Nicolas Abatzoglou

List of Publications by Year
in descending order

89 papers	2,979 citations	257450 24 h-index	168389 53 g-index
110 all docs	110 docs citations	110 times ranked	3222 citing authors

#	Article	IF	Citations
1	A review of filamentous carbon nanomaterial synthesis via catalytic conversion of waste plastic pyrolysis products. Journal of Environmental Chemical Engineering, 2022, 10, 107049.	6.7	23
2	Moisture Transport Coefficients Determination on a Model Pharmaceutical Tablet. Processes, 2022, 10, 254.	2.8	4
3	A Continuous Conical-Mill Operation for Dry Coating of Pharmaceutical Powders: The Role of Processing Time. Processes, 2022, 10, 540.	2.8	1
4	Application of computational fluid dynamics for modeling of Fischer-Tropsch synthesis as a sustainable energy resource in different reactor configurations: A review. Renewable and Sustainable Energy Reviews, 2022, 160, 112287.	16.4	11
5	Recent Advances in the Decontamination and Upgrading of Waste Plastic Pyrolysis Products: An Overview. Processes, 2022, 10, 733.	2.8	24
6	Pharmaceutical tablet compression: measuring temporal and radial concentration profiles to better assess segregation. Pharmaceutical Development and Technology, 2022, 27, 448-458.	2.4	2
7	Non-invasive detection technologies of solid foreign matter and their applications to lyophilized pharmaceutical products: A review. Talanta, 2021, 224, 121885.	5.5	4
8	Toluene steam reforming using nickel based catalysts made from mining residues. Catalysis Today, 2021, 365, 111-121.	4.4	12
9	Kinetics and Selectivity Study of Fischerâ€“Tropsch Synthesis to C5+ Hydrocarbons: A Review. Catalysts, 2021, 11, 330.	3.5	56
10	Gravity mass powder flow through conical hoppers â€•Part I: A mathematical model predicting the radial velocity profiles of freeâ€flowing granular systems as a function of cohesion and adhesion properties. Canadian Journal of Chemical Engineering, 2021, 99, 1643-1653.	1.7	3
11	Gravity mass powder flow through conical hoppers â€•Part II: A mathematical model predicting the axial and radial profiles of normal stresses from flow velocity measurements. Canadian Journal of Chemical Engineering, 2021, 99, 1654-1662.	1.7	2
12	Wet granulation end point prediction using dimensionless numbers in a mixer torque rheometer: Relationship between capillary and Weber numbers and the optimal wet mass consistency. International Journal of Pharmaceutics, 2021, 605, 120823.	5.2	3
13	The â€˜Greenâ€™ Ni-UGSO Catalyst for Hydrogen Production under Various Reforming Regimes. Catalysts, 2021, 11, 771.	3.5	1
14	Methanol to Formaldehyde: An Overview of Surface Studies and Performance of an Iron Molybdate Catalyst. Catalysts, 2021, 11, 893.	3.5	19
15	Proven Anti-Wetting Properties of Molybdenum Tested for High-Temperature Corrosion-Resistance with Potential Application in the Aluminum Industry. Materials, 2021, 14, 5355.	2.9	0
16	Review: Fundamentals, applications and potentials of ultrasound-assisted drying. Chemical Engineering Research and Design, 2020, 154, 21-46.	5.6	61
17	Rheological behavior of porous pharmaceutical materials: Linking torque profiles during wet massing to water diffusion coefficients and penetration time. Chemical Engineering and Processing: Process Intensification, 2020, 157, 108152.	3.6	0
18	Stability of Extemporaneously Prepared Acetazolamide Oral Suspensions at Two Temperatures. Journal of Pediatric Pharmacology and Therapeutics, 2020, 25, 723-729.	0.5	2

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19	Specificity of process analytical tools in the monitoring of multicomponent pharmaceutical powders. Pharmaceutical Development and Technology, 2019, 24, 380-389.	2.4	2
20	Autothermal dry reforming of methane with a nickel spinellized catalyst prepared from a negative value metallurgical residue. Renewable Energy, 2019, 138, 1239-1249.	8.9	18
21	H2S Poisoning and Regeneration of a Nickel Spinellized Catalyst Prepared from Waste Metallurgical Residues, During Dry Autothermal Methane Reforming. Catalysis Letters, 2019, 149, 1730-1742.	2.6	5
22	Catalytic Dry Reforming and Cracking of Ethylene for Carbon Nanofilaments and Hydrogen Production Using a Catalyst Derived from a Mining Residue. Catalysts, 2019, 9, 1069.	3.5	6
23	In-line monitoring of Ibuprofen during and after tablet compression using near-infrared spectroscopy. Talanta, 2019, 195, 87-96.	5.5	25
24	Evaluation of a Dry Coating Technology as a Substitute for Roller Compaction for Dry Agglomeration Applications in the Pharmaceutical Industry. Journal of Pharmaceutical Innovation, 2019, 14, 286-303.	2.4	2
25	Coâ€doped ZnO thin films grown by pulsed electron beam ablation as model nanoâ€catalysts in fischerâ€tropsch synthesis. AICHE Journal, 2018, 64, 3332-3340.	3.6	3
26	Developing a quality by design approach to model tablet dissolution testing: an industrial case study. Pharmaceutical Development and Technology, 2018, 23, 646-654.	2.4	11
27	Use of Plasma-Synthesized Nano-Catalysts for CO Hydrogenation in Low-Temperature Fischerâ€“Tropsch Synthesis: Effect of Catalyst Pre-Treatment. Nanomaterials, 2018, 8, 822.	4.1	13
28	Phase Quantification of Carbon Support by X-Ray Photoelectron Spectroscopy (XPS) in Plasma-Synthesized Fischerâ€“Tropsch Nanocatalysts. Catalysis Letters, 2018, 148, 2149-2161.	2.6	7
29	Activation and deactivation scenarios in a plasmaâ€synthesized Co/C catalyst for Fischerâ€Tropsch synthesis. Canadian Journal of Chemical Engineering, 2018, 96, 2127-2137.	1.7	8
30	Monitoring the concentration of flowing pharmaceutical powders in a tableting feed frame. Pharmaceutical Development and Technology, 2017, 22, 699-705.	2.4	28
31	Dry reforming of methane with a new catalyst derived from a negative value mining residue spinellized with nickel. Catalysis Today, 2017, 291, 86-98.	4.4	19
32	Promotional effect of Mo and Ni in plasma-synthesized Coâ€“Fe/C bimetallic nano-catalysts for Fischerâ€“Tropsch synthesis. Journal of Industrial and Engineering Chemistry, 2017, 50, 199-212.	5.8	17
33	Gold-promoted plasma-synthesized Ni-Co-Fe/C catalyst for Fischer-Tropsch synthesis. Gold Bulletin, 2017, 50, 147-162.	2.4	8
34	Activation mechanism and microstructural evolution of a YSZ/Ni-alumina catalyst for dry reforming of methane. Catalysis Today, 2017, 291, 99-105.	4.4	29
35	Modification of mesoporous alumina as a support for cobalt-based catalyst in Fischer-Tropsch synthesis. Fuel Processing Technology, 2017, 162, 55-65.	7.2	45
36	Performances of promoted cobalt catalysts supported on mesoporous alumina for Fischer-Tropsch synthesis. Applied Catalysis A: General, 2017, 547, 155-163.	4.3	31

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37	Hydrogen production by glycerol steam reforming catalyzed by Ni-promoted Fe/Mg-bearing metallurgical wastes. Applied Catalysis B: Environmental, 2017, 219, 183-193.	20.2	80
38	Using multiple Process Analytical Technology probes to monitor multivitamin blends in a tableting feed frame. Talanta, 2017, 164, 7-15.	5.5	45
39	Effect of CO Concentration on the Î±-Value of Plasma-Synthesized Co/C Catalyst in Fischer-Tropsch Synthesis. Catalysts, 2017, 7, 69.	3.5	10
40	NiFe₂O₄ production from Î±â€Fe₂O₃ via improved solid state reaction: Application as catalyst in CH₄ dry reforming. Canadian Journal of Chemical Engineering, 2016, 94, 1801-1808.	1.7	16
41	Microâ€syngas technology options for GtL. Canadian Journal of Chemical Engineering, 2016, 94, 613-622.	1.7	19
42	Lowâ€temperature Fischerâ€Tropsch synthesis using plasmaâ€synthesized nanometric Co/C and Fe/C catalysts. Canadian Journal of Chemical Engineering, 2016, 94, 1504-1515.	1.7	17
43	Synthesis of Nano-catalysts by Induction Suspension Plasma Technology (SPS) for Fischerâ€“Tropsch Reaction. Plasma Chemistry and Plasma Processing, 2016, 36, 1325-1348.	2.4	13
44	Synthetic fuels from 3-Ï† Fischer-Tropsch synthesis using syngas feed and novel nanometric catalysts synthesised by plasma. Biomass and Bioenergy, 2016, 95, 330-339.	5.7	13
45	H₂S poisoning of NiAl₂O₄/Al₂O₃â€YSZ catalyst during methane dry reforming. Canadian Journal of Chemical Engineering, 2016, 94, 650-654.	1.7	18
46	Review of catalytic syngas production through steam or dry reforming and partial oxidation of studied liquid compounds. Wiley Interdisciplinary Reviews: Energy and Environment, 2016, 5, 169-187.	4.1	42
47	Powder Blending Equipment. , 2015, , 287-310.		1
48	Equipment Qualification, Process and Cleaning Validation. , 2015, , 369-399.		0
49	New insights on the role of YSZ in a NiAl2O4/Al2O3â€“YSZ catalyst. Applied Catalysis A: General, 2015, 497, 42-50.	4.3	6
50	Predicting the dissolution behavior of pharmaceutical tablets with NIR chemical imaging. International Journal of Pharmaceutics, 2015, 486, 242-251.	5.2	24
51	Synthesis and Characterization of Co/C and Fe/C Nanocatalysts for Fischerâ€“Tropsch Synthesis: A Comparative Study Using a Fixed-Bed Reactor. Industrial & Engineering Chemistry Research, 2015, 54, 10661-10674.	3.7	23
52	Iron oxide-functionalized carbon nanofilaments for hydrogen sulfide adsorption: The multiple roles of carbon. Carbon, 2015, 95, 794-801.	10.3	21
53	Carbon Nanofilaments Functionalized with Iron Oxide Nanoparticles for in-Depth Hydrogen Sulfide Adsorption. Industrial & Engineering Chemistry Research, 2015, 54, 9230-9237.	3.7	11
54	Rheological characterisation and phenomenological modelling of nonâ€aqueous nanoâ€suspensions of iron carbide produced by plasma spray. Canadian Journal of Chemical Engineering, 2014, 92, 68-74.	1.7	3

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55	Influence of hopper geometry on radial and axial concentration profiles of segregated and homogenized granular mixture flows. Powder Technology, 2014, 262, 42-50.	4.2	10
56	Nano-iron carbide synthesized by plasma as catalyst for Fischerâ€“Tropsch synthesis in slurry reactors: The role of iron loading and K, Cu promoters. Catalysis Today, 2014, 237, 150-156.	4.4	23
57	Development of a multivariate light-induced fluorescence (LIF) PAT tool for in-line quantitative analysis of pharmaceutical granules in a V-blender. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 86, 524-531.	4.3	19
58	Diesel steam reforming: Comparison of two nickel aluminate catalysts prepared by wet-impregnation and co-precipitation. Catalysis Today, 2013, 207, 13-20.	4.4	79
59	Inhibition of carbon formation during steam reforming of methane over ethyldisulfide-impregnated metallic nickel catalysts. Catalysis Today, 2013, 207, 21-27.	4.4	4
60	Investigation of the Role of Surface Nanometric Sulfur and Carbon Moieties in Ni-Catalyzed Steam Reforming of Hydrocarbons. ACS Symposium Series, 2012, , 1-23.	0.5	0
61	Geometrical triple phase boundary length measurement using focused ion beam tomography. Canadian Journal of Chemical Engineering, 2012, 90, 712-718.	1.7	1
62	Inâ€line near infrared spectroscopy monitoring of pharmaceutical powder moisture in a fluidised bed dryer: An efficient methodology for chemometric model development. Canadian Journal of Chemical Engineering, 2012, 90, 299-303.	1.7	18
63	NIRS methodology for measuring radial and axial concentration profiles in flowing granular mixtures. Powder Technology, 2012, 224, 223-232.	4.2	6
64	Kinetics study on cntâ€supported RuKCo FTS catalyst in a fixed bed reactor. Canadian Journal of Chemical Engineering, 2011, 89, 1441-1450.	1.7	4
65	Diesel steam reforming with a nickelâ€“alumina spinel catalyst for solid oxide fuel cell application. Journal of Power Sources, 2011, 196, 7673-7680.	7.8	49
66	Steam reforming of liquid hydrocarbons over a nickelâ€“alumina spinel catalyst. Journal of Power Sources, 2010, 195, 3275-3283.	7.8	38
67	Stress distribution in lubricated vs unlubricated pharmaceutical powder columns and their container walls during translational and torsional shear testing. Powder Technology, 2010, 203, 534-547.	4.2	11
68	Synthesis of CNT-supported cobalt nanoparticle catalysts using a microemulsion technique: Role of nanoparticle size on reducibility, activity and selectivity in Fischerâ€“Tropsch reactions. Applied Catalysis A: General, 2010, 374, 79-86.	4.3	138
69	Fischerâ€“Tropsch Synthesis in a Slurry Reactor Using a Nanoiron Carbide Catalyst Produced by a Plasma Spray Technique. Industrial & Engineering Chemistry Research, 2010, 49, 6948-6955.	3.7	32
70	Effects of Confinement in Carbon Nanotubes on the Activity, Selectivity, and Lifetime of Fischerâ€“Tropsch Co/Carbon Nanotube Catalysts. Journal of Chemical & Engineering Data, 2010, 55, 2757-2763.	1.9	99
71	Prediction of segregation tendency in dry particulate pharmaceutical mixtures: Application of an adapted mathematical tool to cohesive and non-cohesive mixtures. Pharmaceutical Development and Technology, 2010, 15, 113-123.	2.4	6
72	A review of biogas purification processes. Biofuels, Bioproducts and Biorefining, 2009, 3, 42-71.	3.7	550

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73	Fischerâ€“Tropsch synthesis over carbon nanotubes supported cobalt catalysts in a fixed bed reactor: Influence of acid treatment. Fuel Processing Technology, 2009, 90, 367-374.	7.2	135
74	Co, Ru and K loadings effects on the activity and selectivity of carbon nanotubes supported cobalt catalyst in Fischerâ€“Tropsch synthesis. Applied Catalysis A: General, 2009, 353, 193-202.	4.3	181
75	Prediction of segregation tendency in dry particulate pharmaceutical mixtures: Application of an adapted mathematical tool to cohesive and non-cohesive mixtures. Pharmaceutical Development and Technology, 2009, 00, 090706063938028-11.	2.4	2
76	Catalytic properties of carbon nano-filaments produced by iron-catalysed reforming of ethanol. Chemical Engineering Journal, 2008, 139, 532-539.	12.7	21
77	Synthesis of nanocarbons via ethanol dry reforming over a carbon steel catalyst. Chemical Engineering Journal, 2008, 143, 186-194.	12.7	35
78	Thermal and catalytic dry reforming and cracking of ethanol for hydrogen and carbon nanofilaments' production. International Journal of Hydrogen Energy, 2008, 33, 4769-4779.	7.1	74
79	Dry Reforming of Methane with a Ni/Al₂O₃â€YSZ Catalyst: The Role of the Catalyst Preparation Protocol. Canadian Journal of Chemical Engineering, 2007, 85, 889-899.	1.7	18
80	Application of the induction plasma to the synthesis of two dimensional steam methane reforming Ni/Al2O3 catalyst. Surface and Coatings Technology, 2006, 201, 2046-2053.	4.8	12
81	Insights into the Role of Electrostatic Forces on the Behavior of Dry Pharmaceutical Particulate Systems. Pharmaceutical Research, 2006, 23, 997-1007.	3.5	31
82	Prediction of Segregation Tendency Occurrence in Dry Particulate Pharmaceutical Mixtures: Development of a Mathematical Tool Adapted for Granular Systems Application. Pharmaceutical Development and Technology, 2005, 10, 59-70.	2.4	16
83	Cold and hot gas filtration using a novel mobile granular bed with an inner fluidized section. Canadian Journal of Chemical Engineering, 2002, 80, 17-27.	1.7	1
84	Steam reforming of naphthalene on Niâ€“Cr/Al2O3 catalysts doped with MgO, TiO2, and La2O3. AIChE Journal, 1998, 44, 927-936.	3.6	122
85	Catalytic Gas Conditioning:Â Application to Biomass and Waste Gasification. Industrial & Engineering Chemistry Research, 1997, 36, 4184-4192.	3.7	76
86	Phenomenological kinetics of complex systems: the development of a generalized severity parameter and its application to lignocellulosics fractionation. Chemical Engineering Science, 1992, 47, 1109-1122.	3.8	247
87	From Nanoparticles to Process: An Aberration-Corrected TEM Study of Fischer-Tropsch Catalysts at Various Steps of the Process. Advanced Materials Research, 0, 324, 197-200.	0.3	9
88	Methods of coating ceramic supports with carbon and Niâ€based catalytically active formulations. Canadian Journal of Chemical Engineering, 0, , .	1.7	1
89	Concentration monitoring with near infrared chemical imaging in a tableting press. Journal of Spectral Imaging, 0, , .	0.0	6