

Osvalda Senneca

List of Publications by Year in descending order

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75
papers

2,441
citations

172207

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205818

48
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77
docs citations

77
times ranked

2059
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic effects for cellulose-based model fuels under low and high heating rate in air and oxy-fuel atmosphere. <i>Fuel</i> , 2022, 324, 124437.	3.4	6
2	Analytics for Recovery and Reuse of Solid Wastes from Refineries. <i>Energies</i> , 2022, 15, 4026.	1.6	1
3	The influence of temperature on the nature and stability of surface-oxides formed by oxidation of char. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110595.	8.2	8
4	Effects of pressure on lignocellulosic biomass fast pyrolysis in nitrogen and carbon dioxide. <i>Fuel</i> , 2021, 287, 119604.	3.4	18
5	Characterization of surface-oxides on char under periodically changing oxidation/desorption conditions. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110453.	8.2	5
6	On how mild oxidation affects the structure of carbons: Comparative analysis by different techniques. <i>Applications in Energy and Combustion Science</i> , 2020, 1-4, 100006.	0.9	1
7	Lumped Kinetics for Homogeneous Reactions of n-Hexadecane and n-Decene as Model Compounds for PE Pyrolysis Primary Tars. <i>Energies</i> , 2020, 13, 5466.	1.6	3
8	On the agglomeration tendency of carbonaceous fuels in fluidized beds. <i>Fuel</i> , 2020, 277, 118187.	3.4	7
9	Insights on the role of primary and secondary tar reactions in soot inception during fast pyrolysis of coal. <i>Fuel</i> , 2020, 275, 117957.	3.4	19
10	Mechanisms affecting the delayed efficiency of cement based stabilization/solidification processes. <i>Journal of Cleaner Production</i> , 2020, 261, 121230.	4.6	28
11	Looping cycles for low carbon technologies: A survey of recent research activities in Naples. <i>Fuel</i> , 2020, 268, 117371.	3.4	12
12	Pyrolysis and combustion of a solid refinery waste. <i>Fuel</i> , 2020, 267, 117258.	3.4	12
13	Extension of the Thermal Annealing Concepts Developed for Coal Combustion to Conversion of Lignocellulosic Biomass. <i>Energy & Fuels</i> , 2020, 34, 3661-3670.	2.5	10
14	Effect of O ₂ /CO ₂ atmospheres on coal fragmentation. <i>Fuel</i> , 2020, 267, 117145.	3.4	4
15	Thermal treatment of lignin, cellulose and hemicellulose in nitrogen and carbon dioxide. <i>Fuel</i> , 2020, 271, 117656.	3.4	51
16	Round robin test on enthalpies of redox materials for thermochemical heat storage: Perovskites. <i>AIP Conference Proceedings</i> , 2019, .	0.3	4
17	Assessment of coal pyrolysis kinetics for Barracuda or Ansys Fluent. <i>Energy Procedia</i> , 2019, 158, 1999-2004.	1.8	3
18	Review of Carbonaceous Annealing Effects on O ₂ and CO ₂ Coal Reactivity. <i>Energy & Fuels</i> , 2019, 33, 10415-10434.	2.5	5

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19	Comparison of Primary Volatiles from Coal and Biomass Pyrolysis in N_2 and CO_2 . Energy & Fuels, 2019, 33, 12822-12829.	2.5	19
20	High temperature pyrolysis of lignite and synthetic carbons. Fuel, 2019, 241, 264-272.	3.4	8
21	Assessment of combustion rates of coal chars for oxy-combustion applications. Fuel, 2019, 238, 173-185.	3.4	28
22	Fragmentation of pulverized coal in a laminar drop tube reactor: Experiments and model. Proceedings of the Combustion Institute, 2019, 37, 2849-2855.	2.4	8
23	Slow pyrolysis of walnut shells in nitrogen and carbon dioxide. Fuel, 2018, 225, 419-425.	3.4	37
24	Pyrolysis and Thermal Annealing of Coal and Biomass in CO_2 -Rich Atmospheres. Energy & Fuels, 2018, 32, 10701-10708.	2.5	25
25	Effects of CO_2 enriched atmosphere on chars from walnut shells pyrolysis in a drop tube reactor. Fuel, 2018, 229, 235-240.	3.4	17
26	Modelling oxy-pyrolysis of sewage sludge in a rotary kiln reactor. Fuel, 2018, 231, 468-478.	3.4	19
27	Separation and characterization of carbonaceous particulate (soot and char) produced from fast pyrolysis of coal in inert and CO_2 atmospheres. Fuel, 2017, 201, 118-123.	3.4	37
28	Mechanism and Thermochemistry of Coal Char Oxidation and Desorption of Surface Oxides. Energy & Fuels, 2017, 31, 2308-2316.	2.5	11
29	Oxidation of Carbon: What We Know and What We Still Need to Know. Energy Procedia, 2017, 120, 62-74.	1.8	14
30	Application of the Carbon Looping (CarboLoop) Concept in a Novel Twin-Bed Reactor. Energy Procedia, 2017, 120, 447-453.	1.8	1
31	Prediction of structure evolution and fragmentation phenomena during combustion of coal: Effects of heating rate. Fuel Processing Technology, 2017, 166, 228-236.	3.7	29
32	Comparison of pyrolysis test rigs for oxy-fuel conditions. Fuel Processing Technology, 2017, 156, 461-472.	3.7	26
33	Fragmentation of biomass-templated CaO -based pellets. Fuel, 2017, 187, 388-397.	3.4	6
34	Relevance of structure, fragmentation and reactivity of coal to combustion and oxy-combustion. Fuel, 2017, 201, 65-80.	3.4	51
35	Pyrolysis, Combustion, and Fragmentation Model of Coal Particles: Preliminary Results. Combustion Science and Technology, 2016, 188, 759-768.	1.2	10
36	Effects of CO_2 on submicronic carbon particulate (soot) formed during coal pyrolysis in a drop tube reactor. Combustion and Flame, 2016, 172, 302-308.	2.8	34

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37	Effects of oxy-fuel conditions on the products of pyrolysis in a drop tube reactor. Fuel Processing Technology, 2016, 150, 41-49.	3.7	72
38	Probing the chemical nature of surface oxides during coal char oxidation by high-resolution XPS. Carbon, 2015, 90, 181-196.	5.4	88
39	Thermal annealing of coal at high temperature and high pressure. Effects on fragmentation and on rate of combustion, gasification and oxy-combustion. Fuel, 2014, 116, 221-228.	3.4	30
40	Set up of an experimental protocol for the investigation of graphite combustion in supersonic flow. Experimental Thermal and Fluid Science, 2014, 56, 9-15.	1.5	0
41	Development of a dry bottom ash extraction/afterburning system from pulverized fuel co-fired utility boilers. Proceedings of the Combustion Institute, 2013, 34, 2855-2863.	2.4	5
42	Assessment of the thermochemistry of oxygen chemisorption and surface oxide desorption during looping combustion of coal char. Proceedings of the Combustion Institute, 2013, 34, 2787-2793.	2.4	14
43	A semidetailed model of primary fragmentation of coal. Fuel, 2013, 104, 253-261.	3.4	68
44	Beneficiation of coal fly ashes by oxygen chemisorption. Experimental Thermal and Fluid Science, 2012, 43, 76-81.	1.5	4
45	Kinetics of coal oxy-combustion by means of different experimental techniques. Fuel, 2012, 102, 751-759.	3.4	36
46	Characterization of Biomass as Non Conventional Fuels by Thermal Techniques. , 2011, , .		0
47	A semi-detailed kinetic model of char combustion with consideration of thermal annealing. Proceedings of the Combustion Institute, 2011, 33, 1763-1770.	2.4	27
48	An experimental study of fragmentation of coals during fast pyrolysis at high temperature and pressure. Fuel, 2011, 90, 2931-2938.	3.4	65
49	Mechanochemical activation of high-carbon fly ash for enhanced carbon reburning. Proceedings of the Combustion Institute, 2011, 33, 2743-2753.	2.4	18
50	Set up of an experimental apparatus for the study of fragmentation of solid fuels upon severe heating. Experimental Thermal and Fluid Science, 2010, 34, 366-372.	1.5	23
51	Preliminary Assessment of a Concept of Looping Combustion of Carbon. Industrial & Engineering Chemistry Research, 2009, 48, 102-109.	1.8	6
52	Burning and physico-chemical characteristics of carbon in ash from a coal fired power plant. Fuel, 2008, 87, 1207-1216.	3.4	29
53	Characterisation of meat and bone mill for coal co-firing. Fuel, 2008, 87, 3262-3270.	3.4	40
54	Smoldering Combustion in Cigarette Smoking and Generation of Combustion Byproducts. Environmental Engineering Science, 2008, 25, 1389-1398.	0.8	3

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55	Kinetics of pyrolysis, combustion and gasification of three biomass fuels. <i>Fuel Processing Technology</i> , 2007, 88, 87-97.	3.7	311
56	The influence of thermal annealing on oxygen uptake and combustion rates of a bituminous coal char. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 1889-1895.	2.4	37
57	Composition of the gaseous products of pyrolysis of tobacco under inert and oxidative conditions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 79, 234-243.	2.6	39
58	Patterns and kinetics of pyrolysis of tobacco under inert and oxidative conditions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 79, 227-233.	2.6	48
59	Thermal degradation of pesticides under oxidative conditions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 80, 61-76.	2.6	32
60	Overlapping of heterogeneous and purely thermally activated solid-state processes in the combustion of a bituminous coal. <i>Combustion and Flame</i> , 2006, 144, 578-591.	2.8	22
61	The influence of char surface oxidation on thermal annealing and loss of combustion reactivity. <i>Proceedings of the Combustion Institute</i> , 2005, 30, 2223-2230.	2.4	39
62	Oxidative pyrolysis of solid fuels. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 71, 959-970.	2.6	73
63	Heat treatment-induced loss of combustion reactivity of a coal char: the effect of exposure to oxygen. <i>Experimental Thermal and Fluid Science</i> , 2004, 28, 735-741.	1.5	14
64	A Thermogravimetric Study of Nonfossil Solid Fuels. 2. Oxidative Pyrolysis and Char Combustion. <i>Energy & Fuels</i> , 2002, 16, 661-668.	2.5	83
65	A Thermogravimetric Study of Nonfossil Solid Fuels. 1. Inert Pyrolysis. <i>Energy & Fuels</i> , 2002, 16, 653-660.	2.5	34
66	Loss of gasification reactivity toward O ₂ and CO ₂ upon heat treatment of carbons. <i>Proceedings of the Combustion Institute</i> , 2002, 29, 485-493.	2.4	31
67	Reply to the letter "Kinetics of decomposition measured using thermobalance"™ by Juan A. Conesa. <i>Fuel</i> , 2001, 80, 2125.	3.4	0
68	Diagnostics of carbon gasification by raman microprobe spectroscopy. <i>Proceedings of the Combustion Institute</i> , 2000, 28, 2369-2374.	2.4	59
69	Evolution of Reactivity of Highly Porous Chars from Raman Microscopy. <i>Combustion Science and Technology</i> , 2000, 153, 65-82.	1.2	49
70	A fast heating-rate thermogravimetric study of the pyrolysis of scrap tyres. <i>Fuel</i> , 1999, 78, 1575-1581.	3.4	103
71	Assessment of Thermodeactivation during Gasification of a Bituminous Coal Char. <i>Energy & Fuels</i> , 1999, 13, 1154-1159.	2.5	55
72	Gasification of a coal char by oxygen and carbon dioxide. <i>Carbon</i> , 1998, 36, 443-452.	5.4	75

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73	Microstructural changes and loss of gasification reactivity of chars upon heat treatment. Fuel, 1998, 77, 1483-1493.	3.4	110
74	The influence of heat treatment and weathering on the gasification reactivity of Montana lignite. Proceedings of the Combustion Institute, 1998, 27, 2991-2999.	0.3	11
75	The relevance of thermal annealing to the evolution of coal char gasification reactivity. Carbon, 1997, 35, 141-151.	5.4	105