

Rustem R Zairov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Rational design of efficient nanosensor for glyphosate and temperature out of terbium complexes with 1,3-diketone calix[4]arenes. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130845.	7.8	6
2	Catalytic combustion of heavy oil using Fe^{3+} - Fe_2O_3 nanocatalyst in in-situ combustion process. <i>Journal of Petroleum Science and Engineering</i> , 2022, 209, 109819.	4.2	7
3	Silica-Supported Assemblage of CuII Ions with Carbon Dots for Self-Boosting and Glutathione-Induced ROS Generation. <i>Coatings</i> , 2022, 12, 97.	2.6	9
4	An efficient $\text{Fe}_2\text{O}_3/\text{FeS}$ heterostructures water oxidation catalyst. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 22340-22347.	7.1	28
5	Role of PSS-based assemblies in stabilization of Eu and Sm luminescent complexes and their thermoresponsive luminescence. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 217, 112664.	5.0	6
6	1,3-Diketone Calix[4]arene Derivatives—A New Type of Versatile Ligands for Metal Complexes and Nanoparticles. <i>Molecules</i> , 2021, 26, 1214.	3.8	25
7	Tailoring of silica nanoarchitecture to optimize $\text{Cu}(2\text{~}x)\text{S}$ based image-guided chemodynamic therapy agent. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 626, 126996.	4.7	7
8	Single Excited Dual Band Luminescent Hybrid Carbon Dots-Terbium Chelate Nanothermometer. <i>Nanomaterials</i> , 2021, 11, 3080.	4.1	12
9	Terbium(III)-thiacalix[4]arene nanosensor for highly sensitive intracellular monitoring of temperature changes within the 303–313 Å range. <i>Scientific Reports</i> , 2020, 10, 20541.	3.3	10
10	Paramagnetic Relaxation Enhancement in Hydrophilic Colloids Based on Gd(III) Complexes with Tetrathia- and Calix[4]arenes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4320-4329.	3.1	17
11	Green Fluorescent Terbium (III) Complex Doped Silica Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3139.	4.1	15
12	Trapping of Gd(III) Ions by Keplerate Polyanionic Nanocapsules in Water: A ^1H Fast Field Cycling NMR Relaxometry Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18095-18102.	3.1	7
13	Dual red-NIR luminescent Eu Yb heterolanthanide nanoparticles as promising basis for cellular imaging and sensing. <i>Materials Science and Engineering C</i> , 2019, 105, 110057.	7.3	12
14	Silica nanoparticles with dual visible–NIR luminescence affected by silica confinement of Tb(III) and Yb(III) complexes for cellular imaging application. <i>Journal of Materials Science</i> , 2019, 54, 9140-9154.	3.7	11
15	Unusual magnetic relaxation behavior of hydrophilic colloids based on gadolinium(III) octabutoxyphthalocyaninate. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	23
16	Polyelectrolyte-coated ultra-small nanoparticles with Tb(III)-centered luminescence as cell labels with unusual charge effect on their cell internalization. <i>Materials Science and Engineering C</i> , 2019, 95, 166-173.	7.3	8
17	Tuning magnetic relaxation properties of “hard cores” in core-shell colloids by modification of “soft shell”. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 162, 52-59.	5.0	19
18	One-pot embedding of iron oxides and Gd(III) complexes into silica nanoparticles—Morphology and aggregation effects on MRI dual contrasting ability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 559, 60-67.	4.7	22

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19	Silica-supported silver nanoparticles as an efficient catalyst for aromatic C-H alkylation and fluoroalkylation. <i>Dalton Transactions</i> , 2018, 47, 9608-9616.	3.3	27
20	Polystyrenesulfonate-coated nanoparticles with low cytotoxicity for determination of copper(II) via the luminescence of Tb(III) complexes with new calix[4]arene derivatives. <i>Mikrochimica Acta</i> , 2018, 185, 386.	5.0	13
21	Tb(III) complexes with nonyl-substituted calix[4]arenes as building blocks of hydrophilic luminescent mixed polydiacetylene-based aggregates. <i>Journal of Molecular Liquids</i> , 2018, 268, 463-470.	4.9	6
22	High performance magneto-fluorescent nanoparticles assembled from terbium and gadolinium 1,3-diketones. <i>Scientific Reports</i> , 2017, 7, 40486.	3.3	34
23	Hydration number: crucial role in nuclear magnetic relaxivity of Gd(III) chelate-based nanoparticles. <i>Scientific Reports</i> , 2017, 7, 14010.	3.3	22
24	Tuning the non-covalent confinement of Gd(III) complexes in silica nanoparticles for high T1-weighted MR imaging capability. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 149, 243-249.	5.0	26
25	Nanoparticles based on gadolinium(iii) and europium(iii) complexes for biovisualization. <i>Russian Chemical Bulletin</i> , 2016, 65, 1325-1331.	1.5	11
26	Structure impact in antenna effect of novel upper rim substituted tetra-1,3-diketone calix[4]arenes on Tb(III) green and Yb(III) NIR-luminescence. <i>Tetrahedron</i> , 2016, 72, 2447-2455.	1.9	30
27	Polyelectrolyte-Stabilized Nanotemplates Based on Gd(III) Complexes with Macrocyclic Tetra-1,3-diketones as a Positive MR Contrast Agents. <i>ChemistrySelect</i> , 2016, 1, 1377-1383.	1.5	15
28	Interfacial interactions of hard polyelectrolyte-stabilized luminescent colloids with substrates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 482, 231-240.	4.7	18
29	Impact of polyelectrolyte coating in fluorescent response of Eu(III)-containing nanoparticles on small chelating anions including nucleotides. <i>Surface and Coatings Technology</i> , 2015, 271, 242-246.	4.8	8
30	Water transverse relaxation rates in aqueous dispersions of superparamagnetic iron oxide nanoclusters with diverse hydrophilic coating. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 443, 450-458.	4.7	17
31	Polymethoxyphenyl-substituted [2-(5-chloro-2-hydroxy-4-methylphenyl)-2-phenylvinyl]phosphine oxides: Synthesis and complexation with Eu(TTA) ₃ . <i>Russian Journal of Organic Chemistry</i> , 2014, 50, 547-551.	0.8	7
32	A facile synthetic route to convert Tb(iii) complexes of novel tetra-1,3-diketone calix[4]resorcinarene into hydrophilic luminescent colloids. <i>New Journal of Chemistry</i> , 2014, 38, 4130-4140.	2.8	20
33	Corrigendum to "Water transverse relaxation rates in aqueous dispersions of superparamagnetic iron oxide nanoclusters with diverse hydrophilic coating" [<i>Colloids Surf. A: Physicochem. Eng. Asp.</i> 443 (2014) 450-458]. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 453, 176.	4.7	0
34	Determination of fluoroquinolone antibiotics through the fluorescent response of Eu(III) based nanoparticles fabricated by layer-by-layer technique. <i>Analytica Chimica Acta</i> , 2013, 784, 65-71.	5.4	32
35	The effect of the core morphology of Eu(III)-doped nanoparticles on the ion exchange versus energy transfer between Eu(III) in the core and Cu(II) ions at the interface. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	16
36	Synthesis and photophysical properties of colloids fabricated by the layer-by-layer polyelectrolyte assembly onto Eu(III) complex as a core. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 490-496.	5.0	23

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37	The electrochemical behaviour of [Co(sep)] ³⁺ bound with p-sulfonatothiacalix[4]arene and tetracarboxy-p-sulfonatocalix[4]arene in correlation with inclusive and non-inclusive binding modes. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2011, 69, 191-199.	1.6	3
38	Extraction of lanthanum and gadolinium(III) at the cloud point using p-sulfonatocalix[n]arenes as chelating agents. <i>Colloid Journal</i> , 2009, 71, 69-75.	1.3	8
39	Spectral-luminescence and magnetic relaxation properties of lanthanide-p-sulfonatothiacalix[4]arenes in aqueous solution of surfactants. <i>Russian Chemical Bulletin</i> , 2008, 57, 567-572.	1.5	4
40	Reactions of heteroaromatic chromophores with lanthanide complexes of p-sulfonatothiacalix[4]arene. <i>Russian Chemical Bulletin</i> , 2008, 57, 1905-1911.	1.5	2
41	Heterometallic Co ^{III} -Ln ^{III} (Ln = Gd, Tb, Dy) Complexes on a p-sulfonatothiacalix[4]arene Platform Exhibiting Redox-Switchable Metal-Metal Energy Transfer. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 3957-3963.	2.0	19
42	Cloud point extraction of lanthanide(III) ions via use of Triton X-100 without and with water-soluble calixarenes as added chelating agents. <i>Talanta</i> , 2006, 68, 863-868.	5.5	52