Igor L Fedushkin

List of Publications by Year in Descending Order

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	Coordination polymers derived from alkali metal complexes of redox-active ligands. *CrystEngComm*, **2022**, 24, 2297-2304	3.3	0
82	Reversible Addition of Carbon Dioxide to Main Group Metal Complexes at Temperatures about 0 ?C. *Chemistry - A European Journal*, **2021**, 27, 5745-5753	4.8	8
81	Porous Polymer Scaffolds based on Cross-Linked Poly-EGDMA and PLA: Manufacture, Antibiotics Encapsulation, and In Vitro Study. *Macromolecular Bioscience*, **2021**, 21, e2000402	5.5	3
80	Magnesium and Calcium Complexes of ArBIG-bian and Their Reactivity towards CO2 (ArBIG-bian=1,2-bis[(2,6-dibenzhydryl-4-methylphenyl)imino]acenaphthene). *European Journal of Inorganic Chemistry*, **2021**, 2021, 1890-1896	2.3	1
79	Reactivity of aluminum hydrides supported with sterically hindered acenaphthene-1,2-diimines towards CO2. *Journal of Organometallic Chemistry*, **2021**, 949, 121972	2.3	1
78	1D Coordination Polymer Derived from Redox-Active Digallane. *European Journal of Inorganic Chemistry*, **2021**, 2021, 675-680	2.3	1
77	Alkali Metal Reduction of 1,2-Bis[(2,6-dibenzhydryl-4-methylphenyl)imino]acenaphthene (ArBIG-bian) to Radical-Anion. *European Journal of Inorganic Chemistry*, **2021**, 2021, 458-463	2.3	4
76	Activation and modification of carbon dioxide by redox-active low-valent gallium species. *Dalton Transactions*, **2021**, 50, 8899-8906	4.3	5
75	Activation of Nitrogen-Rich Substrates by Low-Valent, Redox-Active Aluminum Species. *Organometallics*, **2021**, 40, 490-499	3.8	8
74	Metal-Organic Frameworks Derived from Calcium and Strontium Complexes of a Redox-Active Ligand. *Inorganic Chemistry*, **2021**, 60, 3238-3248	5.1	3
73	Reactions of Iso(thio)cyanates with Dialanes: Cycloaddition, Reductive Coupling, or Cleavage of the C?S or C?O Bond. *Inorganic Chemistry*, **2021**, 60, 14602-14612	5.1	1
72	Main-group metal complexes of ?diimine ligands: structure, bonding and reactivity. *Dalton Transactions*, **2021**, 50, 13634-13650	4.3	4
71	Magnesium and calcium complexes bearing mono-oxidized or monoprotonated acenaphthylenebisamido ligand: Structure features and ROP activity. *Journal of Organometallic Chemistry*, **2020**, 927, 121535	2.3	3
70	Transformation of carbodiimides to guanidine derivatives facilitated by gallylenes. *Chemical Communications*, **2020**, 56, 7475-7478	5.8	6
69	Alkali metal reduction of 1,3,2-diazaborol and 1,3,2-diazagermol derivatives based on 1,2-bis[(2,6-diisopropylphenyl)imino]acenaphthene. *Dalton Transactions*, **2020**, 49, 2941-2946	4.3	2
68	One-step synthesis of new aluminum hydrides bearing a highly sterically hindered acenaphthene-1,2-diimine ligand. *Mendeleev Communications*, **2020**, 30, 94-96	1.9	7
67	Reactivity of Aluminum Complexes of Redox-Active Ligand toward N-Heterocyclic Carbene and Its Thione. *Organometallics*, **2020**, 39, 66-73	3.8	6

66	Low-coordinate Sm(II) and Yb(II) complexes derived from sterically-hindered 1,2-bis(imino)acenaphthene (Ar-bian). *Dalton Transactions*, **2020**, 49, 14445-14451	4.3	6
65	In Vitro Study of Degradation Behavior, Cytotoxicity, and Cell Adhesion of the Atactic Polylactic Acid for Biomedical Purposes. *Journal of Polymers and the Environment*, **2020**, 28, 2652-2660	4.5	3
64	Gallium "Shears" for C=N and C=O Bonds of Isocyanates. *Chemistry - A European Journal*, **2019**, 25, 8259-8267	4.8	21
63	Biocompatible Non-Toxic Porous Polymeric Materials Based on Carbonate- and Phthalate-Containing Dimethacrylates. *ChemistrySelect*, **2019**, 4, 4147-4155	1.8	7
62	Four- and Five-Coordinate Titanium(IV) Complexes Supported by the dpp-bian Ligand in ROP of L-Lactide. *European Journal of Inorganic Chemistry*, **2019**, 2019, 4198-4204	2.3	4
61	One-Electron Reduction of Acenaphthene-1,2-Diimine Nickel(II) Complexes. *Chemistry - an Asian Journal*, **2019**, 14, 2979-2987	4.5	4
60	Synthesis and β-Caprolactone Polymerization Activity of Electron-Deficient Gallium and Aluminum Species Containing a Charged Redox-Active dpp-Bian Ligand. *Inorganic Chemistry*, **2019**, 58, 16559-16573	5.1	11
59	Synthesis of lactide from alkyl lactates catalyzed by lanthanide salts. *Mendeleev Communications*, **2019**, 29, 648-650	1.9	10
58	One-Electron Reduction of 2-Mono(2,6-diisopropylphenylimino)acenaphthene-1-one (dpp-mian). *Chemistry - A European Journal*, **2019**, 25, 3858-3866	4.8	5
57	Lanthanum Complexes with a Diimine Ligand in Three Different Redox States. *Inorganic Chemistry*, **2018**, 57, 4301-4309	5.1	24
56	Low valent Al(ii)-Al(ii) catalysts as highly active β-caprolactone polymerization catalysts: indication of metal cooperativity through DFT studies. *Dalton Transactions*, **2018**, 47, 13800-13808	4.3	26
55	Titanium(IV) complexes supported by a dianionic acenaphthenediimine ligand: X-ray and spectroscopic studies of the metal coordination sphere. *Inorganic Chemistry Communication*, **2018**, 95, 50-55	3.1	5
54	Cycloaddition versus Cleavage of the C=S Bond of Isothiocyanates Promoted by Digallane Compounds with Noninnocent α-Diimine Ligands. *Chemistry - A European Journal*, **2018**, 24, 14994-15002	4.8	29
53	Redox-Active Ligand-Assisted Two-Electron Oxidative Addition to Gallium(II). *Chemistry - A European Journal*, **2018**, 24, 1877-1889	4.8	38
52	Ca(ii), Yb(ii) and Tm(iii) complexes with tri- and tetra-anions of 1,2-bis[(2,6-diisopropylphenyl)imino]acenaphthene. *Chemical Communications*, **2018**, 54, 12950-12953	5.8	6
51	Gallium Hydrides with a Radical-Anionic Ligand. *Inorganic Chemistry*, **2017**, 56, 13401-13410	5.1	13
50	Ytterbium and Europium Complexes of Redox-Active Ligands: Searching for Redox Isomerism. *Inorganic Chemistry*, **2017**, 56, 9825-9833	5.1	31
49	Ligand "Brackets" for Ga-Ga Bond. *Inorganic Chemistry*, **2016**, 55, 9047-56	5.1	31

48	Mononuclear dpp-Bian Gallium Complexes: Synthesis, Crystal Structures, and Reactivity toward Alkynes and Enones. *Organometallics*, **2015**, 34, 1498-1506	3.8	34
47	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
46	Digallane with redox-active diimine ligand: dualism of electron-transfer reactions. *Inorganic Chemistry*, **2014**, 53, 5159-70	5.1	54
45	Adaptive behavior of a redox-active gallium carbenoid in complexes with molybdenum. *Chemical Communications*, **2014**, 50, 10108-11	5.8	25
44	Addition of diphenylacetylene and methylvinylketone to aluminum complex of redox-active diimine ligand. *Journal of Organometallic Chemistry*, **2013**, 747, 235-240	2.3	30
43	Boron complexes of redox-active diimine ligand. *Dalton Transactions*, **2013**, 42, 7952-61	4.3	28
42	Addition of alkynes to a gallium bis-amido complex: imitation of transition-metal-based catalytic systems. *Chemistry - A European Journal*, **2012**, 18, 255-66	4.8	87
41	Genuine Redox Isomerism in a Rare-Earth-Metal Complex. *Angewandte Chemie*, **2012**, 124, 10736-10739	3.6	23
40	Genuine redox isomerism in a rare-earth-metal complex. *Angewandte Chemie - International Edition*, **2012**, 51, 10584-7	16.4	85
39	Synthesis of Unsupported Ln□Ga Bonds by Salt Metathesis and Ga□Ga Bond Reduction. *Organometallics*, **2012**, 31, 4331-4339	3.8	30
38	Dialane with a redox-active bis-amido ligand: unique reactivity towards alkynes. *Chemistry - A European Journal*, **2012**, 18, 11264-76	4.8	101
37	Compounds with Direct Gallium□lanthanum and Gallium□zinc Bonds. *Organometallics*, **2011**, 30, 3628-3636	3.8	34
36	Reversible addition of alkynes to gallium complex of chelating diamide ligand. *Journal of the American Chemical Society*, **2010**, 132, 7874-5	16.4	96
35	One- and two-electron-transfer reactions of (dpp-Bian)Sm(dme)3. *Inorganic Chemistry*, **2010**, 49, 2901-10	5.1	49
34	Reduction of digallane [(dpp-bian)Ga-Ga(dpp-bian)] with Group 1 and 2 metals. *Chemistry - A European Journal*, **2010**, 16, 7563-71	4.8	55
33	Anionic and neutral bis(diimine)lanthanide complexes. *Comptes Rendus Chimie*, **2010**, 13, 584-592	2.7	17
32	Reduction of Disulfides with Magnesium(II) and Gallium(II) Complexes of a Redox-Active Diimine Ligand. *European Journal of Inorganic Chemistry*, **2009**, 2009, 3742-3749	2.3	44
31	Magnesium(II) Complexes of the dpp-BIAN Radical-Anion: Synthesis, Molecular Structure, and Catalytic Activity in Lactide Polymerization. *European Journal of Inorganic Chemistry*, **2009**, 2009, 4995-5003	2.3	70

30	1,2-Bis(imino)acenaphthene complexes of molybdenum and nickel. *Dalton Transactions*, **2009**, 4689-94	4.3	24
29	Redox isomerism in the lanthanide complex [(dpp-Bian)Yb(DME)(mu-Br)]2 (dpp-Bian = 1,2-bis[(2,6-diisopropylphenyl)imino]acenaphthene). *Inorganic Chemistry*, **2009**, 48, 2355-7	5.1	71
28	Binuclear Zinc Complexes with Radical-Anionic Diimine Ligands. *Organometallics*, **2009**, 28, 3863-3868	3.8	54
27	Acenaphthene-1,2-diimine chromium complexes. *Dalton Transactions*, **2009**, 8047-53	4.3	29
26	Electron Release and Proton Acceptance Reactions of (dpp-BIAN)Mg(THF)3. *Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences*, **2008**, 63, 161-168	1	10
25	C-O Bond Cleavage of Diethyl Ether and Tetrahydrofurane by [(dpp-BIAN)AlI(Et2O)] [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
24	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). *Chemistry - A European Journal*, **2008**, 14, 8465-8	4.8	46
23	Organometallic Compounds of the Lanthanides 182 [1]. Calcium and Neodymium Complexes Containing the dpp-BIAN Ligand System: Synthesis and Molecular Structure of [(dpp-BIAN)CaI(THF)2]2 and [(dpp-BIAN)NdCl(THF)2]2. *Zeitschrift Fur Naturforschung - Section B*	1	17
22	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). *Chemistry - A European Journal*, **2007**, 13, 4216-22	4.8	37
21	[(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. *Chemistry - A European Journal*, **2007**, 13, 7050-6	4.8	83
20	[(dpp-bian)Zn--Zn(dpp-bian)]: A zinc-zinc-bonded compound supported by radical-anionic ligands. *Angewandte Chemie - International Edition*, **2007**, 46, 4302-5	16.4	114
19	Single-Electron-Transfer Reactions of □Diimine dpp-BIAN and Its Magnesium Complex (dpp-BIAN)2□Mg2+(THF)3. *European Journal of Inorganic Chemistry*, **2006**, 2006, 827-832	2.3	44
18	Molecular Structures and NMR Studies of Lithium and Germanium(II) Complexes of a New Chelating Amido□Imino Ligand Obtained by Addition of nBuLi to 1,2-Bis(arylimino)acenaphthene. *European Journal of Inorganic Chemistry*, **2006**, 2006, 3266-3273	2.3	26
17	Scandium, Yttrium & The Lanthanides: Organometallic Chemistry Based in part on the article Scandium, Yttrium & The Lanthanides: Organometallic Chemistry by R. D. K□n, G. Kociok-K□n, & H. Schumann which appeared in the Encyclopedia of Inorganic Chemistry, First Edition. **2006**,		1
16	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). *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2006**, 632, 1471-1476	1.3	38
15	Monomeric Alkylaluminum Complexes (dpp-BIAN)AlR2 (R = Me, Et, iBu) Supported by the Rigid Chelating Radical-Anionic 1,2-Bis[(2,6-diisopropylphenyl)imino]acenaphthene Ligand (dpp-BIAN). *Organometallics*, **2005**, 24, 3891-3896	3.8	69
14	Addition of Enolisable Ketones to (dpp-bian)Mg(THF)3 [dpp-bian =1,2-Bis{(2,6-diisopropylphenyl)imino}acenaphthene]. *European Journal of Inorganic Chemistry*, **2005**, 2005, 2332-2338	2.3	45
13	Reductive Isopropyl Radical Elimination from (dpp-bian)Mg-iPr(Et2O). *European Journal of Inorganic Chemistry*, **2005**, 2005, 1601-1608	2.3	45

12	Addition of nitriles to alkaline earth metal complexes of 1,2-bis[(phenyl)imino]acenaphthenes. *Chemistry - A European Journal*, **2005**, 11, 5749-57	4.8	85
11	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. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2004**, 630, 501-507	1.3	53
10	Stable Germylenes Derived from 1,2-Bis(arylimino)acenaphthenes. *Organometallics*, **2004**, 23, 3714-3718	3.8	69
9	Divalent germanium compound with a radical-anionic ligand: molecular structures of (dpp-BIAN)*-GeCl and its hydrochloration products [(dpp-BIAN)(H)2]*+ [GeCl3]- and [[(dpp-BIAN)(H)2*+]2(Cl-)]+ [GeCl3]- (dpp-BIAN=1,2-Bis[(2,6-diisopropylphenyl)imino]acenaphthene). *Inorganic Chemistry*, **2004**, 43, 7807-15	5.1	74
8	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. *Angewandte Chemie*, **2003**, 115, 3416-3420	3.6	33
7	Oxidative Addition of Phenylacetylene through C?H Bond Cleavage To Form the MgII?dpp-bian Complex: Molecular Structure of [Mg{dpp-bian(H)}(C?CPh)(thf)2] and Its Diphenylketone Insertion Product [Mg(dpp-bian).{OC(Ph2)C?CPh}(thf)]. *Angewandte Chemie*, **2003**, 115, 5381-5384	3.6	19
6	Reduction of benzophenone and 9(10H)-anthracenone with the magnesium complex [(2,6-iPr2C6H3-bian)Mg(thf)3]. *Chemistry - A European Journal*, **2003**, 9, 5778-83	4.8	89
5	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. *Angewandte Chemie - International Edition*, **2003**, 42, 3294-8	16.4	150
4	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)2] and its diphenylketone insertion product [Mg(dpp-bian)*-[OC(Ph2)C[triplebond]CPh](thf)]. *Angewandte Chemie - International Edition*, **2003**, 42, 5223-6	16.4	92
3	Synthesis and Structure of the First Lanthanide Complex with the Bridging, Antiaromatic 2,2?-Bipyridine Dianion: [{Yb(?-N2C10H8)(thf)2}3]. *Angewandte Chemie - International Edition*, **1999**, 38, 2262-2264	16.4	31
2	Synthesis and ESR-characterization of radical anion complexes of lanthanum. X-ray crystal structure of the mixed bipy, bipy? complex of lanthanum(III) [LaI2(bipy)(bipy)(DME)]: evidence for an inter-ligand charge transfer. *Journal of Organometallic Chemistry*, **1996**, 524, 125-131	2.3	34
1	Binuclear complexes of La(III) and Eu(II) with the bridging naphthalene dianion. Synthesis and X-ray crystallographic analysis of [?-?:?-C10H8][LaI2(THF)3]2 and [?-?:?-C10H8][EuI(DME)2]2. *Journal of Organometallic Chemistry*, **1995**, 489, 145-151	2.3	50