Oleg A Filippov

List of Publications by Citations

111 papers	1,663 citations	22 h-index	32 g-index
120 ext. papers	1,867 ext. citations	5 avg, IF	4.74 L-index

#	Paper	IF	Citations
111	Hydrogen and Dihydrogen Bonds in the Reactions of Metal Hydrides. *Chemical Reviews*, **2016**, 116, 8545-87	55.1	147
110	Ring-Opening Metathesis Polymerization (ROMP) in Ionic Liquids: Scope and Limitations. *Macromolecules*, **2006**, 39, 7821-7830	5.5	80
109	A heterometallic (Fe6Na8) cage-like silsesquioxane: synthesis, structure, spin glass behavior and high catalytic activity. *RSC Advances*, **2016**, 6, 48165-48180	3.7	48
108	Proton-transfer and H2-elimination reactions of main-group hydrides EH4- (E = B, Al, Ga) with alcohols. *Inorganic Chemistry*, **2006**, 45, 3086-96	5.1	45
107	Acid-base interaction between transition-metal hydrides: dihydrogen bonding and dihydrogen evolution. *Angewandte Chemie - International Edition*, **2011**, 50, 1367-70	16.4	42
106	Phosphine-NHC Manganese Hydrogenation Catalyst Exhibiting a Non-Classical Metal-Ligand Cooperative H Activation Mode. *Angewandte Chemie - International Edition*, **2019**, 58, 6727-6731	16.4	40
105	Ligand-metal cooperating PC(sp3)P pincer complexes as catalysts in olefin hydroformylation. *Chemistry - A European Journal*, **2013**, 19, 16906-9	4.8	33
104	Neutral transition metal hydrides as acids in hydrogen bonding and proton transfer: media polarity and specific solvation effects. *Journal of the American Chemical Society*, **2010**, 132, 11234-46	16.4	33
103	Peculiarities of the complexation of copper and silver adducts of a 3,5-bis(trifluoromethyl)pyrazolate ligand with organoiron compounds. *Inorganic Chemistry*, **2011**, 50, 3325-31	5.1	32
102	Macrocyclic copper(I) and silver(I) pyrazolates: Principles of supramolecular assemblies with Lewis bases. *Inorganica Chimica Acta*, **2018**, 470, 22-35	2.7	31
101	Conformational Flexibility of Dibenzobarrelene-Based PC(sp3)P Pincer Iridium Hydride Complexes: The Role of Hemilabile Functional Groups and External Coordinating Solvents. *Organometallics*, **2014**, 33, 5964-5973	3.8	31
100	Mechanism of Dimethylamine□Borane Dehydrogenation Catalyzed by an Iridium(III) PCP-Pincer Complex. *ACS Catalysis*, **2017**, 7, 2325-2333	13.1	28
99	Dimerization mechanism of bis(triphenylphosphine)copper(I) tetrahydroborate: proton transfer via a dihydrogen bond. *Inorganic Chemistry*, **2012**, 51, 6486-97	5.1	28
98	Solvent-dependent dihydrogen/dihydride stability for [Mo(CO)(Cp*)H(2)(PMe(3))(2)](+)[BF(4)](-) determined by multiple solvent...anion...cation non-covalent interactions. *Chemistry - A European Journal*, **2010**, 16, 189-201	4.8	28
97	Ammonia Borane Dehydrogenation Catalyzed by (□EP)Co(H) [EP = E(CHCHPPh); E = N, P] and H Evolution from Their Interaction with NH Acids. *Inorganic Chemistry*, **2017**, 56, 4296-4307	5.1	26
96	Chemistry of boron hydrides orchestrated by dihydrogen bonds. *Journal of Organometallic Chemistry*, **2013**, 747, 30-42	2.3	26
95	Molecular conductors with a 8-hydroxy cobalt bis(dicarbollide) anion. *Inorganic Chemistry*, **2011**, 50, 444-50	5.1	26

94	Amine Boranes Dehydrogenation Mediated by an Unsymmetrical Iridium Pincer Hydride: (PCN) vs (PCP) Improved Catalytic Performance. *Organometallics*, **2018**, 37, 3142-3153	3.8	25
93	Methylsulfanyl-Stabilized Rotamers of Cobalt Bis(dicarbollide). *European Journal of Inorganic Chemistry*, **2017**, 2017, 4444-4451	2.3	24
92	Supramolecular Design of the Trinuclear Silver(I) and Copper(I) Metal Pyrazolates Complexes with Ruthenium Sandwich Compounds via Intermolecular Metall Interactions. *Crystal Growth and Design*, **2017**, 17, 6770-6779	3.5	23
91	Luminescent Complexes of the Trinuclear Silver(I) and Copper(I) Pyrazolates Supported with Bis(diphenylphosphino)methane. *Inorganic Chemistry*, **2019**, 58, 8645-8656	5.1	22
90	Synthesis, structures and luminescence of multinuclear silver(i) pyrazolate adducts with 1,10-phenanthroline derivatives. *Dalton Transactions*, **2019**, 48, 8410-8417	4.3	22
89	Dihydrogen bond intermediated alcoholysis of dimethylamine-borane in nonaqueous media. *Journal of Physical Chemistry A*, **2015**, 119, 3853-68	2.8	22
88	Umpolung of methylenephosphonium ions in their manganese half-sandwich complexes and application to the synthesis of chiral phosphorus-containing ligand scaffolds. *Angewandte Chemie - International Edition*, **2015**, 54, 6315-9	16.4	22
87	Complexes of Trinuclear Macrocyclic Copper(I) and Silver(I) 3,5-Bis(Trifluoromethyl)Pyrazolates with Ketones. *European Journal of Inorganic Chemistry*, **2012**, 2012, 5554-5561	2.3	22
86	Proton-transfer and H2-elimination reactions of trimethylamine alane: role of dihydrogen bonding and Lewis acid-base interactions. *Inorganic Chemistry*, **2009**, 48, 3667-78	5.1	22
85	Dihydrogen bonding in complex (PP3)RuH((1)-BH4) featuring two proton-accepting hydride sites: experimental and theoretical studies. *Inorganic Chemistry*, **2014**, 53, 1080-90	5.1	21
84	Directionality of dihydrogen bonds: the role of transition metal atoms. *ChemPhysChem*, **2012**, 13, 2677-87	3.2	21
83	Intermolecular hydrogen bonding between neutral transition metal hydrides (eta(5)-C5H5)M(CO)3H (M = Mo, W) and bases. *Journal of the American Chemical Society*, **2006**, 128, 3486-7	16.4	21
82	Oxidative Coupling of Anionic Abnormal N-Heterocyclic Carbenes: Efficient Access to Janus-Type 4,4-Bis(2H-imidazol-2-ylidene)s. *Angewandte Chemie - International Edition*, **2018**, 57, 7986-7991	16.4	20
81	Remarkable Structural and Electronic Features of the Complex Formed by Trimeric Copper Pyrazolate with Pentaphosphaferrocene. *Chemistry - A European Journal*, **2015**, 21, 13176-80	4.8	20
80	Role of basic sites of substituted ferrocenes in interaction with the trinuclear 3,5-bis(trifluoromethyl)pyrazolates: thermodynamics and structure of complexes. *RSC Advances*, **2014**, 4, 8350	3.7	19
79	Hydrogen bonding and proton transfer to ruthenium hydride complex CpRuH(dppe): metal and hydride dichotomy. *Inorganic Chemistry*, **2013**, 52, 1787-97	5.1	19
78	Hydrogen bonding to carbonyl hydride complex Cp*Mo(PMe(3))(2)(CO)H and its role in proton transfer. *Dalton Transactions*, **2010**, 39, 2008-15	4.3	17
77	Application of linear model of sorption dynamics to the comparison of solid phase extraction systems of phenol. *Separation and Purification Technology*, **2003**, 33, 11-24	8.3	17

76	Hydrogen–deuterium exchange in hydride chemistry: Dihydrogen bonded complexes as key intermediates. *Computational and Theoretical Chemistry*, **2012**, 998, 129-140	2	16
75	Interaction of polyhedral boron hydride anions [B10H10]2– and [B12H12]2– with cyclic copper and silver 3,5-bis(trifluoromethyl)pyrazolate complexes. *Journal of Organometallic Chemistry*, **2009**, 694, 1704-1707	2.3	16
74	Interaction of the [GaH4]– Anion with Weak XH Acids – A Spectroscopic and Theoretical Study. *European Journal of Inorganic Chemistry*, **2004**, 2004, 3453-3461	2.3	16
73	The Role of Weak Interactions in Strong Intermolecular M–Cl Complexes of Coinage Metal Pyrazolates: Spectroscopic and DFT Study. *Journal of Physical Chemistry A*, **2016**, 120, 7030-6	2.8	15
72	Complexation of trimeric copper(i) and silver(i) 3,5-bis(trifluoromethyl)pyrazolates with amine-borane. *Russian Chemical Bulletin*, **2013**, 62, 1829-1834	1.7	15
71	Hydride donating abilities of the tetracoordinated boron hydrides. *Journal of Organometallic Chemistry*, **2018**, 865, 247-256	2.3	14
70	Z-H Bond Activation in (Di)hydrogen Bonding as a Way to Proton/Hydride Transfer and H Evolution. *Chemistry - A European Journal*, **2018**, 24, 1464-1470	4.8	14
69	Intermolecular HH vibrations of dihydrogen bonded complexes H3EH(-)...HOR in the low-frequency region: theory and IR spectra. *Journal of Physical Chemistry A*, **2008**, 112, 8198-204	2.8	14
68	Competition between non-classical and classical hydrogen bonded sites in [BH3CN]– Spectral, energetic, structural and electronic features. *Journal of Molecular Structure*, **2006**, 790, 114-121	3.4	14
67	Dynamic Preconcentration of Organic Substances on Nonpolar Adsorbents. *Journal of Analytical Chemistry*, **2003**, 58, 398-422	1.1	14
66	Dihydrogen Bonding and Proton Transfer from MH and OH Acids to Group 10 Metal Hydrides [(tBuPCP)MH] [tBuPCP = κ3-2,6-(tBu2PCH2)2C6H3; M = Ni, Pd]. *European Journal of Inorganic Chemistry*, **2016**, 2016, 1415-1424	2.3	14
65	Two pathways of proton transfer reaction to (triphos)Cu(η1-BH4) via a dihydrogen bond [triphos = 1,1,1-tris(diphenylphosphinomethyl)ethane]. *Dalton Transactions*, **2016**, 45, 9127-35	4.3	14
64	Synthesis, structures and photophysical properties of phosphorus-containing silver 3,5-bis(trifluoromethyl)pyrazolates. *Mendeleev Communications*, **2018**, 28, 387-389	1.9	14
63	Direct Access to IMesF and IMesF2 by Electrophilic Fluorination of Abnormal N-Heterocyclic Carbenes. *Organometallics*, **2019**, 38, 2330-2337	3.8	13
62	The interplay of proton accepting and hydride donor abilities in the mechanism of step-wise boron hydrides alcoholysis. *Inorganica Chimica Acta*, **2017**, 456, 113-119	2.7	13
61	Protonation of Cp*M(dppe)H Hydrides: Peculiarities of the Osmium Congener. *European Journal of Inorganic Chemistry*, **2010**, 2010, 1489-1500	2.3	13
60	Dinuclear CuI and AgI Pyrazolates Supported with Tertiary Phosphines: Synthesis, Structures, and Photophysical Properties. *European Journal of Inorganic Chemistry*, **2019**, 2019, 821-827	2.3	13
59	IR spectroscopy of hydrides and its application to hydrogen bonding and proton transfer studies. *Spectroscopic Properties of Inorganic and Organometallic Compounds*, **2012**, 1-28		12

58	Phosphine-NHC Manganese Hydrogenation Catalyst Exhibiting a Non-Classical Metal-Ligand Cooperative H2 Activation Mode. *Angewandte Chemie*, **2019**, 131, 6799-6803	3.6	11
57	PCP Pincer Iridium Chemistry Coordination of Pyridines to [(tBuPCP)IrH(Cl)]. *European Journal of Inorganic Chemistry*, **2016**, 2016, 56-63	2.3	11
56	Competition between the Hydride Ligands of Two Types in Proton Transfer to [{-P-CH3C(CH2CH2PPh2)3}RuH(-BH4)]. *European Journal of Inorganic Chemistry*, **2017**, 2017, 4673-4682	2.3	11
55	On-Line Sorption Chromatographic Determination of Phenols with Amperometric Detection. *Journal of Analytical Chemistry*, **2002**, 57, 788-793	1.1	11
54	Binuclear Copper(I) Borohydride Complex Containing Bridging Bis(diphenylphosphino) Methane Ligands: Polymorphic Structures of [(-2-dppm)2Cu2(-2-BH4)2] Dichloromethane Solvate. *Crystals*, **2017**, 7, 318	2.3	10
53	Coordination chemistry of diphenylphosphinoferrocenylthioethers on cyclooctadiene and norbornadiene rhodium(I) platforms. *Dalton Transactions*, **2012**, 41, 11849-59	4.3	10
52	Experimental (IR, Raman) and computational analysis of a series of PtBr(2) derivatives: vibrational coupling in the coordinated ethylene and Pt-Br modes. *Journal of Physical Chemistry A*, **2009**, 113, 6348-55	2.8	10
51	Dichotomous Si-H Bond Activation by Alkoxide and Alcohol in Base-Catalyzed Dehydrocoupling of Silanes. *Inorganic Chemistry*, **2020**, 59, 12240-12251	5.1	9
50	Activation of a (cyclooctadiene) rhodium(I) complex supported by a chiral ferrocenyl phosphine thioether ligand for hydrogenation catalysis: a combined parahydrogen NMR and DFT study. *Dalton Transactions*, **2013**, 42, 11720-30	4.3	8
49	Study of Proton-Deuterium Exchange in Ten-Vertex Boron Hydrides. *Collection of Czechoslovak Chemical Communications*, **2007**, 72, 1725-1739		8
48	Bis[diphenylphosphino]methane and its bridge-substituted analogues as chemically non-innocent ligands for H activation. *Chemical Communications*, **2020**, 56, 2139-2142	5.8	7
47	Synthesis, structural properties and reactivity of ruthenocene-based pincer Pd(ii) tetrahydroborate. *Dalton Transactions*, **2019**, 48, 12720-12729	4.3	7
46	Luminescent AgI Complexes with 2,2?-Bipyridine Derivatives Featuring [Ag-(CF3)2Pyrazolate]4 Units. *European Journal of Inorganic Chemistry*, **2019**, 2019, 4855-4861	2.3	7
45	Mild activation of Ir Cl bond upon the interaction of pincer iridium hydride (BuPCP)IrH(Cl) with acids and bases. *Journal of Organometallic Chemistry*, **2017**, 827, 86-95	2.3	7
44	Activation of MH bond upon the complexation of transition metal hydrides with acids and bases. *Russian Chemical Bulletin*, **2014**, 63, 2428-2433	1.7	7
43	Synthesis and Structure of Methylsulfanyl Derivatives of Nickel Bis(Dicarbollide). *Molecules*, **2019**, 24,	4.8	7
42	Trinuclear Gold Carborane Cluster as a Host Structure. *European Journal of Inorganic Chemistry*, **2019**, 2019, 18-22	2.3	7
41	Bifunctional activation of amine-boranes by the W/Pd bimetallic analogs of "frustrated Lewis pairs". *Chemical Science*, **2021**, 12, 3682-3692	9.4	7

40	Microporous polyphenylenes based on diacetylaromatic compounds. *Mendeleev Communications*, **2020**, 30, 366-368	1.9	6
39	Thermodynamic Hydricity of Small Borane Clusters and Polyhedral -Boranes. *Molecules*, **2020**, 25,	4.8	6
38	Oxidative Coupling of Anionic Abnormal N-Heterocyclic Carbenes: Efficient Access to Janus-Type 4,4?-Bis(2H-imidazol-2-ylidene)s. *Angewandte Chemie*, **2018**, 130, 8118-8123	3.6	6
37	Coordination and organometallic chemistry of relevance to the rhodium-based catalyst for ethylene hydroamination. *Inorganic Chemistry*, **2011**, 50, 12539-52	5.1	6
36	Acid–Base Interaction between Transition-Metal Hydrides: Dihydrogen Bonding and Dihydrogen Evolution. *Angewandte Chemie*, **2011**, 123, 1403-1406	3.6	6
35	Coordination chemistry of anticrowns. Complexation of cyclic trimeric perfluoro-o-phenylenemercury (o-C6F4Hg)3 with the cyanoborohydride anion [H3BCN]− and triethylamineborane Et3NBH3. *Russian Chemical Bulletin*, **2008**, 57, 2540-2547	1.7	6
34	Hydrogen bonding of the undecahydro-thiocyanato-closo-dodecaborate anion with proton donors. *Main Group Chemistry*, **2005**, 4, 97-110	0.6	6
33	The Mechanism of Halogenation of Decahydro-closo-Decaborate Dianion by Hydrogen Chloride. *Russian Journal of Inorganic Chemistry*, **2021**, 66, 1639-1648	1.5	6
32	Experimental and Theoretical Insights into the Electronic Properties of Anionic N-Heterocyclic Dicarbenes through the Rational Synthesis of Their Transition Metal Complexes. *Inorganic Chemistry*, **2021**, 60, 4015-4025	5.1	6
31	Non-covalent interactions in stoichiometric and catalytic reactions of iridium pincer complexes. *Mendeleev Communications*, **2019**, 29, 121-127	1.9	5
30	Copper(I) complex with BINAP and 3,5-dimethylpyrazole: synthesis and photoluminescent properties. *Mendeleev Communications*, **2019**, 29, 570-572	1.9	5
29	Hydrogen bonds, coordination isomerism, and catalytic dehydrogenation of alcohols with the bifunctional iridium pincer complex (^{{{left({HOC{H_2}} right)}_2}}left({P{C_{s{p^3}}}P} right))IrHCl. *Russian Chemical Bulletin*, **2015**, 64, 2806-2810	1.7	5
28	Dinuclear cage-like metalloorganosiloxane containing CrIII ions. *Russian Chemical Bulletin*, **2008**, 57, 2204–2206	1.7	5
27	Synthesis and study of -substituted methylthio derivatives of cobalt bis(dicarbollide).. *RSC Advances* , **2020**, 10, 2887-2896	3.7	5
26	The unexpected reactivity of 9-iodo-nido-carborane: from nucleophilic substitution reactions to the synthesis of tricobalt tris(dicarbollide) Na[4,4,4-(MeOCHCHO)-3,3,3-Co(O)(S)(1,2-CBH)]. *Dalton Transactions*, **2021**, 50, 2671-2688	4.3	5
25	Effect of Ligands on the Lewis Acidity of the Metal and the Binding of N-Bases to Iridium Pincer Complexes. *European Journal of Inorganic Chemistry*, **2019**, 2019, 1389-1397	2.3	4
24	Steric and Electronic Effect of Cp-Substituents on the Structure of the Ruthenocene Based Pincer Palladium Borohydrides. *Molecules*, **2020**, 25,	4.8	4
23	Comprehensive Insight into the Hydrogen Bonding of Silanes. *Chemistry - an Asian Journal*, **2018**, 13, 3084-3089	4.5	4

22	Coordinatively Labile 18-Electron Arene Ruthenium Iminophosphonamide Complexes. *Chemistry - A European Journal*, **2017**, 23, 15424-15435	4.8	4
21	Ferrocene-containing tri- and tetranuclear cyclic copper(i) and silver(i) pyrazolates. *Russian Chemical Bulletin*, **2017**, 66, 1563-1568	1.7	4
20	First Example of Hydrogen Bonding to Platinum Hydride. *Zeitschrift Fur Physikalische Chemie*, **2013**, 227, 869-880	3.1	4
19	Stereoisomerism as an Origin of Different Reactivities of Ir(III) PC(sp)P Pincer Catalysts. *Inorganic Chemistry*, **2020**, 59, 11962-11975	5.1	4
18	Dehydrogenation of amine□boranes catalyzed by a PCsp3P pincer iridium complex. *Mendeleev Communications*, **2020**, 30, 276-278	1.9	3
17	Steric and Acidity Control in Hydrogen Bonding and Proton Transfer to trans-W(N)(dppe). *Inorganic Chemistry*, **2018**, 57, 1656-1664	5.1	3
16	Weak Interactions and M□H Bond Activation **2013**, 97-109		3
15	Quantum chemical study of the template synthesis of cage-like metallasiloxanes. *Russian Chemical Bulletin*, **2014**, 63, 821-825	1.7	3
14	Dihydrogen bonding formed by (hydrido)[hydrotris(pyrazolyl)borato]ruthenium. The effect of ligands on the proton-accepting ability of ruthenium complexes. *Russian Chemical Bulletin*, **2014**, 63, 2434-2437	1.7	3
13	Selection of Conditions for the Dynamic Sorption Preconcentration of a 1,1-Dimethylhydrazine Derivative (4-Nitrobenzaldehyde N,N-Dimethylhydrazone) on Hydrophobized Silica. *Journal of Analytical Chemistry*, **2001**, 56, 1070-1076	1.1	3
12	Regioselective Isomerization of Terminal Alkenes Catalyzed by a PC(sp3)Pincer Complex with a Hemilabile Pendant Arm. *ChemCatChem*, **2020**, 12, 5959-5965	5.2	3
11	The Reaction of Hydrogen Halides with Tetrahydroborate Anion and Hexahydro--hexaborate Dianion. *Molecules*, **2021**, 26,	4.8	3
10	Heterobimetallic Silver(I) and Copper(I) pyrazolates supported with 1,1?-bis(diphenylphosphino)ferrocene. *Journal of Organometallic Chemistry*, **2021**, 942, 121813	2.3	3
9	Influence of phosphine (pincer) ligands on the transition metal hydrides reactivity. *Coordination Chemistry Reviews*, **2021**, 438, 213799	23.2	3
8	Flow Sorption Preconcentration in the Determination of Phenols by Reversed-Phase High-Performance Liquid Chromatography. *Journal of Analytical Chemistry*, **2003**, 58, 625-626	1.1	2
7	The role of weak intermolecular interactions in photophysical behavior of isocoumarins on the example of their interaction with cyclic trinuclear silver(I) pyrazolate□*Inorganica Chimica Acta*, **2022**, 121004	2.7	2
6	Amine-boranes reactions promoted by lanthanide(II) ions.. *Chemical Communications*, **2021**,	5.8	1
5	Lossen rearrangement by Rh(III)-catalyzed C-H activation/annulation of aryl hydroxamates with alkynes: access to quinolone-containing amino acid derivatives. *Organic and Biomolecular Chemistry*, **2021**, 19, 9421-9426	3.9	1

4	Dinuclear Silver(I) Nitrate Complexes with Bridging Bisphosphinomethanes: Argentophilicity and Luminescence. *Crystals*, **2020**, 10, 881	2.3	0
3	New mix-ligand copper(i) and copper(ii) pyrazolate complexes with 2,2?-bipyridine. *Mendeleev Communications*, **2021**, 31, 170-172	1.9	0
2	The Origin of the MNXN Metallacycle Flexibility in the Chelate Iminophosphonamide and Amidinate Transition Metal Complexes. *European Journal of Inorganic Chemistry*, **2018**, 2018, 5098-5107	2.3	0
1	Inside Cover: Directionality of Dihydrogen Bonds: The Role of Transition Metal Atoms (ChemPhysChem 11/2012). *ChemPhysChem*, **2012**, 13, 2618-2618	3.2	