Frank D Mango

List of Publications by Year
in descending order

42 papers	2,112 citations	304743 22 h-index	302126 39 g-index
43 all docs	43 docs citations	43 times ranked	629 citing authors

#	Article	IF	Citations
1	Catalytic generation of methane at 60â€"100â€¯Â°C and 0.1â€"300â€¯MPa from source rocks containing kerogen Types I, II, and III. Geochimica Et Cosmochimica Acta, 2018, 231, 88-116.	3.9	27
2	Methane and carbon at equilibrium in source rocks. Geochemical Transactions, 2013, 14, 5.	0.7	4
3	Metathesis in the generation of low-temperature gas in marine shales. Geochemical Transactions, 2010, 11, 1.	0.7	19
4	Natural catalytic activity in a marine shale for generating natural gas. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 3527-3537.	2.1	7
5	â€œDistinguishing gases derived from oil cracking and kerogen maturation: Insights from laboratory pyrolysis experiments.â€•Guo Liguo, Xiao Xianming, Tian Hui, Song Zhiguang, 2009, Organic Geochemistry 40, 1074â€"1084. Organic Geochemistry, 2010, 41, 719-720.	1.8	3
6	Low-temperature gas from marine shales: wet gas to dry gas over experimental time. Geochemical Transactions, 2009, 10, 10.	0.7	8
7	Low-temperature gas from marine shales. Geochemical Transactions, 2009, 10, 3.	0.7	9
8	Natural gas at thermodynamic equilibrium Implications for the origin of natural gas. Geochemical Transactions, 2009, 10, 6.	0.7	22
9	Modifications of the petroleum system concept: Origins of alkanes and isoprenoids in crude oils: Reply. AAPG Bulletin, 2005, 89, 1245-1250.	1.5	2
10	Modification of the petroleum system concept: Origins of alkanes and isoprenoids in crude oils. AAPG Bulletin, 2004, 88, 587-611.	1.5	15
11	Comment on â€œNatural gas composition in a geological environment and the implications for the processes of generation and preservation,â€•Lloyd R. Snowdon, 2001, Organic Geochemistry 32, 913â€"931. Organic Geochemistry, 2002, 33, 81-83.	1.8	3
12	Methane concentrations in natural gas: the genetic implications. Organic Geochemistry, 2001, 32, 1283-1287.	1.8	39
13	Carbon isotopic evidence for the catalytic origin of light hydrocarbons. Geochemical Transactions, 2000, 1, 1.	0.7	3
14	The origin of light hydrocarbons. Geochimica Et Cosmochimica Acta, 2000, 64, 1265-1277.	3.9	103
15	The carbon isotopic composition of catalytic gas: a comparative analysis with natural gas. Geochimica Et Cosmochimica Acta, 1999, 63, 1097-1106.	3.9	48
16	The catalytic decomposition of petroleum into natural gas. Geochimica Et Cosmochimica Acta, 1997, 61, 5347-5350.	3.9	100
17	The light hydrocarbons in petroleum: a critical review. Organic Geochemistry, 1997, 26, 417-440.	1.8	234
18	Transition metal catalysis in the generation of natural gas. Organic Geochemistry, 1996, 24, 977-984.	1.8	111

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19	Role of transition-metal catalysis in the formation of natural gas. Nature, 1994, 368, 536-538.	27.8	162
20	The origin of light hydrocarbons in petroleum: Ring preference in the closure of carbocyclic rings. Geochimica Et Cosmochimica Acta, 1994, 58, 895-901.	3.9	118
21	Transition metal catalysis in the generation of petroleum: A genetic anomaly in Ordovician oils. Geochimica Et Cosmochimica Acta, 1992, 56, 3851-3854.	3.9	18
22	Transition metal catalysis in the generation of petroleum and natural gas. Geochimica Et Cosmochimica Acta, 1992, 56, 553-555.	3.9	120
23	Organic geochemistry division of the geochemical society Best paper award 1991. Geochimica Et Cosmochimica Acta, 1992, 56, 1785.	3.9	0
24	The stability of hydrocarbons under the timeâ€“temperature conditions of petroleum genesis. Nature, 1991, 352, 146-148.	27.8	106
25	The origin of light hydrocarbons in petroleum: A kinetic test of the steady-state catalytic hypothesis. Geochimica Et Cosmochimica Acta, 1990, 54, 1315-1323.	3.9	130
26	The origin of light cycloalkanes in petroleum. Geochimica Et Cosmochimica Acta, 1990, 54, 23-27.	3.9	111
27	Pre-steady-state kinetics at the onset of petroleum generation. Organic Geochemistry, 1990, 16, 41-48.	1.8	2
28	The diagenesis of carbohydrates by hydrogen sulfide. Geochimica Et Cosmochimica Acta, 1983, 47, 1433-1441.	3.9	41
29	The mechanism of olefin metathesis. Journal of the American Chemical Society, 1977, 99, 6117-6119.	13.7	13
30	Transition metal catalysis of pericyclic reactions. Coordination Chemistry Reviews, 1975, 15, 109-205.	18.8	59
31	The Role of the Transition Metal in Catalyzing Pericyclic Reactions. , 1975, , 169-180.		0
32	The removal of orbital symmetry restrictions to organic reactions. , 1974, , 39-91.		2
33	The conservation of coordinate bonding and the catalysis of allowed and forbidden reactions. Tetrahedron Letters, 1973, 14, 1509-1512.	1.4	12
34	Orbital symmetry restraints to transition metal catalyzed [2+2] cycloaddition reactions. Journal of the American Chemical Society, 1971, 93, 1123-1130.	13.7	64
35	The role of coordinate bonding in metal-catalyzed symmetry-forbidden valence isomerizations. Tetrahedron Letters, 1971, 12, 505-508.	1.4	19
36	Molecular Orbital Symmetry Conservation in Transition Metal Catalysis. Advances in Catalysis, 1969, , 291-325.	0.2	71

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37	Molecular orbital symmetry restrictions on transition metal catalyzed bis(acetylene)-cyclobutadiene interconversion. Journal of the American Chemical Society, 1969, 91, 1030-1031.	13.7	46
38	Molecular orbital symmetry conservation in transition metal catalyzed transformations. Journal of the American Chemical Society, 1967, 89, 2484-2486.	13.7	115
39	The Introduction of Methylene into an Iridium Complex1. Journal of the American Chemical Society, 1966, 88, 1654-1657.	13.7	70
40	The Electrolytic Hydroxylation and Acetoxylation of Diaryl Alkenes. Journal of Organic Chemistry, 1964, 29, 1367-1371.	3.2	32
41	Kolbe Electrolyses of 3-Phenyl- and 3,3-Diphenylpropanoic Acids. Journal of Organic Chemistry, 1964, 29, 430-435.	3.2	36
42	Rearrangement of the 1,2,2-Triphenylethyl Radical. Journal of Organic Chemistry, 1964, 29, 29-34.	3.2	8