

E J Behrman

List of Publications by Citations

Source: <https://exaly.com/author-pdf/12027183/e-j-behrman-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64

papers

953

citations

19

h-index

28

g-index

86

ext. papers

1,049

ext. citations

6

avg, IF

3.86

L-index

#	Paper	IF	Citations
64	The bacterial oxidation of nicotinic acid. <i>Journal of Biological Chemistry</i> , 1957 , 228, 923-45	5.4	103
63	Mechanism of the base-catalyzed conversion of nitriles to amides by hydrogen peroxide. <i>Journal of Organic Chemistry</i> , 1971 , 36, 3048-3050	4.2	57
62	Nucleophilic reactivity of peroxy anions. <i>Journal of Organic Chemistry</i> , 1972 , 37, 1037-1041	4.2	54
61	Cholesterol and Plants. <i>Journal of Chemical Education</i> , 2005 , 82, 1791	2.4	52
60	The Elbs Peroxydisulfate Oxidation in the Pyridine Series: a New Synthesis of 2,5-Dihydroxypyridine1. <i>Journal of the American Chemical Society</i> , 1958 , 80, 3717-3718	16.4	39
59	The Elbs and Boyland-Sims peroxydisulfate oxidations. <i>Beilstein Journal of Organic Chemistry</i> , 2006 , 2, 22	2.5	36
58	The reaction of oxo-osmium(VI)-pyridine complexes with thymine glycols. <i>Journal of Organic Chemistry</i> , 1973 , 38, 1499-504	4.2	34
57	Formation and hydrolysis of osmate(VI) esters. <i>Inorganic Chemistry</i> , 1972 , 11, 2621-2627	5.1	31
56	Tryptophan metabolism in Pseudomonas. <i>Nature</i> , 1962 , 196, 150-2	50.4	31
55	Reaction of osmium reagents with amino acids and proteins. Reactivity of amino acid residues and peptide bond cleavage. <i>International Journal of Peptide and Protein Research</i> , 1981 , 17, 495-500		29
54	Reactions of osmium ligand complexes with nucleosides. <i>Journal of the American Chemical Society</i> , 1975 , 97, 7352-8	16.4	28
53	The guanosine 5'-diphosphate D-mannose: guanosine 5'-diphosphate L-galactose epimerase of <i>Chlorella pyrenoidosa</i> . Chemical synthesis of guanosine 5'-diphosphate L-galactose and further studies of the enzyme and the reaction it catalyzes. <i>Archives of Biochemistry and Biophysics</i> , 1979 , 194, 496-502	4.1	27
52	Oxidation of nucleic acid bases by potassium peroxodisulfate in alkaline aqueous solution. <i>Journal of Organic Chemistry</i> , 1974 , 39, 1983-9	4.2	27
51	Chemical synthesis of -L-fucopyranosyl phosphate and -L-rhamnopyranosyl phosphate. <i>Biochemistry</i> , 1973 , 12, 997-1002	3.2	27
50	Studies on the Mechanism of the Elbs Peroxydisulfate Oxidation. <i>Journal of the American Chemical Society</i> , 1963 , 85, 3478-3482	16.4	24
49	The synthesis and characterization of uridine 5'-(beta-L-rhamnopyranosyl diphosphate) and its role in the enzymic synthesis of rutin. <i>Archives of Biochemistry and Biophysics</i> , 1991 , 288, 239-42	4.1	22
48	Kinetics of the reaction of some tryptophan derivatives with the osmium tetroxide-pyridine reagent. <i>Journal of Organic Chemistry</i> , 1980 , 45, 135-140	4.2	22

47	Osmium (VI) complexes of the 3', 5'-dinucleoside monophosphates, ApU and UpA. <i>Biochemistry</i> , 1976 , 15, 565-8	3.2	21
46	The ortho-para ratio and the intermediate in the persulfate oxidation of aromatic amines (the Boyland-Sims oxidation). <i>Journal of Organic Chemistry</i> , 1992 , 57, 2266-2270	4.2	20
45	Mechanism of formation of bis(pyridine)oxoosmium(VI) esters. Effect of pyridine activity on the apparent rate law. <i>Inorganic Chemistry</i> , 1975 , 14, 1425-1426	5.1	18
44	The reactions of oxo-osmium ligand complexes with isopentenyl adenine and its nucleoside. <i>Bioinorganic Chemistry</i> , 1976 , 5, 343-52		17
43	Amino acid metabolism. <i>Annual Review of Biochemistry</i> , 1959 , 28, 223-56	29.1	17
42	The x-ray crystal structures of the oxo-osmium complexes, OsO ₂ (OH) ₂ phen (1) and Os ₂ O ₆ py ₄ (2). <i>Transition Metal Chemistry</i> , 1981 , 6, 194-195	2.1	16
41	The Elbs Peroxydisulfate Oxidation: Kinetics. <i>Journal of the American Chemical Society</i> , 1962 , 84, 3454-3457	4.4	15
40	N.m.r. assignments of acetyl and trityl groups in derivatized carbohydrates via proton-carbon long-range couplings. <i>Carbohydrate Research</i> , 1986 , 158, 227-35	2.9	14
39	Synthesis of beta-L-fucopyranosyl phosphate and L-fucofuranosyl phosphates by the MacDonald procedure. <i>Carbohydrate Research</i> , 1977 , 56, 315-24	2.9	13
38	Sequence-specific osmium reagents for polynucleotides. 2. A method for thymine-cytosine pairs. <i>Journal of the American Chemical Society</i> , 1981 , 103, 7773-7779	16.4	12
37	Monomer-dimer phenomena in oxoosmium(VI) complexes. <i>Inorganic Chemistry</i> , 1979 , 18, 1364-1370	5.1	11
36	The bacterial oxidation of nicotinic acid. N-formylmaleamic and N-formylfumaramic acids. <i>Archives of Microbiology</i> , 1976 , 110, 87-90	3	11
35	The reactions of hydrogen peroxide and some of its derivatives with uracil, thymine, and thymidine 5'-phosphate. <i>Journal of Organic Chemistry</i> , 1971 , 36, 1256-9	4.2	11
34	The Persulfate Oxidation of Phenols and Arylamines (The Elbs and the Boyland-Sims Oxidations) 1988 , 421-511		10
33	An improved synthesis of guanosine 5'-monothiophosphate. <i>Journal of Chemical Research</i> , 2000 , 2000, 446-447	0.6	9
32	Comment on "Revised mechanism of Boyland-Sims oxidation". <i>Journal of Physical Chemistry A</i> , 2011 , 115, 7863-4; author reply 7865-8	2.8	8
31	Evidence for ipso attack in the peroxodisulfate oxidation of tertiary aromatic amines. <i>Journal of Organic Chemistry</i> , 1978 , 43, 4551-4552	4.2	8
30	Improved Syntheses of 5-Hydroxy-2-Pyridones (2,5-Dihydroxypyridines). <i>Synthetic Communications</i> , 2008 , 38, 1168-1175	1.7	6

29	A new synthesis of sucrose 6'-phosphate. <i>Carbohydrate Research</i> , 1995 , 270, 71-5	2.9	6
28	ENRICHMENT PROCEDURES FOR THE ISOLATION OF TRYPTOPHAN-OXIDIZING ORGANISMS. <i>Journal of Bacteriology</i> , 1963 , 85, 946-7	3.5	6
27	Quantitative Determination of o- and p-Dihydric Phenols in Presence of Monohydric Phenols by Use of a Phosphotungstic Acid Reagent.. <i>Analytical Chemistry</i> , 1964 , 36, 2189-2191	7.8	5
26	A Simple Colorimetric Assay for L-Dopa in the Presence of Tyrosine Using the Phosphotungstic Acid Reagent. <i>Analytical Letters</i> , 1988 , 21, 183-191	2.2	4
25	Peroxydisulfate chemistry in the environmental literature: A brief critique. <i>Journal of Hazardous Materials</i> , 2019 , 365, 971	12.8	4
24	Improved Synthesis of Photo-leucine. <i>Synthetic Communications</i> , 2008 , 38, 2276-2284	1.7	3
23	Borodin. <i>Journal of Chemical Education</i> , 2006 , 83, 1138	2.4	3
22	Equilibrium Constants and Water Activity Revisited. <i>Journal of Chemical Education</i> , 2006 , 83, 1290	2.4	3
21	5-Hydroxyorotic Acid and Orotic Acid 5-Sulfate. <i>Journal of Chemical Research</i> , 2003 , 2003, 702-703	0.6	3
20	On the Conformation of UDPG, a Sugar Nucleotide. <i>Nucleosides & Nucleotides</i> , 1999 , 18, 1055-1056		3
19	Chemical transformation of sugar nucleotides: acetylation of uridine 5'-(alpha-D-glucopyranosyl diphosphate). <i>Carbohydrate Research</i> , 1990 , 206, 373-7	2.9	3
18	A pair-specific osmium reagent for polynucleotides. <i>Journal of the American Chemical Society</i> , 1979 , 101, 2251-2252	16.4	3
17	Peroxodisulfate oxidation of guanosine and deoxyguanosine in alkaline aqueous solution. <i>Journal of Organic Chemistry</i> , 1974 , 39, 2699-2703	4.2	3
16	The quinoline pathway of tryptophan oxidation in <i>Pseudomonas</i> : synthesis of 7,8-dihydroxykynurenic acid and kynurenic acid-C14. <i>Analytical Biochemistry</i> , 1960 , 1, 181-6	3.1	3
15	Comment on "Changes in activation energy and kinetics of heat-activated persulfate oxidation of phenol in response to changes in pH and temperature". <i>Chemosphere</i> , 2018 , 194, 42	8.4	3
14	N-Formylmaleamic acid: an intermediate in nicotinic acid metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, E88; author reply E89	11.5	2
13	Music and Chemistry. <i>Journal of Chemical Education</i> , 2005 , 82, 37	2.4	2
12	SYNTHESIS OF 2,5- AND 2,6-DINITROFLUOROBENZENES AND RELATED HYDROQUINONES. <i>Organic Preparations and Procedures International</i> , 2003 , 35, 422-425	1.1	2

11	L-DOPA-3-O-SULFATE BY THE PERSULFATE OXIDATION OF L-TYROSINE. <i>Organic Preparations and Procedures International</i> , 1989 , 21, 351-353	1.1	2
10	Yeast tyrosine tRNA labeled with osmium at the isopentenyl adenosine residue. <i>FEBS Letters</i> , 1979 , 103, 300-3	3.8	2
9	On the question of phosphate complexes of osmium tetroxide: kinetics of reactions with nucleotides and dinucleoside monophosphates. <i>Bioinorganic Chemistry</i> , 1976 , 5, 359-60		2
8	Comment on Jiang Y, Zhang J, Xi B, et al. [Degradation of toluene-2,4-diamine by persulphate. <i>Environ Tech.</i> 2015;36:1441-1447]. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 1769	2.6	1
7	Simple Syntheses of Isouramil and Isobarbituric Acid. <i>Journal of Chemical Research Synopses</i> , 1998 , 340		1
6	The Anomeric Specificity of Enzymes Which Act on Sugars. <i>Journal of Chemical Education</i> , 2007 , 84, 1608-1614	2.4	1
5	Phosphoenolpyruvate: An end to hand-waving. <i>Biochemistry and Molecular Biology Education</i> , 2008 , 36, 323-4	1.3	1
4	Comment on A Novel and Simple Solvent-Free Method for Nucleophilic Aromatic Substitution of Inactive Aryl Halides. <i>Synthetic Communications</i> , 2007 , 37, 1455-1456	1.7	
3	Choice of Citrus Fruit. <i>Journal of Chemical Education</i> , 2004 , 81, 196	2.4	
2	What Risk? (ed. Bate, Roger). <i>Journal of Chemical Education</i> , 1999 , 76, 904	2.4	
1	A Comment on Determination of the Total Nitrogen Content of Organic Substances Through the Ammonia Formed in oxidation by Persulfate. <i>Analytical Letters</i> , 1985 , 18, 1039-1040	2.2	