

Michael J Antal

List of Publications by Year in descending order

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16
papers

1,879
citations

567281

15
h-index

940533

16
g-index

16
all docs

16
docs citations

16
times ranked

2263
citing authors

#	ARTICLE	IF	CITATIONS
1	Charcoal Volatile Matter Content Influences Plant Growth and Soil Nitrogen Transformations. Soil Science Society of America Journal, 2010, 74, 1259-1270.	2.2	352
2	Kinetics of the thermal decomposition of cellulose, hemicellulose, and sugarcane bagasse. Energy & Fuels, 1989, 3, 329-335.	5.1	289
3	Productive and parasitic pathways in dilute acid-catalyzed hydrolysis of cellulose. Industrial & Engineering Chemistry Research, 1992, 31, 94-100.	3.7	216
4	Effects of pressure on biomass pyrolysis. II. Heats of reaction of cellulose pyrolysis. Thermochemica Acta, 1983, 68, 165-186.	2.7	196
5	Biochar characteristics and application rates affecting corn growth and properties of soils contrasting in texture and mineralogy. Geoderma, 2015, 237-238, 105-116.	5.1	195
6	Simultaneous thermogravimetric-mass spectrometric studies of the thermal decomposition of biopolymers. 1. Avicel cellulose in the presence and absence of catalysts. Energy & Fuels, 1988, 2, 267-272.	5.1	148
7	Conversion of lignocellulosics pretreated with liquid hot water to ethanol. Applied Biochemistry and Biotechnology, 1996, 57-58, 157-170.	2.9	129
8	Effects of pressure on biomass pyrolysis. I. Cellulose pyrolysis products. Thermochemica Acta, 1983, 68, 155-164.	2.7	73
9	High-speed separation of carboxylic acids by co-electroosmotic capillary electrophoresis with direct and indirect UV detection. Journal of Chromatography A, 1997, 758, 263-276.	3.7	70
10	Combustion Kinetics of Corncob Charcoal and Partially Demineralized Corncob Charcoal in the Kinetic Regime. Industrial & Engineering Chemistry Research, 2006, 45, 4962-4970.	3.7	49
11	Mechanism and kinetics of the acid-catalyzed dehydration of ethanol in supercritical water. Journal of Supercritical Fluids, 1990, 3, 228-232.	3.2	43
12	Kinetics of the thermal decomposition of cellulose under the experimental conditions of thermal analysis. Theoretical extrapolations to high heating rates. Biomass and Bioenergy, 1994, 7, 69-74.	5.7	39
13	Cellulose pyrolysis kinetics in a simulated solar environment. Industrial & Engineering Chemistry Research, 1989, 28, 856-865.	3.7	29
14	Kinetics and mechanism of the vapor phase pyrolysis of 1,3-dioxolane in steam. Journal of Analytical and Applied Pyrolysis, 1987, 12, 223-242.	5.5	18
15	Biochar Properties Influencing Greenhouse Gas Emissions in Tropical Soils Differing in Texture and Mineralogy. Journal of Environmental Quality, 2016, 45, 1509-1519.	2.0	18
16	Combustion Characteristics of Biomass Charcoals Produced at Different Carbonization Conditions: A Kinetic Study. Energy & Fuels, 2016, 30, 3186-3197.	5.1	15