Matvey Gruzdev

List of Publications by Year in descending order

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94 papers	912 citations	471509 17 h-index	580821 25 g-index
94 all docs	94 docs citations	94 times ranked	800 citing authors

#	Article	IF	Citations
1	Water effect on physicochemical properties of 1-butyl-3-methylimidazolium based ionic liquids with inorganic anions. Journal of Molecular Liquids, 2013, 177, 267-272.	4.9	73
2	Thermal behavior and electrochemistry of protic ionic liquids based on triethylamine with different acids. RSC Advances, 2016, 6, 109664-109671.	3.6	43
3	Triethylammonium-based protic ionic liquids with sulfonic acids: Phase behavior and electrochemistry. Journal of Molecular Liquids, 2018, 266, 139-146.	4.9	40
4	METAL-ORGANIC FRAMEWORKS IN RUSSIA: FROM THE SYNTHESIS AND STRUCTURE TO FUNCTIONAL PROPERTIES AND MATERIALS. Journal of Structural Chemistry, 2022, 63, 671-843.	1.0	35
5	Triethanolamine-based protic ionic liquids with various sulfonic acids: Synthesis and properties. Journal of Molecular Liquids, 2017, 242, 838-844.	4.9	32
6	Preparation of 1-butyl-3-methylimidazolium salts and study of their phase behavior and intramolecular intractions. Russian Journal of General Chemistry, 2009, 79, 1720-1727.	0.8	31
7	Self-assembled cobalt(<scp>ii</scp>)porphyrinâ€“fulleropyrrolidine triads via axial coordination with photoinduced electron transfer. New Journal of Chemistry, 2018, 42, 12449-12456.	2.8	31
8	Synthesis and properties of triethanolamine-based salts with mineral and organic acids as protic ionic liquids. Journal of Molecular Liquids, 2018, 249, 825-830.	4.9	27
9	Effects of a Central Atom and Peripheral Substituents on Photoinduced Electron Transfer in the Phthalocyanineâ€“Fullerene Donorâ€“Acceptor Solution-Processable Dyads. Journal of Physical Chemistry C, 2020, 124, 4010-4023.	3.1	27
10	Magnetic Resonance and MÃ¶ssbauer Studies of Superparamagnetic Î³â€Fe₂O₃ Nanoparticles Encapsulated into Liquidâ€Crystalline Poly(propylene imine) Dendrimers. ChemPhysChem, 2011, 12, 3009-3019.	2.1	25
11	Structural, Magnetic and Dynamic Characterization of Liquid Crystalline Iron(III) Schiff Base Complexes with Asymmetric Ligands. European Journal of Inorganic Chemistry, 2011, 2011, 1219-1229.	2.0	23
12	Triethylamine-Based Salts: Protic Ionic Liquids or Molecular Complexes?. Journal of Physical Chemistry B, 2019, 123, 10794-10806.	2.6	23
13	The influence of water on the physicochemical characteristics of 1-butyl-3-methylimidazolium bromide ionic liquid. Russian Journal of Physical Chemistry A, 2008, 82, 1098-1103.	0.6	22
14	Formation Reaction and Chemical Structure of a Novel Supramolecular Triad Based on Cobalt(II) 5,10,15,20-(Tetra-4-Tert-Butylphenyl)-21Ð¸23Ð•Porphyrin and 1-Methyl-2-(Pyridin-4â€²-Yl)-3,4-Fullero[60]Pyrrolidine. Journal of Structural Chemistry, 2018, 59, 711-719.	1.0	22
15	Binding ability of Zn-tetraarylporphyrins with two, four and eight		

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19	1-Butyl-3-methylimidazolium Salts as New Catalysts to Produce Epoxy-anhydride Polymers with Improved Properties. International Journal of Polymer Science, 2014, 2014, 1-8.	2.7	14
20	Blue shift in optical absorption, magnetism and light-induced superparamagnetism in Î³-Fe2O3 nanoparticles formed in dendrimer. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	14
21	Bis-chelate Fe(III) complex of an azomethine at the focal point of a branched ester functionalized with cyclohexylbenzoic acid. Journal of Coordination Chemistry, 2012, 65, 1812-1820.	2.2	13
22	Magnetic properties of novel dendrimeric spin crossover iron(III) complex. Inorganica Chimica Acta, 2016, 439, 186-195.	2.4	13
23	Polymer electrolytes based on PVdF-HFP doped with protic ionic liquids containing different cations. Journal of Molecular Liquids, 2019, 283, 338-345.	4.9	13
24	Thermodynamics of mixed-ligand complexation of mercury(II) ethylenediaminetetraacetate with histidine and lysine in aqueous solution. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2010, 36, 565-571.	1.0	12
25	Induction of Mesomorphic Properties in Poly(propylene imine) Dendrimers and their Model Compounds. Molecular Crystals and Liquid Crystals, 2004, 409, 29-42.	0.9	11
26	Counterion effect on the spin-transition properties of the second generation iron(III) dendrimeric complexes. Inorganica Chimica Acta, 2017, 459, 131-142.	2.4	11
27	Coexistence of spin crossover and magnetic ordering in a dendrimeric Fe(III) complex. Low Temperature Physics, 2015, 41, 15-19.	0.6	10
28	Magnetocaloric properties of dendrimer complexes of Fe(III) with substituted Schiff base. Liquid Crystals, 2018, 45, 907-911.	2.2	10
29	New paramagnets based on nanocarbon and cobalt(II)porphyrin: Magnetocaloric effect and specific heat capacity. Synthetic Metals, 2019, 253, 116-121.	3.9	10
30	Magnetocaloric effect in reduced graphene oxide. Journal of Magnetism and Magnetic Materials, 2019, 476, 604-607.	2.3	9
31	Mechanism of the Self-Assembly of Donorâ€“Acceptor Triads Based on Cobalt(II) Porphyrin Complex and Fullero[60]pyrrolidine, According to Data Obtained by Spectroscopic and Electrochemical Means. Russian Journal of Physical Chemistry A, 2020, 94, 1159-1166.	0.6	9
32	Mixed-ligand complex formation of mercury (II) ethylenediaminetetraacetate with cysteine and methionine in aqueous solution. Inorganica Chimica Acta, 2011, 371, 53-58.	2.4	8
33	Synthesis and phase behavior of dendrons derived from 3,4,5-tris(tetradecyloxy)benzoic acid with different functional groups in focal point. Journal of Chemical Sciences, 2015, 127, 1801-1810.	1.5	8
34	New Molecular Chemosensors Based on Niobium(V) 5,10,15,20-(Tetra-4-tert-butylphenyl)porphine for Detection of VOCs. Russian Journal of Inorganic Chemistry, 2019, 64, 1538-1547.	1.3	8
35	Diethylamine-based ionic liquids: quantum chemical calculations and experiment. Russian Chemical Bulletin, 2019, 68, 2009-2019.	1.5	8
36	Carbazole-functionalized cobalt(ii) porphyrin axially bonded with C60/C70 derivatives: synthesis and characterization. New Journal of Chemistry, 2021, 45, 9053-9065.	2.8	8

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37	Iron(III) complexes on the basis of azomethine derived from 4,4â€²-dodecyloxybenzoyloxybenzoyl-4-oxy-2-hydroxybenzaldehyde. Russian Journal of General Chemistry, 2010, 80, 1954-1962.	0.8	7
38	Structure of Iron(III)-containing complexes based on the azomethine â€" 4,4â€²-dodecyloxy-benzoyloxybenzoyl-4-salicylidene-Nâ€²-Ethyl-N-ethylenediamine molecule. Journal of Structural Chemistry, 2011, 52, 83-90.	1.0	7
39	Effect of the nature of chiral fragment on mesomorphic properties of triphenylene ethers. Russian Journal of General Chemistry, 2011, 81, 714-720.	0.8	7
40	Stepwise magnetic behavior of the liquid crystal iron(III) complex. Journal of Structural Chemistry, 2013, 54, 16-27.	1.0	7
41	Synthesis and photochemical properties of 3,6-di-tert-butyl-9H-carbazole derivatives. Russian Journal of General Chemistry, 2015, 85, 1431-1439.	0.8	7
42	High-spin Fe(III) Schiff based complexes with photoactive ligands. Synthesis, EPR study and magnetic properties. Polyhedron, 2018, 155, 415-424.	2.2	7
43	Dendritic Iron(III) Carbazole Complexes: Structural, Optical, and Magnetic Characteristics. Materials, 2021, 14, 5445.	2.9	7
44	Alkylimidazolium Protic Ionic Liquids: Structural Features and Physicochemical Properties. ChemPhysChem, 2021, , .	2.1	7
45	Mesomorphic azomethine complexes of Iron(III) based on 4,4â€²-dodecyloxybenzoyloxybenzoyl-4-salicylidene-2-aminopyridine. Liquid Crystals, 2013, 40, 1541-1549.	2.2	6
46	Synthesis, EPR study and photophysical properties of a mononuclear Fe(III) Schiff base complex functionalized by 3,6-di-tert-butyl-carbazole moieties. Journal of Molecular Structure, 2020, 1200, 127090.	3.6	6
47	C₆₀Fullerene Crystallosolvates with Tetralin, CCl₄and 1,2-dihlorobenzene: Determination of Composition by DSC and FT-IR Measurements. Fullerenes Nanotubes and Carbon Nanostructures, 2011, 19, 435-444.	2.1	5
48	Solvent effect in the preparation of iron(III) azomethine complexes based on 4,4â€²-dodecyloxybenzoyloxybenzoyl-4-salicylidene-Nâ€²-ethyl-N-ethylenediamine. Journal of Structural Chemistry, 2012, 53, 845-850.	1.0	5
49	Conversion of low spin states in a monochelate complex of Fe(III) with an asymmetric tridentate azomethine ligand. Journal of Structural Chemistry, 2012, 53, 1062-1074.	1.0	5
50	Optical properties and photoinduced superparamagnetism of Î³-Fe2O3 nanoparticles formed in dendrimer. Materials Science in Semiconductor Processing, 2015, 38, 336-341.	4.0	5
51	Synthesis and mesomorphic properties of iron(II)-containing dendrimeric complexes derivative of 3,4-n-dodecyloxybenzoyl poly(propylene imine). Liquid Crystals, 0, , 1-10.	2.2	5
52	Synthesis and emissive properties of bi-directed azomethine iron(III) complexes based on salicylidene-4-biphenylcarboxylic acid. Journal of Molecular Structure, 2019, 1176, 529-537.	3.6	5
53	Schiff base complexes with different metals incorporating derivatives of 3,6â€ditertâ€butylcarbazole. Applied Organometallic Chemistry, 2021, 35, e6145.	3.5	5
54	Imidazolium zwitterionâ€based protic ionic liquids: from monomers to polymer membranes. Polymer International, 2021, 70, 1582-1589.	3.1	5

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55	Bromination of alkylbenzenes in 1-butyl-3-methylimidazolium bromide and its dibromide complex. Russian Journal of General Chemistry, 2010, 80, 263-267.	0.8	4
56	Synthesis of liquid-crystalline 4,4â€²-dodecyloxybenzoyloxybenzoyl-4-oxy-2-hydroxybenzaldehyde and related azomethine. Russian Journal of General Chemistry, 2011, 81, 1853-1858.	0.8	4
57	Synthesis and phase behavior of branched esters derived from cyclohexylbenzoic acid. Russian Journal of General Chemistry, 2011, 81, 2288-2293.	0.8	4
58	Proton-conducting gel electrolytes based on poly(methyl methacrylate) doped with phosphoric acid in N,N-dimethylformamide. Polymer Science - Series A, 2011, 53, 44-51.	1.0	4
59	MÃ¶ssbauer study of the surface of core-shell type nanoparticles. Journal of Surface Investigation, 2016, 10, 35-38.	0.5	4
60	Synthesis and phase behaviour of poly(propylene imine) dendromesogens of lowest generations. Liquid Crystals, 2019, 46, 454-468.	2.2	4
61	Thermal properties of protic ionic liquids derivatives triethanolamine-based salts of mineral and organic acids. Journal of Thermal Analysis and Calorimetry, 2019, 138, 703-712.	3.6	4
62	Phase Transitions in Mesogenic Third Generation Poly(Propyleneimine) Dendrimer and Its Iron(II) Complex. Russian Journal of Inorganic Chemistry, 2020, 65, 640-645.	1.3	4
63	Mixed-ligand complexation of iron(III) ethylenediaminetetraacetate with iminodiacetate and ethylenediamine in aqueous solution. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2010, 36, 293-297.	1.0	3
64	Synthesis and study of heptasubstituted triphenylenes with chiral fragments and predictable type of mesomorphism. Russian Journal of General Chemistry, 2010, 80, 268-274.	0.8	3
65	Propanal hydroamination with p-aminobenzoic acid. Russian Journal of Organic Chemistry, 2010, 46, 634-636.	0.8	3
66	Thermodynamics of mixed-ligand complex formation of zinc nitrilotriacetate with amino acids and dipeptides in solution. Thermochimica Acta, 2014, 594, 50-57.	2.7	3
67	The energetics of solvation and ion-ion interactions in prospidium chloride aqueous solutions. Journal of Molecular Liquids, 2018, 263, 49-52.	4.9	3
68	Novel fluorescence quenching triad based on molybdenum(V) tetra-p-tolylporphyrin and substituted fullero[60]pyrrolidine. Journal of Porphyrins and Phthalocyanines, 2020, 24, 1224-1232.	0.8	3
69	Synthesis and investigation of triphenylene discotic derivatives with donor and acceptor groups and with predictable type of mesomorphism. Russian Journal of General Chemistry, 2008, 78, 1902-1909.	0.8	2
70	Mixed complex formation of lead(II) and mercury(II) ethylenediaminetetraacetates with thiourea in an aqueous solution. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2011, 37, 730-737.	1.0	2
71	Synthesis and study of vitrescent materials based on the alkoxybenzoic acids derivatives and triethanolamine. Russian Journal of General Chemistry, 2013, 83, 652-658.	0.8	2
72	Thermodynamic study of mixed-ligand complex formation of copper(II) and nickel(II) nitrilotriacetates with dipeptides in solution. Inorganica Chimica Acta, 2014, 409, 507-511.	2.4	2

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73	Structure and phase transitions of azomethine biligand complexes of iron(III) based on 3,4,5-tri(tetradecyloxy)benzoyloxy-4-salicylidene-Nâ€²-ethyl-N-ethylenediamine. Journal of Structural Chemistry, 2016, 57, 478-490.	1.0	2
74	Mixed-Ligand Complexation of Zinc and Cobalt(II) Complexonates with Amino Acids in an Aqueous Solution. Russian Journal of Inorganic Chemistry, 2018, 63, 180-190.	1.3	2
75	Possibility of Protic Ionic Liquids Formation From Triethanolamine with Sulfonamides. Journal of Physical Chemistry B, 2018, 122, 6586-6594.	2.6	2
76	Liquid crystalline poly(propylene imine) dendrimer-based iron oxide nanoparticles. RSC Advances, 2019, 9, 22499-22512.	3.6	2
77	Formation of Mixed-Ligand Complexes of Mercury(II) with Mono- and Diamine Complexone Ligands in Aqueous Solution. Russian Journal of Physical Chemistry A, 2019, 93, 401-406.	0.6	2
78	Highly branched mesomorphic iron(III) complexes with a long alkyl fragments on periphery. Journal of Molecular Liquids, 2020, 320, 114505.	4.9	2
79	Phase behaviour and magnetocaloric effect of poly(propylene imine) Iron(III) dendromesogen of the third generation. Liquid Crystals, 2021, 48, 588-597.	2.2	2
80	Synthesis and Optical Properties of BODIPY with Active Group on meso- Position. Letters in Organic Chemistry, 2017, 13, 718-725.	0.5	2
81	Structure of Liquid Crustal Poly(Propylene Imine) Dendrimers of the Lowest Generations by X-Ray Analysis. Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie, 2017, 17, 83-92.	0.1	2
82	MAGNETOCALORIC EFFECT AND HEAT CAPACITY OF MAGNETIC FLUIDS. ChemChemTech, 2020, 63, 12-18.	0.3	2
83	The Branched Schiff Base Cationic Complexes of Iron(III) with Different Counter-Ions. Symmetry, 2022, 14, 1140.	2.2	2
84	Thermodynamic and NMR studies of mixed-ligand complex formation of mercury (II) ethylenediaminetetraacetate with dipeptides in solution. Inorganica Chimica Acta, 2013, 394, 685-690.	2.4	1
85	Synthesis and optical properties of p-(4,4-difluoro-4-boron-3a,4a-diaza-s-indacene-8-yl)-4â€™-benzoyloxy-2-hydroxybenzaldehyde. Russian Journal of General Chemistry, 2016, 86, 1973-1975.	0.8	1
86	Optimization of conditions for synthesizing sulfonated hydrazides of benzoic and benzenesulfonic acids. Russian Journal of Applied Chemistry, 2016, 89, 609-617.	0.5	1
87	EPR detection of presumable quantum behavior of iron oxide nanoparticles in dendrimeric nanocomposite. Inorganica Chimica Acta, 2017, 465, 38-43.	2.4	1
88	Tetrachloromethane Hydrodechlorination over Palladium-Containing Nanodiamonds. Petroleum Chemistry, 2020, 60, 1148-1153.	1.4	1
89	Magnetic properties of the mononuclear iron (III) complexes with biphenylâ€disubstituted Schiff base ligand: EPR and SQUID study. Applied Organometallic Chemistry, 2022, 36, .	3.5	1
90	Thermodynamics of heteroligand mercury(II) complexes with nitrilotriacetic acid and ethylenediamine in aqueous solution. Russian Journal of Inorganic Chemistry, 2010, 55, 1238-1242.	1.3	0

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91	Electrorheological behavior of the hybrid material prepared by cohydrolysis of titanium(IV) isopropoxide with minor additions of a liquid crystal. Russian Journal of Applied Chemistry, 2011, 84, 951-956.	0.5	0
92	Thermodynamics of mixed-ligand complex formation of mercury (II) ethylenediaminetetraacetate with amino acids in solution. Thermochimica Acta, 2012, 548, 38-44.	2.7	0
93	Complex formation of mercury(II) chloride with dipeptides. Russian Journal of General Chemistry, 2017, 87, 605-612.	0.8	0
94	Thermodynamic Characteristics of Ionic Liquids Derived from Bromide Salts of 1,3-Dialkylbenzimidazole. Russian Journal of Inorganic Chemistry, 2020, 65, 703-710.	1.3	0