

Anatoly K Yatsimirsky

List of Publications by Year in descending order

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201385

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docs citations

104
times ranked

3372
citing authors

#	ARTICLE	IF	CITATIONS
1	Selectivity in supramolecular host-guest complexes. <i>Chemical Society Reviews</i> , 2008, 37, 263-277.	18.7	265
2	Structure-stability correlations for imine formation in aqueous solution. <i>Journal of Physical Organic Chemistry</i> , 2005, 18, 979-985.	0.9	235
3	Kinetics and mechanism of ortho-palladation of ring-substituted NN-dimethylbenzylamines. <i>Journal of the Chemical Society Dalton Transactions</i> , 1985, , 2629.	1.1	203
4	Binding of Zn(II), Cu(II), and Fe(II) ions to alzheimer's A β peptide studied by fluorescence. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1999, 9, 2243-2248.	1.0	151
5	Detailing Hydrogen Bonding and Deprotonation Equilibria between Anions and Urea/Thiourea Derivatives. <i>Journal of Organic Chemistry</i> , 2008, 73, 2275-2284.	1.7	144
6	Metal ion catalysis in acyl and phosphoryl transfer: Transition states as ligands. <i>Coordination Chemistry Reviews</i> , 2005, 249, 1997-2011.	9.5	78
7	Phosphodiester Hydrolysis by Lanthanide Complexes of Bis-Tris Propane. <i>Inorganic Chemistry</i> , 2001, 40, 3786-3796.	1.9	75
8	Substituent Effects and pH Profiles for Stability Constants of Arylboronic Acid Diol Esters. <i>Journal of Organic Chemistry</i> , 2013, 78, 4674-4684.	1.7	75
9	Recognition of Anions and Neutral Guests by Dicationic Pyridine-2,6-dicarboxamide Receptors. <i>Journal of Organic Chemistry</i> , 2010, 75, 2259-2273.	1.7	68
10	Phosphate Ester Hydrolysis by Hydroxo Complexes of Trivalent Lanthanides Stabilized by 4-Imidazolecarboxylate. <i>Inorganic Chemistry</i> , 2006, 45, 9502-9517.	1.9	63
11	Supramolecular complexations of natural products. <i>Chemical Society Reviews</i> , 2013, 42, 6777.	18.7	52
12	Solvent Effects and Alkali Metal Ion Catalysis in Phosphodiester Hydrolysis. <i>Journal of Organic Chemistry</i> , 2006, 71, 9713-9722.	1.7	45
13	A Conformation Change in the Carboxyl Terminus of Alzheimer's A β (1-40) Accompanies the Transition from Dimer to Fibril as Revealed by Fluorescence Quenching Analysis. <i>Journal of Biological Chemistry</i> , 2000, 275, 22645-22649.	1.6	43
14	Selective fluorometric detection of pyrophosphate by interaction with alizarin red S-dimethyltin(IV) complex. <i>Chemical Communications</i> , 2011, 47, 2694.	2.2	43
15	Fluorescent anion sensing by bisquinolinium pyridine-2,6-dicarboxamide receptors in water. <i>RSC Advances</i> , 2014, 4, 455-466.	1.7	42
16	Brønsted versus Lewis Acid Type Anion Recognition by Arylboronic Acids. <i>Journal of Organic Chemistry</i> , 2015, 80, 4985-4993.	1.7	42
17	Kinetics of phosphodiester cleavage by differently generated cerium(IV) hydroxo species in neutral solutions. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 2859.	1.5	36
18	Simplified Speciation and Improved Phosphodiesterolytic Activity of Hydroxo Complexes of Trivalent Lanthanides in Aqueous DMSO. <i>Inorganic Chemistry</i> , 2008, 47, 2514-2525.	1.9	36

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19	Ester hydrolysis catalysed by ortho-palladated aryl oximes. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1992, , 1295.	0.9	34
20	Schiff base formation and recognition of amino sugars, aminoglycosides and biological polyamines by 2-formyl phenylboronic acid in aqueous solution. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 6960.	1.5	34
21	Complexation of dicarboxylates and phosphates by a semisynthetic alkaloid-based cyclophane in water. <i>Journal of Physical Organic Chemistry</i> , 2001, 14, 453-462.	0.9	33
22	Sensitive water-soluble fluorescent chemosensor for chloride based on a bisquinolinium pyridine-dicarboxamide compound. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1348-1355.	4.0	33
23	Phosphate ester hydrolysis by yttrium(iii) complexes with Bis-Tris propane and Tris ligands. <i>Dalton Transactions RSC</i> , 2001, , 2663-2670.	2.3	32
24	Mechanism of general acid-base catalysis in transesterification of an RNA model phosphodiester studied with strongly basic catalysts. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 873-880.	1.5	31
25	Palladium(II)-catalyzed oxidation of substituted benzenes to biaryls by tris(trifluoroacetato)thallium(III). <i>Tetrahedron Letters</i> , 1981, 22, 3793-3796.	0.7	30
26	Cyclodextrin enhanced fluorimetric determination of malonaldehyde by the thiobarbituric acid method. <i>Talanta</i> , 1997, 44, 951-957.	2.9	30
27	Micellar Charge Effects upon Hydrolyses of Substituted Benzoyl Chlorides. Their Relation to Mechanism. <i>Langmuir</i> , 2000, 16, 8595-8603.	1.6	29
28	Palladium(II)-catalyzed oxidative coupling of arenes by thallium(III). <i>Tetrahedron</i> , 1983, 39, 2381-2392.	1.0	28
29	Comparative study of the mechanism of alkylation of ortho-palladated benzylamines and acetanilides. <i>Journal of Organometallic Chemistry</i> , 1991, 406, 309-321.	0.8	28
30	Some complexes of palladium(II) with C-phenylglycine and its derivatives. Cyclopalladation of N,N-dimethyl-C-phenylglycine ethyl ester. <i>Inorganica Chimica Acta</i> , 1984, 91, 59-65.	1.2	27
31	Micellar Catalysis and Product Stabilization in Hydrazone Formation Reactions and Micellar-Modified Determination of Hydrazine and Phenylhydrazine. <i>Analytical Chemistry</i> , 1994, 66, 2232-2239.	3.2	27
32	Reaction paths in the cyclopalladated NN-dialkylbenzylamine-substituted styrene system in acetic acid as solvent. The structure of palladated 2-dialkylaminomethylstilbenes. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1983, , 1503-1509.	0.9	26
33	Reagentless Polyol Detection by Conductivity Increase in the Course of Self-Doping of Boronate-Substituted Polyaniline. <i>Analytical Chemistry</i> , 2014, 86, 11690-11695.	3.2	26
34	Kinetics and mechanism of vinylation of ortho-palladated NN-dialkylbenzylamines by para-substituted styrenes. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1983, , 1511.	0.9	22
35	Comparisons and Analyses of Theoretical Treatments of Micellar Effects upon Ion-Molecule Reactions. Relevance to Amide Exchange. <i>Langmuir</i> , 2000, 16, 5921-5931.	1.6	22
36	Selective fluorometric detection of pyrophosphate by 3-hydroxyflavone-diphenyltin(IV) complex in aqueous micellar medium. <i>Analyst</i> , 2012, 137, 5229.	1.7	21

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37	Kinetics and mechanism of ester hydrolysis by metal complexes of 2,6-diacetylpyridine dioxime. <i>Inorganica Chimica Acta</i> , 1998, 273, 167-174.	1.2	19
38	Contributions of electrostatic and hydrophobic interactions to the host-guest complexation of pyrocatecholate anions with cationic cyclodextrins. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1991, , 1769-1772.	0.9	18
39	Molecular imprinting of boronate functionalized polyaniline for enzyme-free selective detection of saccharides and hydroxy acids. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 428-433.	4.0	18
40	Recognition of β -amino acid derivatives by N,N ² -dibenzylated S,S-(+)-tetrandrine. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 1712-1718.	1.5	17
41	Phosphodiester cleavage by yttrium(III) peroxide complexes. <i>Inorganica Chimica Acta</i> , 2002, 328, 241-246.	1.2	16
42	Rapid hydrolysis of model phosphate diesters by alkaline-earth cations in aqueous DMSO: speciation and kinetics. <i>Dalton Transactions</i> , 2008, , 6609.	1.6	16
43	Structures of urea/thiourea 1,3-disubstituted thia[4]calixarenes and corresponding monofunctional receptors and their anion recognition properties. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2010, 68, 387-398.	1.6	16
44	Protonation of kanamycin A: Detailing of thermodynamics and protonation sites assignment. <i>Bioorganic Chemistry</i> , 2010, 38, 173-180.	2.0	16
45	Unusually high phosphodiesterolytic activity of La(III) hydroxide complexes stabilized by glycine derivatives. <i>Chemical Communications</i> , 2003, , 1968-1970.	2.2	14
46	Speciation of Eu(III) hydroxo complexes in aqueous DMSO studied by direct excitation luminescence spectroscopy and their catalytic activity in phosphodiester cleavage. <i>Dalton Transactions</i> , 2010, 39, 864-873.	1.6	14
47	Reaction of ortho-palladated dimethylbenzylamine with styrene: Unexpected salt effect. <i>Tetrahedron Letters</i> , 1980, 21, 2757-2760.	0.7	13
48	Stability of doubly and triply H-bonded complexes governed by acidity-basicity relationships. <i>Chemical Communications</i> , 2019, 55, 1556-1559.	2.2	13
49	Medium effects on the dimerization of coproporphyrin-I free base. <i>Journal of Physical Organic Chemistry</i> , 1999, 12, 377-387.	0.9	12
50	Molecular recognition by natural macrocycles. Part II. Esterolytic activity and chiral discrimination of amino acid derivatives by the zwitterionic form of (+)-tubocurarine. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999, , 353-362.	0.9	12
51	Electrophilic Assistance to the Cleavage of an RNA Model Phosphodiester via Specific and General Base-Catalyzed Mechanisms. <i>Journal of Organic Chemistry</i> , 2012, 77, 9110-9119.	1.7	12
52	Unexpected stoichiometry in the cleavage of bis(4-nitrophenyl) phosphate and 4-nitrophenyl phosphorochloridate by alkaline hydrogen peroxide. <i>Journal of Physical Organic Chemistry</i> , 2000, 13, 505-510.	0.9	11
53	Complex formation and kinetics of phosphodiester cleavage in the hydrogen peroxide-lanthanide(III) system. <i>Inorganica Chimica Acta</i> , 2003, 351, 97-106.	1.2	11
54	Formation and phosphodiesterolytic activity of lanthanide(III) N,N-bis(2-hydroxyethyl)glycine hydroxo complexes. <i>Inorganica Chimica Acta</i> , 2004, 357, 3483-3492.	1.2	11

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55	Nucleotide recognition by protonated aminoglycosides. <i>Supramolecular Chemistry</i> , 2010, 22, 212-220.	1.5	11
56	Kinetics of Amide and Peptide Cleavage by Alkaline Hydrogen Peroxide. <i>Organic Letters</i> , 2003, 5, 4831-4834.	2.4	10
57	Novel Reagentless Label-Free Detection Principle for Affinity Interactions Resulted in Conductivity Increase of Conducting Polymer. <i>Electroanalysis</i> , 2015, 27, 2055-2062.	1.5	10
58	Tuning electropolymerization of boronate-substituted anilines: Fluoride-free synthesis of the advanced affinity transducer. <i>Electrochemistry Communications</i> , 2015, 51, 121-124.	2.3	10
59	Colorimetric and Fluorescent Determination of Fluoride Using a Novel Naphthalene Diimide Boronic Acid Derivative. <i>Analytical Letters</i> , 2016, 49, 2301-2311.	1.0	10
60	Metal-catalyzed hydroxylaminolysis of unactivated amide and peptide bonds. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 866-872.	1.5	9
61	Anion and sugar recognition by 2,6-pyridinedicarboxamide bis-boronic acid derivatives. <i>Heterocyclic Communications</i> , 2017, 23, 171-180.	0.6	9
62	Spectrophotometric, fluorimetric and electrochemical selective pyrophosphate/ATP sensing based on the dimethyltin(IV)-tiron system. <i>Analytica Chimica Acta</i> , 2019, 1057, 51-59.	2.6	9
63	Anion recognition by anthracene appended <i>ortho</i> -aminomethylphenylboronic acid: a new PET-based sensing mechanism. <i>New Journal of Chemistry</i> , 2021, 45, 15618-15628.	1.4	9
64	Host-guest chemistry of alkaloids. <i>Natural Product Communications</i> , 2012, 7, 369-80.	0.2	9
65	Palladium(II)-catalysed H/D allylic exchange in alkenes: An intermediacy of palladium(IV)? <i>Applied Organometallic Chemistry</i> , 1988, 2, 101-107.	1.7	8
66	Phosphodiesterolytic activity of alkaline-earth cations in aqueous DMSO. <i>Chemical Communications</i> , 2004, , 1228-1229.	2.2	8
67	Oximate metal complexes breaking the limiting esterolytic reactivity of oximate anions. <i>Chemical Communications</i> , 2013, 49, 7717.	2.2	8
68	Thermodynamic and structural study of complexation of phenylboronic acid with salicylhydroxamic acid and related ligands. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4405.	1.7	8
69	Anion recognition by Thiostrepton. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 651-654.	1.0	7
70	Acid-base and coordination properties of 2-phenyl-3-hydroxy-4-quinolones in aqueous media. <i>RSC Advances</i> , 2015, 5, 62116-62127.	1.7	7
71	Phosphodiester cleavage by trivalent lanthanides in the presence of native cyclodextrins. <i>Inorganica Chimica Acta</i> , 2016, 440, 9-15.	1.2	7
72	Strong Zn ²⁺ and Co ²⁺ catalysis of the methanolysis of acetyl imidazole and acetyl pyrazole. <i>Canadian Journal of Chemistry</i> , 1999, 77, 1005-1008.	0.6	7

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73	Different behaviour of lithium chloride towards some cyclopalladated complexes of N,N-dimethylbenzylamine in acetic acid. <i>Inorganica Chimica Acta</i> , 1981, 54, L195-L197.	1.2	6
74	Interaction of lithium chloride with dimeric chloro-bridged cyclopalladated complexes of N,N-dimethyl-benzylamines in acetic acid. A correction. <i>Inorganica Chimica Acta</i> , 1986, 116, L55.	1.2	6
75	Boric acid effect on the hydrolysis of 4-nitrophenyl 2,3-dihydroxybenzoate: mimic of borate inhibition of serine proteases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1993, 3, 635-638.	1.0	6
76	Binding of ureas and amides to a Cu(II) terpyridine complex in methanol. <i>Inorganica Chimica Acta</i> , 2010, 363, 270-274.	1.2	6
77	Anion exchange in trimethyl- and triphenyltin complexes with chromogenic ligands: solution equilibria and colorimetric anion sensing. <i>Applied Organometallic Chemistry</i> , 2011, 25, 356-365.	1.7	6
78	Fluorescence ratiometric sensing of polyols by phenylboronic acid complexes with ligands exhibiting excited-state intramolecular proton transfer in aqueous micellar media. <i>Journal of Luminescence</i> , 2016, 179, 393-401.	1.5	6
79	Examination of pinanediol boronic acid ester formation in aqueous media: relevance to the relative stability of trigonal and tetrahedral boronate esters. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 2716-2726.	1.5	6
80	Binding of organic anions to a macrocyclic alkaloid d-tubocurarine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1995, 5, 2993-2998.	1.0	5
81	Alizarin complexone lanthanide(III) fluoride system: Revised speciation and the origin of the analytical signal. <i>Inorganica Chimica Acta</i> , 2011, 373, 226-232.	1.2	5
82	Substrate Specificity and Leaving Group Effect in Ester Cleavage by Metal Complexes of an Oximate Nucleophile. <i>Inorganic Chemistry</i> , 2017, 56, 2060-2069.	1.9	5
83	Recent Advances in Application of Azobenzenes Grafted on Mesoporous Silica Nanoparticles in Controlled Drug Delivery Systems Using Light as External Stimulus. <i>Mini-Reviews in Medicinal Chemistry</i> , 2020, 20, 1001-1016.	1.1	5
84	Role of peroxophosphate intermediates in reactions of tris(4-nitrophenyl) phosphate and phenyl phosphoro-chloridate with alkaline hydrogen peroxide. <i>Journal of Physical Organic Chemistry</i> , 2001, 14, 310-314.	0.9	4
85	Recognition of protonated aliphatic β,β -diamines by coproporphyrin I tetraanion in water. <i>Journal of Physical Organic Chemistry</i> , 2002, 15, 83-93.	0.9	4
86	Affinity and enantioselectivity of Rifamycin SV towards low molecular weight compounds. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2009, 63, 347-354.	1.6	4
87	Host-Guest Chemistry of Alkaloids. <i>Natural Product Communications</i> , 2012, 7, 1934578X1200700.	0.2	4
88	Self-assembly and recognition properties of a tetraanionic macrocyclic boronate ester in aqueous medium. <i>RSC Advances</i> , 2015, 5, 30075-30083.	1.7	4
89	Cyclodextrin catalysis of the Smiles rearrangement of 4-nitrophenyl salicylate. <i>Reaction Kinetics and Catalysis Letters</i> , 1997, 62, 63-69.	0.6	3
90	Esterolytic activity of metal complexes of 2,6-diacetylpyridine diaxime. <i>Polyhedron</i> , 1997, 16, 877.	1.0	3

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91	Mechanistic study of carboxylic acid and phosphate ester cleavage by oximate metal complexes surpassing the limiting reactivity of highly basic free oximate anions. Dalton Transactions, 2020, 49, 2452-2467.	1.6	3
92	Boronic acid complexes with amino phenolic N,O-ligands and their use for non-covalent protein fluorescence labeling. Bioorganic Chemistry, 2021, 113, 104993.	2.0	3
93	Structures, solvatochromism, protonation and photoswitching of tetra-(<i>ortho</i>)substituted azobenzenes bearing 3,5-dimethoxy groups. New Journal of Chemistry, 2022, 46, 5996-6008.	1.4	3
94	Recognition of nitrate by the ammonium derivative of a 20-membered dioxadiazacalix[4]arene analog – solution and solid-state study of the anion binding properties. Tetrahedron, 2015, 71, 1232-1240.	1.0	2
95	Anion Recognition by Benzoxaborole. Journal of Organic Chemistry, 2022, 87, 7734-7746.	1.7	2
96	Kinetics of assembly of $[Fe_n S_n (SPh)_4]^{2-}$ ($n=2$ or 4) in aqueous micellar media from $[Fe(SPh)_4]^-$. Transition Metal Chemistry, 1987, 12, 87-88.	0.7	1
97	Kinetics of the axial ligation of aquocobaloximes in the presence of cetyltrimethylammonium acetate micelles. Journal of the Chemical Society Faraday Transactions I, 1986, 82, 319.	1.0	0
98	Composition, stability and fluorescence properties of metal complexes of an aza-flavonol analog 1-methyl-2-phenyl-3-hydroxy-4(1H)-quinolone in aqueous solution. Inorganica Chimica Acta, 2020, 505, 119471.	1.2	0