

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	Coordination polymers derived from alkali metal complexes of redox-active ligands. <i>CrystEngComm</i> , 2022, 24, 2297-2304.	1.3	4
2	Cycloaddition of isoselenocyanates to sodium and magnesium metallacycles. <i>Dalton Transactions</i> , 2022, 51, 4113-4121.	1.6	10
3	Reduction of CO ₂ with Aluminum Hydrides Supported with Ar-BIAN Radical-Anions (Ar-BIAN = 1,2-Bis(arylimino)acenaphthene). <i>Inorganic Chemistry</i> , 2022, 61, 206-213.	1.9	13
4	1D Coordination Polymer Derived from Redox-Active Digallane. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 675-680.	1.0	4
5	Alkali Metal Reduction of 1,2-Bis[(2,6-dibenzhydryl-4-methylphenyl)imino]acenaphthene (Ar ^{BIG} -bian) to Radical-Anion. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 458-463.	1.0	9
6	Activation and modification of carbon dioxide by redox-active low-valent gallium species. <i>Dalton Transactions</i> , 2021, 50, 8899-8906.	1.6	19
7	Activation of Nitrogen-Rich Substrates by Low-Valent, Redox-Active Aluminum Species. <i>Organometallics</i> , 2021, 40, 490-499.	1.1	22
8	Metal-Organic Frameworks Derived from Calcium and Strontium Complexes of a Redox-Active Ligand. <i>Inorganic Chemistry</i> , 2021, 60, 3238-3248.	1.9	12
9	Reversible Addition of Carbon Dioxide to Main Group Metal Complexes at Temperatures about 0 °C. <i>Chemistry - A European Journal</i> , 2021, 27, 5745-5753.	1.7	22
10	Porous Polymer Scaffolds based on Cross-Linked Poly(EGDMA) and PLA: Manufacture, Antibiotics Encapsulation, and In Vitro Study. <i>Macromolecular Bioscience</i> , 2021, 21, e2000402.	2.1	8
11	Magnesium and Calcium Complexes of Ar ^{BIG} -bian and Their Reactivity towards CO ₂ (Ar ^{BIG}) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i> <i>Chemistry</i> , 2021, 2021, 1890-1896.	1.0	10
12	Reactivity of aluminum hydrides supported with sterically hindered acenaphthene-1,2-diimines towards CO ₂ . <i>Journal of Organometallic Chemistry</i> , 2021, 949, 121972.	0.8	10
13	Reactions of Iso(thio)cyanates with Dialanes: Cycloaddition, Reductive Coupling, or Cleavage of the C-S or C-O Bond. <i>Inorganic Chemistry</i> , 2021, 60, 14602-14612.	1.9	16
14	Main-group metal complexes of 1,2-diimine ligands: structure, bonding and reactivity. <i>Dalton Transactions</i> , 2021, 50, 13634-13650.	1.6	30
15	Reactivity of Aluminum Complexes of Redox-Active Ligand toward N-Heterocyclic Carbene and Its Thione. <i>Organometallics</i> , 2020, 39, 66-73.	1.1	9
16	Low-coordinate Sm(II) and Yb(II) complexes derived from sterically-hindered 1,2-bis(imino)acenaphthene (Ar ^{BIG} -bian). <i>Dalton Transactions</i> , 2020, 49, 14445-14451.	1.6	12
17	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> , 2020, 28, 2652-2660.	2.4	12
18	Magnesium and calcium complexes bearing mono-oxidized or monoprotinated acenaphthylenebisamido ligand: Structure features and ROP activity. <i>Journal of Organometallic Chemistry</i> , 2020, 927, 121535.	0.8	6

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19	Transformation of carbodiimides to guanidine derivatives facilitated by gallylenes. <i>Chemical Communications</i> , 2020, 56, 7475-7478.	2.2	19
20	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> , 2020, 49, 2941-2946.	1.6	3
21	One-step synthesis of new aluminum hydrides bearing a highly sterically hindered acenaphthene-1,2-diimine ligand. <i>Mendeleev Communications</i> , 2020, 30, 94-96.	0.6	10
22	Four- and Five-Coordinate Titanium(IV) Complexes Supported by the dpp-bian Ligand in ROP of ϵ -Lactide. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 4198-4204.	1.0	12
23	One-Electron Reduction of Acenaphthene-1,2-Diimine Nickel(II) Complexes. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2979-2987.	1.7	7
24	Synthesis and μ -Caprolactone Polymerization Activity of Electron-Deficient Gallium and Aluminum Species Containing a Charged Redox-Active dpp-Bian Ligand. <i>Inorganic Chemistry</i> , 2019, 58, 16559-16573.	1.9	23
25	Gallium Shears for C=N and C=O Bonds of Isocyanates. <i>Chemistry - A European Journal</i> , 2019, 25, 8259-8267.	1.7	33
26	Biocompatible Non-Toxic Porous Polymeric Materials Based on Carbonate and Phthalate-Containing Dimethacrylates. <i>ChemistrySelect</i> , 2019, 4, 4147-4155.	0.7	10
27	Synthesis of lactide from alkyl lactates catalyzed by lanthanide salts. <i>Mendeleev Communications</i> , 2019, 29, 648-650.	0.6	13
28	One-Electron Reduction of Mono(2,6-diisopropylphenylimino)acenaphthene-1-one (dpp-bian). <i>Chemistry - A European Journal</i> , 2019, 25, 3858-3866.	1.7	13
29	Lanthanum Complexes with a Diimine Ligand in Three Different Redox States. <i>Inorganic Chemistry</i> , 2018, 57, 4301-4309.	1.9	32
30	Redox-Active Ligand-Assisted Two-Electron Oxidative Addition to Gallium(II). <i>Chemistry - A European Journal</i> , 2018, 24, 1877-1889.	1.7	52
31	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> , 2018, 54, 12950-12953.	2.2	9
32	Low valent Al(II) Al(II) catalysts as highly active μ -caprolactone polymerization catalysts: indication of metal cooperativity through DFT studies. <i>Dalton Transactions</i> , 2018, 47, 13800-13808.	1.6	35
33	Titanium(IV) complexes supported by a dianionic acenaphthenediimine ligand: X-ray and spectroscopic studies of the metal coordination sphere. <i>Inorganic Chemistry Communication</i> , 2018, 95, 50-55.	1.8	10
34	Cycloaddition versus Cleavage of the C=S Bond of Isothiocyanates Promoted by Digallane Compounds with Noninnocent π -Diimine Ligands. <i>Chemistry - A European Journal</i> , 2018, 24, 14994-15002.	1.7	39
35	Gallium Hydrides with a Radical-Anionic Ligand. <i>Inorganic Chemistry</i> , 2017, 56, 13401-13410.	1.9	20
36	Ytterbium and Europium Complexes of Redox-Active Ligands: Searching for Redox Isomerism. <i>Inorganic Chemistry</i> , 2017, 56, 9825-9833.	1.9	46

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37	Ligand σ -Brackets for Ga-Ga Bond. <i>Inorganic Chemistry</i> , 2016, 55, 9047-9056.	1.9	40
38	Hydroarylation of Alkynes with Phenols in the Presence of Gallium Complexes of a Labile N-Ligand: Synthesis of Chromenes. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 5781-5788.	1.2	23
39	Mononuclear dpp-Bian Gallium Complexes: Synthesis, Crystal Structures, and Reactivity toward Alkynes and Enones. <i>Organometallics</i> , 2015, 34, 1498-1506.	1.1	38
40	Digallane with Redox-Active Diimine Ligand: Dualism of Electron-Transfer Reactions. <i>Inorganic Chemistry</i> , 2014, 53, 5159-5170.	1.9	71
41	Adaptive behavior of a redox-active gallium carbenoid in complexes with molybdenum. <i>Chemical Communications</i> , 2014, 50, 10108-10111.	2.2	27
42	Addition of diphenylacetylene and methylvinylketone to aluminum complex of redox-active diimine ligand. <i>Journal of Organometallic Chemistry</i> , 2013, 747, 235-240.	0.8	30
43	Boron complexes of redox-active diimine ligand. <i>Dalton Transactions</i> , 2013, 42, 7952.	1.6	30
44	Genuine Redox Isomerism in a Rare-Earth-Metal Complex. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10584-10587.	7.2	110
45	Synthesis of Unsupported Ln-Ga Bonds by Salt Metathesis and Ga-Ga Bond Reduction. <i>Organometallics</i> , 2012, 31, 4331-4339.	1.1	38
46	Dialane with a Redox-Active Bis-Amido Ligand: Unique Reactivity towards Alkynes. <i>Chemistry - A European Journal</i> , 2012, 18, 11264-11276.	1.7	119
47	Addition of Alkynes to a Gallium Bis-Amido Complex: Imitation of Transition-Metal-Based Catalytic Systems. <i>Chemistry - A European Journal</i> , 2012, 18, 255-266.	1.7	94
48	Compounds with Direct Gallium-Lanthanum and Gallium-Zinc Bonds. <i>Organometallics</i> , 2011, 30, 3628-3636.	1.1	42
49	Reduction of Digallane [(dpp-Bian) $\text{Ga}\mu_2\text{Ga}(\text{dpp-Bian})$] with Group 1 and 2 Metals. <i>Chemistry - A European Journal</i> , 2010, 16, 7563-7571.	1.7	59
50	Anionic and neutral bis(diimine)lanthanide complexes. <i>Comptes Rendus Chimie</i> , 2010, 13, 584-592.	0.2	20
51	Reversible Addition of Alkynes to Gallium Complex of Chelating Diamide Ligand. <i>Journal of the American Chemical Society</i> , 2010, 132, 7874-7875.	6.6	104
52	One- and Two-Electron-Transfer Reactions of (dpp-Bian) $\text{Sm}(\text{dme})_3$. <i>Inorganic Chemistry</i> , 2010, 49, 2901-2910.	1.9	55
53	Reduction of Disulfides with Magnesium(II) and Gallium(II) Complexes of a Redox-Active Diimine Ligand. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 3742-3749.	1.0	48
54	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> , 2009, 2009, 4995-5003.	1.0	81

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55	1,2-Bis(imino)acenaphthene complexes of molybdenum and nickel. Dalton Transactions, 2009, , 4689.	1.6	26
56	Redox Isomerism in the Lanthanide Complex $[(dpp-Bian)Yb(DME)(\frac{1}{4}-Br)] \times 2$ (dpp-Bian =) Tj ETQq0 0 0 rrgBT/Overlock 10 Tf 199 86	1.9	86
57	Binuclear Zinc Complexes with Radical-Anionic Diimine Ligands. Organometallics, 2009, 28, 3863-3868.	1.1	62
58	Acenaphthene-1,2-diimine chromium complexes. Dalton Transactions, 2009, , 8047.	1.6	30
59	C-O Bond Cleavage of Diethyl Ether and Tetrahydrofurane by $[(dpp-BIAN)Al(Et)_2O]$ [dpp-BIAN = 1,2-bis[(2,6-diisopropylphenyl)imino]acenaphthene]. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 357-361.	0.6	22
60	Synthesis, Molecular Structure and DFT Study of $[(dpp-Bian)Ga]_2M(Et)_2O \times 3$ (M=Li, Na; dpp-Bian=1,2-bis[(2,6-diisopropylphenyl)imino]acenaphthene). Chemistry - A European Journal, 2008, 14, 8465-8468.	1.7	49
61	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
62	Organometallic Compounds of the Lanthanides 182 [1]. Calcium and Neodymium Complexes Containing the dpp-BIAN Ligand System: Synthesis and Molecular Structure of $[(dpp-BIAN)Ca(THF)_2] \times 2$ and $[(dpp-BIAN)NdCl(THF)_2] \times 2$. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2007, 62, 1107-1111.	0.3	19
63	Sodium Cation Migration Above the Diimine π -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
64	$[(dpp-Bian)Ga]_2Ga(dpp-Bian)$ and $[(dpp-Bian)Zn]_2Ga(dpp-Bian)$: Synthesis, Molecular Structures, and DFT Studies of These Novel Bimetallic Molecular Compounds. Chemistry - A European Journal, 2007, 13, 7050-7056.	1.7	94
65	$[(dpp-Bian)Zn]_2Zn(dpp-Bian)$: A Zinc-Zinc-Bonded Compound Supported by Radical-Anionic Ligands. Angewandte Chemie - International Edition, 2007, 46, 4302-4305.	7.2	124
66	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
67	Single-Electron-Transfer Reactions of \pm -Diimine dpp-BIAN and Its Magnesium Complex $(dpp-BIAN)_2 \times Mg^{2+}(THF)_3$. European Journal of Inorganic Chemistry, 2006, 2006, 827-832.	1.0	44
68	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.	1.0	26
69	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
70	Reductive Isopropyl Radical Elimination from $(dpp-Bian)Mg-iPr(Et_2O)$. European Journal of Inorganic Chemistry, 2005, 2005, 1601-1608.	1.0	48
71	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
72	Monomeric Alkylaluminum Complexes $(dpp-BIAN)AlR_2$ (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

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73	Monomeric Magnesium and Calcium Complexes containing the Rigid, Dianionic 1, 2-Bis[(2, 6-diisopropylphenyl)imino]acenaphthene (bph-BIAN) Ligands. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004, 630, 501-507.	0.6	57
74	Stable Germynes Derived from 1,2-Bis(arylimino)acenaphthenes. <i>Organometallics</i> , 2004, 23, 3714-3718.	1.1	73
75	Divalent Germanium Compound with a Radical-Anionic Ligand: Molecular Structures of (dpp-BIAN) ⁻ GeCl and Its Hydrochloration Products [(dpp-BIAN)(H) ₂] ⁺ [GeCl ₃] ⁻ and [(dpp-BIAN)(H) ₂] ⁺ [GeCl ₃] ⁻ (dpp-BIAN = 1,2-Bis[(2,6-diisopropylphenyl)imino]acenaphthene). <i>Inorganic Chemistry</i> , 2004, 43, 7807-7815.	1.9	81
76	Title is missing!. <i>Angewandte Chemie</i> , 2003, 115, 3416-3420.	1.6	38
77	Reduction of Benzophenone and 9(10H)-Anthracenone with the Magnesium Complex[(2,6-diisopropylphenyl)imino]Mg(thf) ₃ . <i>Chemistry - A European Journal</i> , 2003, 9, 5778-5783.	1.7	95
78	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> , 2003, 42, 3294-3298.	7.2	177
79	Oxidative Addition of Phenylacetylene through C≡C-H Bond Cleavage To Form the Mg(dpp-bian) Complex: Molecular Structure of [Mg(dpp-bian)(H)(C≡CPh)(thf) ₂] and Its Diphenylketone Insertion Product [Mg(dpp-bian)(OC(Ph) ₂ C≡CPh)(thf)]. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5223-5226.	7.2	102
80	Synthesis and Structure of the First Lanthanide Complex with the Bridging, Antiaromatic 2,2'-Bipyridine Dianion: [Yb(2,2'-N ₂ C ₁₀ H ₈)(thf) ₂] ₃ . <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2262-2264.	7.2	35
81	Synthesis and ESR-characterization of radical anion complexes of lanthanum. X-ray crystal structure of the mixed bipy, bipy ⁻¹ complex of lanthanum(III) [La ₂ (bipy)(bipy ⁻¹)(DME)]: evidence for an inter-ligand charge transfer. <i>Journal of Organometallic Chemistry</i> , 1996, 524, 125-131.	0.8	38
82	Binuclear complexes of La(III) and Eu(II) with the bridging naphthalene dianion. Synthesis and X-ray crystallographic analysis of [La ₂ (2,2'-N ₂ C ₁₀ H ₈)(THF) ₃] ₂ and [Eu(2,2'-N ₂ C ₁₀ H ₈)(DME) ₂] ₂ . <i>Journal of Organometallic Chemistry</i> , 1995, 489, 145-151.	0.8	64