

# Carla Isabel Costa Pinheiro

## List of Publications by Year in descending order

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42  
papers

682  
citations

567281

15  
h-index

580821

25  
g-index

42  
all docs

42  
docs citations

42  
times ranked

614  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluid Catalytic Cracking (FCC) Process Modeling, Simulation, and Control. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 1-29.	3.7	123
2	Investigation of a stable synthetic sol-gel CaO sorbent for CO <sub>2</sub> capture. <i>Fuel</i> , 2012, 94, 624-628.	6.4	94
3	Dynamic modelling of an industrial R2R FCC unit. <i>Chemical Engineering Science</i> , 2007, 62, 1184-1198.	3.8	45
4	Waste Marble Powders as Promising Inexpensive Natural CaO-Based Sorbents for Post-Combustion CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 7860-7872.	3.7	37
5	Solid-gas reactors driven by concentrated solar energy with potential application to calcium looping: A comparative review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112048.	16.4	31
6	Model Development and Validation of an Industrial UOP Fluid Catalytic Cracking Unit with a High-Efficiency Regenerator. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 850-866.	3.7	29
7	Steady state multiplicity in an UOP FCC unit with high-efficiency regenerator. <i>Chemical Engineering Science</i> , 2007, 62, 6308-6322.	3.8	28
8	Tailoring Synthetic Sol-gel CaO Sorbents with High Reactivity or High Stability for Ca-Looping CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 8484-8494.	3.7	24
9	Syntheses, electrochemistry, and bonding of bis(cyclopentadienyl)molybdenum alkyl complexes. Molecular structure of Mo( $\eta$ -5-C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> . Thermochemistry of Mo( $\eta$ -5-C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> R <sub>2</sub> and Mo( $\eta$ -5-C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> L (R = CH <sub>3</sub> , C <sub>2</sub> H <sub>5</sub> , C <sub>4</sub> H <sub>9</sub> ; L = ethylene, diphenylacetylene). <i>Organometallics</i> , 1991, 10, 483-494.	2.3	23
10	Influence of different catalyst deactivation models in a validated simulator of an industrial UOP FCC unit with high-efficiency regenerator. <i>Fuel</i> , 2012, 97, 97-108.	6.4	23
11	Enhancement of sintering resistance of CaO-based sorbents using industrial waste resources for Ca-looping in the cement industry. <i>Separation and Purification Technology</i> , 2020, 235, 116190.	7.9	23
12	Optimal design of reactive distillation systems: Application to the production of ethyl tert-butyl ether (ETBE). <i>Computers and Chemical Engineering</i> , 2014, 64, 81-94.	3.8	22
13	Model predictive control of reactor temperature in a CSTR pilot plant operating at an unstable steady-state. <i>Computers and Chemical Engineering</i> , 1999, 23, S859-S862.	3.8	18
14	Economic comparison of a reactive distillation-based process with the conventional process for the production of ethyl tert-butyl ether (ETBE). <i>Computers and Chemical Engineering</i> , 2017, 100, 9-26.	3.8	16
15	Modeling the deactivation of CaO-based sorbents during multiple Ca-looping cycles for CO <sub>2</sub> post-combustion capture. <i>Computers and Chemical Engineering</i> , 2020, 134, 106679.	3.8	16
16	Transient microkinetic modelling of n-heptane catalytic cracking over H-USY zeolite. <i>Chemical Engineering Science</i> , 2004, 59, 1221-1232.	3.8	15
17	Hydrogen Production with In Situ CO <sub>2</sub> Capture at High and Medium Temperatures Using Solid Sorbents. <i>Energies</i> , 2022, 15, 4039.	3.1	15
18	Pelasgian fountains: learning Greek in the early Middle Ages. , 0, , 65-82.		14

#	ARTICLE	IF	CITATIONS
19	Blending Wastes of Marble Powder and Dolomite Sorbents for Calcium-Looping CO <sub>2</sub> Capture under Realistic Industrial Calcination Conditions. <i>Materials</i> , 2021, 14, 4379.	2.9	13
20	Improved performance of modified CaO-Al <sub>2</sub> O <sub>3</sub> based pellets for CO <sub>2</sub> capture under realistic Ca-looping conditions. <i>Journal of CO<sub>2</sub> Utilization</i> , 2022, 61, 102007.	6.8	13
21	Model Development and Validation of Ethyl <i>tert</i> -Butyl Ether Production Reactors Using Industrial Plant Data. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 15018-15031.	3.7	12
22	Dynamic modelling and network simulation of n-heptane catalytic cracking: influence of kinetic parameters. <i>Chemical Engineering Science</i> , 1999, 54, 1735-1750.	3.8	10
23	A Comparison Between Low and High Temperature Bi <sub>2</sub> O <sub>3</sub> MoO <sub>3</sub> Phases FOR 1-Butene Reactions. <i>Studies in Surface Science and Catalysis</i> , 1991, 67, 77-85.	1.5	5
24	Mechanistic dynamic modelling of an industrial FCC Unit. <i>Computer Aided Chemical Engineering</i> , 2005, , 589-594.	0.5	5
25	New molybdenocene dihydrocarbyls. <i>Journal of Organometallic Chemistry</i> , 1987, 327, C59-C62.	1.8	4
26	Determination of state-space model uncertainty using bootstrap techniques. <i>Journal of Process Control</i> , 2006, 16, 685-692.	3.3	4
27	Methodologies for input-output data exchange between LabVIEW® and MATLAB®/Simulink® software for Real Time Control of a Pilot Scale Distillation Process. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 708-712.	0.5	4
28	Multiplicity of steady states in an UOP FCC unit with high efficiency regenerator. <i>Computer Aided Chemical Engineering</i> , 2006, , 1575-1580.	0.5	3
29	Network simulation of catalytic cracking reactions. <i>Studies in Surface Science and Catalysis</i> , 1997, , 529-534.	1.5	2
30	Closed-loop dynamic behavior of an industrial high-efficiency FCC unit. , 2008, , .		2
31	Estimation of catalyst deactivation parameters of ethyl <i>tert</i> -butyl ether (ETBE) reactors based on industrial plant data. <i>Computer Aided Chemical Engineering</i> , 2012, , 1002-1006.	0.5	2
32	Model Based Fault Diagnosis for Performance Control of a Decentralized Wastewater Treatment Plant. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 691-696.	0.5	2
33	Temperature Programmed Desorption of Oxygen on Bismuth Molybdates and Reactivity For Olefin Oxidation. <i>Studies in Surface Science and Catalysis</i> , 1992, 72, 325-334.	1.5	1
34	Title is missing!. <i>Reaction Kinetics and Catalysis Letters</i> , 2000, 69, 39-46.	0.6	1
35	A Multivariable Model Predictive Control Project in a Computer Aided Master's Degree Course. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 871-876.	0.5	1
36	Development of Soft Sensors Based on Analytical and Spectral Data on a Real Small Size Wastewater Treatment Plant. <i>Lecture Notes in Electrical Engineering</i> , 2017, , 323-333.	0.4	1

#	ARTICLE	IF	CITATIONS
37	Modelling Full Cycles of Carbonation-Calcination for Calcium Looping Process Simulation. Computer Aided Chemical Engineering, 2019, , 1009-1014.	0.5	1
38	Reactions of mixtures of light alkenes and n-heptane over USHY zeolite. Applied Catalysis A: General, 1994, 108, 107-114.	4.3	0
39	Subspace identification methods for a fast dynamic model structure screening. Computer Aided Chemical Engineering, 2004, 18, 697-702.	0.5	0
40	CAPE in the Chemical Engineering Master's Integrated Programme at IST-ULisboa. Computer Aided Chemical Engineering, 2017, , 2959-2964.	0.5	0
41	Computer Aided Control Projects as Main Assessment Component of Master's Advanced Control Courses. Computer Aided Chemical Engineering, 2017, 40, 2953-2958.	0.5	0
42	Multi-scale modelling and simulation of Ca-looping cycle process for CO2 post-combustion capture. Computer Aided Chemical Engineering, 2018, , 291-292.	0.5	0