

Airat Khamatgalimov

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Open-shell fullerene C74: phenalenyl-radical substructures. <i>Chemical Physics Letters</i> , 2003, 377, 263-268.	1.2	54
2	Cationic amphiphiles bearing imidazole fragment: From aggregation properties to potential in biotechnologies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 529, 990-997.	2.3	43
3	Zn and Co redox active coordination polymers as efficient electrocatalysts. <i>Dalton Transactions</i> , 2019, 48, 3601-3609.	1.6	41
4	Regularities in the molecular structures of stable fullerenes. <i>Russian Chemical Reviews</i> , 2006, 75, 981-988.	2.5	33
5	Synthesis and characterization of new second-order NLO chromophores containing the isomeric indolizine moiety for electro-optical materials. <i>Dyes and Pigments</i> , 2017, 147, 444-454.	2.0	32
6	Composite materials containing chromophores with 3,7-(di)vinylquinoxalinone π -electron bridge doped into PMMA: Atomistic modeling and measurements of quadratic nonlinear optical activity. <i>Dyes and Pigments</i> , 2018, 158, 131-141.	2.0	29
7	High thermally stable π -A chromophores with quinoxaline moieties in the conjugated bridge: Synthesis, DFT calculations and physical properties. <i>Dyes and Pigments</i> , 2018, 156, 175-184.	2.0	27
8	D- π -A chromophores with a quinoxaline core in the π -bridge and bulky aryl groups in the acceptor: Synthesis, properties, and femtosecond nonlinear optical activity of the chromophore/PMMA guest-host materials. <i>Dyes and Pigments</i> , 2021, 184, 108801.	2.0	27
9	Synthesis and antimicrobial activity evaluation of some novel water-soluble isatin-3-acylhydrazones. <i>Monatshefte für Chemie</i> , 2018, 149, 111-117.	0.9	24
10	Experimental vibrational spectra and computational study of 1,4-diazabicyclo[2.2.2]octane. <i>Journal of Molecular Structure</i> , 2012, 1028, 134-140.	1.8	23
11	Push-pull isomeric chromophores with vinyl- and divinylquinoxaline-2-one units as π -electron bridge: Synthesis, photophysical, thermal and electro-chemical properties. <i>Dyes and Pigments</i> , 2017, 146, 82-91.	2.0	23
12	Electronic Structure and Stability of Fullerene C ₈₂ Isolated-Pentagon-Rule Isomers. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12315-12320.	1.1	22
13	Large nonlinear optical activity of chromophores with divinylquinoxaline conjugated π -bridge. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 370, 58-66.	2.0	22
14	Unusual pentagon and hexagon geometry of three isomers (no 1, 20, and 23) of fullerene C ₈₄ . <i>International Journal of Quantum Chemistry</i> , 2008, 108, 1334-1339.	1.0	19
15	Electronic Structure and Stability of C ₈₀ Fullerene IPR Isomers. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2011, 19, 599-604.	1.0	19
16	Structural aspects of partial solid solution formation: two crystalline modifications of a chiral derivative of 1,5-dihydro-2 <i>H</i> -pyrrol-2-one under consideration. <i>CrystEngComm</i> , 2017, 19, 7277-7286.	1.3	18
17	Molecular structures of unstable isolated-pentagon-rule fullerenes C72-C86. <i>Russian Chemical Reviews</i> , 2016, 85, 836-853.	2.5	16
18	Aggregation Capacity and Complexation Properties of a System Based on an Imidazole-Containing Amphiphile and Bovine Serum Albumin. <i>Russian Journal of General Chemistry</i> , 2017, 87, 2826-2831.	0.3	16

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19	Isomeric indolizine-based π -expanded push-pull NLO-chromophores: Synthesis and comparative study. <i>Journal of Molecular Structure</i> , 2018, 1156, 74-82.	1.8	16
20	A nickel-based pectin coordination polymer as an oxygen reduction reaction catalyst for proton-exchange membrane fuel cells. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 780-784.	3.0	15
21	Deformation and thermodynamic instability of a C ₈₄ fullerene cage. <i>Russian Journal of Physical Chemistry A</i> , 2010, 84, 636-641.	0.1	13
22	Stability of Isolated-Pentagon-Rule Isomers of Fullerene C ₇₆ . <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 148-152.	1.0	13
23	Nonlinear optical activity of push-pull indolizine-based chromophores with various acceptor moieties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 764-772.	2.0	13
24	Substructural Approach for Assessing the Stability of Higher Fullerenes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3760.	1.8	10
25	The structure of fullerene C ₆₆ , which does not obey the rule of isolated pentagons, and endohedral metallofullerene Sc ₂ @C ₆₆ : Quantum-chemical calculations. <i>Russian Journal of Physical Chemistry A</i> , 2008, 82, 1164-1169.	0.1	9
26	Stability of the Non-IPR Isomers 6140 (D ₃) and 6275 (D ₃) of Fullerene C ₆₈ . <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008, 16, 542-545.	1.0	9
27	IR and Raman spectra, hydrogen bonds, and conformations of N-(2-hydroxyethyl)-4,6-dimethyl-2-oxo-1,2-dihydropyrimidine (drug Xymedone). <i>Russian Chemical Bulletin</i> , 2012, 61, 1199-1206.	0.4	9
28	24 IPR isomers of fullerene C ₈₄ : Cage deformation as geometrical characteristic of local strains. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 1055-1065.	1.0	9
29	Synthesis and physicochemical properties of antianemic iron and calcium complexes with sodium polygalacturonate. <i>Doklady Physical Chemistry</i> , 2016, 467, 45-48.	0.2	9
30	Investigation of hydrogen bonding in p-sulfonatocalix[4]arene and its thermal stability by vibrational spectroscopy. <i>Journal of Molecular Structure</i> , 2019, 1195, 403-410.	1.8	9
31	Indolizine-based chromophores with octatetraene π -bridge and tricyanofurane acceptor: Synthesis, photophysical, electrochemical and electro-optic properties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 386, 112125.	2.0	9
32	Kinetic Analysis of the Thermal Decomposition of Lowland and High-Moor Peats. <i>Solid Fuel Chemistry</i> , 2020, 54, 154-162.	0.2	9
33	Radical IPR Fullerenes C ₇₄ (D _{3h}) and C ₇₆ (T _d): Dimer, Trimer, etc. <i>Experiments and Theory. Journal of Physical Chemistry C</i> , 2018, 122, 3146-3151.	1.5	8
34	Mitochondria-targeted mesoporous silica nanoparticles noncovalently modified with triphenylphosphonium cation: Physicochemical characteristics, cytotoxicity and intracellular uptake. <i>International Journal of Pharmaceutics</i> , 2021, 604, 120776.	2.6	7
35	Ythrene: From the Real Radical Fullerene Substructure to Hypothetical (yet?) Radical Molecules. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1954-1959.	1.5	6
36	Thermally Stable Nitrothiacalixarene Chromophores: Conformational Study and Aggregation Behavior. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6916.	1.8	6

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37	Features of molecular structure of small non-IPR fullerenes: the two isomers of C ₅₀ . Theoretical Chemistry Accounts, 2020, 139, 1.	0.5	6
38	Electronic structure and stability of C ₈₆ fullerene Isolatedâ€Pentagonâ€Rule isomers. International Journal of Quantum Chemistry, 2011, 111, 2966-2971.	1.0	5
39	Stabilization of IPR open-shell fullerenes C ₇₄ (D _{3h}) and C ₇₆ (T _d) in radical addition reactions. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 128-132.	1.0	5
40	On the Effect of the Nature of Substituents on the Antimicrobial Activity of Water-Soluble Acylhydrazones on the Isatin Scaffold. Doklady Chemistry, 2020, 494, 136-140.	0.2	5
41	Design of Novel 4-Aminobenzofuroxans and Evaluation of Their Antimicrobial and Anticancer Activity. International Journal of Molecular Sciences, 2020, 21, 8292.	1.8	5
42	Open-shell nature of non-IPR fullerene D ₂ h: isomers 29 (C ₂) and 40 (T _d). Journal of Molecular Modeling, 2021, 27, 22.	0.8	5
43	ELECTRONIC STRUCTURE AND STABILITY OF HIGHER FULLERENES. , 2007, , 437-441.		5
44	Electronic structures of some of C ₈₄ fullerene isomers and the structures of their perfluoroalkyl derivatives. Russian Journal of Physical Chemistry A, 2014, 88, 103-107.	0.1	4
45	Molecular structures of the open-shell IPR isomers of fullerene C ₉₀ . Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 179-184.	1.0	4
46	Thermogravimetric and kinetic analyses of the thermal decomposition of fuel wood. Solid Fuel Chemistry, 2017, 51, 83-87.	0.2	4
47	New polymethacrylic nonlinear optical materials containing multichromophores in the side chain. Mendeleev Communications, 2018, 28, 272-274.	0.6	4
48	The key feature of instability of small non-IPR closed-shell fullerenes: three isomers of C ₄₀ . Mendeleev Communications, 2020, 30, 725-727.	0.6	4
49	Chemoselective oxidation of 1-alkenylisatins with m-chloroperbenzoic acid. Synthesis of new derivatives of isatoic anhydride. Russian Journal of General Chemistry, 2015, 85, 2030-2036.	0.3	3
50	New complexes of pectic polysaccharides with nonsteroidal anti-inflammatory drugs. Russian Chemical Bulletin, 2020, 69, 572-580.	0.4	3
51	DFT Quantum-Chemical Calculation of Thermodynamic Parameters and DSC Measurement of Thermostability of Novel Benzofuroxan Derivatives Containing Triazidoisobutyl Fragments. International Journal of Molecular Sciences, 2022, 23, 1471.	1.8	3
52	Nanosized carriers for hydrophobic compounds based on mesoporous silica: synthesis and adsorption properties. Russian Chemical Bulletin, 2019, 68, 1358-1365.	0.4	2
53	Methacrylic copolymers with quinoxaline chromophores in the side chain exhibiting quadratic nonlinear optical response. Journal of Applied Polymer Science, 2022, 139, .	1.3	2
54	Molecular weight parameters of cellulose nitrates modified with alcohols. Russian Journal of General Chemistry, 2014, 84, 758-762.	0.3	1

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55	Synthesis, Self-Association, and Solubilizing Ability of an Amphiphilic Derivative of Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	0.3	1
56	Synthesis, Physicochemical Properties and Anti-Fatigue Effect of Magnesium, Zinc and Chromium Polygalacturonate Based Composition. ChemistrySelect, 2019, 4, 4331-4338.	0.7	1
57	Radical character of non-IPR isomer 17418 (C1) of fullerene C76. Fullerenes Nanotubes and Carbon Nanostructures, 2021, 29, 678-684.	1.0	1
58	Reaction of rhodium trichloride with oxyethylated calix[4]resorcinarene. Russian Journal of General Chemistry, 2010, 80, 478-484.	0.3	0
59	Fullerenes C100 and C108: new substructures of higher fullerenes. Structural Chemistry, 2021, 32, 2283-2290.	1.0	0
60	Features of molecular structures of some IPR isomers of C96 fullerene. Structural Chemistry, 0, , 1.	1.0	0
61	Radical character of non-IPR isomer 28324 of C80 fullerene. Russian Chemical Bulletin, 2021, 70, 1651-1656.	0.4	0
62	Instability of molecular structure of non-IPR isomer 17984 (C1) of the C76 fullerene and probable ways of its stabilization. Butlerovskie Soobsheniya, 2020, 63, 1-9.	0.1	0