**, 26, 2317-2330	4.1	26

54	High-temperature entrained flow gasification of biomass. *Fuel*, **2012**, 93, 589-600	7.1	115
53	Ash transformation and deposit build-up during biomass suspension and grate firing: Full-scale experimental studies. *Fuel Processing Technology*, **2012**, 97, 93-106	7.2	59
52	A review of catalytic upgrading of bio-oil to engine fuels. *Applied Catalysis A: General*, **2011**, 407, 1-19	5.1	1228
51	Dust-Firing of Straw and Additives: Ash Chemistry and Deposition Behavior. *Energy & Fuels*, **2011**, 25, 2862-2873	4.1	52
50	Effects of Feed Composition and Feed Impurities in the Catalytic Conversion of Syngas to Higher Alcohols over Alkali-Promoted Cobalt Molybdenum Sulfide. *Industrial & Engineering Chemistry Research*, **2011**, 50, 7949-7963	3.9	37
49	Release and Transformation of Inorganic Elements in Combustion of a High-Phosphorus Fuel. *Energy & Fuels*, **2011**, 25, 2874-2886	4.1	58
48	Influence of fast pyrolysis temperature on biochar labile fraction and short-term carbon loss in a loamy soil. *Biomass and Bioenergy*, **2011**, 35, 1182-1189	5.3	227
47	Modeling char conversion under suspension fired conditions in O2/N2 and O2/CO2 atmospheres. *Fuel*, **2011**, 90, 2224-2239	7.1	25
46	Co-combustion of pulverized coal and solid recovered fuel in an entrained flow reactor General combustion and ash behaviour. *Fuel*, **2011**, 90, 1980-1991	7.1	57
45	Leaching from waste incineration bottom ashes treated in a rotary kiln. *Waste Management and Research*, **2011**, 29, 995-1007	4	21
44	Release of Corrosive Species above the Grate in a Waste Boiler and the Implication for Improved Electrical Efficiency. *Energy & Fuels*, **2010**, 24, 5696-5707	4.1	7
43	Coupling of Alcohols over Alkali-Promoted Cobalt Molybdenum Sulfide. *ChemCatChem*, **2010**, 2, 523-526	5.2	26
42	Effect and modeling of glucose inhibition and in situ glucose removal during enzymatic hydrolysis of pretreated wheat straw. *Applied Biochemistry and Biotechnology*, **2010**, 160, 280-97	3.2	61
41	Reactor design for minimizing product inhibition during enzymatic lignocellulose hydrolysis: I. Significance and mechanism of cellobiose and glucose inhibition on cellulolytic enzymes. *Biotechnology Advances*, **2010**, 28, 308-24	17.8	219
40	Reactor design for minimizing product inhibition during enzymatic lignocellulose hydrolysis: II. Quantification of inhibition and suitability of membrane reactors. *Biotechnology Advances*, **2010**, 28, 407-25	17.8	118
39	Coal devolatilization and char conversion under suspension fired conditions in O2/N2 and O2/CO2 atmospheres. *Fuel*, **2010**, 89, 3373-3380	7.1	82
38	Oxy-fuel combustion of solid fuels. *Progress in Energy and Combustion Science*, **2010**, 36, 581-625	33.6	819
37	Shedding of ash deposits. *Progress in Energy and Combustion Science*, **2009**, 35, 31-56	33.6	127

36	Modelling solid-convective flash pyrolysis of straw and wood in the Pyrolysis Centrifuge Reactor. *Biomass and Bioenergy*, **2009**, 33, 999-1011	5.3	32
35	Determining the elemental composition of fuels by bomb calorimetry and the inverse correlation of HHV with elemental composition. *Biomass and Bioenergy*, **2009**, 33, 534-537	5.3	17
34	Effects of H2S and process conditions in the synthesis of mixed alcohols from syngas over alkali promoted cobalt-molybdenum sulfide. *Applied Catalysis A: General*, **2009**, 366, 29-43	5.1	99
33	Experimental and Numerical Investigation of Gas-Phase Freeboard Combustion. Part 2: Fuel NO Formation. *Energy & Fuels*, **2009**, 23, 5783-5791	4.1	8
32	Release of Potassium from the Systems K□aSi and K□aP□ *Energy & Fuels*, **2009**, 23, 3423-3428	4.1	82
31	Ash Properties of Alternative Biomass. *Energy & Fuels*, **2009**, 23, 1965-1976	4.1	34
30	Biomass Suspension Combustion: Effect of Two-Stage Combustion on NOx Emissions in a Laboratory-Scale Swirl Burner. *Energy & Fuels*, **2009**, 23, 1398-1405	4.1	12
29	Experimental and Numerical Investigation of Gas-Phase Freeboard Combustion. Part 1: Main Combustion Process. *Energy & Fuels*, **2009**, 23, 5773-5782	4.1	16
28	Suspension Combustion of Wood: Influence of Pyrolysis Conditions on Char Yield, Morphology, and Reactivity. *Energy & Fuels*, **2008**, 22, 2955-2962	4.1	58
27	Release to the Gas Phase of Inorganic Elements during Wood Combustion. Part 2: Influence of Fuel Composition. *Energy & Fuels*, **2008**, 22, 1598-1609	4.1	217
26	High Electrical Efficiency by Dividing the Combustion Products **2008**,		5
25	A kinetic study of gaseous potassium capture by coal minerals in a high temperature fixed-bed reactor. *Fuel*, **2008**, 87, 3304-3312	7.1	52
24	Alkali/Chloride release during refuse incineration on a grate: Full-scale experimental findings. *Fuel Processing Technology*, **2008**, 89, 528-539	7.2	26
23	Aerosol Formation during the Combustion of Straw with Addition of Sorbents. *Energy & Fuels*, **2007**, 21, 699-709	4.1	36
22	Ash transformation during co-firing coal and straw. *Fuel*, **2007**, 86, 1008-1020	7.1	127
21	Dynamic mechanistic model of superheater deposit growth and shedding in a biomass fired grate boiler. *Fuel*, **2007**, 86, 1519-1533	7.1	79
20	The Effects of Ca-Based Sorbents on Sulfur Retention in Bottom Ash from Grate-Fired Annual Biomass. *Energy & Fuels*, **2006**, 20, 796-806	4.1	25
19	Experimental Investigation of Ash Deposit Shedding in a Straw-Fired Boiler. *Energy & Fuels*, **2006**, 20, 512-519	4.1	28

18	Release to the Gas Phase of Inorganic Elements during Wood Combustion. Part 1: Development and Evaluation of Quantification Methods. *Energy & Fuels*, **2006**, 20, 964-978	4.1	154
17	Retention of Organic Elements during Solid Fuel Pyrolysis with Emphasis on the Peculiar Behavior of Nitrogen. *Energy & Fuels*, **2005**, 19, 1631-1643	4.1	50
16	Secondary Capture of Chlorine and Sulfur during Thermal Conversion of Biomass. *Energy & Fuels*, **2005**, 19, 606-617	4.1	66
15	Heat transfer in ash deposits: A modelling tool-box. *Progress in Energy and Combustion Science*, **2005**, 31, 371-421	33.6	95
14	Numerical modeling of straw combustion in a fixed bed. *Fuel*, **2005**, 84, 389-403	7.1	167
13	Transformation and Release to the Gas Phase of Cl, K, and S during Combustion of Annual Biomass. *Energy & Fuels*, **2004**, 18, 1385-1399	4.1	431
12	Sulfur Transformations during Thermal Conversion of Herbaceous Biomass. *Energy & Fuels*, **2004**, 18, 810-819	4.1	154
11	SEM Investigation of Superheater Deposits from Biomass-Fired Boilers. *Energy & Fuels*, **2004**, 18, 378-384	4.1	76
10	Simultaneous Thermal Analysis (STA) on Ash from High-Alkali Biomass. *Energy & Fuels*, **2004**, 18, 1066-1076	4.1	100
9	Heat Transfer in a Fixed Bed of Straw Char. *Energy & Fuels*, **2003**, 17, 1251-1258	4.1	20
8	Experimental study of char thermal deactivation. *Fuel*, **2002**, 81, 1065-1075	7.1	70
7	Pretreatment of straw for power production by pyrolysis and char wash. *Biomass and Bioenergy*, **2001**, 20, 431-446	5.3	85
6	Removal of K and Cl by leaching of straw char. *Biomass and Bioenergy*, **2001**, 20, 447-457	5.3	61
5	The Influence of Inorganic Materials on the Thermal Deactivation of Fuel Chars. *Energy & Fuels*, **2001**, 15, 1110-1122	4.1	85
4	Experimental Investigation of the Transformation and Release to Gas Phase of Potassium and Chlorine during Straw Pyrolysis. *Energy & Fuels*, **2000**, 14, 1280-1285	4.1	304
3	Deposition Investigation in Straw-Fired Boilers. *Energy & Fuels*, **1997**, 11, 1048-1055	4.1	91
2	Using Mie scattering for measuring size changes of individual particles. *Journal of Physics E: Scientific Instruments*, **1988**, 21, 378-383		2
1	Influence of wood pellets properties on their grinding performance. *Biomass Conversion and Biorefinery*,1	2.3	1