Igor L Fedushkin

List of Publications by Year
in descending order

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82 papers	3,434 citations	94269 37 h-index	149479 56 g-index
87 all docs	87 docs citations	87 times ranked	1152 citing authors

#	Article	IF	Citations
1	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, 3294-3298.	7.2	177
2	[(dpp-bian)Znï£¿Zn(dpp-bian)]: A Zincâ€“Zinc-Bonded Compound Supported by Radical-Anionic Ligands. Angewandte Chemie - International Edition, 2007, 46, 4302-4305.	7.2	124
3	Dialane with a Redoxâ€Active Bisâ€amido Ligand: Unique Reactivity towards Alkynes. Chemistry - A European Journal, 2012, 18, 11264-11276.	1.7	119
4	Genuine Redox Isomerism in a Rareâ€Earthâ€Metal Complex. Angewandte Chemie - International Edition, 2012, 51, 10584-10587.	7.2	110
5	Reversible Addition of Alkynes to Gallium Complex of Chelating Diamide Ligand. Journal of the American Chemical Society, 2010, 132, 7874-7875.	6.6	104
6	Oxidative Addition of Phenylacetylene through Cï£¿H Bond Cleavage To Form the MgIIâ€“dpp-bian Complex: Molecular Structure of[Mg{dpp-bian(H)}(Cï£½CPh)(thf)2] and Its Diphenylketone Insertion Product[Mg(dpp-bian).â˜{OC(Ph2)Cï£½CPh}(thf)]. Angewandte Chemie - International Edition, 2003, 42, 5223-5226.	7.2	102
7	Reduction of Benzophenone and 9(10H)-Anthracenone with the Magnesium Complex[(2,6-iPr2C6H3-bian)Mg(thf)3]. Chemistry - A European Journal, 2003, 9, 5778-5783.	1.7	95
8	[(dppâ€bian)Gaï£¿Ga(dppâ€bian)] and [(dppâ€bian)Znï£¿Ga(dppâ€bian)]: Synthesis, Molecular Structures, and DFT Studies of These Novel Bimetallic Molecular Compounds. Chemistry - A European Journal, 2007, 13, 7050-7056.	1.7	94
9	Addition of Alkynes to a Gallium Bisâ€Amido Complex: Imitation of Transitionâ€Metalâ€Based Catalytic Systems. Chemistry - A European Journal, 2012, 18, 255-266.	1.7	94
10	Addition of Nitriles to Alkaline Earth Metal Complexes of 1,2-Bis[(phenyl)imino]acenaphthenes. Chemistry - A European Journal, 2005, 11, 5749-5757.	1.7	89
11	Redox Isomerism in the Lanthanide Complex [(dpp-Bian)Yb(DME)(Î¼-Br)]₂ (dpp-Bian =) Tj ETQq1 1 0.784314 rgBT /Overlo	1.9	86
12	Divalent Germanium Compound with a Radical-Anionic Ligand:Â Molecular Structures of (dpp-BIAN)â€¢-GeCl and Its Hydrochloration Products [(dpp-BIAN)(H)2]â€¢+[GeCl3]-and [{(dpp-BIAN)(H)2â€¢+}2(Cl-)]+[GeCl3]-(dpp-BIAN = 1,2-Bis{(2,6-diisopropylphenyl)imino}acenaphthene). Inorganic Chemistry, 2004, 43, 7807-7815.	1.9	81
13	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.	1.0	81
14	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.	1.1	75
15	Stable Germylenes Derived from 1,2-Bis(arylimino)acenaphthenes. Organometallics, 2004, 23, 3714-3718.	1.1	73
16	Digallane with Redox-Active Diimine Ligand: Dualism of Electron-Transfer Reactions. Inorganic Chemistry, 2014, 53, 5159-5170.	1.9	71
17	Binuclear complexes of La(III) and Eu(II) with the bridging naphthalene dianion. Synthesis and X-ray crystallographic analysis of [Î¼2-Î·4:Î·4-C10H8][LaI2(THF)3]2 and [Î¼2-Î·4:Î·4-C10H8][EuI(DME)2]2. Journal of Organometallic Chemistry, 1995, 489, 145-151.	0.8	64
18	Binuclear Zinc Complexes with Radical-Anionic Diimine Ligands. Organometallics, 2009, 28, 3863-3868.	1.1	62

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19	Reduction of Digallane [(dppâ€bian)Gaï£¿Ga(dppâ€bian)] with Group 1 and 2 Metals. Chemistry - A European Journal, 2010, 16, 7563-7571.	1.7	59
20	Monomeric Magnesium and Calcium Complexes containing the Rigid, Dianionic 1, 2-Bis[(2,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 T (bph-BIAN) Ligands. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2004, 630, 501-507.	0.6	57
21	One- and Two-Electron-Transfer Reactions of (dpp-Bian)Sm(dme)₃. Inorganic Chemistry, 2010, 49, 2901-2910.	1.9	55
22	Redoxâ€Active Ligandâ€Assisted Twoâ€Electron Oxidative Addition to Gallium(II). Chemistry - A European Journal, 2018, 24, 1877-1889.	1.7	52
23	Synthesis, Molecular Structure and DFT Study of [(dppâ€bian)Gaï£¿M(Et₂O)₃] (M=Li, Na; dppâ€bian=1,2â€bis[(2,6â€diisopropylphenyl)imino]acenaphthene). Chemistry - A European Journal, 2008, 14, 8465-8468.	1.7	49
24	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.	1.0	48
25	Reductive Isopropyl Radical Elimination from (dpp-bian)Mg-iPr(Et2O). European Journal of Inorganic Chemistry, 2005, 2005, 1601-1608.	1.0	48
26	Reduction of Disulfides with Magnesium(II) and Gallium(II) Complexes of a Redoxâ€Active Diimine Ligand. European Journal of Inorganic Chemistry, 2009, 2009, 3742-3749.	1.0	48
27	Ytterbium and Europium Complexes of Redox-Active Ligands: Searching for Redox Isomerism. Inorganic Chemistry, 2017, 56, 9825-9833.	1.9	46
28	Single-Electron-Transfer Reactions of Î±-Diimine dpp-BIAN and Its Magnesium Complex (dpp-BIAN)2â€“Mg2+(THF)3. European Journal of Inorganic Chemistry, 2006, 2006, 827-832.	1.0	44
29	Compounds with Direct Galliumâ€“Lanthanum and Galliumâ€“Zinc Bonds. Organometallics, 2011, 30, 3628-3636.	1.1	42
30	Ligand â€œBracketsâ€•for Gaâ€“Ga Bond. Inorganic Chemistry, 2016, 55, 9047-9056.	1.9	40
31	Cycloaddition versus Cleavage of the C=S Bond of Isothiocyanates Promoted by Digallane Compounds with Noninnocent Î±â€Diimine Ligands. Chemistry - A European Journal, 2018, 24, 14994-15002.	1.7	39
32	Synthesis and ESR-characterization of radical anion complexes of lanthanum. X-ray crystal structure of the mixed bipy, bipyâ¯1 complex of lanthanum(III) [LaI2(bipy)(bipy)(DME)]: evidence for an inter-ligand charge transfer. Journal of Organometallic Chemistry, 1996, 524, 125-131.	0.8	38
33	Title is missing!. Angewandte Chemie, 2003, 115, 3416-3420.	1.6	38
34	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.	0.6	38
35	Sodium Cation Migration Above the Diimine Ï€-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, 4216-4222.	1.7	38
36	Synthesis of Unsupported Lnâ€“Ga Bonds by Salt Metathesis and Gaâ€“Ga Bond Reduction. Organometallics, 2012, 31, 4331-4339.	1.1	38

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37	Mononuclear dpp-Bian Gallium Complexes: Synthesis, Crystal Structures, and Reactivity toward Alkynes and Enones. Organometallics, 2015, 34, 1498-1506.	1.1	38
38	Synthesis and Structure of the First Lanthanide Complex with the Bridging, Antiaromatic 2,2â€²-Bipyridine Dianion: [{Yb(Î¼2-N2C10H8)(thf)2}3]. Angewandte Chemie - International Edition, 1999, 38, 2262-2264.	7.2	35
39	Low valent Al(<scp>ii</scp>)â€“Al(<scp>ii</scp>) catalysts as highly active Îµ-caprolactone polymerization catalysts: indication of metal cooperativity through DFT studies. Dalton Transactions, 2018, 47, 13800-13808.	1.6	35
40	Gallium â€œShearsâ€•for C=N and C=O Bonds of Isocyanates. Chemistry - A European Journal, 2019, 25, 8259-8267.	1.7	33
41	Lanthanum Complexes with a Diimine Ligand in Three Different Redox States. Inorganic Chemistry, 2018, 57, 4301-4309.	1.9	32
42	Acenaphthene-1,2-diimine chromium complexes. Dalton Transactions, 2009, , 8047.	1.6	30
43	Addition of diphenylacetylene and methylvinylketone to aluminum complex of redox-active diimine ligand. Journal of Organometallic Chemistry, 2013, 747, 235-240.	0.8	30
44	Boron complexes of redox-active diimine ligand. Dalton Transactions, 2013, 42, 7952.	1.6	30
45	Main-group metal complexes of Î±-diimine ligands: structure, bonding and reactivity. Dalton Transactions, 2021, 50, 13634-13650.	1.6	30
46	Adaptive behavior of a redox-active gallium carbenoid in complexes with molybdenum. Chemical Communications, 2014, 50, 10108-10111.	2.2	27
47	Molecular Structures and NMR Studies of Lithium and Germanium(II) Complexes of a New Chelating Amidoâ€“Imino Ligand Obtained by Addition ofnBuLi to 1,2-Bis(arylimino)acenaphthene. European Journal of Inorganic Chemistry, 2006, 2006, 3266-3273.	1.0	26
48	1,2-Bis(imino)acenaphthene complexes of molybdenum and nickel. Dalton Transactions, 2009, , 4689.	1.6	26
49	Hydroarylation of Alkynes with Phenols in the Presence of Gallium Complexes of a Labile Nâ€Ligand: Synthesis of Chromenes. European Journal of Organic Chemistry, 2015, 2015, 5781-5788.	1.2	23
50	Synthesis and Îµ-Caprolactone Polymerization Activity of Electron-Deficient Gallium and Aluminum Species Containing a Charged Redox-Active dpp-Bian Ligand. Inorganic Chemistry, 2019, 58, 16559-16573.	1.9	23
51	Câ€O Bond Cleavage of Diethyl Ether and Tetrahydrofurane by [(dppâ€BIAN)All(Et₂O)] [dppâ€BIAN = 1,2â€bis[(2,6â€diâ€isoâ€propylphenyl)â€imino]acenaphthene]. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 357-361.	0.6	22
52	Activation of Nitrogen-Rich Substrates by Low-Valent, Redox-Active Aluminum Species. Organometallics, 2021, 40, 490-499.	1.1	22
53	Reversible Addition of Carbon Dioxide to Main Group Metal Complexes at Temperatures about 0â€‰Â°C. Chemistry - A European Journal, 2021, 27, 5745-5753.	1.7	22
54	Anionic and neutral bis(diimine)lanthanide complexes. Comptes Rendus Chimie, 2010, 13, 584-592.	0.2	20

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55	Gallium Hydrides with a Radical-Anionic Ligand. Inorganic Chemistry, 2017, 56, 13401-13410.	1.9	20
56	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 Journal of Chemical Sciences, 2007, 62, 1107-1111.	0.3	19
57	Transformation of carbodiimides to guanidine derivatives facilitated by gallylenes. Chemical Communications, 2020, 56, 7475-7478.	2.2	19
58	Activation and modification of carbon dioxide by redox-active low-valent gallium species. Dalton Transactions, 2021, 50, 8899-8906.	1.6	19
59	Reactions of Iso(thio)cyanates with Dialanes: Cycloaddition, Reductive Coupling, or Cleavage of the Câ•S or Câ•O Bond. Inorganic Chemistry, 2021, 60, 14602-14612.	1.9	16
60	Synthesis of lactide from alkyl lactates catalyzed by lanthanide salts. Mendeleev Communications, 2019, 29, 648-650.	0.6	13
61	Oneâ€Electron Reduction of 2â€Mono(2,6â€diisopropylphenylimino)acenaphtheneâ€1â€one (dppâ€mian). Chemistry - A European Journal, 2019, 25, 3858-3866.	1.7	13
62	Reduction of CO₂ with Aluminum Hydrides Supported with Ar-BIAN Radical-Anions (Ar-BIAN = 1,2-Bis(arylimino)acenaphthene). Inorganic Chemistry, 2022, 61, 206-213.	1.9	13
63	Fourâ€•and Fiveâ€Coordinate Titanium(IV) Complexes Supported by the dppâ€bian Ligand in ROP of Lâ€Lactide. European Journal of Inorganic Chemistry, 2019, 2019, 4198-4204.	1.0	12
64	Low-coordinate Sm(<scp>ii</scp>) and Yb(<scp>ii</scp>) complexes derived from sterically-hindered 1,2-bis(imino)acenaphthene (Ar^{BIG}-bian). Dalton Transactions, 2020, 49, 14445-14451.	1.6	12
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.	2.4	12
66	Metalâ€“Organic Frameworks Derived from Calcium and Strontium Complexes of a Redox-Active Ligand. Inorganic Chemistry, 2021, 60, 3238-3248.	1.9	12
67	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.	0.3	10
68	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.	1.8	10
69	Biocompatible Nonâ€Toxic Porous Polymeric Materials Based on Carbonateâ€•and Phthalateâ€Containing Dimethacrylates. ChemistrySelect, 2019, 4, 4147-4155.	0.7	10
70	One-step synthesis of new aluminum hydrides bearing a highly sterically hindered acenaphthene-1,2-diimine ligand. Mendeleev Communications, 2020, 30, 94-96.	0.6	10
71	Magnesium and Calcium Complexes of Ar BIG â€bian and Their Reactivity towards CO 2 (Ar BIG) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Chemistry, 2021, 2021, 1890-1896.	1.0	10
72	Reactivity of aluminum hydrides supported with sterically hindered acenaphthene-1,2-diimines towards CO2. Journal of Organometallic Chemistry, 2021, 949, 121972.	0.8	10

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73	Cycloaddition of isoselenocyanates to sodium and magnesium metallacycles. Dalton Transactions, 2022, 51, 4113-4121.	1.6	10
74	Ca(<scp>ii</scp>), Yb(<scp>ii</scp>) and Tm(<scp>iii</scp>) complexes with tri- and tetra-anions of 1,2-bis[(2,6-diisopropylphenyl)imino]acenaphthene. Chemical Communications, 2018, 54, 12950-12953.	2.2	9
75	Reactivity of Aluminum Complexes of Redox-Active Ligand toward N-Heterocyclic Carbene and Its Thione. Organometallics, 2020, 39, 66-73.	1.1	9
76	Alkali Metal Reduction of 1,2â€Bis[(2,6â€dibenzhydrylâ€4â€methylphenyl)imino]acenaphthene (Ar^{BIG}â€bian) to Radicalâ€Anion. European Journal of Inorganic Chemistry, 2021, 2021, 458-463.	1.0	9
77	Porous Polymer Scaffolds based on Crossâ€Linked Polyâ€EGDMA and PLA: Manufacture, Antibiotics Encapsulation, and In Vitro Study. Macromolecular Bioscience, 2021, 21, e2000402.	2.1	8
78	Oneâ€Electron Reduction of Acenaphtheneâ€1,2â€Diimine Nickel(II) Complexes. Chemistry - an Asian Journal, 2019, 14, 2979-2987.	1.7	7
79	Magnesium and calcium complexes bearing mono-oxidized or monoprotonated acenaphthylenebisamido ligand: Structure features and ROP activity. Journal of Organometallic Chemistry, 2020, 927, 121535.	0.8	6
80	1D Coordination Polymer Derived from Redoxâ€Active Digallane. European Journal of Inorganic Chemistry, 2021, 2021, 675-680.	1.0	4
81	Coordination polymers derived from alkali metal complexes of redox-active ligands. CrystEngComm, 2022, 24, 2297-2304.	1.3	4
82	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.	1.6	3