Juliusz Pernak

List of Publications by Year
in descending order

140 papers	6,998 citations	57758 44 h-index	64796 79 g-index
156 all docs	156 docs citations	156 times ranked	4776 citing authors

#	Article	IF	Citations
1	Dicationic Herbicidal Ionic Liquids Comprising Two Active Ingredients Exhibiting Different Modes of Action. Journal of Agricultural and Food Chemistry, 2022, 70, 2545-2553.	5.2	6
2	Amino acid-based dicationic ionic liquids as complex crop protection agents. Journal of Molecular Liquids, 2022, 360, 119357.	4.9	8
3	Choline-based ionic liquids as adjuvants in pesticide formulation. Journal of Molecular Liquids, 2021, 327, 114792.	4.9	19
4	Glycine betaine-based ionic liquids and their influence on bacteria, fungi, insects and plants. New Journal of Chemistry, 2021, 45, 6344-6355.	2.8	17
5	Naturally based ionic liquids with indole-3-acetate anions and cations derived from cinchona alkaloids. RSC Advances, 2021, 11, 27530-27540.	3.6	3
6	Lâ€Carnitineâ€Based Bioâ€Ionic Liquids as Antioxidants. ChemistrySelect, 2021, 6, 1994-2001.	1.5	4
7	Synthesis and characterization of herbicidal ionic liquids based on (4-chloro-2-methylphenoxy)acetate and phenoxyethylammonium. Chemical Papers, 2021, 75, 3607-3615.	2.2	2
8	Conversion of l â€Tryptophan Derivatives into Biologically Active Amino Acid Ionic Liquids. ChemistrySelect, 2021, 6, 5614-5621.	1.5	5
9	Synthetic auxin-based double salt ionic liquids as herbicides with improved physicochemical properties and biological activity. Journal of Molecular Liquids, 2021, 334, 116452.	4.9	15
10	Voltammetric sensor based on long alkyl chain tetraalkylammonium ionic liquids comprising ascorbate anion for determination of nitrite. Mikrochimica Acta, 2021, 188, 54.	5.0	8
11	Bifunctional Double-Salt Ionic Liquids Containing both 4-Chloro-2-Methylphenoxyacetate and <scp>l</scp>-Tryptophanate Anions with Herbicidal and Antimicrobial Activity. ACS Omega, 2021, 6, 33779-33791.	3.5	1
12	Dicationic triazolium fungicidal ionic liquids with herbicidal properties. Chemical Papers, 2020, 74, 261-271.	2.2	12
13	Transformation of Indole-3-butyric Acid into Ionic Liquids as a Sustainable Strategy Leading to Highly Efficient Plant Growth Stimulators. ACS Sustainable Chemistry and Engineering, 2020, 8, 1591-1598.	6.7	29
14	Longâ€Chain Ionic Liquids Based on Monoquaternary DABCO Cations and TFSI Anions: Towards Stable Electrolytes for Electrochemical Capacitors. ChemPlusChem, 2020, 85, 2679-2688.	2.8	7
15	Herbicidal Ionic Liquids: A Promising Future for Old Herbicides? Review on Synthesis, Toxicity, Biodegradation, and Efficacy Studies. Journal of Agricultural and Food Chemistry, 2020, 68, 10456-10488.	5.2	44
16	Synthesis and Characterization of Doubleâ€Salt Herbicidal Ionic Liquids Comprising both 4â€Chloroâ€2â€methylphenoxyacetate and transâ€Cinnamate Anions. ChemPlusChem, 2020, 85, 2281-2289.	2.8	9
17	Synthesis and characterization of bio-based quaternary ammonium salts with gibberellate or l-tryptophanate anion. Monatshefte FÃ¼r Chemie, 2020, 151, 1365-1373.	1.8	9
18	Conversion of Quinine Derivatives into Biologically Active Ionic Liquids: Advantages, Multifunctionality, and Perspectives. ACS Sustainable Chemistry and Engineering, 2020, 8, 9263-9267.	6.7	12

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19	Quantifying the Mineralization of ¹³C-Labeled Cations and Anions Reveals Differences in Microbial Biodegradation of Herbicidal Ionic Liquids between Water and Soil. ACS Sustainable Chemistry and Engineering, 2020, 8, 3412-3426.	6.7	11
20	Third-generation ionic liquids with N-alkylated 1,4-diazabicyclo[2.2.2]octane cations and pelargonate anions. RSC Advances, 2020, 10, 8653-8663.	3.6	15
21	Dicamba-Based Herbicides: Herbicidal Ionic Liquids versus Commercial Forms. Journal of Agricultural and Food Chemistry, 2020, 68, 4588-4594.	5.2	26
22	â€œSweetâ€•ionic liquids comprising the acesulfame anion â€“ synthesis, physicochemical properties and antifeedant activity towards stored product insects. New Journal of Chemistry, 2020, 44, 7017-7028.	2.8	11
23	Use of ammonium salts or binary mixtures derived from amino acids, glycine betaine, choline and indole-3-butyric acid as plant regulators. RSC Advances, 2020, 10, 43058-43065.	3.6	12
24	Synthesis and efficacy of herbicidal ionic liquids with chlorsulfuron as the anion. Open Chemistry, 2020, 18, 1282-1293.	1.9	2
25	Synthesis, Properties, and Antimicrobial Activity of 1-Alkyl-4-hydroxy-1-methylpiperidinium Ionic Liquids with Mandelate Anion. ACS Sustainable Chemistry and Engineering, 2019, 7, 15053-15063.	6.7	21
26	Positive electrode material in lead-acid car battery modified by protic ammonium ionic liquid. Journal of Energy Storage, 2019, 26, 100996.	8.1	17
27	Synthesis, properties and adjuvant activity of docusate-based ionic liquids in pesticide formulations. Journal of Industrial and Engineering Chemistry, 2019, 78, 440-447.	5.8	21
28	Herbicidal Ionic Liquids Containing the Acetylcholine Cation. ChemPlusChem, 2019, 84, 268-276.	2.8	15
29	Difunctional ammonium ionic liquids with bicyclic cations. New Journal of Chemistry, 2019, 43, 4477-4488.	2.8	15
30	Influence of the alkyl chain length on the physicochemical properties and biological activity in a homologous series of dichlorprop-based herbicidal ionic liquids. Journal of Molecular Liquids, 2019, 276, 431-440.	4.9	36
31	Ionic Liquids Derived from Vitamin C as Multifunctional Active Ingredients for Sustainable Stored-Product Management. ACS Sustainable Chemistry and Engineering, 2019, 7, 1072-1084.	6.7	35
32	Bio-ionic Liquids as Adjuvants for Sulfonylurea Herbicides. Weed Science, 2018, 66, 404-414.	1.5	18
33	Electrochemical properties of positive electrode in lead-acid battery modified by ammonium-based ionic liquids. Journal of Solid State Electrochemistry, 2018, 22, 919-930.	2.5	15
34	Bioherbicidal Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2018, 6, 2741-2750.	6.7	42
35	Synthesis and properties of ionic liquids based on mecoprop. New Journal of Chemistry, 2018, 42, 17259-17267.	2.8	8
36	Ammonium bio-ionic liquids based on camelina oil as potential novel agrochemicals. RSC Advances, 2018, 8, 28676-28683.	3.6	24

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37	Synthesis and Structureâ€“Property Relationships in Herbicidal Ionic Liquids and their Double Salts. ChemPlusChem, 2018, 83, 529-541.	2.8	28
38	Pharmacokinetic Profile of 1-Methylnicotinamide Nitrate in Rats. Journal of Pharmaceutical Sciences, 2017, 106, 1412-1418.	3.3	3
39	Two Herbicides in a Single Compound: Double Salt Herbicidal Ionic Liquids Exemplified with Glyphosate, Dicamba, and MCPA. ACS Sustainable Chemistry and Engineering, 2017, 5, 6261-6273.	6.7	62
40	Efficacy of herbicidal ionic liquids and choline salt based on 2,4-D. Crop Protection, 2017, 98, 85-93.	2.1	32
41	Alkyl(C₁₆, C₁₈, C₂₂)trimethylammonium-Based Herbicidal Ionic Liquids. Journal of Agricultural and Food Chemistry, 2017, 65, 260-269.	5.2	32
42	Protic ionic liquids with N-chloroalkyl functionalized cations as electrolytes for carbon-based electrochemical capacitors. Electrochimica Acta, 2017, 246, 971-980.	5.2	11
43	Biodegradable herbicidal ionic liquids based on synthetic auxins and analogues of betaine. New Journal of Chemistry, 2017, 41, 8066-8077.	2.8	42
44	Herbicidal ionic liquids derived from renewable sources. RSC Advances, 2016, 6, 52781-52789.	3.6	38
45	Synthesis and properties of gallate ionic liquids. Tetrahedron, 2016, 72, 7409-7416.	1.9	8
46	Biobased Ionic Liquids with Abietate Anion. ACS Sustainable Chemistry and Engineering, 2016, 4, 6543-6550.	6.7	33
47	Frontispiece: Betaine and Carnitine Derivatives as Herbicidal Ionic Liquids. Chemistry - A European Journal, 2016, 22, .	3.3	0
48	Betaine and Carnitine Derivatives as Herbicidal Ionic Liquids. Chemistry - A European Journal, 2016, 22, 12012-12021.	3.3	57
49	Influence of oligomeric herbicidal ionic liquids with MCPA and Dicamba anions on the community structure of autochthonic bacteria present in agricultural soil. Science of the Total Environment, 2016, 563-564, 247-255.	8.0	49
50	Synthesis, properties and evaluation of biological activity of herbicidal ionic liquids with 4-(4-chloro-2-methylphenoxy)butanoate anion. RSC Advances, 2016, 6, 7330-7338.	3.6	53
51	Quaternary ammonium nonanoate-based ionic liquids as chemicals for crop protection. European Journal of Chemistry, 2016, 7, 217-224.	0.6	7
52	Metsulfuron-Methyl-Based Herbicidal Ionic Liquids. Journal of Agricultural and Food Chemistry, 2015, 63, 3357-3366.	5.2	57
53	Known triazole fungicides â€“ a new trick. RSC Advances, 2015, 5, 9695-9702.	3.6	27
54	Ammonium ionic liquids with anions of natural origin. RSC Advances, 2015, 5, 65471-65480.	3.6	30

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55	Herbicidal ionic liquids based on esterquats. New Journal of Chemistry, 2015, 39, 5715-5724.	2.8	50
56	Glyphosate-Based Herbicidal Ionic Liquids with Increased Efficacy. ACS Sustainable Chemistry and Engineering, 2014, 2, 2845-2851.	6.7	57
57	Palladium Catalyzed Heck Arylation of 2,3-Dihydrofuranâ€"Effect of the Palladium Precursor. Molecules, 2014, 19, 8402-8413.	3.8	9
58	Inhibition of germination and early growth of rape seed (Brassica napus L.) by MCPA in anionic and ester form. Acta Physiologiae Plantarum, 2014, 36, 699-711.	2.1	19
59	Ionic liquids with a theophyllinate anion. New Journal of Chemistry, 2014, 38, 3146-3153.	2.8	30
60	Phenoxy herbicidal ammonium ionic liquids. Tetrahedron, 2014, 70, 4784-4789.	1.9	49
61	Herbicidal ionic liquid with dual-function. Tetrahedron, 2013, 69, 8132-8136.	1.9	50
62	Epoxy resins cured with ionic liquids as novel supports for metal complex catalysts. Comptes Rendus Chimie, 2013, 16, 752-760.	0.5	12
63	Ionic liquids based on 2-chloroethyltrimethylammonium chloride (CCC) as plant growth regulators. Open Chemistry, 2013, 11, 1816-1821.	1.9	4
64	Cellulose-TiO2 nanocomposite with enhanced UVâ€"Vis light absorption. Cellulose, 2013, 20, 1293-1300.	4.9	58
65	Ionic liquids based stored product insect antifeedants. RSC Advances, 2013, 3, 25019.	3.6	27
66	Diallyldimethylammonium and trimethylvinylammonium ionic liquidsâ€"Synthesis and application to catalysis. Applied Catalysis A: General, 2013, 451, 168-175.	4.3	22
67	Palladium-catalyzed asymmetric Heck arylation of 2,3-dihydrofuran â€" effect of prolinate salts. Dalton Transactions, 2013, 42, 1215-1222.	3.3	20
68	Ionic liquids as herbicides and plant growth regulators. Tetrahedron, 2013, 69, 4665-4669.	1.9	64
69	Ionic liquid forms of the herbicide dicamba with increased efficacy and reduced volatility. Green Chemistry, 2013, 15, 2110.	9.0	112
70	Hydrogenation of cinnamaldehyde over supported palladium catalysts. Polish Journal of Chemical Technology, 2013, 15, 28-32.	0.5	2
71	Herbicidal Ionic Liquids with 2,4-D. Weed Science, 2012, 60, 189-192.	1.5	66
72	Sweet ionic liquids-cyclamates: Synthesis, properties, and application as feeding deterrents. Science China Chemistry, 2012, 55, 1532-1541.	8.2	18

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73	Synthesis and properties of ammonium ionic liquids with cyclohexyl substituent and dissolution of cellulose. RSC Advances, 2012, 2, 8429.	3.6	29
74	2,4-D based herbicidal ionic liquids. Tetrahedron, 2012, 68, 4267-4273.	1.9	69
75	Synthesis, toxicity, biodegradability and physicochemical properties of 4-benzyl-4-methylmorpholinium-based ionic liquids. Green Chemistry, 2011, 13, 2901.	9.0	94
76	Effect of chiral ionic liquids on palladium-catalyzed Heck arylation of 2,3-dihydrofuran. Applied Catalysis A: General, 2011, 409-410, 148-155.	4.3	17
77	Ionic liquids with herbicidal anions. Tetrahedron, 2011, 67, 4838-4844.	1.9	153
78	Mandelate and prolinate ionic liquids: synthesis, characterization, catalytic and biological activity. Tetrahedron Letters, 2011, 52, 1325-1328.	1.4	58
79	Pyrylium sulfonate based ionic liquids. Tetrahedron Letters, 2011, 52, 4342-4345.	1.4	20
80	Cytotoxicity, acute and subchronic toxicity of ionic liquid, didecyldimethylammonium saccharinate, in rats. Regulatory Toxicology and Pharmacology, 2010, 57, 266-273.	2.7	45
81	3-Alkoxymethyl-1-(1R,2S,5R)-(â^')-menthoxymethylimidazolium salts-based chiral ionic liquids. Tetrahedron: Asymmetry, 2010, 21, 2709-2718.	1.8	48
82	Ionic Liquids as Vulcanization Accelerators. Industrial & Engineering Chemistry Research, 2010, 49, 5012-5017.	3.7	36
83	Multifunctional long-alkyl-chain quaternary ammonium azolate based ionic liquids. New Journal of Chemistry, 2010, 34, 2281.	2.8	41
84	Confinement of Symmetric Tetraalkylammonium Ions in Nanoporous Carbon Electrodes of Electric Double-Layer Capacitors. Journal of Physical Chemistry C, 2009, 113, 13443-13449.	3.1	49
85	Hydrosilylation of functionalised olefins catalysed by rhodium siloxide complexes in ionic liquids. Green Chemistry, 2009, 11, 1045.	9.0	42
86	Acute and subacute (28-Day) toxicity studies of ionic liquid, didecyldimethyl ammonium acesulfamate, in rats. Drug and Chemical Toxicology, 2009, 32, 395-404.	2.3	9
87	Ionic liquids with dual biological function: sweet and anti-microbial, hydrophobic quaternary ammonium-based salts. New Journal of Chemistry, 2009, 33, 26-33.	2.8	173
88	Longâ€Alkylâ€Chain Quaternary Ammonium Lactate Based Ionic Liquids. Chemistry - A European Journal, 2008, 14, 9305-9311.	3.3	62
89	Catalytic cycloisomerisation of 1,6-dienes in ionic liquids. Tetrahedron, 2008, 64, 3687-3690.	1.9	11
90	1-Alkoxymethyl-X-dimethylaminopyridinium-base ionic liquids in wood preservation. Holzforschung, 2008, 62, 309-317.	1.9	26

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91	Phase Equilibria of an Ammonium Ionic Liquid with Organic Solvents and Water. Journal of Chemical & Engineering Data, 2007, 52, 309-314.	1.9	36
92	Synthesis and properties of chiral imidazolium ionic liquids with a (1R,2S,5R)-(â˜)-menthoxymethyl substituent. New Journal of Chemistry, 2007, 31, 879-892.	2.8	78
93	The third evolution of ionic liquids: active pharmaceutical ingredients. New Journal of Chemistry, 2007, 31, 1429.	2.8	766
94	Synthesis and Properties of Trigeminal Tricationic Ionic Liquids. Chemistry - A European Journal, 2007, 13, 3106-3112.	3.3	67
95	Choline-Derivative-Based Ionic Liquids. Chemistry - A European Journal, 2007, 13, 6817-6827.	3.3	151
96	Ionic Liquids for the Production of Insecticidal and Microbicidal Extracts of the Fungus Cantharellus cibarius. Chemistry and Biodiversity, 2007, 4, 2218-2224.	2.1	17
97	Phase equilibria of didecyldimethylammonium nitrate ionic liquid with water and organic solvents. Journal of Chemical Thermodynamics, 2007, 39, 729-736.	2.0	28
98	Long alkyl chain quaternary ammonium-based ionic liquids and potential applications. Green Chemistry, 2006, 8, 798.	9.0	146
99	Protic, Imidazolium Ionic Liquids as Media for (Z)- to (E)-Alkene Isomerization. Chemistry Letters, 2006, 35, 210-211.	1.3	14
100	Chiral pyridinium-based ionic liquids containing the (1R,2S,5R)-(â˜)-menthyl group. Tetrahedron: Asymmetry, 2006, 17, 1728-1737.	1.8	35
101	Dielsâ€“Alder reaction in protic ionic liquids. Tetrahedron Letters, 2006, 47, 4079-4083.	1.4	75
102	Phosphonium Acesulfamate Based Ionic Liquids. European Journal of Organic Chemistry, 2005, 2005, 650-652.	2.4	60
103	Synthesis and Properties of Chiral Ammonium-Based Ionic Liquids. Chemistry - A European Journal, 2005, 11, 4441-4449.	3.3	139
104	Phosphonium Acesulfamate Based Ionic Liquids.. ChemInform, 2005, 36, no.	0.0	0
105	Synthesis and properties of new cationic surfactants: 1-Alkylthiomethyl-3-carbamoylpyridinium chlorides. Journal of Surfactants and Detergents, 2005, 8, 233-239.	2.1	5
106	Protic ionic liquids with organic anion as wood preservative. Holzforschung, 2005, 59, 473-475.	1.9	29
107	Ionic Liquids and Paper. Industrial & Engineering Chemistry Research, 2005, 44, 4599-4604.	3.7	37
108	Ionic liquids as an alternative to formalin in histopathological diagnosis. Acta Histochemica, 2005, 107, 149-156.	1.8	25

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109	Room-temperature phosphonium ionic liquids for supercapacitor application. Applied Physics Letters, 2005, 86, 164104.	3.3	169
110	Synthesis, anti-microbial activities and anti-electrostatic properties of phosphonium-based ionic liquids. Green Chemistry, 2005, 7, 855.	9.0	192
111	Anti-microbial activities of protic ionic liquids with lactate anion. Green Chemistry, 2004, 6, 323.	9.0	321
112	Preparation and characterization of functionalized precipitated silica SYLOIDÂ®244 using ionic liquids as modifiers. Surface and Interface Analysis, 2004, 36, 1491-1496.	1.8	12
113	Synthesis and Antimicrobial Activities of Choline-Like Quaternary Ammonium Chlorides.. ChemInform, 2004, 35, no.	0.0	0
114	Ionic Liquids with Symmetrical Dialkoxymethyl-Substituted Imidazolium Cations. Chemistry - A European Journal, 2004, 10, 3479-3485.	3.3	145
115	Suppression of deleterious effects of free silanols in liquid chromatography by imidazolium tetrafluoroborate ionic liquids. Journal of Chromatography A, 2004, 1030, 263-271.	3.7	159
116	Synthesis and Aqueous Ozonation of Some Pyridinium Salts with Alkoxymethyl and Alkylthiomethyl Hydrophobic Groups. Industrial & Engineering Chemistry Research, 2004, 43, 1966-1974.	3.7	29
117	The properties of 1-alkoxymethyl-3-hydroxypyridinium and 1-alkoxymethyl-3-dimethylaminopyridinium chlorides. Journal of Surfactants and Detergents, 2003, 6, 119-123.	2.1	46
118	Synthesis and anti-microbial activities of choline-like quaternary ammonium chlorides. European Journal of Medicinal Chemistry, 2003, 38, 1035-1042.	5.5	110
119	Ionic liquids in embalming and tissue preservation.. Acta Histochemica, 2003, 105, 135-142.	1.8	66
120	Anti-microbial activities of ionic liquids. Green Chemistry, 2003, 5, 52-56.	9.0	443
121	New Ionic Liquids and Their Antielectrostatic Properties. Industrial & Engineering Chemistry Research, 2001, 40, 2379-2383.	3.7	183
122	Synthesis and antimicrobial activities of new pyridinium and benzimidazolium chlorides. European Journal of Medicinal Chemistry, 2001, 36, 313-320.	5.5	119
123	Synthesis and anti-microbial activities of some pyridinium salts with alkoxymethyl hydrophobic group. European Journal of Medicinal Chemistry, 2001, 36, 899-907.	5.5	133
124	Synthesis and anti-microbial activities of some pyridinium salts with alkoxymethyl hydrophobic group. European Journal of Medicinal Chemistry, 2001, 36, 899-907.	5.5	20
125	Reaction of Phenolic Mannich Base with Trialkyl Phosphite. Synthetic Communications, 2000, 30, 1535-1541.	2.1	5
126	New Salts of N-Substituted Piracetam. Industrial & Engineering Chemistry Research, 2000, 39, 2761-2765.	3.7	0

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127	Influence of Counterions on the Interaction of Pyridinium Salts with Model Membranes. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1999, 54, 952-955.	1.4	7
128	New Quaternary Ammonium Chlorides - Wood Preservatives. Holzforschung, 1998, 52, 249-254.	1.9	23
129	Synthesis and Antimicrobial Activity of New 1-Benzylbenzimidazolium Chlorides. Archiv Der Pharmazie, 1997, 330, 253-258.	4.1	5
130	Synthesis and Antimicrobial Activity of New Quaternary Ammonium Chlorides. Archiv Der Pharmazie, 1996, 329, 279-282.	4.1	4
131	Quantitative Relation between Surface Active Properties and Antibiotic Activity of 1-Alkyl-3-alkylthiomethylimidazolium Chlorides.. Chemical and Pharmaceutical Bulletin, 1995, 43, 2019-2020.	1.3	9
132	Synthesis and Antibiotic Activity of 1-Cycloalkoxymethyl-4-dimethylaminopyridinium and 1-[(1-Alkoxy)ethyl]-4-dimethylaminopyridinium Chlorides. Archiv Der Pharmazie, 1995, 328, 531-533.	4.1	5
133	Synthesis ofN-[1-(Imidazol-1-yl)alkyl]amides. Synthesis, 1994, 1994, 1415-1417.	2.3	20
134	Studies on the thermal decarboxylation of 1-alkoxycarbonylbenzotriazoles. Journal of Physical Organic Chemistry, 1993, 6, 567-573.	1.9	15
135	N-[1-(Benzotriazol-1-yl)alkyl]amides, versatile amidoalkylation reagents. 5. A general and convenient route to N-(.alpha.-alkoxyalkyl)amides. Journal of Organic Chemistry, 1992, 57, 547-549.	3.2	56
136	Sulfonyl derivatives of benzotriazole: Part 1. A novel approach to the activation of carboxylic acids. Tetrahedron, 1992, 48, 7817-7822.	1.9	55
137	N-(1-benzotriazol-1-ylalkyl)amides, versatile .alpha.-amidoalkylation reagents. 1. .alpha.-Amidoalkylation of CH acids. Journal of Organic Chemistry, 1991, 56, 4439-4443.	3.2	67
138	Synthesis and Bactericidal Properties of Pyridinium Chlorides with Alkylthiomethyl and Alkoxymethyl Hydrophobic Groups. Journal of Pharmaceutical Sciences, 1991, 80, 91-95.	3.3	11
139	N-[1-(Benzotriazol-1-yl)alkyl]amides, Versatile Amidoalkylation Reagents. Part 2. Amidoalkylation of Aromatic Compounds. Synthesis, 1991, 1991, 868-870.	2.3	25
140	N-[1-(Benzotriazol-1-yl)alkyl]amides, Versatile Amidoalkylation Reagents. Part 3.1Syntheses of Open-ChainN-Protected-Hemithioaminals. Synthesis, 1991, 1991, 1147-1150.	2.3	23