

Robert Engel

List of Publications by Year in descending order

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60
papers

1,779
citations

394421

19
h-index

265206

42
g-index

61
all docs

61
docs citations

61
times ranked

1338
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphonates as analogues of natural phosphates. <i>Chemical Reviews</i> , 1977, 77, 349-367.	47.7	736
2	Preparation and investigation of antibacterial carbohydrate-based surfaces. <i>Carbohydrate Research</i> , 2002, 337, 2495-2499.	2.3	83
3	Effects of functional group substitution on electron spectra and solvation dynamics in a family of ionic liquids. <i>Radiation Physics and Chemistry</i> , 2005, 72, 99-104.	2.8	81
4	Polycations. Part X. LIPs, a new category of room temperature ionic liquid based on polyammonium salts. <i>Chemical Communications</i> , 2000, , 2413-2414.	4.1	63
5	An Improved Direct Oxidation of Alkyl Halides to Aldehydes. <i>Synthetic Communications</i> , 1986, 16, 1343-1346.	2.1	60
6	Reactions of copper(I) halide complexes of trivalent phosphorus with vinylic halides. <i>Journal of Organic Chemistry</i> , 1981, 46, 5200-5204.	3.2	42
7	Isosteres of natural phosphates. 11. Synthesis of a phosphonic acid analogue of an oligonucleotide. <i>Tetrahedron</i> , 1984, 40, 3949-3956.	1.9	39
8	New cascade molecules centered about phosphorus. <i>Heteroatom Chemistry</i> , 1993, 4, 181-184.	0.7	37
9	Multiply charged ions in the mass spectra of aromatics. <i>Organic Mass Spectrometry</i> , 1973, 7, 177-183.	1.3	36
10	Effects of Phosphonic Acid Analogues of Glycerol-3-Phosphate on the Growth of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1972, 112, 408-412.	2.2	32
11	Rabbit muscle l-glycerol-3-phosphate dehydrogenase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1974, 341, 85-92.	2.6	29
12	A Novel Synthesis of 1-Aminoalkylphosphonates. <i>Synthetic Communications</i> , 1991, 21, 1039-1046.	2.1	29
13	Polycations. 18. The synthesis of polycationic lipid materials based on the diamine 1,4-diazabicyclo[2.2.2]octane. <i>Chemistry and Physics of Lipids</i> , 2009, 158, 61-69.	3.2	27
14	Synthesis and Biological Activity of Highly Cationic Dendrimer Antibiotics. <i>Molecular Pharmaceutics</i> , 2016, 13, 3827-3834.	4.6	27
15	Polycations. 17. Synthesis and properties of polycationic derivatives of carbohydrates. <i>Carbohydrate Research</i> , 2009, 344, 1620-1627.	2.3	25
16	The Inhibition of Phosphatidylglycerol Synthesis in <i>Escherichia coli</i> by 3,4-Dihydroxybutyl-1-phosphonate. <i>Journal of Biological Chemistry</i> , 1974, 249, 2473-2477.	3.4	25
17	Effects of Phosphonic Acid Analogues of Glycerol-3-Phosphate on the Growth of <i>Escherichia coli</i> : Phospholipid Metabolism. <i>Antimicrobial Agents and Chemotherapy</i> , 1973, 4, 467-473.	3.2	24
18	An Improved Synthesis of Vinylic Phosphonates from Ketones ¹ . <i>Synthetic Communications</i> , 1980, 10, 299-304.	2.1	24

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19	Isosteres of natural phosphates. 10. synthesis of analogues related to glycerol 3-phosphate. Tetrahedron, 1983, 39, 2369-2372.	1.9	24
20	<scp>l</scp> -Glyceraldehyde 3-Phosphate, a Bactericidal Agent. Antimicrobial Agents and Chemotherapy, 1977, 11, 147-153.	3.2	22
21	Polycations. 5. Inducement of $\hat{\nu}$ -DNA Circular Dichroism Signals for Duplex Deoxyribonucleotide Homopolymers by Polycationic Strings. Archives of Biochemistry and Biophysics, 1999, 364, 129-131.	3.0	21
22	The synthesis of phosphonic acid and phosphate analogues of glycerol-3-phosphate and related metabolites. Tetrahedron, 1978, 34, 2873-2878.	1.9	19
23	Polycationic Glycosides. Molecules, 2011, 16, 1508-1518.	3.8	19
24	Polycations: Syntheses of Polyammonium Strings as Antibacterial Agents. Synlett, 1997, 1997, 1007-1009.	1.8	18
25	Polycations. 4. Synthesis and antihydrophobic effect of polycationic strings. Tetrahedron Letters, 1998, 39, 8617-8620.	1.4	18
26	Organophosphorus Chemistry. Ester-Chloride Conversion Under Mild Conditions at Phosphorus. Synthetic Communications, 1988, 18, 285-289.	2.1	16
27	Polycations. IX. Polyammonium derivatives of cyclodextrins: syntheses and binding to organic oxyanions. Heteroatom Chemistry, 2000, 11, 546-555.	0.7	16
28	Isosteres of natural phosphates. 4. The synthesis of phosphonic acid analogues of phosphatidic acid and acyldihydroxyacetone phosphate. Chemistry and Physics of Lipids, 1976, 17, 169-175.	3.2	14
29	A New Category of Liquid Salt-Liquid Ionic Phosphates (LIPs). Phosphorus, Sulfur and Silicon and the Related Elements, 2002, 177, 1441-1445.	1.6	14
30	Isosteres of natural phosphates. 8. The preparation and biological properties of 1-deoxy-1-dihydroxyphosphinylmethylfructose, an analogue of fructose-1-phosphate.. Tetrahedron Letters, 1978, 19, 723-726.	1.4	13
31	A Synthetically Useful Regioselective Epoxide Ring-Opening Procedure. Synthetic Communications, 1992, 22, 2367-2371.	2.1	13
32	A Direct Synthesis of Vinylic Phosphonates from Vinylic Halides. Synthetic Communications, 1980, 10, 933-937.	2.1	12
33	Organophosphorus Chemistry. 2. The Reduction of Quinquevalent Phosphorus to the Trivalent State. Synthetic Communications, 1988, 18, 665-670.	2.1	12
34	A DIRECT SYNTHESIS OF 1-CYCLOALKENYLPHOSPHONATES. Phosphorous and Sulfur and the Related Elements, 1983, 15, 15-18.	0.2	10
35	1,4-Diazabicyclo[2.2.2]octane Derivatives: A Novel Class of Voltage-Gated Potassium Channel Blockers. Molecular Pharmacology, 2006, 69, 718-726.	2.3	9
36	Glycerol 3-phosphate analogues as metabolic inhibitors in Escherichia coli 3-hydroxy-4-oxobutyl-1-phosphonate, a drug that interferes with normal phosphoglyceride metabolism. Lipids and Lipid Metabolism, 1979, 572, 472-482.	2.6	8

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37	Halide Exchange at Vinylic Position Catalyzed by Copper (I)halide Complexes of Trivalent Phosphorus. <i>Synthetic Communications</i> , 1981, 11, 405-408.	2.1	8
38	Phosphonolipids. The synthesis of chiral vinylic phosphonolipid analogues of phosphatidic acid and phosphatidyl choline. <i>Chemistry and Physics of Lipids</i> , 1988, 49, 1-7.	3.2	8
39	Polycations-12. The Synthesis of Liquid Ionic Phosphates (LIPs) from Mono- and Polycationic Ammonium Halides. <i>Synthesis</i> , 2002, 2002, 1530-1540.	2.3	8
40	Polycations. 6. polycationic heterocyclic salts: Their synthesis and effect on double-stranded DNA. <i>Heteroatom Chemistry</i> , 1999, 10, 559-565.	0.7	7
41	Isosteres of natural phosphates.7. The preparation of 5-carboxy-4-hydroxy-4-methylpentyl-1-phosphonic acid. <i>Tetrahedron Letters</i> , 1977, 18, 351-354.	1.4	6
42	Polycations. II. Chiral ammonium dendrimer synthesis. <i>Heteroatom Chemistry</i> , 1998, 9, 485-494.	0.7	6
43	A facile reduction of Ar ₃ COH to Ar ₃ CH. <i>Heteroatom Chemistry</i> , 1997, 8, 501-503.	0.7	5
44	Polycations. III. Synthesis of polyphosphonium salts for use as antibacterial agents. <i>Heteroatom Chemistry</i> , 1998, 9, 495-502.	0.7	5
45	Polycations. 7. Polycationic Cyclic Alkynes. <i>Synthetic Communications</i> , 2000, 30, 2161-2164.	2.1	5
46	POLYCATIONIC MODIFIED PAPER FOR CHROMATOGRAPHY. <i>Analytical Letters</i> , 2002, 35, 1715-1720.	1.8	5
47	The preparation of methyl 5-deoxy-5-(dihydroxyphosphinoyl)hydroxymethyl-2,3-O-isopropylidene- β -D-ribofuranoside, a precursor to a hydroxymethylene analog of D-ribose 5-phosphate. <i>Carbohydrate Research</i> , 1983, 117, 95-100.	2.3	4
48	Isosteres of natural phosphates. 5. The preparation of phosphotidylcholine, phosphotidylethanolamine and phosphotidylglycerol. <i>Chemistry and Physics of Lipids</i> , 1977, 19, 93-98.	3.2	3
49	Effects of Halo Analogs of Glycerol 3-Phosphate and Dihydroxyacetone Phosphate upon <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 1981, 19, 678-681.	3.2	2
50	The phosphonic acid analog of phosphatidylglycerol phosphate: influence on <i>Escherichia coli</i> growth and physiology. <i>Lipids and Lipid Metabolism</i> , 1992, 1128, 250-257.	2.6	2
51	Synthesis of Biological Activities of Phosphorus-Containing Polycationic Strings. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1999, 147, 83-83.	1.6	2
52	New Cations for Ionic Liquids, Including Chiral Adjuncts with Phosphate and Sulfonylimide Anions. <i>ACS Symposium Series</i> , 2007, , 259-266.	0.5	2
53	THERMOLYSIS OF PHOSPHONATES: PHOSPHONOFORMATE ESTERS. <i>Phosphorous and Sulfur and the Related Elements</i> , 1987, 29, 369-371.	0.2	1
54	The Reaction of Phosphoryl Chlorides with Enamines - A New Approach to β -Ketophosphonates. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1996, 111, 163-163.	1.6	1

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55	Glycoside-Based Ionic Liquids. , 2011, , .		1
56	Isosteres of Natural Phosphates 12. Methylene and Hydroxymethylene Analogues of Tyrosine<i>O</i>-Phosphate¹. Main Group Chemistry, 1996, 1, 279-282.	0.8	0
57	Isosteres of Natural Phosphates. Methylene and Hydroxymethylene Analogues of Tyrosine O-Phosphate. Phosphorus, Sulfur and Silicon and the Related Elements, 1996, 111, 162-162.	1.6	0
58	Polycations. 19. The synthesis of symmetrical dicationic lipids with internal dimethylazonia functionalities separated by a spacer unit and pendant chains. Chemistry and Physics of Lipids, 2009, 160, 105-108.	3.2	0
59	Polycations XX: New Monodentate Cationic Ligands and Their Coordination with Ruthenium for the Construction of Complexes Expressing Enhanced Interaction with DNA. Organic Chemistry International, 2012, 2012, 1-7.	1.0	0
60	Introduction to the Robert Bittman Memorial Issue. Chemistry and Physics of Lipids, 2016, 194, 1.	3.2	0