Zeev Aizenshtat

List of Publications by Year
in descending order

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64 papers	1,804 citations	236925 25 h-index	289244 40 g-index
67 all docs	67 docs citations	67 times ranked	1511 citing authors

#	Article	IF	Citations
1	Carbonâ^'Carbon and Carbonâ^'Nitrogen Coupling Reactions Catalyzed by Palladium Nanoparticles Derived from a Palladium Substituted Keggin-Type Polyoxometalate. Organic Letters, 2002, 4, 3529-3532.	4.6	185
2	Biological markers in bitumens and pyrolyzates of Upper Cretaceous bituminous chalks from the Ghareb Formation (Israel). Geochimica Et Cosmochimica Acta, 1984, 48, 151-157.	3.9	99
3	Palladium-Catalyzed Methylation of Aryl and Vinyl Halides by Stabilized Methylaluminum and Methylgallium Complexes. Journal of Organic Chemistry, 1997, 62, 8681-8686.	3.2	87
4	Mechanisms of sulfur introduction chemically controlled: Î´34S imprint. Organic Geochemistry, 2004, 35, 1319-1336.	1.8	83
5	The formation of isoprenoid sulfur compounds during diagenesis: simulated sulfur incorporation and thermal transformation. Organic Geochemistry, 1994, 21, 1015-1025.	1.8	67
6	Polyoxometalates as Reduction Catalysts: Deoxygenation and Hydrogenation of Carbonyl Compounds. Angewandte Chemie - International Edition, 1999, 38, 3331-3334.	13.8	66
7	Study of thermochemical sulfate reduction mechanism using compound specific sulfur isotope analysis. Geochimica Et Cosmochimica Acta, 2016, 188, 73-92.	3.9	64
8	Stable sulfur isotope partitioning during simulated petroleum formation as determined by hydrous pyrolysis of Ghareb Limestone, Israel. Geochimica Et Cosmochimica Acta, 2005, 69, 5317-5331.	3.9	61
9	Sorption-Desorption Behavior of Atrazine in Soils Irrigated with Reclaimed Wastewater. Soil Science Society of America Journal, 2005, 69, 1703-1710.	2.2	58
10	Preferential catalytic hydrogenation of aromatic compounds versus ketones with a palladium substituted polyoxometalate as pre-catalyst. New Journal of Chemistry, 2002, 26, 272-274.	2.8	51
11	Phase-transfer-catalyzed reactions between polysulfide anions and .alpha.,.beta.-unsaturated carbonyl compounds. Journal of Organic Chemistry, 1993, 58, 6103-6108.	3.2	50
12	Role of Sulfur in the Transformations of Sedimentary Organic Matter: A Mechanistic Overview. ACS Symposium Series, 1995, , 16-37.	0.5	49
13	Stable radicals formation in coals undergoing weathering: effect of coal rank. Physical Chemistry Chemical Physics, 2012, 14, 13046.	2.8	47
14	Reaction of polysulfide anions with Î±,Î² unsaturated isoprenoid aldehydes in aquatic media: simulation of oceanic conditions. Organic Geochemistry, 2004, 35, 909-921.	1.8	44
15	Sulfur Stable Isotope Distribution of Polysulfide Anions in an (NH4)2SnAqueous Solution. Inorganic Chemistry, 2006, 45, 1427-1429.	4.0	43
16	Experiments on Î´34S mixing between organic and inorganic sulfur species during thermal maturation. Geochimica Et Cosmochimica Acta, 2006, 70, 5146-5161.	3.9	38
17	Thermal behavior of brominated and polybrominated compounds I: closed vessel conditions. Journal of Analytical and Applied Pyrolysis, 2002, 63, 105-128.	5.5	36
18	Thermal alteration experiments on organic matter in recent marine sedimentâ€"I. Pigments. Geochimica Et Cosmochimica Acta, 1975, 39, 173-185.	3.9	33

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19	Electron spin resonance of stabilized free radicals in sedimentary organic matter. Organic Geochemistry, 1986, 9, 321-329.	1.8	33
20	Investigation of pyrolytically produced condensates of phenol-formaldehyde resins, in relation to their structure and decomposition mechanism. Journal of Analytical and Applied Pyrolysis, 1992, 22, 153-178.	5.5	32
21	Field and Laboratory Simulation Study of Hot Spots in Stockpiled Bituminous Coal. Energy & Fuels, 2012, 26, 7230-7235.	5.1	32
22	Reducing the spinâ€“spin interaction of stable carbon radicals. Physical Chemistry Chemical Physics, 2013, 15, 6182.	2.8	28
23	Elucidating the role of stable carbon radicals in the low temperature oxidation of coals by coupled EPRâ€“NMR spectroscopy â€“ a method to characterize surfaces of porous carbon materials. Physical Chemistry Chemical Physics, 2014, 16, 9364.	2.8	27
24	Evaluation of source, environments of deposition and diagenesis of some israeli â€œoil shalesâ€•â€” N-Alkanes, fatty acids, tetrapyrroles and kerogen. Chemical Geology, 1983, 39, 189-214.	3.3	26
25	An improved synthesis of carbocyclic and heterocyclic arene imines. Journal of Organic Chemistry, 1980, 45, 4252-4254.	3.2	25
26	Kinetic resolution of racemic 2,2â€²-bis(trifluoromethane-sulfonyloxy)-1,1â€²-binaphthalene by chiral dimethylaluminum complexes and an achiral Pd catalyst, as well as by achiral dimethylaluminum reagents in the presence of a chiral Pd catalyst. Tetrahedron Letters, 1998, 39, 5611-5614.	1.4	25
27	Thermal behavior of brominated and polybrominated compounds II: Pyroproducts of brominated phenols as mechanistic tools. Journal of Analytical and Applied Pyrolysis, 2002, 63, 129-145.	5.5	24
28	The Role of Lipids on Sorption Characteristics of Freshwater- and Wastewater-Irrigated Soils. Journal of Environmental Quality, 2006, 35, 2154-2161.	2.0	22
29	Maturation trend in oils and asphalts of the Jordan Rift: Utilization of detailed vanadylporphyrin analysis. Geochimica Et Cosmochimica Acta, 1989, 53, 3185-3188.	3.9	21
30	Glycine betaine is the main organic osmotic solute in a stratified microbial community in a hypersaline evaporitic gypsum crust. Extremophiles, 2013, 17, 445-451.	2.3	20
31	Sulfur isotope fractionation during incorporation of sulfur nucleophiles into organic compounds. Chemical Communications, 2008, , 1356.	4.1	19
32	Proposed Thermal Pathways for Sulfur Transformations in Organic Macromolecules: Laboratory Simulation Experiments. ACS Symposium Series, 1995, , 110-137.	0.5	18
33	Title is missing!. Journal of Chemical Ecology, 1998, 24, 1033-1047.	1.8	17
34	Photosensitized oxidation of naturally occurring isoprenoid allyl alcohols as a possible pathway for their transformation to thiophenes in sulfur rich depositional environments. Organic Geochemistry, 2004, 35, 693-712.	1.8	16
35	Tetrapyrroles and associated compounds in Dead Sea asphalts. Chemical Geology, 1979, 24, 161-174.	3.3	15
36	The chemistry of polycyclic arene imines. I. Substitution at the nitrogen atom of 1a,9bâ€dihydroâ€1Hâ€phenanthro[9,10â€b]azirine. Journal of Heterocyclic Chemistry, 1981, 18, 1513-1516.	2.6	15

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37	Oil-oil correlation and potential source rocks for oils in Paleozoic reservoir rocks in the Tataria and Perm basins, Russia. Organic Geochemistry, 1998, 29, 701-712.	1.8	15
38	Sorption of organic compounds to humin from soils irrigated with reclaimed wastewater. Geoderma, 2008, 145, 98-106.	5.1	15
39	The action of elemental sulfur plus water on 1-octene at low temperatures. Organic Geochemistry, 2013, 59, 82-86.	1.8	15
40	Modes of Formation of Carbon Oxides [CO_x (x = 1 or 2)] from Coals during Atmospheric Storage. Part 2: Effect of Coal Rank on the Kinetics. Energy & Fuels, 2011, 25, 5626-5631.	5.1	13
41	The chemistry of polycyclic arene imines. V. Reactions of phenanthrene 9,10-imine with nucleophiles under phase transfer conditions. Journal of Heterocyclic Chemistry, 1984, 21, 1597-1601.	2.6	12
42	Significance of Î´34S and evaluation of its imprint on sedimentary organic matter: I. The role of reduced sulfur species in the diagenetic stage: A conceptual review. Geochemical Society Special Publications, 2004, , 15-33.	0.1	12
43	Significance of Î´34S and evaluation of its imprint on sedimentary sulfur rich organic matter II: Thermal changes of kerogens type II-S catagenetic stage controlled mechanisms. A study and conceptual overview. Geochemical Society Special Publications, 2004, , 35-50.	0.1	12
44	Isothermal fluidized-bed studies on the kinetics and pyro-products of linear and branched poly(p-phenylene sulfide) and proposed mechanisms. Journal of Analytical and Applied Pyrolysis, 1993, 27, 131-143.	5.5	11
45	The chemistry of polycyclic arene imines. II. Photochemistry of phenanthrene 9,10â€imine and of its Nâ€butyl derivative. Journal of Heterocyclic Chemistry, 1983, 20, 1019-1022.	2.6	10
46	The chemistry of polycyclic arene imines. III. Nâ€alkylation of phenanthrene 9,10â€imineNâ€alkylation of phenanthrene 9,10â€imine. Journal of Heterocyclic Chemistry, 1984, 21, 1-3.	2.6	10
47	Thermal behavior of immature asphalts and related kerogens. Organic Geochemistry, 1986, 10, 537-546.	1.8	10
48	Correlation between geochemical environments and controlling factors in the metallation of porphyrins. Organic Geochemistry, 1988, 13, 747-756.	1.8	10
49	The Î´34S values of the early-cleaved sulfur upon low temperature pyrolysis of a synthetic polysulfide cross-linked polymer. Organic Geochemistry, 2005, 36, 971-974.	1.8	9
50	Osmotic adaptation of microbial communities in hypersaline microbial mats. , 1994, , 125-130.		9
51	Thermal Evaluation of Bituminous Rocks and Pyroproducts. Israel Journal of Chemistry, 1982, 22, 266-272.	2.3	8
52	Reactions of Clay Volatiles with n-Alkanes. Clays and Clay Minerals, 1989, 37, 446-450.	1.3	7
53	Catalytic Hydrocracking -Hydrogenation of Castor Oil Fatty Acid Methyl Esters over Nickel Substituted Polyoxometalate Catalyst. ChemistrySelect, 2016, 1, 6396-6405.	1.5	7
54	The chemistry of polycyclic arene imine. VI. 1-[N,N-di-(2-propenyl)-9-phenanthreneamine-10-yl]-1a,9b-dihydrophenanthro[9,10-b]azirine an unusual allylation product of phenanthrene 9,10-imine. Journal of Heterocyclic Chemistry, 1985, 22, 865-868.	2.6	5

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55	Preparation of halogenated furfurals as intermediates in the carbohydrates to biofuel process. RSC Advances, 2016, 6, 36069-36076.	3.6	5
56	Palladium catalyzed hydrogenation of biomass derived halogenated furfurals. RSC Advances, 2016, 6, 103149-103159.	3.6	5
57	Extrusion of halogens from aromatic compounds by transition metal complexes. Reaction of IrCl(CO)(PPh3)2 with halogenated benzaldehydes. Transition Metal Chemistry, 1976, 1, 52-54.	1.4	4
58	Preparation of a thiophenol/formaldehyde resin; its structure and the mechanism of its pyrolysis. Journal of Analytical and Applied Pyrolysis, 1994, 28, 231-244.	5.5	4
59	Metallation of porphyrins in two-phase systems using carboxylic acids, thiols, and phenols. Journal of the Chemical Society Perkin Transactions II, 1987, , 287.	0.9	2
60	Porphyrin metallation by graphiteâ€“metal intercalates: a model for the occurrence of metalloporphyrins in coal. Journal of the Chemical Society Chemical Communications, 1987, .	2.0	2
61	The Analysis of Alkanes and Cycloalkanes. , 0, , 289-349.		2
62	Exploring the Radical Nature of a Carbon Surface by Electron Paramagnetic Resonance and a Calibrated Gas Flow. Journal of Visualized Experiments, 2014, , .	0.3	2
63	Analysis of Dienes and Polyenes and Their Structure Determination. , 2003, , 481-505.		1
64	Polyoxometalates as Reduction Catalysts: Deoxygenation and Hydrogenation of Carbonyl Compounds. Angewandte Chemie - International Edition, 1999, 38, 3331-3334.	13.8	1