

# Igor L Fedushkin

## List of Publications by Citations

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83

papers

2,772

citations

33

h-index

50

g-index

87

ext. papers

3,083

ext. citations

4.5

avg, IF

4.94

L-index

#	Paper	IF	Citations
83	Four-step reduction of dpp-bian with sodium metal: crystal structures of the mono-, di-, tri- and tetraanions of dpp-bian. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 3294-8	16.4	150
82	[(dpp-bian)Zn--Zn(dpp-bian)]: A zinc-zinc-bonded compound supported by radical-anionic ligands. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 4302-5	16.4	114
81	Dialane with a redox-active bis-amido ligand: unique reactivity towards alkynes. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 11264-76	4.8	101
80	Reversible addition of alkynes to gallium complex of chelating diamide ligand. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 7874-5	16.4	96
79	Oxidative addition of phenylacetylene through C-H bond cleavage to form the MgII-dpp-bian complex: molecular structure of [Mg[dpp-bian(H)](C[triplebond]CPh)(thf) <sub>2</sub> ] and its diphenylketone insertion product [Mg(dpp-bian)*-[OC(Ph) <sub>2</sub> C[triplebond]CPh](thf). <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 5223-6	16.4	92
78	Reduction of benzophenone and 9(10H)-anthracenone with the magnesium complex [(2,6-iPr <sub>2</sub> C <sub>6</sub> H <sub>3</sub> -bian)Mg(thf) <sub>3</sub> ]. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 5778-83	4.8	89
77	Addition of alkynes to a gallium bis-amido complex: imitation of transition-metal-based catalytic systems. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 255-66	4.8	87
76	Genuine redox isomerism in a rare-earth-metal complex. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 10584-7	16.4	85
75	Addition of nitriles to alkaline earth metal complexes of 1,2-bis[(phenyl)imino]acenaphthenes. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 5749-57	4.8	85
74	[(dpp-bian)Ga-Ga(dpp-bian)] and [(dpp-bian)Zn-Ga(dpp-bian)]: synthesis, molecular structures, and DFT studies of these novel bimetallic molecular compounds. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 7050-6	4.8	83
73	Divalent germanium compound with a radical-anionic ligand: molecular structures of (dpp-BIAN)*-GeCl and its hydrochloration products [(dpp-BIAN)(H) <sub>2</sub> ] <sup>*+</sup> [GeCl <sub>3</sub> ] <sup>-</sup> and [(dpp-BIAN)(H) <sub>2</sub> *+] <sub>2</sub> (Cl <sup>-</sup> ) <sub>2</sub> [GeCl <sub>3</sub> ] <sup>-</sup> (dpp-BIAN=1,2-Bis[(2,6-diisopropylphenyl)imino]acenaphthene). <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 7807-15	5.1	74
72	Redox isomerism in the lanthanide complex [(dpp-Bian)Yb(DME)(μ-Br)] <sub>2</sub> (dpp-Bian = 1,2-bis[(2,6-diisopropylphenyl)imino]acenaphthene). <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 2355-7	5.1	71
71	Magnesium(II) Complexes of the dpp-BIAN Radical-Anion: Synthesis, Molecular Structure, and Catalytic Activity in Lactide Polymerization. <i>European Journal of Inorganic Chemistry</i> , <b>2009</b> , 2009, 4995-5003	2.3	70
70	Monomeric Alkylaluminum Complexes (dpp-BIAN)AlR <sub>2</sub> (R = Me, Et, iBu) Supported by the Rigid Chelating Radical-Anionic 1,2-Bis[(2,6-diisopropylphenyl)imino]acenaphthene Ligand (dpp-BIAN). <i>Organometallics</i> , <b>2005</b> , 24, 3891-3896	3.8	69
69	Stable Germynes Derived from 1,2-Bis(arylimino)acenaphthenes. <i>Organometallics</i> , <b>2004</b> , 23, 3714-3718	3.8	69
68	Reduction of digallane [(dpp-bian)Ga-Ga(dpp-bian)] with Group 1 and 2 metals. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 7563-71	4.8	55
67	Digallane with redox-active diimine ligand: dualism of electron-transfer reactions. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 5159-70	5.1	54

66	Binuclear Zinc Complexes with Radical-Anionic Diimine Ligands. <i>Organometallics</i> , <b>2009</b> , 28, 3863-3868	3.8	54
65	Monomeric Magnesium and Calcium Complexes containing the Rigid, Dianionic 1, 2-Bis[(2, 5-di-tert-butylphenyl)imino]acenaphthene (dtb-BIAN) and 1, 2-Bis[(2-biphenyl)imino]acenaphthene (bph-BIAN) Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2004</b> , 630, 501-507	1.3	53
64	Binuclear complexes of La(III) and Eu(II) with the bridging naphthalene dianion. Synthesis and X-ray crystallographic analysis of $[\text{La}(\text{C}_{10}\text{H}_8)]_2[\text{LaI}_2(\text{THF})_3]_2$ and $[\text{Eu}(\text{C}_{10}\text{H}_8)]_2[\text{Eu}(\text{DME})_2]_2$ . <i>Journal of Organometallic Chemistry</i> , <b>1995</b> , 489, 145-151	2.3	50
63	One- and two-electron-transfer reactions of (dpp-Bian)Sm(dme) <sub>3</sub> . <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 2901-105.1	5.1	49
62	Synthesis, molecular structure and DFT study of [(dpp-bian)Ga-M(Et(2)O)(3)] (M=Li, Na; dpp-bian=1,2-bis[(2,6-diisopropylphenyl)imino]acenaphthene). <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 8465-8	4.8	46
61	Addition of Enolisable Ketones to (dpp-bian)Mg(THF) <sub>3</sub> [dpp-bian =1,2-Bis[(2,6-diisopropylphenyl)imino]acenaphthene]. <i>European Journal of Inorganic Chemistry</i> , <b>2005</b> , 2005, 2332-2338	2.3	45
60	Reductive Isopropyl Radical Elimination from (dpp-bian)Mg-iPr(Et <sub>2</sub> O). <i>European Journal of Inorganic Chemistry</i> , <b>2005</b> , 2005, 1601-1608	2.3	45
59	Reduction of Disulfides with Magnesium(II) and Gallium(II) Complexes of a Redox-Active Diimine Ligand. <i>European Journal of Inorganic Chemistry</i> , <b>2009</b> , 2009, 3742-3749	2.3	44
58	Single-Electron-Transfer Reactions of Diimine dpp-BIAN and Its Magnesium Complex (dpp-BIAN) <sub>2</sub> Mg <sup>2+</sup> (THF) <sub>3</sub> . <i>European Journal of Inorganic Chemistry</i> , <b>2006</b> , 2006, 827-832	2.3	44
57	Monoalkylaluminium Complexes Stabilized by a Rigid Dianionic Diimine Ligand: Synthesis, Solid State Structure, and Dynamic Solution Behaviour of (dpp-BIAN)AlR (R = Me, Et, iBu). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2006</b> , 632, 1471-1476	1.3	38
56	Redox-Active Ligand-Assisted Two-Electron Oxidative Addition to Gallium(II). <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 1877-1889	4.8	38
55	Sodium cation migration above the diimine pi-system of solvent coordinated dpp-BIAN sodium aluminum complexes (dpp-BIAN=1,2-bis[(2,6-diisopropylphenyl)imino]acenaphthene). <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 4216-22	4.8	37
54	Mononuclear dpp-Bian Gallium Complexes: Synthesis, Crystal Structures, and Reactivity toward Alkynes and Enones. <i>Organometallics</i> , <b>2015</b> , 34, 1498-1506	3.8	34
53	Compounds with Direct Gallium-Lanthanum and Gallium-Zinc Bonds. <i>Organometallics</i> , <b>2011</b> , 30, 3628-3636	3.8	34
52	Synthesis and ESR-characterization of radical anion complexes of lanthanum. X-ray crystal structure of the mixed bipy, bipy <sup>π</sup> complex of lanthanum(III) [LaI <sub>2</sub> (bipy)(bipy)(DME)]: evidence for an inter-ligand charge transfer. <i>Journal of Organometallic Chemistry</i> , <b>1996</b> , 524, 125-131	2.3	34
51	Four-Step Reduction of dpp-bian with Sodium Metal: Crystal Structures of the Sodium Salts of the Mono-, Di-, Tri- and Tetraanions of dpp-bian. <i>Angewandte Chemie</i> , <b>2003</b> , 115, 3416-3420	3.6	33
50	Ligand "Brackets" for Ga-Ga Bond. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 9047-56	5.1	31
49	Ytterbium and Europium Complexes of Redox-Active Ligands: Searching for Redox Isomerism. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 9825-9833	5.1	31

- 48 Synthesis and Structure of the First Lanthanide Complex with the Bridging, Antiaromatic 2,2'-Bipyridine Dianion:  $[\{Yb(\eta\text{-N}_2\text{C}_{10}\text{H}_8)(\text{thf})_2\}_3]$ . *Angewandte Chemie - International Edition*, **1999**, 38, 2262-2264 16.4 31
- 47 Addition of diphenylacetylene and methylvinylketone to aluminum complex of redox-active diimine ligand. *Journal of Organometallic Chemistry*, **2013**, 747, 235-240 2.3 30
- 46 Synthesis of Unsupported LnGa Bonds by Salt Metathesis and GaGa Bond Reduction. *Organometallics*, **2012**, 31, 4331-4339 3.8 30
- 45 Cycloaddition versus Cleavage of the C=S Bond of Isothiocyanates Promoted by Digallane Compounds with Noninnocent Diimine Ligands. *Chemistry - A European Journal*, **2018**, 24, 14994-15002 4.8 29
- 44 Acenaphthene-1,2-diimine chromium complexes. *Dalton Transactions*, **2009**, 8047-53 4.3 29
- 43 Boron complexes of redox-active diimine ligand. *Dalton Transactions*, **2013**, 42, 7952-61 4.3 28
- 42 Low valent Al(ii)-Al(ii) catalysts as highly active  $\epsilon$ -caprolactone polymerization catalysts: indication of metal cooperativity through DFT studies. *Dalton Transactions*, **2018**, 47, 13800-13808 4.3 26
- 41 Molecular Structures and NMR Studies of Lithium and Germanium(II) Complexes of a New Chelating AmidoImino Ligand Obtained by Addition of nBuLi to 1,2-Bis(arylimino)acenaphthene. *European Journal of Inorganic Chemistry*, **2006**, 2006, 3266-3273 2.3 26
- 40 Adaptive behavior of a redox-active gallium carbenoid in complexes with molybdenum. *Chemical Communications*, **2014**, 50, 10108-11 5.8 25
- 39 Lanthanum Complexes with a Diimine Ligand in Three Different Redox States. *Inorganic Chemistry*, **2018**, 57, 4301-4309 5.1 24
- 38 1,2-Bis(imino)acenaphthene complexes of molybdenum and nickel. *Dalton Transactions*, **2009**, 4689-94 4.3 24
- 37 Genuine Redox Isomerism in a Rare-Earth-Metal Complex. *Angewandte Chemie*, **2012**, 124, 10736-10739 3.6 23
- 36 Gallium "Shears" for C=N and C=O Bonds of Isocyanates. *Chemistry - A European Journal*, **2019**, 25, 8259-8267 4.7 21
- 35 Hydroarylation of Alkynes with Phenols in the Presence of Gallium Complexes of a Labile N-Ligand: Synthesis of Chromenes. *European Journal of Organic Chemistry*, **2015**, 2015, 5781-5788 3.2 21
- 34 C-O Bond Cleavage of Diethyl Ether and Tetrahydrofurane by  $[(\text{dpp-BIAN})\text{Al}(\text{Et}_2\text{O})]$  [dpp-BIAN = 1,2-bis[(2,6-di-iso-propylphenyl)-imino]acenaphthene]. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2008**, 634, 357-361 1.3 20
- 33 Oxidative Addition of Phenylacetylene through C-H Bond Cleavage To Form the MgII dpp-bian Complex: Molecular Structure of  $[\text{Mg}\{\text{dpp-bian}(\text{H})\}(\text{C}\text{?CPh})(\text{thf})_2]$  and Its Diphenylketone Insertion Product  $[\text{Mg}(\text{dpp-bian})\{\text{OC}(\text{Ph}_2)\text{C}\text{?CPh}\}(\text{thf})]$ . *Angewandte Chemie*, **2003**, 115, 5381-5384 3.6 19
- 32 Anionic and neutral bis(diimine)lanthanide complexes. *Comptes Rendus Chimie*, **2010**, 13, 584-592 2.7 17
- 31 Organometallic Compounds of the Lanthanides 182 [1]. Calcium and Neodymium Complexes Containing the dpp-BIAN Ligand System: Synthesis and Molecular Structure of  $[(\text{dpp-BIAN})\text{Ca}(\text{THF})_2]_2$  and  $[(\text{dpp-BIAN})\text{NdCl}(\text{THF})_2]_2$ . *Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences*, **2007**, 62, 1107-1111 1 17

30	Gallium Hydrides with a Radical-Anionic Ligand. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 13401-13410	5.1	13
29	Synthesis and $\epsilon$ -Caprolactone Polymerization Activity of Electron-Deficient Gallium and Aluminum Species Containing a Charged Redox-Active dpp-Bian Ligand. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 16559-16573 <sup>5.1</sup>	5.1	11
28	Electron Release and Proton Acceptance Reactions of (dpp-BIAN)Mg(THF) <sub>3</sub> . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2008</b> , 63, 161-168	1	10
27	Synthesis of lactide from alkyl lactates catalyzed by lanthanide salts. <i>Mendeleev Communications</i> , <b>2019</b> , 29, 648-650	1.9	10
26	Reversible Addition of Carbon Dioxide to Main Group Metal Complexes at Temperatures about 0 °C. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 5745-5753	4.8	8
25	Activation of Nitrogen-Rich Substrates by Low-Valent, Redox-Active Aluminum Species. <i>Organometallics</i> , <b>2021</b> , 40, 490-499	3.8	8
24	Biocompatible Non-Toxic Porous Polymeric Materials Based on Carbonate- and Phthalate-Containing Dimethacrylates. <i>ChemistrySelect</i> , <b>2019</b> , 4, 4147-4155	1.8	7
23	One-step synthesis of new aluminum hydrides bearing a highly sterically hindered acenaphthene-1,2-diimine ligand. <i>Mendeleev Communications</i> , <b>2020</b> , 30, 94-96	1.9	7
22	Transformation of carbodiimides to guanidine derivatives facilitated by gallylenes. <i>Chemical Communications</i> , <b>2020</b> , 56, 7475-7478	5.8	6
21	Reactivity of Aluminum Complexes of Redox-Active Ligand toward N-Heterocyclic Carbene and Its Thione. <i>Organometallics</i> , <b>2020</b> , 39, 66-73	3.8	6
20	Low-coordinate Sm(II) and Yb(II) complexes derived from sterically-hindered 1,2-bis(imino)acenaphthene (Ar-bian). <i>Dalton Transactions</i> , <b>2020</b> , 49, 14445-14451	4.3	6
19	Ca(ii), Yb(ii) and Tm(iii) complexes with tri- and tetra-anions of 1,2-bis[(2,6-diisopropylphenyl)imino]acenaphthene. <i>Chemical Communications</i> , <b>2018</b> , 54, 12950-12953	5.8	6
18	Titanium(IV) complexes supported by a dianionic acenaphthenediimine ligand: X-ray and spectroscopic studies of the metal coordination sphere. <i>Inorganic Chemistry Communication</i> , <b>2018</b> , 95, 50-55	3.1	5
17	One-Electron Reduction of 2-Mono(2,6-diisopropylphenylimino)acenaphthene-1-one (dpp-mian). <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 3858-3866	4.8	5
16	Activation and modification of carbon dioxide by redox-active low-valent gallium species. <i>Dalton Transactions</i> , <b>2021</b> , 50, 8899-8906	4.3	5
15	Four- and Five-Coordinate Titanium(IV) Complexes Supported by the dpp-bian Ligand in ROP of L-Lactide. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 4198-4204	2.3	4
14	One-Electron Reduction of Acenaphthene-1,2-Diimine Nickel(II) Complexes. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 2979-2987	4.5	4
13	Alkali Metal Reduction of 1,2-Bis[(2,6-dibenzhydryl-4-methylphenyl)imino]acenaphthene (ArBIG-bian) to Radical-Anion. <i>European Journal of Inorganic Chemistry</i> , <b>2021</b> , 2021, 458-463	2.3	4

12	Main-group metal complexes of diimine ligands: structure, bonding and reactivity. <i>Dalton Transactions</i> , <b>2021</b> , 50, 13634-13650	4-3	4
11	Magnesium and calcium complexes bearing mono-oxidized or monoprotated acenaphthylenebisamido ligand: Structure features and ROP activity. <i>Journal of Organometallic Chemistry</i> , <b>2020</b> , 927, 121535	2-3	3
10	In Vitro Study of Degradation Behavior, Cytotoxicity, and Cell Adhesion of the Atactic Polylactic Acid for Biomedical Purposes. <i>Journal of Polymers and the Environment</i> , <b>2020</b> , 28, 2652-2660	4-5	3
9	Porous Polymer Scaffolds based on Cross-Linked Poly-EGDMA and PLA: Manufacture, Antibiotics Encapsulation, and In Vitro Study. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2000402	5-5	3
8	Metal-Organic Frameworks Derived from Calcium and Strontium Complexes of a Redox-Active Ligand. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 3238-3248	5-1	3
7	Alkali metal reduction of 1,3,2-diazaborol and 1,3,2-diazagermol derivatives based on 1,2-bis[(2,6-diisopropylphenyl)imino]acenaphthene. <i>Dalton Transactions</i> , <b>2020</b> , 49, 2941-2946	4-3	2
6	Scandium, Yttrium & The Lanthanides: Organometallic Chemistry Based in part on the article Scandium, Yttrium & The Lanthanides: Organometallic Chemistry by R. D. K̄n, G. Kociok-K̄n, & H. Schumann which appeared in the Encyclopedia of Inorganic Chemistry, First Edition. <b>2006</b> ,		1
5	Magnesium and Calcium Complexes of ArBIG-bian and Their Reactivity towards CO <sub>2</sub> (ArBIG-bian=1,2-bis[(2,6-dibenzhydryl-4-methylphenyl)imino]acenaphthene). <i>European Journal of Inorganic Chemistry</i> , <b>2021</b> , 2021, 1890-1896	2-3	1
4	Reactivity of aluminum hydrides supported with sterically hindered acenaphthene-1,2-diimines towards CO <sub>2</sub> . <i>Journal of Organometallic Chemistry</i> , <b>2021</b> , 949, 121972	2-3	1
3	1D Coordination Polymer Derived from Redox-Active Digallane. <i>European Journal of Inorganic Chemistry</i> , <b>2021</b> , 2021, 675-680	2-3	1
2	Reactions of Iso(thio)cyanates with Dialanes: Cycloaddition, Reductive Coupling, or Cleavage of the C-S or C-O Bond. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 14602-14612	5-1	1
1	Coordination polymers derived from alkali metal complexes of redox-active ligands. <i>CrystEngComm</i> , <b>2022</b> , 24, 2297-2304	3-3	0