Igor E Uflyand

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5824564/publications.pdf

Version: 2024-02-01

111 papers	1,445 citations	411340 20 h-index	466096 32 g-index
115 all docs	115 docs citations	115 times ranked	1329 citing authors

#	Article	IF	Citations
1	The mechanism of formation of boundary lubricating films during friction in a medium of di(2-ethylhexyl) sebacate. Tribology International, 2022, 165, 107222.	3.0	11
2	Synthesis, crystal structure, thermal properties of copper(II) acrylate complex with 4â€²-phenyl-2,2â€²:6â€²,2â€²â€²-terpyridine and its use in nanomaterials science. Journal of Molecular Structure, 2022, 1250, 131909.	3.8	5
3	Influence of the Structure of Salicylic Acid Analogue Molecules on the Formation of Tribofilms in Di(2-ethylhexyl) sebacate. Tribology Letters, 2022, 70, 1.	1.2	0
4	Formation of fiber composites with an epoxy matrix: state-of-the-art and future development. Materials and Manufacturing Processes, 2022, 37, 723-747.	2.7	7
5	Epoxy Nanocomposites with Metal-Containing Fillers: Synthesis, Structure, and Properties. Russian Journal of Applied Chemistry, 2022, 95, 167-190.	0.1	0
6	Polymer chemistry underpinning materials for triboelectric nanogenerators (TENGs): Recent trends. European Polymer Journal, 2021, 142, 110163.	2.6	37
7	Copper-Containing Nanomaterials Derived from Copper(II) Laurate as Antifriction Additives for Oil Lubricants. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 934-944.	1.9	3
8	Study of the products of the reaction of cobalt(II) acetate with 2-iodoterephthalic acid and 1,10-phenanthroline. Journal of Coordination Chemistry, 2021, 74, 649-662.	0.8	2
9	A review on the polymers with shape memory assisted self-healing properties for triboelectric nanogenerators. Journal of Materials Research, 2021, 36, 1225-1240.	1.2	11
10	Novel Self-Healing Metallocopolymers with Pendent 4-Phenyl-2,2â€²:6â€²,2â€³-terpyridine Ligand: Kinetic Studies and Mechanical Properties. Polymers, 2021, 13, 1760.	2.0	4
11	Synthesis and Study of Sorption, Antioxidant and Antibacterial Properties of MOF based on Cobalt Terephthalate and 1,10-Phenanthroline. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 4710-4721.	1.9	8
12	Recent strategies to improve MOF performance in solid phase extraction of organic dyes. Microchemical Journal, 2021, 168, 106387.	2.3	29
13	FeCo@Nâ€Doped Nanoparticles Encapsulated in Polyacrylamideâ€Derived Carbon Nanocages as a Functional Filler for Polyethylene System. ChemistrySelect, 2021, 6, 8546-8559.	0.7	1
14	2-D self-healable polyaniline-polypyrrole nanoflakes based triboelectric nanogenerator for self-powered solar light photo detector with DFT study. Journal of Colloid and Interface Science, 2021, 600, 572-585.	5.0	33
15	Nanomaterials Derived from a Copper Cinnamate Complex with 4â€²-Phenyl-2,2â€²:6â€²,2â€³-terpyridine as Antifriction and Anti-Wear Additives for Oil Lubricants. Tribology Letters, 2021, 69, 1.	1.2	5
16	Copper(II) Stearate-Based Copper-Containing Nanomaterials as Antifriction Additives to Lubricating Oils. Russian Journal of Applied Chemistry, 2021, 94, 920-926.	0.1	2
17	Ultrafast synthesis of HKUST-1 nanoparticles by solvothermal method: Properties and possible applications. Polyhedron, 2021, 210, 115517.	1.0	17
18	Recent advances in the study of structure and properties of fiber composites with an epoxy matrix. Journal of Polymer Research, 2021, 28, 1.	1.2	8

#	Article	IF	Citations
19	Properties of a Composite Material Based on a Copper-Containing Metal-Organic Framework and Graphene Oxide. Russian Journal of Applied Chemistry, 2021, 94, 1059-1065.	0.1	2
20	Green synthesis and properties of nickel terephthalate complex with 2,2'-bipyridine. Mendeleev Communications, 2021, 31, 893-895.	0.6	6
21	Nanocomposites of Graphene Oxide and Metal-Organic Frameworks. Russian Journal of Applied Chemistry, 2021, 94, 1453-1468.	0.1	6
22	Coordination Polymer Based on Nickel(II) Maleate and 4â€²-Phenyl-2,2â€²:6â€²,2â€³-Terpyridine: Synthesis, Crystal Structure and Conjugated Thermolysis. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 965-975.	1.9	15
23	Conjugated Thermolysis of Metal-Containing Monomers: Toward Coreâ€“Shell Nanostructured Advanced Materials. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 88-110.	1.9	13
24	Wear products and tribochemical reactions during friction of a brass-steel pair. Wear, 2020, 462-463, 203517.	1.5	1
25	Synthesis and Properties of Copper Trimesinate Complexes with Polypyridine Ligands. Russian Journal of General Chemistry, 2020, 90, 1884-1891.	0.3	10
26	The synthesis of a Cu_{0.8}Zn_{0.2}Sb₂â€“polyacrylamide nanocomposite by frontal polymerization for moisture and photodetection performance. Materials Advances, 2020, 1, 2804-2817.	2.6	16
27	The influence of the nature of carboxylate precursors on the composition and tribological performance of copper-containing nanomaterials. Journal of Coordination Chemistry, 2020, 73, 3465-3486.	0.8	2
28	Basic Approaches to the Design of Intrinsic Self-Healing Polymers for Triboelectric Nanogenerators. Polymers, 2020, 12, 2594.	2.0	15
29	Metal-Containing Monomers Based on Copper and Zinc Salts of Unsaturated Acids and Pendent 4-phenyl-2,2â€²:6â€²,2â€²â€²-terpyridine Ligands: Synthesis, Characterization and Thermal Properties. Key Engineering Materials, 2020, 869, 119-128.	0.4	4
30	Synthesis of Copper(II) Trimesinate Coordination Polymer and Its Use as a Sorbent for Organic Dyes and a Precursor for Nanostructured Material. Polymers, 2020, 12, 1024.	2.0	43
31	Self-healing and shape memory metallopolymers: state-of-the-art and future perspectives. Dalton Transactions, 2020, 49, 3042-3087.	1.6	54
32	Polymer-Immobilized Clusters and Metal Nanoparticles in Catalysis. Kinetics and Catalysis, 2020, 61, 198-223.	0.3	33
33	Structure and properties of epoxy polymer nanocomposites reinforced with carbon nanotubes. Journal of Polymer Research, 2019, 26, 1.	1.2	17
34	Metal Chelate Monomers Based on Nickel Maleate and Chelating Nâ€Heterocycles as Precursors of Coreâ€shell Nanomaterials with Advanced Tribological Properties. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 758-767.	0.6	8
35	Chalcogen-containing metal chelates as single-source precursors of nanostructured materials: recent advances and future development. Journal of Coordination Chemistry, 2019, 72, 1425-1465.	0.8	8
36	Influence of glycerol dispersions of graphene oxide on the friction of rough steel surfaces. Journal of Molecular Liquids, 2019, 284, 1-11.	2.3	32

#	Article	IF	Citations
37	Metal-containing nanomaterials as lubricant additives: State-of-the-art and future development. Friction, 2019, 7, 93-116.	3.4	169
38	New Example of Metalâ€Containing Monomers for Frontal Polymerization. ChemistrySelect, 2019, 4, 2105-2108.	0.7	11
39	Metal chelate monomers based on nickel(II) cinnamate and chelating N-heterocycles as precursors of nanostructured materials. Journal of Coordination Chemistry, 2019, 72, 796-813.	0.8	12
40	Recent advances in metallopolymer-based drug delivery systems. RSC Advances, 2019, 9, 37009-37051.	1.7	18
41	Testing the mechanical and tribological properties of new metal-polymer nanocomposite materials based on linear low-density polyethylene and Al65Cu22Fe13 quasicrystals. Polymer Testing, 2019, 74, 178-186.	2.3	20
42	Design Strategies of Metal Complexes Based on Chelating Polymer Ligands and Their Application in Nanomaterials Science. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1305-1393.	1.9	28
43	Metal Complexes with Polymer Chelating Ligands. Springer Series in Materials Science, 2018, , 199-366.	0.4	6
44	Polymer Complexes Based on Metal Chelate Monomers. Springer Series in Materials Science, 2018, , 367-501.	0.4	0
45	Supramolecular Chemistry of Polymer Metal Chelates. Springer Series in Materials Science, 2018, , 761-897.	0.4	0
46	Thermal Transformations of Polymeric Metal Chelates and Their Precursors in Nanocomposites Formation. Springer Series in Materials Science, 2018, , 899-1007.	0.4	1
47	Polymer Chelating Ligands: Classification, Synthesis, Structure, and Chemical Transformations. Springer Series in Materials Science, 2018, , 13-197.	0.4	3
48	Metal Chelate Dendrimers. Springer Series in Materials Science, 2018, , 503-631.	0.4	1
49	Coordination Polymers Containing Metal Chelate Units. Springer Series in Materials Science, 2018, , 633-759.	0.4	2
50	Preparation of metal-polymer nanocomposites by chemical reduction of metal ions: functions of polymer matrices. Journal of Polymer Research, 2018, 25, 1.	1.2	35
51	Synthetic Methodologies for Chelating Polymer Ligands: Recent Advances and Future Development. ChemistrySelect, 2018, 3, 13234-13270.	0.7	13
52	Conjugated Thermolysis of Metal Chelate Monomers Based on Cobalt Acrylate Complexes with Polypyridyl Ligands and Tribological Performance of Nanomaterials Obtained. ChemistrySelect, 2018, 3, 8998-9007.	0.7	16
53	Thermolysis of Polymeric Metal Chelates. Springer Series on Polymer and Composite Materials, 2018, , 247-350.	0.5	1
54	Thermolysis of Low Molecular Weight Metal Chelates. Springer Series on Polymer and Composite Materials, 2018, , 71-245.	0.5	1

#	Article	IF	Citations
55	Application of Nanomaterials Prepared by Thermolysis of Metal Chelates. Springer Series on Polymer and Composite Materials, 2018, , 459-541.	0.5	1
56	The Conjugate Thermolysisâ€"Thermal Polymerization of Metal Chelate Monomers and Thermolysis of Polymers Formed In Situ. Springer Series on Polymer and Composite Materials, 2018, , 351-423.	0.5	0
57	Molecular design of supramolecular polymers with chelated units and their application as functional materials. Journal of Coordination Chemistry, 2018, 71, 1272-1356.	0.8	18
58	Chemistry of Polymeric Metal Chelates. Springer Series in Materials Science, 2018, , .	0.4	21
59	Nanomaterials Preparation by Thermolysis of Metal Chelates. Springer Series on Polymer and Composite Materials, 2018, , .	0.5	22
60	Review: recent advances in the chemistry of metal chelate monomers. Journal of Coordination Chemistry, 2017, 70, 1468-1527.	0.8	27
61	Design and synthesis of coordination polymers with chelated units and their application in nanomaterials science. RSC Advances, 2017, 7, 42242-42288.	1.7	74
62	Synthetic methodologies and spatial organization of metal chelate dendrimers and star and hyperbranched polymers. Dalton Transactions, 2017, 46, 10139-10176.	1.6	12
63	Synthesis and characterization of copper (II) nitrate polyacrylamide & its application as opto-electronic humidity sensor. Sensors and Actuators A: Physical, 2017, 263, 415-422.	2.0	30
64	NANOCOMPOSITE MATERIALS BASED ON METAL-CONTAINING NANOPARTICLES AND THERMOPLASTIC POLYMER MATRICES: PRODUCTION AND PROPERTIES. International Journal of Nanomechanics Science and Technology, 2017, 8, 7-25.	0.5	6
65	Metal Chelate Monomers as Precursors of Polymeric Materials. Journal of Inorganic and Organometallic Polymers and Materials, 2016, 26, 1112-1173.	1.9	26
66	Synthesis and structure of 2,2â€²-diaminodiphenylditelluride bis-imines. Russian Chemical Bulletin, 2013, 62, 1809-1814.	0.4	2
67	Copper complexes with N-aminotriazolethione azomethines: Structures and magnetochemical properties. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2010, 36, 189-197.	0.3	1
68	Dinuclear chelates of acyclic and cyclic tridentate Schiff bases derived from sterically hindered o-aminophenols. A new type of reactivity of tridentate ligands under electrosynthesis conditions. Russian Chemical Bulletin, 2009, 58, 1383-1391.	0.4	3
69	Chemical and electrochemical syntheses of the binuclear zinc and cadmium chelates based on the sterically hindered Schiff bases. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2009, 35, 657-662.	0.3	10
70	The novel azomethine ligands for binuclear copper(II) complexes with ferro- and antiferromagnetic properties. Journal of Coordination Chemistry, 2007, 60, 1493-1511.	0.8	26
71	1-amino-2-thiobenzimidazoleimines as novel ambidentate ligand systems. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2007, 33, 176-183.	0.3	13
72	Copper(II) dimers with ferromagnetic intra- and intermolecular exchange interactions. Mendeleev Communications, 2005, 15, 133-135.	0.6	34

#	Article	IF	Citations
73	New Ambidentate Ligandsâ€"Azomethin Derivatives of 1-Amino-3-methylbenzimidazoline-2-thion. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2005, 31, 747-751.	0.3	9
74	Novel N-benzimidazolyl-2-thione o-tosylamino(hydroxy)azomethinic tautomeric ligand systems and their metallochelates. Arkivoc, 2005, 2005, 82-90.	0.3	3
75	Metal Complexes with Novel Ambidentate Ligands: Î²-Enaminovinylketones with Annelated 1,2-Benzothiazine-1,1-Dioxide Fragment and Antipyrine Substituent. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2004, 30, 221-223.	0.3	2
76	Î²-Aminovinyl ketonates with heterocyclic fragments. Russian Journal of General Chemistry, 2004, 74, 1585-1590.	0.3	0
77	New Î²-aminovinylketonates with annealated 1,2-benzothiazine-1,1-dioxide fragment. Polyhedron, 2004, 23, 1909-1914.	1.0	11
78	Title is missing!. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2003, 29, 724-731.	0.3	3
79	METAL CHELATES OF NEW LIGANDS: 1,2-BENZOTHIAZINE-1,1-DIOXIDE DERIVATIVES. Journal of Coordination Chemistry, 2001, 54, 337-342.	0.8	4
80	Copper(II) Nitrate Complex with Acrylamide: Synthesis and Crystal Structure. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2001, 27, 735-737.	0.3	13
81	Synthesis, Structure, and Physicochemical Properties of [Mo6Cl8]4+-Containing Clusters. Doklady Physical Chemistry, 2001, 381, 275-278.	0.2	17
82	The autowave modes of solid phase polymerization of metal-containing monomers in two- and three-dimensional fiberglass-filled matrices. Chaos, 1999, 9, 342-347.	1.0	25
83	Synthesis and reactivity of metal-containing monomers. Russian Chemical Bulletin, 1998, 47, 1460-1465.	0.4	9
84	Reactivity of metal-containing monomers. Russian Chemical Bulletin, 1998, 47, 259-264.	0.4	17
85	Synthesis and reactivity of metal-containing monomers. Russian Chemical Bulletin, 1997, 46, 362-370.	0.4	37
86	The spatial organisation of macromolecular metal chelates. Russian Chemical Reviews, 1995, 64, 857-876.	2.5	12
87	Polymers containing metal chelate units. VII. Immobilized complexes of transition metals with 1-phenyl-3-arylamino-4-methylpent-4-en-1-ones. Journal of Inorganic and Organometallic Polymers, 1993, 3, 89-104.	1.5	2
88	Preparation and reactivity of metal-containing monomers. Russian Chemical Bulletin, 1993, 42, 66-70.	0.4	1
89	Polymers containing metal chelate units. I. Immobilized mono- and binuclear chelates of nickel(II) and cobalt(II). Journal of Inorganic and Organometallic Polymers, 1992, 2, 373-386.	1.5	4
90	Polymers containing metal chelate units. VI. Post-graft polymerization of metal chelate monomers based on 1-phenyl-4-methylpent-4-en-1,3-dione. Reactive & Functional Polymers, 1992, 17, 289-296.	0.8	8

#	Article	IF	Citations
91	Metal-containing monomers. Part 2*. Metal chelate monomers based on 1-phenyl-4-methylpent-4-en-1,3-dione. Transition Metal Chemistry, 1992, 17, 458-463.	0.7	7
92	Heterometallic complexes of titanium(IV) and tin(IV) chlorides with nickel(II) and cobalt(II) enaminoketonates and enaminoiminates. Transition Metal Chemistry, 1992, 17, 501-505.	0.7	5
93	Metal-containing monomers. Part 4. Synthesis, characterization and graft polymerization of metal chelate monomers based onN-(2-pyridyl)methacrylamide. Transition Metal Chemistry, 1992, 17, 575-578.	0.7	8
94	Metal-containing monomers. Part 2. Preparation of polytetrafluoroethylene-grafted copper(II) chelate polymers and their use as lubricants. Transition Metal Chemistry, 1992, 17, 360-363.	0.7	6
95	Polymers containing metal chelate units. V Modification of a polyethylene surface by post-grafting polymerization of palladium(II) chelate monomers. Reactive & Functional Polymers, 1991, 14, 41-47.	0.8	9
96	Advances in the chemistry of metal chelate monomers. Russian Chemical Reviews, 1991, 60, 773-783.	2.5	10
97	Metal Chelate Monomers. Journal of Coordination Chemistry, 1991, 24, 183-210.	0.8	8
98	Metal-containing monomers. Part 1. Spatial and electronic structures of cobalt(II) and nickel(II) complexes with acrylamide and of their polymers. Transition Metal Chemistry, 1991, 16, 126-129.	0.7	2
99	Heterogenization of palladium(II) chelates on a sibunite. Transition Metal Chemistry, 1991, 16, 293-295.	0.7	11
100	Polymers containing metallochelate units. Advances in Polymer Science, 1990, , 61-105.	0.4	21
101	Preparation and reactivity of metal-containing monomers. 13. Complexes of transition metals with methacroylacetophenone. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1990, 39, 388-391.	0.0	3
102	Preparation and reactivity of metal-containing monomers. 17. Spatial and electronic structure of complexes of cobalt nitrate and chloride with acrylamide. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1990, 39, 1185-1189.	0.0	3
103	Polymers containing metal chelate units II. Synthesis, structure and use of polymer-supported heterometallic complexes. Reactive & Functional Polymers, 1990, 13, 139-144.	0.8	0
104	Polymers containing metal chelate units III. Binuclear copper(II) complex with salicyloylacrylamide immobilised on polytetrafluoroethylene and its use as a polymeric antifriction coating. Reactive & Functional Polymers, 1990, 13, 145-151.	0.8	4
105	Preparation and reactivity of metal-containing monomers. 11. Complexes of nickel(II), cobalt(II), and chromium(III) acrylates with 2,2?-dipyridyl and 1,10-phenanthroline. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1989, 38, 2265-2270.	0.0	0
106	Preparation and reactivity of metal-containing monomers. 12. Metallochelate monomers based on N-(2-pyridyl)methylacrylamide. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1989, 38, 2271-2273.	0.0	0
107	Polymers containing metal chelate units. IV. Immobilised complexes of transition metal acrylates with 2,2â€²-dipyridyl and 1,10-phenanthroline. Reactive & Functional Polymers, 1989, 11, 221-226.	0.8	13
108	Comparative analysis of homogeneous and immobilized catalysts for ethylene dimerization based on nickel(II) chelates. Journal of Molecular Catalysis, 1989, 55, 302-310.	1.2	5

#	Article	IF	Citations
109	Hydrogenation of unsaturated and nitro compounds on polymer-supported palladium(0) chelates. Journal of Molecular Catalysis, 1989, 55, 391-395.	1.2	7
110	Heterogenization of homogeneous catalysts by chelate formation with macroligands. Journal of Molecular Catalysis, 1989, 55, 429-440.	1.2	9
111	New Mixed-Ligand Metal-Containing Monomer Based on Cobalt Acrylate and 4-Phenyl-2,2':6',2â€³-Terpyridine Ligand: Synthesis, Characteristics and Thermal Properties. Key Engineering Materials, 0, 899, 37-44.	0.4	6