

# Frank D Mango

## List of Publications by Year in descending order

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42  
papers

2,112  
citations

304743

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302126

39  
g-index

43  
all docs

43  
docs citations

43  
times ranked

629  
citing authors

#	ARTICLE	IF	CITATIONS
1	The light hydrocarbons in petroleum: a critical review. <i>Organic Geochemistry</i> , 1997, 26, 417-440.	1.8	234
2	Role of transition-metal catalysis in the formation of natural gas. <i>Nature</i> , 1994, 368, 536-538.	27.8	162
3	The origin of light hydrocarbons in petroleum: A kinetic test of the steady-state catalytic hypothesis. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 1315-1323.	3.9	130
4	Transition metal catalysis in the generation of petroleum and natural gas. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 553-555.	3.9	120
5	The origin of light hydrocarbons in petroleum: Ring preference in the closure of carbocyclic rings. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 895-901.	3.9	118
6	Molecular orbital symmetry conservation in transition metal catalyzed transformations. <i>Journal of the American Chemical Society</i> , 1967, 89, 2484-2486.	13.7	115
7	The origin of light cycloalkanes in petroleum. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 23-27.	3.9	111
8	Transition metal catalysis in the generation of natural gas. <i>Organic Geochemistry</i> , 1996, 24, 977-984.	1.8	111
9	The stability of hydrocarbons under the time-temperature conditions of petroleum genesis. <i>Nature</i> , 1991, 352, 146-148.	27.8	106
10	The origin of light hydrocarbons. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 1265-1277.	3.9	103
11	The catalytic decomposition of petroleum into natural gas. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 5347-5350.	3.9	100
12	Molecular Orbital Symmetry Conservation in Transition Metal Catalysis. <i>Advances in Catalysis</i> , 1969, , 291-325.	0.2	71
13	The Introduction of Methylene into an Iridium Complex <sup>1</sup> . <i>Journal of the American Chemical Society</i> , 1966, 88, 1654-1657.	13.7	70
14	Orbital symmetry restraints to transition metal catalyzed [2+2] cycloaddition reactions. <i>Journal of the American Chemical Society</i> , 1971, 93, 1123-1130.	13.7	64
15	Transition metal catalysis of pericyclic reactions. <i>Coordination Chemistry Reviews</i> , 1975, 15, 109-205.	18.8	59
16	The carbon isotopic composition of catalytic gas: a comparative analysis with natural gas. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1097-1106.	3.9	48
17	Molecular orbital symmetry restrictions on transition metal catalyzed bis(acetylene)-cyclobutadiene interconversion. <i>Journal of the American Chemical Society</i> , 1969, 91, 1030-1031.	13.7	46
18	The diagenesis of carbohydrates by hydrogen sulfide. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 1433-1441.	3.9	41

#	ARTICLE	IF	CITATIONS
19	Methane concentrations in natural gas: the genetic implications. <i>Organic Geochemistry</i> , 2001, 32, 1283-1287.	1.8	39
20	Kolbe Electrolyses of 3-Phenyl- and 3,3-Diphenylpropanoic Acids. <i>Journal of Organic Chemistry</i> , 1964, 29, 430-435.	3.2	36
21	The Electrolytic Hydroxylation and Acetoxylation of Diaryl Alkenes. <i>Journal of Organic Chemistry</i> , 1964, 29, 1367-1371.	3.2	32
22	Catalytic generation of methane at 60–100°C and 0.1–300 MPa from source rocks containing kerogen Types I, II, and III. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 231, 88-116.	3.9	27
23	Natural gas at thermodynamic equilibrium Implications for the origin of natural gas. <i>Geochemical Transactions</i> , 2009, 10, 6.	0.7	22
24	The role of coordinate bonding in metal-catalyzed symmetry-forbidden valence isomerizations. <i>Tetrahedron Letters</i> , 1971, 12, 505-508.	1.4	19
25	Metathesis in the generation of low-temperature gas in marine shales. <i>Geochemical Transactions</i> , 2010, 11, 1.	0.7	19
26	Transition metal catalysis in the generation of petroleum: A genetic anomaly in Ordovician oils. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 3851-3854.	3.9	18
27	Modification of the petroleum system concept: Origins of alkanes and isoprenoids in crude oils. <i>AAPG Bulletin</i> , 2004, 88, 587-611.	1.5	15
28	The mechanism of olefin metathesis. <i>Journal of the American Chemical Society</i> , 1977, 99, 6117-6119.	13.7	13
29	The conservation of coordinate bonding and the catalysis of allowed and forbidden reactions. <i>Tetrahedron Letters</i> , 1973, 14, 1509-1512.	1.4	12
30	Low-temperature gas from marine shales. <i>Geochemical Transactions</i> , 2009, 10, 3.	0.7	9
31	Rearrangement of the 1,2,2-Triphenylethyl Radical. <i>Journal of Organic Chemistry</i> , 1964, 29, 29-34.	3.2	8
32	Low-temperature gas from marine shales: wet gas to dry gas over experimental time. <i>Geochemical Transactions</i> , 2009, 10, 10.	0.7	8
33	Natural catalytic activity in a marine shale for generating natural gas. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 3527-3537.	2.1	7
34	Methane and carbon at equilibrium in source rocks. <i>Geochemical Transactions</i> , 2013, 14, 5.	0.7	4
35	Carbon isotopic evidence for the catalytic origin of light hydrocarbons. <i>Geochemical Transactions</i> , 2000, 1, 1.	0.7	3
36	Comment on "Natural gas composition in a geological environment and the implications for the processes of generation and preservation," Lloyd R. Snowdon, 2001, <i>Organic Geochemistry</i> 32, 913-931. <i>Organic Geochemistry</i> , 2002, 33, 81-83.	1.8	3

#	ARTICLE	IF	CITATIONS
37	“Distinguishing gases derived from oil cracking and kerogen maturation: Insights from laboratory pyrolysis experiments.” Guo Ligu, Xiao Xianming, Tian Hui, Song Zhiguang, 2009, Organic Geochemistry 40, 1074–1084. Organic Geochemistry, 2010, 41, 719-720.	1.8	3
38	Pre-steady-state kinetics at the onset of petroleum generation. Organic Geochemistry, 1990, 16, 41-48.	1.8	2
39	Modifications of the petroleum system concept: Origins of alkanes and isoprenoids in crude oils: Reply. AAPG Bulletin, 2005, 89, 1245-1250.	1.5	2
40	The removal of orbital symmetry restrictions to organic reactions. , 1974, , 39-91.		2
41	Organic geochemistry division of the geochemical society Best paper award 1991. Geochimica Et Cosmochimica Acta, 1992, 56, 1785.	3.9	0
42	The Role of the Transition Metal in Catalyzing Pericyclic Reactions. , 1975, , 169-180.		0