Akhat G Mustafin

List of Publications by Citations

127 papers	419 citations	11 h-index	15 g-index
138 ext. papers	568 ext. citations	1.7 avg, IF	4.16 L-index

#	Paper	IF	Citations
127	Effect of structural factors on the physicochemical properties of functionalized polyanilines.. *RSC Advances*, **2020**, 10, 7468-7491	3.7	28
126	ATR-FTIR spectroscopic investigation of the cis- and trans- bis-(α-amino acids) copper(II) complexes. *Journal of Molecular Structure*, **2017**, 1137, 260-266	3.4	25
125	Methane conversion to valuable chemicals over nanostructured Mo/ZSM-5 catalysts. *Petroleum Chemistry*, **2011**, 51, 174-186	1.1	20
124	Nucleophilic cyclopropanation of [60]fullerene by the addition-elimination mechanism.. *RSC Advances*, **2019**, 9, 22428-22498	3.7	18
123	Evaluation of Cytotoxicity and β-Glucosidase Inhibitory Activity of Amide and Polyamino-Derivatives of Lupane Triterpenoids. *Molecules*, **2020**, 25,	4.8	15
122	Preparation and investigation of soluble functionalized polyanilines. *Physics of the Solid State*, **2017**, 59, 1253-1259	0.8	14
121	Production of sulfur nanoparticles from aqueous solution of potassium polysulfide. *Russian Journal of Applied Chemistry*, **2012**, 85, 1832-1837	0.8	12
120	Inhibiting effect of 6-methyluracil derivatives on the free -radical oxidation of 1,4-dioxane. *Russian Chemical Bulletin*, **2010**, 59, 517-521	1.7	12
119	Synthesis and Physico-chemical Properties of (Co)polymers of 2-[(2E)-1-methyl-2-buten-1-yl]aniline and Aniline. *Chinese Journal of Polymer Science (English Edition)*, **2019**, 37, 774-782	3.5	11
118	Anions of uracils: N1 or N3? That is the question. *Computational and Theoretical Chemistry*, **2016**, 1078, 81-87	2	11
117	Solar-energy photoconverters based on thin films of organic materials. *Technical Physics Letters*, **2013**, 39, 854-857	0.7	11
116	Synthesis and physicochemical properties of poly[2-(2-chloro-1-methylbut-2-en-1-yl)aniline] obtained with various dopants. *Polymer International*, **2020**, 69, 804-812	3.3	9
115	Preparation and Antihypoxic Activity of Complexes of Uracil Derivatives with Dicarboxylic Acids. *Pharmaceutical Chemistry Journal*, **2014**, 48, 93-96	0.9	9
114	Chemical precipitation of sulfur nanoparticles from aqueous solutions. *Russian Journal of Applied Chemistry*, **2014**, 87, 700-708	0.8	9
113	New monomers for fullerene-containing polymers. *Russian Journal of Organic Chemistry*, **2014**, 50, 179-182	0.7	8
112	Specific features of thermal decomposition of mechanically activated calcium peroxide. *Russian Journal of Applied Chemistry*, **2010**, 83, 1794-1798	0.8	8
111	Experimental and theoretical substantiation of differences of geometric isomers of copper(II) α-amino acid chelates in ATR-FTIR spectra. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 229, 117950	4.4	8

110	Effect of Cobalt Phthalocyanine on Synthesis and Physicochemical Properties of Polyaniline. *ChemistrySelect*, **2019**, 4, 11307-11314	1.8	7
109	Acrylate and methacrylate derivatives of fullerenes as electron-selective buffer layer materials for inverted organic solar cells. *Mendeleev Communications*, **2015**, 25, 348-349	1.9	6
108	Recovery of heavy metal ions with calcium peroxide microparticles. *Russian Journal of Applied Chemistry*, **2016**, 89, 360-366	0.8	6
107	Fe(CrO2)2-catalyzed, photoactivated oxidative one-pot tandem synthesis of substituted quinolines from primary alcohols and arylamines. *Chemistry of Heterocyclic Compounds*, **2018**, 54, 369-374	1.4	6
106	Specific Intermolecular Interactions in the Supramolecular Structure of 5-Hydroxy-6-Methyluracil: A DFT Study of the Hydrogen-bonded Dimers. *Journal of the Chinese Chemical Society*, **2017**, 64, 143-151	1.5	6
105	Use of micrometer hematite particles and nanodispersed goethite as sorbent for heavy metals. *Russian Journal of Applied Chemistry*, **2014**, 87, 1456-1463	0.8	6
104	UV spectroscopy of monosubstituted derivatives of 1,2-dihydro-C60-fullerenes. *Journal of Structural Chemistry*, **2012**, 53, 1081-1086	0.9	6
103	Kinetics, mechanism, and mathematical model of the reaction between uracil and hydrogen peroxide in aqueous solution. *Kinetics and Catalysis*, **2015**, 56, 563-568	1.5	5
102	Fullerene containing norbornenes: synthesis and ring-opening metathesis polymerization. *Tetrahedron*, **2014**, 70, 8040-8046	2.4	5
101	Investigation of the mechanism of the inhibited oxidation of 1,4-dioxane by mathematical modeling. *Kinetics and Catalysis*, **2015**, 56, 300-303	1.5	5
100	Effect of metal phthalocyanines on the synthesis and physicochemical properties of polyaniline. *Mendeleev Communications*, **2020**, 30, 624-626	1.9	5
99	Theoretical Models for Quantitative Description of the Acid-Base Equilibria of the 5,6-Substituted Uracils. *Journal of Physical Chemistry A*, **2018**, 122, 341-349	2.8	5
98	Preparation, Toxicity, and Anti-Inflammatory Activity of Complexes of Uracil Derivatives with Polyfunctional Acids. *Pharmaceutical Chemistry Journal*, **2017**, 50, 649-653	0.9	4
97	New methanofullerene as a buffer layer in organic solar cells. *Physica B: Condensed Matter*, **2015**, 458, 114-116	2.8	4
96	UV spectroscopy of methanofullerene derivatives with different degrees of substitution. *Russian Journal of Physical Chemistry A*, **2013**, 87, 1692-1695	0.7	4
95	UV spectroscopic quantitative determination of methanofullerene derivatives with a different degree of substitution. *Journal of Structural Chemistry*, **2013**, 54, 719-723	0.9	4
94	Oxidation and Destruction of Polyvinyl Alcohol in the Aqueous Phase. *International Journal of Chemical Kinetics*, **2013**, 45, 821-831	1.4	4
93	Influence of the absolute configuration of the ligand's chiral center on the structure of planar-square phenyl-containing bis-(N,O)copper(II) chelates. *Journal of Molecular Structure*, **2021**, 1236, 130303	3.4	4

92	Ring-opening metathesis polymerization (ROMP) of fullerene-containing monomers in the presence of a first-generation Grubbs catalyst. *Kinetics and Catalysis*, **2017**, 58, 111-121	1.5	3
91	Oxidation and Destruction of Polyvinyl Alcohol under the Combined Action of Ozone–Oxygen Mixture and Hydrogen Peroxide. *Russian Journal of Physical Chemistry A*, **2018**, 92, 419-423	0.7	3
90	A theoretical quantitative estimation of acidity of uracil and its derivatives through the pKa values. *Journal of the Chinese Chemical Society*, **2018**, 65, 1447-1452	1.5	3
89	Chemiluminescence in the reaction of ozone with 6-methyluracil in aqueous solutions. *Russian Journal of Physical Chemistry A*, **2015**, 89, 2210-2212	0.7	3
88	Experimental and quantum-chemical studies of the reactions of 6-methyluracil with succinic and fumaric acids. *Russian Journal of Physical Chemistry A*, **2014**, 88, 2068-2072	0.7	3
87	Synthesis and antioxidant activity of aminomethylated 6-methyluracil derivatives. *Pharmaceutical Chemistry Journal*, **2010**, 44, 123-125	0.9	3
86	Ozonolysis of ortho-alkenylanilines. *Russian Chemical Bulletin*, **2003**, 52, 989-992	1.7	3
85	New type of interaction of 5-iodopyrimidine nucleosides with alkynes. *Russian Chemical Bulletin*, **1993**, 42, 563-566	1.7	3
84	Luminescence of aromatic hydrocarbon molecules in the sonication of terbium sulfate suspensions. *Ultrasonics Sonochemistry*, **2019**, 50, 251-254	8.9	3
83	Oxidation and destruction of arabinogalactan and pectins under the action of hydrogen peroxide and ozone-oxygen mixture. *Reaction Kinetics, Mechanisms and Catalysis*, **2017**, 120, 673-690	1.6	2
82	Kinetic study of the reaction of nucleophilic cyclopropanation of C60 fullerene with halogenated maleopimarimide. *International Journal of Chemical Kinetics*, **2019**, 51, 311-320	1.4	2
81	One-Pot Wittig Synthesis of Methyl-3-[5-(Hydroxymethyl)-2-Furyl]Acrylate from Fructose. *Chemistry of Natural Compounds*, **2020**, 56, 341-342	0.7	2
80	Coprecipitation of Nanocomposites Based on Colloidal Particles of Sulfur and Carbonates of Alkaline-Earth Metals from Polysulfide Solutions. *Colloid Journal*, **2018**, 80, 407-417	1.1	2
79	Influence of the structure of the organoaluminum compound on the stereoregulating heterogeneity of catalytic systems based on TiCl4. *Russian Journal of Applied Chemistry*, **2012**, 85, 974-979	0.8	2
78	5-amino-6-methyluracil is a promising pyrimidine antioxidant. *Doklady Biological Sciences*, **2013**, 448, 7-9	0.9	2
77	Preparation of nanosized sulfur particles from aqueous solutions of calcium and sodium polysulfides. *Russian Journal of Applied Chemistry*, **2009**, 82, 2087-2092	0.8	2
76	Intramolecular cyclization ofortho-(cyclohex-2-enyl)anilines. Modified synthesis of ellipticine. *Russian Chemical Bulletin*, **1999**, 48, 2121-2126	1.7	2
75	Reaction of 2-(1-methyl-2-butenyl)anilines with polyphosphoric acid. *Bulletin of the Academy of Sciences of the USSR Division of Chemical Science*, **1985**, 34, 760-763		2

74	ESTIMATING THE STABILITY OF METAL□LIGAND BONDING IN CARBOXYL-CONTAINING POLYMER COMPLEXES BY IR SPECTROSCOPY. *Journal of Structural Chemistry*, **2020**, 61, 1876-1887	0.9	2
73	SYNTHESIS AND PROPERTIES OF ORTHO-ALKYL DERIVATIVES OF POLYANILINE **2020**, 291	0.1	2
72	Light gasoil of catalytic cracking: A quantitative description of the physical properties by joint use of chromato-mass-spectrometry and molecular dynamics. *Journal of the Chinese Chemical Society*, **2020**, 67, 33-40	1.5	2
71	Determination of the chain termination rate constants of the radical chain oxidation of organic compounds on antioxidant molecules by the QSPR method. *Russian Chemical Bulletin*, **2020**, 69, 1679-1691	1.7	2
70	Synthesis and Physicochemical Properties of Poly(2-ethyl-3-methylindole). *Macromolecules*, **2020**, 53, 8050-8059	5.5	2
69	Influence of Synthesis Conditions on the Physicochemical Properties of Poly-2-[(2E)-1-methyl-2-buten-1-yl]aniline. *Polymer Science - Series B*, **2021**, 63, 135-141	0.8	2
68	Antibacterial properties of polyaniline derivatives. *Journal of Applied Polymer Science*, **2021**, 138, 51397	2.9	2
67	Quantitative structure-property relationship modeling of the C fullerene derivatives as electron acceptors of polymer solar cells: Elucidating the functional groups critical for device performance. *Journal of Molecular Graphics and Modelling*, **2019**, 88, 49-61	2.8	2
66	Polymerization of new aniline derivatives: synthesis, characterization and application as sensors.. *RSC Advances*, **2021**, 11, 21006-21016	3.7	2
65	Controlled stabilization of anionic forms of the uracil derivatives: A DFT study. *Journal of Molecular Graphics and Modelling*, **2018**, 79, 65-71	2.8	2
64	Quantitative structure-activity relationship of the thymidylate synthase inhibitors of Mus musculus in the series of quinazolin-4-one and quinazolin-4-imine derivatives. *Journal of Molecular Graphics and Modelling*, **2018**, 85, 198-211	2.8	2
63	New Organic Polymers for Solar Cells **2018**,		2
62	Enhancing 4-propylheptane dissociation with nickel nanocluster based on molecular dynamics simulations. *Journal of Molecular Graphics and Modelling*, **2017**, 72, 106-111	2.8	1
61	A study of the sorption properties of iron-containing sorbent nanoparticles with respect to heavy metal ions. *Russian Journal of Physical Chemistry B*, **2017**, 11, 704-707	1.2	1
60	Kinetics of the Oxidation of Uracil and Six of Its Derivatives by Ozone in Aqueous Solutions. *Russian Journal of Physical Chemistry A*, **2019**, 93, 1672-1676	0.7	1
59	Cracking of n-octadecane: A molecular dynamics simulation. *Journal of the Chinese Chemical Society*, **2019**, 66, 881-890	1.5	1
58	Effect of Cobalt Phthalocyanine on the Chemical Polymerization of Aniline. *ChemistrySelect*, **2020**, 5, 5621-5628	1.8	1
57	Effect of Dispersibility of Natural Sorbents on Their Sorption Activity for Cd(II), Pb(II), and Cu(II) Ions. *Russian Journal of Physical Chemistry B*, **2020**, 14, 152-159	1.2	1

56	Synthesis and Aminoalkylation of N-Propargyl Triterpene Aldimines. *Russian Journal of Organic Chemistry*, **2020**, 56, 174-176	0.7	1
55	Kinetic investigation of the cyclopropanation process of fullerene C60 by halogenmethyl ketones under the conditions of the Bingel reaction. *New Journal of Chemistry*, **2020**, 44, 7277-7285	3.6	1
54	Preparing oxidized fractions of polyvinyl alcohol of a given molecular mass. *Russian Journal of Physical Chemistry A*, **2016**, 90, 1993-1996	0.7	1
53	Modeling the Self-Assembly of 5-Hydroxy-6-methyluracil within Electrostatic Potential Approach. *Russian Journal of Physical Chemistry A*, **2018**, 92, 1523-1529	0.7	1
52	Destructive Conversion of Gas Oil in the Presence of a Nickel-Based Nanosized Catalyst. *Petroleum Chemistry*, **2018**, 58, 379-386	1.1	1
51	Physicochemical characteristics of the radical copolymerization of fullerene-containing methacrylates with vinyl monomers. *Russian Journal of Physical Chemistry B*, **2017**, 11, 324-329	1.2	1
50	A modified synthesis of ellipticine. *Russian Chemical Bulletin*, **1997**, 46, 608-609	1.7	1
49	Transformations of □d-xylofuranosyl nucleosides. Synthesis of 3?-azido-3?-deoxythymidine. *Russian Chemical Bulletin*, **1998**, 47, 2007-2008	1.7	1
48	Anomalous Effect of Hydrogen Peroxide on 2-Propanol Oxidation Inhibited by Uracil Additives. *Doklady Physical Chemistry*, **2004**, 394, 9-11	0.8	1
47	A new type of reaction between 5-iodopyrimidinonucleosides and alkynes. *Bulletin of the Russian Academy of Sciences Division of Chemical Science*, **1992**, 41, 1135-1135		1
46	Synthesis of □D-xylofuranosyl- and 2,2?-anhydro-1-□D-lyxofuranosylpyrimidine nucleosides. *Russian Chemical Bulletin*, **1993**, 42, 1095-1099	1.7	1
45	Claisen rearrangement in N-allylaniline series. *Bulletin of the Academy of Sciences of the USSR Division of Chemical Science*, **1983**, 32, 1149-1153		1
44	Modification of Azepanobetulin at the Isopropenyl Group. *Russian Journal of Organic Chemistry*, **2020**, 56, 1582-1587	0.7	1
43	Synthesis of Nitro, Amino, and Halo Derivatives of 2-Ethyl-2-methyl-2,3-dihydro-1H-indole. *Russian Journal of Organic Chemistry*, **2019**, 55, 1539-1546	0.7	1
42	Synthesis and physicochemical properties of poly[2-(cyclohex-2-en-1-yl)aniline] as a new polyaniline derivative. *New Journal of Chemistry*, **2021**, 45, 6356-6366	3.6	1
41	Synthesis of 5-(hydroxy-, chloro-, bromomethyl)furan-2-enones Based on Fructose and their Antioxidant Activity. *Chemistry of Natural Compounds*, **2021**, 57, 869-874	0.7	1
40	Synthesis and Physicochemical Properties of Poly[2-(1-methylbut-1-en-1-yl)aniline] and Its Copolymers. *ChemistrySelect*, **2021**, 6, 8942-8949	1.8	1
39	Quantum-chemical approaches in the study of fullerene and its derivatives by the example of the most typical cycloaddition reactions: A review. *International Journal of Quantum Chemistry*, **2022**, 122,	2.1	1

38	Synthesis of methyl (E)-2-[(3S,4S)-4-hydroxy-3-(pent-3-yloxy)-pyrrolidin-2-ylidene]propanoate and its unusual recyclization. *Russian Chemical Bulletin*, **2013**, 62, 1227-1231	1.7	0
37	Effect of the substituent with respect to the azido group on the reactivity of methyl (2E)-3-[5-(azidomethyl)-2,2-diethyl-1,3-dioxolan-4-yl]-2-methylprop-2-enoate. *Russian Journal of Organic Chemistry*, **2013**, 49, 1047-1054	0.7	0
36	New sp 2-bonded carbanucleosides. *Russian Journal of Organic Chemistry*, **2009**, 45, 256-258	0.7	0
35	Ozonolysis of N-acetyl-2-(cyclopent-2-enyl)aniline. *Mendeleev Communications*, **2001**, 11, 146-147	1.9	0
34	Polymerization of new aniline derivatives: Synthesis, characterization and application as sensors. *Polymer Testing*, **2021**, 104, 107351	4.5	0
33	Interactions of uracil and its derivatives with polyfunctional acids. *Russian Chemical Bulletin*, **2019**, 68, 1954-1961	1.7	0
32	Furan Analog of the Alkaloid Dubiamine Based on 5-Hydroxymethylfurfurol. *Chemistry of Natural Compounds*, **2022**, 58, 185-186	0.7	0
31	Analysis of the Products from the Reaction of L-Cysteine with Fe(III) Compounds in Acidic Medium. *Journal of Applied Spectroscopy*, **2022**, 89, 18-23	0.7	0
30	Synthesis and Promising Cytotoxic Activity of Betulonic Acid Modified Derivatives. *ChemistrySelect*, **2021**, 6, 13253-13260	1.8	0
29	Chemiluminescence in the Reaction of Ozone-Mediated Aniline Oxidation. *Russian Journal of Physical Chemistry A*, **2019**, 93, 181-183	0.7	
28	Effect of Solvents on Acid-Catalyzed Claisen Amino Rearrangement in N-(1-Methyl-2-butenyl)aniline. *Russian Journal of Physical Chemistry A*, **2019**, 93, 23-27	0.7	
27	Process of electrochemical electrode modification by polyaniline in the frame of percolation model. *Journal of Solid State Electrochemistry*, **2019**, 23, 1221-1235	2.6	
26	Low-toxic nitrogen-containing antioxidant for polyvinyl chloride. *Russian Journal of Applied Chemistry*, **2015**, 88, 626-629	0.8	
25	Transformations of 2-Ethyl-2-methyl-2,3-dihydro-1H-indole at the 3-Position. *Russian Journal of Organic Chemistry*, **2020**, 56, 76-81	0.7	
24	Synthesis of New Methanofullerenes with Phthalimide Fragment. *Russian Journal of General Chemistry*, **2020**, 90, 244-248	0.7	
23	Prognostication of the anticorrosive activity in the series of pentenylarylamines and their industrial introduction. *Russian Journal of Applied Chemistry*, **2012**, 85, 1182-1185	0.8	
22	Solvent effect on molecular characteristics of polybutadiene and on the kinetic heterogeneity of catalytic systems based on TiCl4. *Russian Journal of Applied Chemistry*, **2010**, 83, 487-491	0.8	
21	Transformations of d-xylofuranosyl nucleosides. The effective synthesis of 2?,3?-dideoxy-2?,3?-didehydrothymidine. *Russian Chemical Bulletin*, **1997**, 46, 1362-1363	1.7	

20	Claisen aromatic amino rearrangement in the series of fluorinated anilines. *Russian Chemical Bulletin*, **1998**, 47, 188-190	1.7
19	Structure of 1-□d-xylofuranosyluracil in the crystal and in solution. *Russian Chemical Bulletin*, **1998**, 47, 1340-1342	1.7
18	An unexpected reaction of 2-(cyclopent-2-enyl)aniline hydrochloride with dimethyldioxirane. *Russian Chemical Bulletin*, **1998**, 47, 1611-1612	1.7
17	Cyclization of 2-(1?-alkyl-2?-alkenyl)anilines in polyphosphoric acid. *Bulletin of the Academy of Sciences of the USSR Division of Chemical Science*, **1990**, 39, 2551-2554	
16	Synthesis of alkenylquinolines and cyclization of (1-methyl-2-butenyl)quinaldines in polyphosphoric acid. *Chemistry of Heterocyclic Compounds*, **1990**, 26, 1137-1139	1.4
15	Claisen rearrangement of sterically hindered N-alkenylindolines. *Bulletin of the Academy of Sciences of the USSR Division of Chemical Science*, **1987**, 36, 561-565	
14	Claisen rearrangement and cyclization of N-alkenyl-1,2,3,4-tetrahydroquinolines. *Bulletin of the Academy of Sciences of the USSR Division of Chemical Science*, **1988**, 37, 1657-1661	
13	The spontaneous claisen rearrangement of N-(1-methyl-2-butenyl)-2-methyl-2-ethylindoline hydrochloride. *Bulletin of the Academy of Sciences of the USSR Division of Chemical Science*, **1985**, 34, 1116-1116	
12	Cyclization of 2-(l-methyl-2-butenyl)aniline in polyphosphoric acid. *Bulletin of the Academy of Sciences of the USSR Division of Chemical Science*, **1983**, 32, 1964-1964	
11	Photochemical synthesis of 1-ethylperhydrocyclopent[b]indoline. *Bulletin of the Academy of Sciences of the USSR Division of Chemical Science*, **1983**, 32, 1965-1965	
10	Histomorphometric study of rat liver during the treatment of the acute toxic injury. *Gigiena I Sanitariia*, **2021**, 100, 1283-1286	0.4
9	STERIC COMPLEMENTARITY OF CONJUGATES OF SOME DERIVATIVES OF 5-AMINOAND 5-HYDROXY-6-METHYLURACIL WITH BENZOIC ACID WITH THYMIDYLATE KINASE OF THE HUMAN HERPES SIMPLEX VIRUS TYPE 1 **2021**, 975	0.1
8	EFFECT OF SYNTHESIS CONDITIONS ON THE LUMINESCENCE PROPERTIES OF POLY[2-(CYCLOHEX-2-EN-1-YL)ANILINE] **2021**, 640	0.1
7	Synthesis of Poly(2-(cyclopent-2-en-1-yl)aniline) and Investigation of Its Electrophysical and Physicochemical Properties. *Physics of the Solid State*, **2019**, 61, 2233-2240	0.8
6	Classification of raw sugar by PCA of voltammetric signals from tube electrodes. *New Journal of Chemistry*, **2021**, 45, 13512-13518	3.6
5	Functionalized polyanilines: influence of the surface morphology on the electrophysical and sensory properties of thin films based on them. *Letters on Materials*, **2021**, 11, 140-145	0.9
4	On the Change in the Component Composition of Straight-Run Fuel Oil Distillate by Catalytic Cracking in the Presence of Zinc, Nickel, and Iron 2-Ethylhexanoates. *Petroleum Chemistry*, **2018**, 58, 1051-1055	1.1
3	Efficient Synthesis of Poly(2-ethyl-3-methylindole). *Russian Journal of Organic Chemistry*, **2021**, 57, 1176-1179	0.7

2	Influence of Solvent upon Reactive Capacity of Ozone in Respect of 1,3-Dimethyl-Substituted Uracils. *Ozone: Science and Engineering*,1-8	2.4
1	Hepatoprotective efficacy of the use of oxymethyl uracil in various experimental models. *Gigiena I Sanitariia*, **2021**, 100, 1278-1282	0.4