Ange Nzihou

List of Publications by Year
in descending order

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101	4,662	94433	106344
papers	citations	37 h-index	65 g-index

101	101	101	4979
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The X-ray, Raman and TEM Signatures of Cellulose-Derived Carbons Explained. Journal of Carbon Research, 2022, 8, 4.	2.7	8
2	Hydrogen production from biogas: Process optimization using ASPEN PlusÂ®. International Journal of Hydrogen Energy, 2022, 47, 42027-42039.	7.1	11
3	Sustainable management of plastic wastes in COVID-19 pandemic: The biochar solution. Environmental Research, 2022, 212, 113495.	7.5	31
4	Incorporating hydrothermal liquefaction into wastewater treatment â€“ Part I: Process optimization for energy recovery and evaluation of product distribution. Chemical Engineering Journal, 2022, 449, 137838.	12.7	12
5	Waterworks Sludge: An Underrated Material for Beneficial Reuse in Water and Environmental Engineering. Waste and Biomass Valorization, 2021, 12, 4239-4251.	3.4	26
6	Cobalt catalysts on carbon-based materials for Fischer-Tropsch synthesis: a review. Applied Catalysis A: General, 2021, 609, 117906.	4.3	48
7	Unraveled mechanisms in energy production from bioresources using steam gasification. Fuel, 2021, 287, 119527.	6.4	5
8	Catalytic Pyrolysis of Waste Engine Oil over Y Zeolite Synthesized from Natural Clay. Waste and Biomass Valorization, 2021, 12, 4157-4170.	3.4	3
9	Characterization of Steam Gasification Biochars from Lignocellulosic Agrowaste Towards Soil Applications. Waste and Biomass Valorization, 2021, 12, 4141-4155.	3.4	9
10	Beyond confinement effects in Fischer-Tropsch Co/CNT catalysts. Journal of Catalysis, 2021, 397, 156-171.	6.2	17
11	Hydrochar derived from municipal sludge through hydrothermal processing: A critical review on its formation, characterization, and valorization. Water Research, 2021, 199, 117186.	11.3	106
12	Phosphorus recovery from municipal sludge-derived ash and hydrochar through wet-chemical technology: A review towards sustainable waste management. Chemical Engineering Journal, 2021, 417, 129300.	12.7	71
13	Facile Oneâ€Step Synthesis of Calcium Phosphate/Cellulose Composite: Synthesis, Morphology, Structure and Properties. Macromolecular Symposia, 2021, 398, 2000264.	0.7	0
14	Simultaneous hydrogen sulfide removal and wastewater purification in a novel alum sludge-based odor-gas aerated biofilter. Chemical Engineering Journal, 2021, 419, 129558.	12.7	13
15	Molten salt pyrolysis of biomass: The evaluation of molten salt. Fuel, 2021, 302, 121103.	6.4	34
16	Highly-efficient hydroxyapatite-supported nickel catalysts for dry reforming of methane. International Journal of Hydrogen Energy, 2020, 45, 18502-18518.	7.1	35
17	Hydroxyapatite as a new support material for cobalt-based catalysts in Fischer-Tropsch synthesis. International Journal of Hydrogen Energy, 2020, 45, 18440-18451.	7.1	16
18	Hydrogen Spillover in the Fischerâ€Tropsch Synthesis on Carbonâ€supported Cobalt Catalysts. ChemCatChem, 2020, 12, 1117-1128.	3.7	25

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19	Characterization of char generated from solar pyrolysis of heavy metal contaminated biomass. Energy, 2020, 206, 118128.	8.8	36
20	Environmental and exergetic life cycle assessment of incineration- and gasification-based waste to energy systems in China. Energy, 2020, 205, 118002.	8.8	48
21	Gas Barrier, Rheological and Mechanical Properties of Immiscible Natural Rubber/Acrylonitrile Butadiene Rubber/Organoclay (NR/NBR/Organoclay) Blend Nanocomposites. Materials, 2020, 13, 2654.	2.9	13
22	Life cycle environmental assessment of thermal waste-to-energy technologies and energyâ€“environmentâ€“economy model development. , 2020, , 111-151.		1
23	Alum sludge as an efficient sorbent for hydrogen sulfide removal: Experimental, mechanisms and modeling studies. Chemosphere, 2020, 248, 126010.	8.2	24
24	Integrating alum sludge with waste-activated sludge in co-conditioning and dewatering: a case study of a city in south France. Environmental Science and Pollution Research, 2020, 27, 14863-14871.	5.3	9
25	A Comparative Study of Hydroxyapatiteâ€•and Aluminaâ€Based Catalysts in Dry Reforming of Methane. Chemical Engineering and Technology, 2020, 43, 698-704.	1.5	14
26	Generic and Advanced Characterization Techniques. , 2020, , 31-497.		2
27	Solid Residues (Biochar, Bottom Ash, Fly Ash, â€¦). , 2020, , 1307-1387.		0
28	Extraction and Characterization of Nanomaterials from Agrowaste. , 2020, , 841-897.		0
29	Steam gasification behavior of tropical agrowaste: A new modeling approach based on the inorganic composition. Fuel, 2019, 235, 45-53.	6.4	25
30	Current Status and Outlook of Odor Removal Technologies in Wastewater Treatment Plant. Waste and Biomass Valorization, 2019, 10, 1443-1458.	3.4	54
31	Catalytic Effect of Inorganic Elements on Steam Gasification Biochar Properties from Agrowastes. Energy & Fuels, 2019, 33, 8666-8675.	5.1	20
32	110th Anniversary: Syngas Production Enhancement Using Calcium- and Potassium-Impregnated Chars. Industrial & Engineering Chemistry Research, 2019, 58, 15134-15141.	3.7	5
33	Solar pyrolysis of heavy metal contaminated biomass for gas fuel production. Energy, 2019, 187, 116016.	8.8	27
34	Solar pyrolysis of cotton stalk in molten salt for bio-fuel production. Energy, 2019, 179, 1124-1132.	8.8	53
35	The effects of temperature and molten salt on solar pyrolysis of lignite. Energy, 2019, 181, 407-416.	8.8	43
36	The catalytic effect of inherent and adsorbed metals on the fast/flash pyrolysis of biomass: A review. Energy, 2019, 170, 326-337.	8.8	112

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37	Reactivity and deactivation mechanisms of pyrolysis chars from bio-waste during catalytic cracking of tar. Applied Energy, 2019, 237, 487-499.	10.1	50
38	Life cycle assessment of pyrolysis, gasification and incineration waste-to-energy technologies: Theoretical analysis and case study of commercial plants. Science of the Total Environment, 2018, 626, 744-753.	8.0	190
39	Influence of Nickel on Biomass Pyro-Gasification: Coupled Thermodynamic and Experimental Investigations. Industrial & Engineering Chemistry Research, 2018, 57, 9788-9797.	3.7	13
40	Upgrading greenhouse gases (methane and carbon dioxide) into syngas using nickel-based catalysts. Fuel, 2018, 226, 195-203.	6.4	25
41	Advanced characterization unravels the structure and reactivity of wood-based chars. Journal of Analytical and Applied Pyrolysis, 2018, 130, 79-89.	5.5	20
42	Hydroxyapatite supported bimetallic cobalt and nickel catalysts for syngas production from dry reforming of methane. Applied Catalysis B: Environmental, 2018, 224, 310-321.	20.2	121
43	H2S removal from syngas using wastes pyrolysis chars. Chemical Engineering Journal, 2018, 334, 2179-2189.	12.7	90
44	Effect of the Support and Its Surface Modifications in Cobalt-Based Fischerâ€“Tropsch Synthesis. Industrial & Engineering Chemistry Research, 2018, 57, 16137-16161.	3.7	53
45	Accumulators for the Capture of Heavy Metals in Thermal Conversion Systems. Journal of Environmental Engineering, ASCE, 2018, 144, 04018118.	1.4	0
46	Co-pyrolysis of wood and plastics: Influence of plastic type and content on product yield, gas composition and quality. Fuel, 2018, 231, 110-117.	6.4	110
47	Catalytic cracking of ethylbenzene as tar surrogate using pyrolysis chars from wastes. Biomass and Bioenergy, 2018, 117, 86-95.	5.7	27
48	Comparison of waste-to-energy technologies of gasification and incineration using life cycle assessment: Case studies in Finland, France and China. Journal of Cleaner Production, 2018, 203, 287-300.	9.3	127
49	A Review of Biogas Utilisation, Purification and Upgrading Technologies. Waste and Biomass Valorization, 2017, 8, 267-283.	3.4	466
50	Effect of Nickel Impregnation on Wood Gasification Mechanism. Waste and Biomass Valorization, 2017, 8, 2843-2852.	3.4	25
51	Hydrogen-Rich Gas Production from Steam Gasification of Bio-char in the Presence of CaO. Waste and Biomass Valorization, 2017, 8, 2735-2746.	3.4	32
52	Kinetic Analysis of Tropical Lignocellulosic Agrowaste Pyrolysis. Bioenergy Research, 2017, 10, 832-845.	3.9	50
53	Laboratory-scale investigation of the removal of hydrogen sulfide from biogas and air using industrial waste-based sorbents. Journal of Environmental Chemical Engineering, 2017, 5, 1809-1820.	6.7	26
54	Hydroxyapatite-based sorbents: elaboration, characterization and application for the removal of catechol from the aqueous phase. Environmental Technology (United Kingdom), 2017, 38, 2611-2620.	2.2	10

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55	Characterization of solar fuels obtained from beech wood solar pyrolysis. Fuel, 2017, 188, 285-293.	6.4	93
56	Multi-scale characterisation of chars mineral species for tar cracking. Fuel, 2017, 189, 88-97.	6.4	43
57	On the relevance of thermodynamics to predict the behaviour of inorganics during CO 2 gasification of willow wood. Computer Aided Chemical Engineering, 2017, , 2671-2676.	0.5	5
58	Precipitation Process of Calcium Phosphate from Calcium Carbonate Suspension. KONA Powder and Particle Journal, 2016, 33, 219-227.	1.7	9
59	Effect of Operating Parameters and Moisture Content on Municipal Solid Waste Pyrolysis and Gasification. Energy & Fuels, 2016, 30, 3994-4001.	5.1	93
60	Catalytic transformation of carbon dioxide and methane into syngas over ruthenium and platinum supported hydroxyapatites. Applied Surface Science, 2016, 390, 141-156.	6.1	33
61	Sorption behavior of Zn(II) ions on synthetic apatitic calcium phosphates. Applied Surface Science, 2015, 357, 1958-1966.	6.1	16
62	Sodium Dihydrogen Phosphate Starting From Sodium Chloride and Orthophosphoric Acid Via Cation Resin Exchange. Phosphorus, Sulfur and Silicon and the Related Elements, 2015, 190, 1743-1748.	1.6	0
63	Synthesis of carbon nanotubes/hydroxyapatite composites using catalytic methane cracking. Composite Interfaces, 2015, 22, 673-687.	2.3	8
64	Metal-doped apatitic calcium phosphates: preparation, characterization, and reactivity in the removal of hydrogen sulfide from gas phase. Composite Interfaces, 2015, 22, 503-515.	2.3	4
65	Modification of Hydroxyapatite with Ion-Selective Complexants: 1-Hydroxyethane-1,1-diphosphonic Acid. Industrial & Engineering Chemistry Research, 2015, 54, 585-596.	3.7	17
66	The effect of temperature and heating rate on char properties obtained from solar pyrolysis of beech wood. Bioresource Technology, 2015, 182, 114-119.	9.6	134
67	Reactivity enhancement of gasification biochars for catalytic applications. Fuel, 2015, 159, 491-499.	6.4	40
68	Valorization of Calcium Carbonate-Based Solid Wastes for the Treatment of Hydrogen Sulfide from the Gas Phase. Industrial & Engineering Chemistry Research, 2015, 54, 4915-4922.	3.7	10
69	Behavior of heavy metals during gasification of phytoextraction plants: thermochemical modelling. Computer Aided Chemical Engineering, 2015, , 341-346.	0.5	8
70	Influence of char composition and inorganics on catalytic activity of char from biomass gasification. Fuel, 2015, 157, 37-47.	6.4	115
71	Partitioning of Heavy Metals in Municipal Solid Waste Pyrolysis, Gasification, and Incineration. Energy & Fuels, 2015, 29, 7516-7525.	5.1	74
72	Calcium Phosphate Sorbent for Environmental Application. Procedia Engineering, 2014, 83, 423-431.	1.2	21

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73	Highly Porous Calcium Hydroxyapatite-based Composites for Air Pollution Control. Procedia Engineering, 2014, 83, 394-402.	1.2	8
74	Novel one-step synthesis and characterization of bone-like carbonated apatite from calcium carbonate, calcium hydroxide and orthophosphoric acid as economical starting materials. Materials Research Bulletin, 2014, 51, 236-243.	5.2	11
75	Calcium phosphate based materials starting from calcium carbonate and orthophosphoric acid for the removal of lead(II) from an aqueous solution. Chemical Engineering Journal, 2014, 243, 280-288.	12.7	33
76	Hydroxyapatite starting from calcium carbonate and orthophosphoric acid: synthesis, characterization, and applications. Journal of Materials Science, 2014, 49, 4261-4269.	3.7	37
77	Carbonated hydroxyapatite starting from calcite and different orthophosphates under moderate hydrothermal conditions: Synthesis and surface reactivity in simulated body fluid. Materials Research Bulletin, 2014, 60, 292-299.	5.2	8
78	Stress relaxation behavior of organically modified montmorillonite filled natural rubber/nitrile rubber nanocomposites. Applied Clay Science, 2014, 87, 120-128.	5.2	100
79	A review of catalysts for the gasification of biomass char, with some reference to coal. Energy, 2013, 58, 305-317.	8.8	199
80	Hydroxyapatite gel for the improved removal of Pb2+ ions from aqueous solution. Chemical Engineering Journal, 2013, 232, 128-138.	12.7	46
81	One-Step Synthesis of Calcium Hydroxyapatite from Calcium Carbonate and Orthophosphoric Acid under Moderate Conditions. Industrial & Engineering Chemistry Research, 2013, 52, 1439-1447.	3.7	35
82	Thermal behavior of apatitic calcium phosphates synthesized from calcium carbonate and orthophosphoric acid or potassium dihydrogen orthophosphate. Journal of Thermal Analysis and Calorimetry, 2013, 112, 1145-1155.	3.6	18
83	Carbonate-containing apatite (CAP) synthesis under moderate conditions starting from calcium carbonate and orthophosphoric acid. Materials Science and Engineering C, 2013, 33, 2971-2980.	7.3	21
84	The fate of heavy metals during combustion and gasification of contaminated biomassâ€"A brief review. Journal of Hazardous Materials, 2013, 256-257, 56-66.	12.4	205
85	Synthesis, characterization, and thermo-mechanical properties of copper-loaded apatitic calcium phosphates. Composite Interfaces, 2013, 20, 647-660.	2.3	14
86	Dioxin emissions from municipal solid waste incinerators (MSWIs) in France. Waste Management, 2012, 32, 2273-2277.	7.4	71
87	Laboratory scale study of an industrial phosphate and thermal treatment for polluted dredged sediments. International Journal of Sediment Research, 2012, 27, 538-546.	3.5	10
88	Catalyst Properties and Catalytic Performance of Char from Biomass Gasification. Industrial & Engineering Chemistry Research, 2012, 51, 13113-13122.	3.7	117
89	Synthesis of calcium hydroxyapatite from calcium carbonate and different orthophosphate sources: A comparative study. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 1080-1089.	3.5	60
90	Apatitic calcium phosphates: Synthesis, characterization and reactivity in the removal of lead(II) from aqueous solution. Chemical Engineering Journal, 2012, 198-199, 180-190.	12.7	30

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91	Rheological Behavior of Gypsum, Plaster, and Hydroxyapatite Gel Blends. Industrial & Engineering Chemistry Research, 2012, 51, 11163-11169.	3.7	4
92	Synthetic fuels from biomass using concentrated solar energy â€“ A review. Energy, 2012, 42, 121-131.	8.8	132
93	Beneficial Use of Ash and Char From Biomass Gasification. , 2011, , .		9
94	Role of Phosphate in the Remediation and Reuse of Heavy Metal Polluted Wastes and Sites. Waste and Biomass Valorization, 2010, 1, 163-174.	3.4	103
95	Toward the Valorization of Waste and Biomass. Waste and Biomass Valorization, 2010, 1, 3-7.	3.4	33
96	Waste Valorization, Loopâ€Closing, and Industrial Ecology. Journal of Industrial Ecology, 2010, 14, 196-199.	5.5	15
97	Convenient conversion of calcium carbonate to hydroxyapatite at ambient pressure. Materials Science and Engineering C, 2009, 29, 771-773.	7.3	39
98	Trapping heavy metals by using calcium hydroxyapatite and dielectrophoresis. Journal of Hazardous Materials, 2007, 139, 461-466.	12.4	21
99	Preparation of high specific surface area hydroxyapatite for environmental applications. Journal of Materials Science, 2007, 42, 6062-6066.	3.7	47
100	Stabilisation of heavy metal containing dusts by reaction with phosphoric acid: study of the reactivity of fly ash. Journal of Hazardous Materials, 2004, 116, 65-74.	12.4	44
101	Calcium phosphate stabilization of fly ash with chloride extraction. Waste Management, 2002, 22, 235-239.	7.4	78