

# Teresa Berdugo Vilches

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

755  
citations

516215

16  
h-index

552369

26  
g-index

26  
all docs

26  
docs citations

26  
times ranked

597  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced biofuel production via gasification – lessons learned from 200 man-years of research activity with Chalmers’s research gasifier and the GoBiGas demonstration plant. <i>Energy Science and Engineering</i> , 2018, 6, 6-34.	1.9	134
2	Steam gasification of biomass – Typical gas quality and operational strategies derived from industrial-scale plants. <i>Fuel Processing Technology</i> , 2021, 212, 106609.	3.7	77
3	Comparing Active Bed Materials in a Dual Fluidized Bed Biomass Gasifier: Olivine, Bauxite, Quartz-Sand, and Ilmenite. <i>Energy &amp; Fuels</i> , 2016, 30, 4848-4857.	2.5	76
4	Experience of more than 1000 h of operation with oxygen carriers and solid biomass at large scale. <i>Applied Energy</i> , 2017, 190, 1174-1183.	5.1	64
5	Bed material as a catalyst for char gasification: The case of ash-coated olivine activated by K and S addition. <i>Fuel</i> , 2018, 224, 85-93.	3.4	38
6	Use of alkali-feldspar as bed material for upgrading a biomass-derived producer gas from a gasifier. <i>Chemical Engineering Journal</i> , 2016, 295, 80-91.	6.6	35
7	Circular use of plastics-transformation of existing petrochemical clusters into thermochemical recycling plants with 100% plastics recovery. <i>Sustainable Materials and Technologies</i> , 2019, 22, e00124.	1.7	34
8	Alkali-Feldspar as a Catalyst for Biomass Gasification in a 2-MW Indirect Gasifier. <i>Energy &amp; Fuels</i> , 2017, 31, 1583-1592.	2.5	30
9	Measuring fuel mixing under industrial fluidized-bed conditions – A camera-probe based fuel tracking system. <i>Applied Energy</i> , 2016, 163, 304-312.	5.1	28
10	Influence of In-Bed Catalysis by Ash-Coated Olivine on Tar Formation in Steam Gasification of Biomass. <i>Energy &amp; Fuels</i> , 2018, 32, 9592-9604.	2.5	26
11	Conversion of Condensable Hydrocarbons in a Dual Fluidized Bed Biomass Gasifier. <i>Energy &amp; Fuels</i> , 2015, 29, 6465-6475.	2.5	22
12	Effect of ash circulation on the performance of a dual fluidized bed gasification system. <i>Biomass and Bioenergy</i> , 2018, 115, 45-55.	2.9	19
13	Layer Formation on Feldspar Bed Particles during Indirect Gasification of Wood. 1. K-Feldspar. <i>Energy &amp; Fuels</i> , 2019, 33, 7321-7332.	2.5	19
14	Comparison of Ash Layer Formation Mechanisms on Si-Containing Bed Material during Dual Fluidized Bed Gasification of Woody Biomass. <i>Energy &amp; Fuels</i> , 2020, 34, 8340-8352.	2.5	19
15	Shedding light on the governing mechanisms for insufficient CO and H <sub>2</sub> burnout in the presence of potassium, chlorine and sulfur. <i>Fuel</i> , 2020, 273, 117762.	3.4	19
16	Layer Formation on Feldspar Bed Particles during Indirect Gasification of Wood. 2. Na-Feldspar. <i>Energy &amp; Fuels</i> , 2019, 33, 7333-7346.	2.5	18
17	Emissions of dioxins and furans during steam gasification of Automotive Shredder residue; experiences from the Chalmers’s 4-MW indirect gasifier. <i>Waste Management</i> , 2020, 102, 114-121.	3.7	18
18	Experimental Investigation of Volatiles’ Bed Contact in a 4 MW Bubbling Bed Reactor of a Dual Fluidized Bed Gasifier. <i>Energy &amp; Fuels</i> , 2015, 29, 6456-6464.	2.5	17

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19	Valorization of Automobile Shredder Residue Using Indirect Gasification. <i>Energy &amp; Fuels</i> , 2018, 32, 12795-12804.	2.5	13
20	Thermochemical Recycling of Automotive Shredder Residue by Chemical-Looping Gasification Using the Generated Ash as Oxygen Carrier. <i>Energy &amp; Fuels</i> , 2019, 33, 11552-11566.	2.5	12
21	Co-recycling of natural and synthetic carbon materials for a sustainable circular economy. <i>Journal of Cleaner Production</i> , 2022, 365, 132674.	4.6	12
22	Development of Oxygen Transport Properties by Olivine and Feldspar in Industrial-Scale Dual Fluidized Bed Gasification of Woody Biomass. <i>Energy &amp; Fuels</i> , 2021, 35, 9424-9436.	2.5	9
23	Dual Fluidized Bed Gasification Configurations for Carbon Recovery from Biomass. <i>Energy &amp; Fuels</i> , 2020, 34, 16187-16200.	2.5	8
24	Behaviour of biomass particles in a large scale (2â€“4MWth) bubbling bed reactor. <i>WIT Transactions on Engineering Sciences</i> , 2015, , .	0.0	5
25	Mapping the Effects of Potassium on Fuel Conversion in Industrial-Scale Fluidized Bed Gasifiers and Combustors. <i>Catalysts</i> , 2021, 11, 1380.	1.6	2
26	Fluidized bed steam cracking of rapeseed oil: exploring the direct production of the molecular building blocks for the plastics industry. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 14511-14522.	2.9	1