Peter A Jensen

List of Publications by Year
in descending order

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143 papers	10,663 citations	29994 54 h-index	32761 100 g-index
143 all docs	143 docs citations	143 times ranked	8371 citing authors

#	Article	IF	Citations
1	Influence of kaolin and coal fly ash addition on biomass ash deposition in an entrained flow reactor. Fuel, 2022, 313, 123041.	3.4	10
2	Effect of gasification reactions on biomass char conversion under pulverized fuel combustion conditions. Proceedings of the Combustion Institute, 2021, 38, 3919-3928.	2.4	7
3	Pyrolysis of antibiotic mycelial dreg and characterization of obtained gas, liquid and biochar. Journal of Hazardous Materials, 2021, 402, 123826.	6.5	35
4	Determination of Zero Dimensional, Apparent Devolatilization Kinetics for Biomass Particles at Suspension Firing Conditions. Energies, 2021, 14, 1018.	1.6	3
5	A perspective on catalytic hydropyrolysis of biomass. Renewable and Sustainable Energy Reviews, 2021, 143, 110960.	8.2	38
6	Self-heating and thermal runaway of biomass â€“ Lab-scale experiments and modeling for conditions resembling power plant mills. Fuel, 2021, 294, 120281.	3.4	6
7	Modeling Potassium Capture by Aluminosilicate, Part 1: Kaolin. Energy & Fuels, 2021, 35, 13984-13998.	2.5	6
8	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.	4.5	8
9	Modeling Potassium Capture by Aluminosilicate, Part 2: Coal Fly Ash. Energy & Fuels, 2021, 35, 19725-19736.	2.5	4
10	Co-processing of wood and wheat straw derived pyrolysis oils with FCC feedâ€"Product distribution and effect of deoxygenation. Fuel, 2020, 260, 116312.	3.4	25
11	Experimental and modelling study on the influence of wood type, density, water content, and temperature on wood devolatilization. Fuel, 2020, 260, 116410.	3.4	18
12	The influence of size and morphology on devolatilization of biomass particles. Fuel, 2020, 264, 116755.	3.4	16
13	Catalytic hydropyrolysis of biomass using supported CoMo catalysts â€“ Effect of metal loading and support acidity. Fuel, 2020, 264, 116807.	3.4	22
14	Micro-pyrolyzer screening of hydrodeoxygenation catalysts for efficient conversion of straw-derived pyrolysis vapors. Journal of Analytical and Applied Pyrolysis, 2020, 150, 104868.	2.6	13
15	Performance-screening of metal-impregnated industrial HZSM-5/Î³-Al2O3 extrudates for deoxygenation and hydrodeoxygenation of fast pyrolysis vapors. Journal of Analytical and Applied Pyrolysis, 2020, 150, 104892.	2.6	18
16	Characterization of Solid Residues from Entrained Flow Gasification of Coal Bio-Oil Slurry. Energy & Fuels, 2020, 34, 5900-5906.	2.5	8
17	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.	2.5	11
18	Spillback nozzle characterization using pulsating LED shadowgraphy. Experimental Thermal and Fluid Science, 2020, 119, 110172.	1.5	3

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19	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.	2.5	35
20	Catalytic upgrading of tars generated in a 100ÂkWth low temperature circulating fluidized bed gasifier for production of liquid bio-fuels in a polygeneration scheme. Energy Conversion and Management, 2020, 207, 112538.	4.4	9
21	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.	6.6	31
22	Biomass fly ash deposition in an entrained flow reactor. Proceedings of the Combustion Institute, 2019, 37, 2689-2696.	2.4	19
23	Kinetic Parameters for Biomass under Self-Ignition Conditions: Low-Temperature Oxidation and Pyrolysis. Energy & Fuels, 2019, 33, 8606-8619.	2.5	10
24	Deactivation of a CoMo Catalyst during Catalytic Hydropyrolysis of Biomass. Part 1. Product Distribution and Composition. Energy & Fuels, 2019, 33, 12374-12386.	2.5	11
25	Catalytic Hydropyrolysis of Biomass Using Molybdenum Sulfide Based Catalyst. Effect of Promoters. Energy & Fuels, 2019, 33, 1302-1313.	2.5	24
26	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.	2.5	26
27	Catalytic deoxygenation of vapors obtained from ablative fast pyrolysis of wheat straw using mesoporous HZSM-5. Fuel Processing Technology, 2019, 194, 106119.	3.7	30
28	Potassium capture by coal fly ash: K2CO3, KCl and K2SO4. Fuel Processing Technology, 2019, 194, 106115.	3.7	31
29	New insights into the effect of pressure on catalytic hydropyrolysis of biomass. Fuel Processing Technology, 2019, 193, 392-403.	3.7	25
30	From wood chips to pellets to milled pellets: The mechanical processing pathway of Austrian pine and European beech. Powder Technology, 2019, 350, 134-145.	2.1	20
31	KOH capture by coal fly ash. Fuel, 2019, 242, 828-836.	3.4	25
32	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.	2.5	10
33	Impact of ZSM-5 Deactivation on Bio-Oil Quality during Upgrading of Straw Derived Pyrolysis Vapors. Energy & Fuels, 2019, 33, 397-412.	2.5	38
34	Potassium Capture by Kaolin, Part 2: K₂CO₃, KCl, and K₂SO₄. Energy & Fuels, 2018, 32, 3566-3578.	2.5	36
35	Measurements of the NOx precursors and major species concentrations above the grate at a waste-to-energy plant. Fuel, 2018, 222, 475-484.	3.4	12
36	Melting behaviour of raw materials and recycled stone wool waste. Journal of Non-Crystalline Solids, 2018, 485, 34-41.	1.5	7

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37	Wood pellet milling tests in a suspension-fired power plant. Fuel Processing Technology, 2018, 173, 89-102.	3.7	10
38	Potassium Capture by Kaolin, Part 1: KOH. Energy & Fuels, 2018, 32, 1851-1862.	2.5	34
39	Tensile Adhesion Strength of Biomass Ash Deposits: Effect of the Temperature Gradient and Ash Chemistry. Energy & Fuels, 2018, 32, 4432-4441.	2.5	19
40	High Heating Rate Devolatilization Kinetics of Pulverized Biomass Fuels. Energy & Fuels, 2018, 32, 12955-12961.	2.5	12
41	Aerodynamic and Physical Characterization of Refuse Derived Fuel. Energy & Fuels, 2018, 32, 7685-7700.	2.5	10
42	Transportation fuels from biomass fast pyrolysis, catalytic hydrodeoxygenation, and catalytic fast hydropyrolysis. Progress in Energy and Combustion Science, 2018, 68, 268-309.	15.8	194
43	Biomass ash induced agglomeration in fluidized bed. Part 2: Effect of potassium salts in different gas composition. Fuel Processing Technology, 2018, 180, 130-139.	3.7	30
44	Predicting Biomass Char Yield from High Heating Rate Devolatilization Using Chemometrics. Energy & Fuels, 2018, 32, 9572-9580.	2.5	10
45	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.	2.5	18
46	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.	2.5	6
47	Fly Ash Formation during Suspension Firing of Biomass: Effects of Residence Time and Fuel Type. Energy & Fuels, 2017, 31, 555-570.	2.5	25
48	Imaging of Flames in Cement Kilns To Study the Influence of Different Fuel Types. Energy & Fuels, 2017, 31, 11424-11438.	2.5	12
49	Impact of KCl impregnation on single particle combustion of wood and torrefied wood. Fuel, 2017, 206, 684-689.	3.4	16
50	Deposit Shedding in Biomass-Fired Boilers: Shear Adhesion Strength Measurements. Energy & Fuels, 2017, 31, 8733-8741.	2.5	17
51	Entrained flow gasification of coal/bio-oil slurries. Energy, 2016, 111, 793-802.	4.5	37
52	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.	5.1	82
53	Defluidization in fluidized bed gasifiers using high-alkali content fuels. Biomass and Bioenergy, 2016, 91, 160-174.	2.9	23
54	Influence of Torrefaction on Single Particle Combustion of Wood. Energy & Fuels, 2016, 30, 5772-5778.	2.5	29

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55	Atmospheric Hydrodeoxygenation of Biomass Fast Pyrolysis Vapor by MoO₃. ACS Sustainable Chemistry and Engineering, 2016, 4, 5432-5440.	3.2	44
56	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.	2.9	64
57	Deactivation of Ni-MoS2 by bio-oil impurities during hydrodeoxygenation of phenol and octanol. Applied Catalysis A: General, 2016, 523, 159-170.	2.2	62
58	Agglomeration and Deposition Behavior of Solid Recovered Fuel. Energy & Fuels, 2016, 30, 7858-7866.	2.5	5
59	Extension of apparent devolatilization kinetics from thermally thin to thermally thick particles in zero dimensions for woody biomass. Energy, 2016, 95, 279-290.	4.5	27
60	Behavior of Alkali Metals and Ash in a Low-Temperature Circulating Fluidized Bed (LTCFB) Gasifier. Energy & Fuels, 2016, , .	2.5	4
61	Influence on nickel particle size on the hydrodeoxygenation of phenol over Ni/SiO 2. Catalysis Today, 2016, 259, 277-284.	2.2	126
62	Direct upgrading of fast pyrolysis lignin vapor over the HZSM-5 catalyst. Green Chemistry, 2016, 18, 1965-1975.	4.6	117
63	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.	2.9	57
64	Devolatilization kinetics of woody biomass at short residence times and high heating rates and peak temperatures. Applied Energy, 2016, 162, 245-256.	5.1	35
65	Effect of fast pyrolysis conditions on biomass solid residues at high temperatures. Fuel Processing Technology, 2016, 143, 118-129.	3.7	62
66	Activity and stability of Mo2C/ZrO2 as catalyst for hydrodeoxygenation of mixtures of phenol and 1-octanol. Journal of Catalysis, 2015, 328, 208-215.	3.1	100
67	Influence of fast pyrolysis conditions on yield and structural transformation of biomass chars. Fuel Processing Technology, 2015, 140, 205-214.	3.7	94
68	Deposit Probe Measurements in Large Biomass-Fired Grate Boilers and Pulverized-Fuel Boilers. Energy & Fuels, 2014, 28, 3539-3555.	2.5	23
69	Release of Chlorine and Sulfur during Biomass Torrefaction and Pyrolysis. Energy & Fuels, 2014, 28, 3738-3746.	2.5	128
70	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.	2.1	69
71	Properties of slurries made of fast pyrolysis oil and char or beech wood. Biomass and Bioenergy, 2014, 61, 227-235.	2.9	9
72	Electron Microscopy Study of the Deactivation of Nickel Based Catalysts for Bio Oil Hydrodeoxygenation. Microscopy and Microanalysis, 2014, 20, 458-459.	0.2	0

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73	Comparison of Lignin, Macroalgae, Wood, and Straw Fast Pyrolysis. Energy & Fuels, 2013, 27, 1399-1409.	2.5	127
74	Influence of the Pyrolysis Temperature on Sewage Sludge Product Distribution, Bio-Oil, and Char Properties. Energy & Fuels, 2013, 27, 1419-1427.	2.5	86
75	Influence of Biomass Chemical Properties on Torrefaction Characteristics. Energy & Fuels, 2013, 27, 7541-7548.	2.5	61
76	Impact of coal fly ash addition on ash transformation and deposition in a full-scale wood suspension-firing boiler. Fuel, 2013, 113, 632-643.	3.4	65
77	Fast Pyrolysis of Lignin Using a Pyrolysis Centrifuge Reactor. Energy & Fuels, 2013, 27, 3802-3810.	2.5	51
78	Screening of Catalysts for Hydrodeoxygenation of Phenol as a Model Compound for Bio-oil. ACS Catalysis, 2013, 3, 1774-1785.	5.5	348
79	Trace elements in co-combustion of solid recovered fuel and coal. Fuel Processing Technology, 2013, 105, 212-221.	3.7	57
80	Performance of diesel particulate filter catalysts in the presence of biodiesel ash species. Fuel, 2013, 106, 234-240.	3.4	33
81	Characterization of Residual Particulates from Biomass Entrained Flow Gasification. Energy & Fuels, 2013, 27, 262-270.	2.5	39
82	Efficient Fuel Pretreatment: Simultaneous Torrefaction and Grinding of Biomass. Energy & Fuels, 2013, 27, 7531-7540.	2.5	18
83	Experimental Study on Effects of Particle Shape and Operating Conditions on Combustion Characteristics of Single Biomass Particles. Energy & Fuels, 2013, 27, 507-514.	2.5	69
84	Co-firing of Coal with Biomass and Waste in Full-Scale Suspension-Fired Boilers. , 2013, , 781-800.		4
85	Experimental Investigation of Combustion Behavior of Flash Pyrolysis Oil. , 2013, , 181-187.		0
86	Biomass Gasification Behavior in an Entrained Flow Reactor: Gas Product Distribution and Soot Formation. Energy & Fuels, 2012, 26, 5992-6002.	2.5	93
87	Suspension-Firing of Biomass. Part 2: Boiler Measurements of Ash Deposit Shedding. Energy & Fuels, 2012, 26, 5241-5255.	2.5	21
88	Catalytic Conversion of Syngas into Higher Alcohols over Carbide Catalysts. Industrial & Engineering Chemistry Research, 2012, 51, 4161-4172.	1.8	48
89	Suspension-Firing of Biomass. Part 1: Full-Scale Measurements of Ash Deposit Build-up. Energy & Fuels, 2012, 26, 2317-2330.	2.5	28
90	High-temperature entrained flow gasification of biomass. Fuel, 2012, 93, 589-600.	3.4	132

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91	Ash transformation and deposit build-up during biomass suspension and grate firing: Full-scale experimental studies. Fuel Processing Technology, 2012, 97, 93-106.	3.7	66
92	Dust-Firing of Straw and Additives: Ash Chemistry and Deposition Behavior. Energy & Fuels, 2011, 25, 2862-2873.	2.5	59
93	Effects of Feed Composition and Feed Impurities in the Catalytic Conversion of Syngas to Higher Alcohols over Alkali-Promoted Cobaltâ€"Molybdenum Sulfide. Industrial & Engineering Chemistry Research, 2011, 50, 7949-7963.	1.8	44
94	Release and Transformation of Inorganic Elements in Combustion of a High-Phosphorus Fuel. Energy & Fuels, 2011, 25, 2874-2886.	2.5	70
95	A review of catalytic upgrading of bio-oil to engine fuels. Applied Catalysis A: General, 2011, 407, 1-19.	2.2	1,414
96	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.	2.9	275
97	Modeling char conversion under suspension fired conditions in O2/N2 and O2/CO2 atmospheres. Fuel, 2011, 90, 2224-2239.	3.4	26
98	Co-combustion of pulverized coal and solid recovered fuel in an entrained flow reactor â€" General combustion and ash behaviour. Fuel, 2011, 90, 1980-1991.	3.4	65
99	Leaching from waste incineration bottom ashes treated in a rotary kiln. Waste Management and Research, 2011, 29, 995-1007.	2.2	22
100	Coupling of Alcohols over Alkaliâ€Promoted Cobaltâ€"Molybdenum Sulfide. ChemCatChem, 2010, 2, 523-526.	1.8	26
101	Effect and Modeling of Glucose Inhibition and In Situ Glucose Removal During Enzymatic Hydrolysis of Pretreated Wheat Straw. Applied Biochemistry and Biotechnology, 2010, 160, 280-297.	1.4	74
102	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, 308-324.	6.0	254
103	Reactor design for minimizing product inhibition during enzymatic lignocellulose hydrolysis. Biotechnology Advances, 2010, 28, 407-425.	6.0	135
104	Coal devolatilization and char conversion under suspension fired conditions in O2/N2 and O2/CO2 atmospheres. Fuel, 2010, 89, 3373-3380.	3.4	86
105	Oxy-fuel combustion of solid fuels. Progress in Energy and Combustion Science, 2010, 36, 581-625.	15.8	940
106	Release of Corrosive Species above the Grate in a Waste Boiler and the Implication for Improved Electrical Efficiency. Energy & Fuels, 2010, 24, 5696-5707.	2.5	9
107	Shedding of ash deposits. Progress in Energy and Combustion Science, 2009, 35, 31-56.	15.8	148
108	Modelling solid-convective flash pyrolysis of straw and wood in the Pyrolysis Centrifuge Reactor. Biomass and Bioenergy, 2009, 33, 999-1011.	2.9	38

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109	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.	2.9	26
110	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.	2.2	108
111	Experimental and Numerical Investigation of Gas-Phase Freeboard Combustion. Part 2: Fuel NO Formation. Energy & Fuels, 2009, 23, 5783-5791.	2.5	8
112	Release of Potassium from the Systems Kâˆ’Caâˆ’Si and Kâˆ’Caâˆ’P^{â€}. Energy & Fuels, 2009, 23, 3423-3428.	2.5	93
113	Ash Properties of Alternative Biomass. Energy & Fuels, 2009, 23, 1965-1976.	2.5	40
114	Biomass Suspension Combustion: Effect of Two-Stage Combustion on NO_x Emissions in a Laboratory-Scale Swirl Burner. Energy & Fuels, 2009, 23, 1398-1405.	2.5	12
115	Experimental and Numerical Investigation of Gas-Phase Freeboard Combustion. Part 1: Main Combustion Process. Energy & Fuels, 2009, 23, 5773-5782.	2.5	17
116	A kinetic study of gaseous potassium capture by coal minerals in a high temperature fixed-bed reactor. Fuel, 2008, 87, 3304-3312.	3.4	64
117	Alkali/Chloride release during refuse incineration on a grate: Full-scale experimental findings. Fuel Processing Technology, 2008, 89, 528-539.	3.7	34
118	Suspension Combustion of Wood: Influence of Pyrolysis Conditions on Char Yield, Morphology, and Reactivity. Energy & Fuels, 2008, 22, 2955-2962.	2.5	62
119	Release to the Gas Phase of Inorganic Elements during Wood Combustion. Part 2: Influence of Fuel Composition. Energy & Fuels, 2008, 22, 1598-1609.	2.5	252
120	High Electrical Efficiency by Dividing the Combustion Products. , 2008, , .		7
121	Aerosol Formation during the Combustion of Straw with Addition of Sorbents. Energy & Fuels, 2007, 21, 699-709.	2.5	41
122	Ash transformation during co-firing coal and straw. Fuel, 2007, 86, 1008-1020.	3.4	153
123	Dynamic mechanistic model of superheater deposit growth and shedding in a biomass fired grate boiler. Fuel, 2007, 86, 1519-1533.	3.4	89
124	The Effects of Ca-Based Sorbents on Sulfur Retention in Bottom Ash from Grate-Fired Annual Biomass. Energy & Fuels, 2006, 20, 796-806.	2.5	27
125	Experimental Investigation of Ash Deposit Shedding in a Straw-Fired Boiler. Energy & Fuels, 2006, 20, 512-519.	2.5	30
126	Release to the Gas Phase of Inorganic Elements during Wood Combustion. Part 1:â€‰ Development and Evaluation of Quantification Methods. Energy & Fuels, 2006, 20, 964-978.	2.5	177

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127	Heat transfer in ash deposits: A modelling tool-box. Progress in Energy and Combustion Science, 2005, 31, 371-421.	15.8	108
128	Numerical modeling of straw combustion in a fixed bed. Fuel, 2005, 84, 389-403.	3.4	181
129	Retention of Organic Elements during Solid Fuel Pyrolysis with Emphasis on the Peculiar Behavior of Nitrogen. Energy & Fuels, 2005, 19, 1631-1643.	2.5	56
130	Secondary Capture of Chlorine and Sulfur during Thermal Conversion of Biomass. Energy & Fuels, 2005, 19, 606-617.	2.5	77
131	Transformation and Release to the Gas Phase of Cl, K, and S during Combustion of Annual Biomass. Energy & Fuels, 2004, 18, 1385-1399.	2.5	515
132	Sulfur Transformations during Thermal Conversion of Herbaceous Biomass. Energy & Fuels, 2004, 18, 810-819.	2.5	189
133	SEM Investigation of Superheater Deposits from Biomass-Fired Boilers. Energy & Fuels, 2004, 18, 378-384.	2.5	92
134	Simultaneous Thermal Analysis (STA) on Ash from High-Alkali Biomass. Energy & Fuels, 2004, 18, 1066-1076.	2.5	107
135	Heat Transfer in a Fixed Bed of Straw Char. Energy & Fuels, 2003, 17, 1251-1258.	2.5	21
136	Experimental study of char thermal deactivation. Fuel, 2002, 81, 1065-1075.	3.4	76
137	The Influence of Inorganic Materials on the Thermal Deactivation of Fuel Chars. Energy & Fuels, 2001, 15, 1110-1122.	2.5	97
138	Pretreatment of straw for power production by pyrolysis and char wash. Biomass and Bioenergy, 2001, 20, 431-446.	2.9	98
139	Removal of K and Cl by leaching of straw char. Biomass and Bioenergy, 2001, 20, 447-457.	2.9	70
140	Experimental Investigation of the Transformation and Release to Gas Phase of Potassium and Chlorine during Straw Pyrolysis. Energy & Fuels, 2000, 14, 1280-1285.	2.5	343
141	Deposition Investigation in Straw-Fired Boilers. Energy & Fuels, 1997, 11, 1048-1055.	2.5	98
142	Using Mie scattering for measuring size changes of individual particles. Journal of Physics E: Scientific Instruments, 1988, 21, 378-383.	0.7	2
143	Influence of wood pellets properties on their grinding performance. Biomass Conversion and Biorefinery, 0, , 1.	2.9	2