Oleg V Shishkin

List of Publications by Year
in descending order

115	2,718	159585	223800
papers	citations	30 h-index	46 g-index

125	125	125	2361
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microwave-Assisted Three-Component Synthesis of 7-Aryl-2-alkylthio-4,7-dihydro-1,2,4-triazolo[1,5-a]-pyrimidine-6-carboxamides and Their Selective Reduction. ACS Combinatorial Science, 2006, 8, 427-434.	3.3	114
2	Synthesis and imido-group exchange reactions of tert-butylimidotitanium complexes. Journal of the Chemical Society Dalton Transactions, 1997, , 1549-1558.	1.1	109
3	OHâ€“Ï€ and halogenâ€“Ï€ interactions as driving forces in the crystal organisations of tri-bromo and tri-iodo trityl alcohols. CrystEngComm, 2008, 10, 715.	2.6	87
4	Electron density distribution in stacked benzene dimers: A new approach towards the estimation of stacking interaction energies. Journal of Chemical Physics, 2005, 122, 144104.	3.0	85
5	Diastereoselective enolate chemistry using atropisomeric amide. Tetrahedron Letters, 1996, 37, 7607-7610.	1.4	82
6	One-Pot, Multicomponent Route to Pyrazoloquinolizinones. Organic Letters, 2007, 9, 1691-1694.	4.6	80
7	Supramolecular architecture of crystals of fused hydrocarbons based on topology of intermolecular interactions. CrystEngComm, 2012, 14, 1795.	2.6	80
8	Cyclocondensation reactions of 5-aminopyrazoles, pyruvic acids and aldehydes. Multicomponent approaches to pyrazolopyridines and related products. Tetrahedron, 2007, 63, 1229-1242.	1.9	72
9	Role of supramolecular synthons in the formation of the supramolecular architecture of molecular crystals revisited from an energetic viewpoint. Physical Chemistry Chemical Physics, 2014, 16, 6773.	2.8	67
10	Structural nonrigidity of nucleic acid bases. Post-Hartree-Fock ab initio study. International Journal of Quantum Chemistry, 2000, 80, 1116-1124.	2.0	62
11	Intramolecular Hydrogen Bonds in Canonical 2â€˜-Deoxyribonucleotides:Â An Atoms in Molecules Study. Journal of Physical Chemistry B, 2006, 110, 4413-4422.	2.6	62
12	Multicomponent cyclocondensation reactions of aminoazoles, arylpyruvic acids and aldehydes with controlled chemoselectivity. Tetrahedron, 2008, 64, 11041-11049.	1.9	59
13	Unexpected alternative direction of a Biginelli-like multicomponent reaction with 3-amino-1,2,4-triazole as the urea component. Tetrahedron Letters, 2010, 51, 2095-2098.	1.4	50
14	Conformational Analysis of Canonical 2-Deoxyribonucleotides. 2. Purine Nucleotides. Journal of Biomolecular Structure and Dynamics, 2004, 22, 227-243.	3.5	48
15	Cyclobutane-Derived Diamines: Synthesis and Molecular Structure. Journal of Organic Chemistry, 2010, 75, 5941-5952.	3.2	48
16	Dotting the i's in three-component Biginelli-like condensations using 3-amino-1,2,4-triazole as a 1,3-binucleophile. RSC Advances, 2012, 2, 6719.	3.6	48
17	Three-Component Procedure for the Synthesis of 5-Aryl-5,8-dihydroazolo[1,5-a]pyrimidine-7-carboxylic Acids. Synthesis, 2005, 2005, 2597-2601.	2.3	46
18	Heterobinuclear Znâ€“Ln and Niâ€“Ln Complexes with Schiffâ€Base and Carbacylamidophosphate Ligands: Synthesis, Crystal Structures, and Catalytic Activity. European Journal of Inorganic Chemistry, 2014, 2014, 3720-3730.	2.0	46

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19	Conformational flexibility of pyrimidine ring in adenine and related compounds. Chemical Physics Letters, 2000, 330, 603-611.	2.6	43
20	A density functional theory study of vibrational coupling between ribose and base rings of nucleic acids with ribosyl guanosine as a model system. Journal of Chemical Physics, 2000, 113, 5986-5990.	3.0	42
21	Structural non-rigidity of six-membered aromatic rings. Journal of Molecular Structure, 2002, 616, 159-166.	3.6	42
22	Conformational Analysis of Canonical 2-Deoxyribonucleotides. 1. Pyrimidine Nucleotides. Journal of Biomolecular Structure and Dynamics, 2004, 21, 537-553.	3.5	42
23	Layered crystal structure of bicyclic aziridines as revealed by analysis of intermolecular interactions energy. CrystEngComm, 2010, 12, 1816.	2.6	39
24	Switchable selectivity in multicomponent heterocyclizations of acetoacetamides, aldehydes, and 3-amino-1,2,4-triazoles/5-aminopyrazoles. Tetrahedron, 2011, 67, 9389-9400.	1.9	39
25	Imidotitanium Tris(pyrazolyl)hydroborates:Â Synthesis, Solution Dynamics, and Solid-State Structure. Inorganic Chemistry, 1996, 35, 1006-1012.	4.0	38
26	Analysis of the crystal structure of two polymorphic modifications of 3,4-diamino-1,2,4-triazole based on the energy of the intermolecular interactions. CrystEngComm, 2010, 12, 909-916.	2.6	37
27	Columnar supramolecular architecture of crystals of 2-(4-Iodophenyl)-1,10-phenanthroline derived from values of intermolecular interaction energy. CrystEngComm, 2011, 13, 800-805.	2.6	36
28	Azatriquinanes:â€‰ Synthesis, Structure, and Reactivity. Journal of Organic Chemistry, 1998, 63, 6016-6020.	3.2	34
29	Study of the Chemoselectivity of Multicomponent Heterocyclizations Involving 3â€Aminoâ€1,2,4â€triazole and Pyruvic Acids as Key Reagents, and Biological Activity of the Reaction Products. European Journal of Organic Chemistry, 2015, 2015, 4481-4492.	2.4	33
30	Diversity oriented heterocyclizations of pyruvic acids, aldehydes and 5-amino-N-aryl-1H-pyrazole-4-carboxamides: catalytic and temperature control of chemoselectivity. Molecular Diversity, 2010, 14, 523-531.	3.9	31
31	Structure and hydrogen bonding in polyhydrated complexes of guanine. Structural Chemistry, 2008, 19, 171-180.	2.0	30
32	Novel type of mixed Oâ€“HÂ·Â·Â·N/Oâ€“HÂ·Â·Â·Ï€ hydrogen bonds: monohydrate of pyridine. Structural Chemistry, 2009, 20, 37-41.	2.0	30
33	Features of switchable multicomponent heterocyclizations of salicylic aldehydes and 5-aminopyrazoles with pyruvic acids and antimicrobial activity of the reaction products. Tetrahedron, 2013, 69, 9261-9269.	1.9	30
34	Supramolecular architecture of molecular crystals possessing shearing mechanical properties: columns versus layers. CrystEngComm, 2013, 15, 160-167.	2.6	29
35	Hydration of nucleic acid bases: a Carâ€“Parrinello molecular dynamics approach. Physical Chemistry Chemical Physics, 2010, 12, 3363.	2.8	28
36	Insights into the crystal packing of phosphorylporphyrins based on the topology of their intermolecular interaction energies. CrystEngComm, 2014, 16, 10428-10438.	2.6	28

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37	Investigation of topology of intermolecular interactions in the benzeneâ€“acetylene co-crystal by different theoretical methods. Structural Chemistry, 2014, 25, 1547-1552.	2.0	28
38	An Entry into Hexahydro-2H-thieno[2,3-c]pyrrole 1,1-Dioxide Derivatives. Journal of Organic Chemistry, 2011, 76, 7010-7016.	3.2	26
39	Low-melting molecular complexes. Halogen bonds in molecular complexes of bromoform. CrystEngComm, 2012, 14, 8222.	2.6	26
40	The Câ€“Clâ‹¯Ï€ interactions inside supramolecular nanotubes of hexaethynylhexamethoxy[6]pericyclyne. Physical Chemistry Chemical Physics, 2011, 13, 6837.	2.8	24
41	Exploiting morph-DAST mediated ring-expansion of substituted cyclic Î²-amino alcohols for the preparation of cyclic fluorinated amino acids. Synthesis of 5-fluoromethylproline and 5-fluoropipecolic acid. Tetrahedron, 2011, 67, 3091-3097.	1.9	24
42	Dalton communications. Exchange of organoimido groups at a mononuclear titanium centre and a crystallographic evaluation of the relative structural influences of the NBut, NC6H4Me-4 and NC6H4NO2-4 ligands. Journal of the Chemical Society Dalton Transactions, 1995, , 3743.	1.1	23
43	Dependence of Deformability of Geometries and Characteristics of Intramolecular Hydrogen Bonds in Canonical 2â€²-Deoxyribonucleotides on DNA Conformations. Journal of Biomolecular Structure and Dynamics, 2009, 26, 653-661.	3.5	23
44	Stable Nâ€Heterocyclic Carbenes: Nâ€Alkylâ€Nâ€²â€phosphanylbenzimidazolâ€2â€ylidenes. European Journal of Organic Chemistry, 2012, 2012, 4018-4033.	2.4	22
45	Intra- and Intermolecular Interactions in the Crystals of 3,4-Diamino-1,2,4-triazole and Its 5-Methyl Derivative. Experimental and Theoretical Investigations of Charge Density Distribution. Journal of Physical Chemistry A, 2011, 115, 8550-8562.	2.5	21
46	Influence of Deuteration and Fluorination on the Supramolecular Architecture of Pyridine Nâ€Oxide Crystals. ChemPhysChem, 2013, 14, 847-856.	2.1	21
47	Multicomponent Cyclocondensations of b-Ketosulfones with Aldehydes and Aminoazole Building Blocks. Heterocycles, 2007, 73, 469.	0.7	20
48	Synthesis of 2- and 3-trifluoromethylmorpholines: useful building blocks for drug discovery. Tetrahedron, 2013, 69, 3796-3804.	1.9	20
49	Remarkably strong polarization of amidine fragment in the crystals of 1-imino-1H-isoindol-3-amine. Structural Chemistry, 2013, 24, 1089-1097.	2.0	20
50	Role of CHF2- and CF3-Substituents on Molecular Arrangement in the Solid State: Experimental and Theoretical Crystal Structure Analysis of CH3/CHF2/CF3-Substituted Benzene. Crystal Growth and Design, 2014, 14, 3124-3130.	3.0	20
51	3-Benzyl-3-azabicyclo[3.1.1]heptan-6-one: A Promising Building Block for Medicinal Chemistry. Organic Letters, 2010, 12, 4372-4375.	4.6	19
52	Partially hydrogenated 2-amino[1,2,4]triazolo[1,5-a]pyrimidines asÂsynthons for the preparation of polycondensed heterocycles: reaction with chlorocarboxylic acid chlorides. Tetrahedron, 2014, 70, 684-701.	1.9	19
53	Dibutylphosphinoylmethyloxythiacalix[4]arenes. Synthesis, structure, americium, europium and technetium extraction. Supramolecular Chemistry, 2014, 26, 864-872.	1.2	19
54	Azatriquinane, azatriquinacene, and a remarkable dimerization product. Tetrahedron Letters, 1996, 37, 131-134.	1.4	18

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55	Reactions of 4,7â€dihydroâ€1,2,4â€triazolo[1,5â€a]pyrimidines with Î±,Î²â€unsaturated carbonyl compounds. Journal of Heterocyclic Chemistry, 2003, 40, 1081-1086.	2.6	18
56	Cyclecondensation of 3â€aminoâ€1,2,4â€triazole with substituted methyl cinnamates. Journal of Heterocyclic Chemistry, 1999, 36, 205-208.	2.6	17
57	Reactions of Nâ€arylmaleimides with 3â€aminoâ€1,2,4â€triazole and 2â€aminobenzimidazole. Journal of Heterocyclic Chemistry, 2011, 48, 888-895.	2.6	17
58	Controlled Switching of Multicomponent Heterocyclizations of 5â€Aminoâ€Nâ€arylpyrazoleâ€4â€carboxamides, 1,3â€Cyclohexanediones, and Aldehydes. European Journal of Organic Chemistry, 2012, 2012, 5515-5524.	2.8	17
59	New tricks of well-known aminoazoles in isocyanide-based multicomponent reactions and antibacterial activity of the compounds synthesized. Beilstein Journal of Organic Chemistry, 2017, 13, 1050-1063.	2.2	17
60	Opposite charges assisted extra strong Câ€“Hâ‹¯O hydrogen bond in protonated 2â€²-deoxyadenosine monophosphate. Chemical Physics Letters, 2008, 452, 198-205.	2.6	14
61	Conjugation and Hyperconjugation in Conformational Analysis of Cyclohexene Derivatives Containing an Exocyclic Double Bond. Journal of Physical Chemistry A, 2008, 112, 7080-7089.	2.5	14
62	Role of different molecular fragments in formation of the supramolecular architecture of the crystal of 1,1-dioxo-tetrahydro-1Î»6-thiopyran-3-one. CrystEngComm, 2012, 14, 8698.	2.6	14
63	A Convenient Route to 1â€Alkylâ€5â€trifluoromethylâ€1,2,3â€triazoleâ€4â€carboxylic Acids Employing a Diazo Transfer Reaction. European Journal of Organic Chemistry, 2013, 2013, 2891-2897.	2.4	14
64	Synthesis of structurally constrained 4-quinazolinone derivatives with a tetrahedral C-2 atom present in three rings. Tetrahedron, 2009, 65, 8582-8586.	1.9	13
65	The unexpected influence of aryl substituents in N-aryl-3-oxobutanamides on the behavior of their multicomponent reactions with 5-amino-3-methylisoxazole and salicylaldehyde. Beilstein Journal of Organic Chemistry, 2014, 10, 3019-3030.	2.2	13
66	Dynamical Nonplanarity of Benzene. Evidences from the Carâ€“Parrinello Molecular Dynamics Study. Journal of Physical Chemistry Letters, 2011, 2, 2881-2884.	4.6	12
67	Nucleic Acid Bases in Anionic 2â€²-Deoxyribonucleotides: A DFT/B3LYP Study of Structures, Relative Stability, and Proton Affinities. Journal of Physical Chemistry B, 2013, 117, 2841-2849.	2.6	11
68	Acceptor properties of amino groups in aminobenzene crystals: study from the energetic viewpoint. CrystEngComm, 2017, 19, 6274-6288.	2.6	11
69	Estimating stacking interaction energy using atom in molecules properties: Homodimers of benzene and pyridine. International Journal of Quantum Chemistry, 2012, 112, 3008-3017.	2.0	10
70	1-Amino-4,4-difluorocyclohexanecarboxylic acid as a promising building block for drug discovery: design, synthesis and characterization. Tetrahedron, 2013, 69, 4066-4075.	1.9	10
71	Interactions of Water with Mono- and Diamino Derivatives ofN,Nâ€˜-Dimethyluracil. Journal of Physical Chemistry A, 2002, 106, 7828-7833.	2.5	9
72	A novel synthesis and transformations of isothiochroman 2,2-dioxide. Tetrahedron Letters, 2012, 53, 4296-4299.	1.4	9

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73	Novel transformations of 1H-isothiochromen-4(3H)-one 2,2-dioxide. Monatshefte FÃ¼r Chemie, 2013, 144, 263-271.	1.8	9
74	Isotypic Transformation Principle in Molecular Crystals. Analysis of Supramolecular Architecture of Fluorinated Benzenes and Pyridines. Crystal Growth and Design, 2018, 18, 4445-4448.	3.0	9
75	Heterocyclization of 6-hydroxyimino-6,7-dihydro-1,2,4-triazolo[1,5-a]pyrimidines into 1,2,4-triazolo[1,5-a]pyrimido[5,4-b]- and -[5,6-b]indoles. Mendeleev Communications, 2006, 16, 280-282.	1.6	8
76	Molecular and crystal structure of crown ethers containing biphenyl fragment. Journal of Molecular Structure, 2007, 832, 199-208.	3.6	8
77	Intramolecular Cyclization of Nâ€Arylphosphinimidic Isocyanates â€“ Novel Approach to a 4a,8aâ€Dihydroâ€1,3,2Î»⁵â€benzodiazaphosphininâ€4(3H)â€one System. European Journal of Inorganic Chemistry, 2008, 2008, 3348-3352.	2.0	8
78	2-Substituted-Isoindoles: A Novel Synthetic Route and a Study of the Dielsâ€“Alder and Michael Reactions. Journal of Chemical Research, 2011, 35, 615-618.	1.3	8
79	Formylation of 4,7â€Dihydroâ€1,2,4â€triazolo[1,5â€a]pyrimidines Using Vilsmeierâ€“Haack Conditions. Journal of Heterocyclic Chemistry, 2012, 49, 1019-1025.	2.6	8
80	3,3â€²-Dinitrophenolsulphonephthalein: an acid-base indicator dye with unusual properties. Coloration Technology, 2017, 133, 135-144.	1.5	8
81	Influence of substituents on the acceptor properties of the amino groups in the diaminobenzene analogues. CrystEngComm, 2017, 19, 7162-7176.	2.6	8
82	An alternative approach to the synthesis of 5H-chromeno[4,3-b]pyridin-5-one system using the cleavage of 5H,9H-pyrano[2',3':5,6]chromeno[4,3-b]pyridine-5,9-diones with binucleophiles. Chemistry of Heterocyclic Compounds, 2018, 54, 96-99.	1.2	8
83	The structure of cyanine dyes of tetrazoloisoindole row. 1. Bis-(1-Methyltetrazolo[5,1-a]isoindole-5)monomethyncyanine perchlorate. Journal of Molecular Structure, 2004, 707, 193-198.	3.6	7
84	Synthesis and crystal structure determination of 2,6-di-tert-butyl-4-(2,4,6-triphenylpyridinium-1-yl)phenolate and its corresponding perchlorate salt. Dyes and Pigments, 2012, 92, 1394-1399.	3.7	7
85	Upper-rim calixarene phosphines consisting of multiple lower-rim OH functional groups: synthesis and characterisation. Supramolecular Chemistry, 2014, 26, 825-835.	1.2	7
86	Synthesis and characterization of sulfolane-based amino alcohols: A combined experimental and computational study. Journal of Molecular Structure, 2018, 1157, 149-158.	3.6	7
87	Crystal, molecular structure and tautomerism of (5-methyl-1H-[1,2,4]triazol-3-ylsulfanyl)-acetic acid. Structural Chemistry, 2008, 19, 407-412.	2.0	6
88	Rotation around the glycosidic bond as driving force of proton transfer in protonated 2â€²-deoxyriboadenosine monophosphate (dAMP). Chemical Physics Letters, 2010, 490, 221-225.	2.6	6
89	Hexakis(dimethylformamide-ÎºO)manganese(II) Î¼-oxido-bis[trichloridoferrate(III)]. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, m1563-m1564.	0.2	6
90	Reaction of 1-Ethoxyisoindole with Maleimide and Its Derivatives. Heterocycles, 2012, 85, 1671.	0.7	6

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91	Catalysis by Lithium Perchlorate Enables Double-Conjugate Addition of Electron-Deficient Maleimides to 2-Aminopyridines and 2-Aminothiazoles. Synthetic Communications, 2012, 42, 3304-3310.	2.1	5
92	Direct synthesis and properties of monomeric and dimeric MnIIIâ€“salen complexes tuned by tetrahalocadmate anions. Inorganic Chemistry Communication, 2012, 20, 282-285.	3.9	5
93	Conformational behaviour of peptides containing a 2-pyrrolidinemethanesulfonic acid (2PyMS) residue. Organic and Biomolecular Chemistry, 2013, 11, 975-983.	2.8	5
94	Entropy versus aromaticity in the conformational dynamics of aromatic rings. Journal of Molecular Modeling, 2013, 19, 4073-4077.	1.8	5
95	Conformational behavior of peptides containing residues of 3-azetidinesulfonic (3AzeS) and 4-piperidinemethanesulfonic (4PiMS) acids. Tetrahedron: Asymmetry, 2014, 25, 229-237.	1.8	5
96	Revisiting tetranitrophenolsulfonephthalein. Coloration Technology, 2015, 131, 236-244.	1.5	5
97	Reaction of 2-Hetaryl-2-(tetrahydro-2-furanyliden)acetonitriles with 1,3-N,N-Binucleophiles. Synlett, 2012, 23, 2063-2068.	1.8	4
98	Binding properties and self-assembly of C2v-symmetrical resorcin[4]arene tetrabenzoates. Tetrahedron, 2012, 68, 9429-9434.	1.9	4
99	Molecular clips based on diphenylglycoluril and benzocrown ethers: promising complexing agents for the alkali metal cations. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2014, 79, 343-348.	1.6	4
100	A Convenient Approach toN-(Di-tert-butylphosphanyl)-andN-(Di-tert-butylphosphoroselenoyl)formamidinium Salts: Carbene Precursors. European Journal of Inorganic Chemistry, 2014, 2014, 1192-1203.	2.0	4
101	Cyclic Î±-amino acids as precursors for synthesis of 2-amino-3-hetarylpyrrolin-4-ones and their spiro derivatives. Monatshefte FÃ¼r Chemie, 2012, 143, 779-789.	1.8	3
102	Environment-induced stabilization of hydrogen-bonded dimers in crystal of lysine (5-methyl-1H-[1,2,4]triazol-3ylsulfanyl)-acetate. Structural Chemistry, 2012, 23, 581-586.	2.0	3
103	Supramolecular Architecture of Substituted Tetraphenylâ€carboâ€benzenes from the Energetic Viewpoint. ChemPhysChem, 2017, 18, 2499-2508.	2.1	3
104	Functionalised Cookson's Diketones in Chlorosulfonic Acid: Towards Polysubstituted D₃-Trishomocubanes. Journal of Chemical Research, 2017, 41, 718-721.	1.3	3
105	Halogenâ€¦Ï€ interactions in the complexes of fluorenonophane with haloforms. Structural Chemistry, 2022, 33, 257-266.	2.0	3
106	Bis{Î¼2-2-[(2-hydroxyethyl)(methyl)amino]ethanolato}bis(Î¼3-N-methyl-2,2â€²-azanediyldiethanolato)tetrakis(thiocyanatato-ÎºN)dichr dimethylformamide tetrasolvate. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, m1864-m1865.	0.2	2
107	Synthesis of condensed tetrahydroimidazo[1,2-a]quinazoline-1,5-dione derivatives. Tetrahedron, 2012, 68, 3098-3102.	1.9	2
108	Complexation of thiacalix[4]arene methylphosphonic and sulphonic acids with amino acids. Supramolecular Chemistry, 2013, 25, 263-268.	1.2	2

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109	Synthesis and structural investigation of new isothiochromen-4-one 2,2-dioxide derivatives. Structural Chemistry, 2016, 27, 273-280.	2.0	2
110	Weak but strong: role of weak Câ€“HÂ·Â·Â·X (X=O, N) hydrogen bonds in organization of crystals of (1S,2S,3S,4R,5R,8S)-diethyl 2,4-dicyano-3-(furan-2-yl)-8-morpholino-6-oxobicyclo[3.2.1]octane-2,4-dicarboxylate. Structural Chemistry, 2016, 27, 315-321.	2.0	2
111	Functionalized organic frameworks explored as second order NLO agents. Journal of Chemical Sciences, 2016, 128, 297-309.	1.5	2
112	Quantum delocalization of benzene in the ring puckering coordinates. International Journal of Quantum Chemistry, 2014, 114, 534-542.	2.0	1
113	Unexpected synthesis of pyrazolone derivatives. Tetrahedron, 2015, 71, 1283-1286.	1.9	1
114	Molecular Structures, Relative Stability, and Proton Affinities of Nucleotides: Broad View and Novel Findings. Challenges and Advances in Computational Chemistry and Physics, 2014, , 137-180.	0.6	0
115	Synthesis of spiro 2-(5-amino-2,3-dihydro-3-oxopyrrol-4-yl)-1,3-dialkylbenzimidazolium chlorides. Monatshefte FÃ¼r Chemie, 2015, 146, 931-939.	1.8	0