

**ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ УЧРЕЖДЕНИЕ НАУКИ ИНСТИТУТ ОБЩЕЙ И НЕОРГАНИЧЕСКОЙ ХИМИИ ИМ. Н.С.
КУРНАКОВА РОССИЙСКОЙ АКАДЕМИИ НАУК**

Центр коллективного пользования физическими методами исследования веществ и материалов

Перечень публикаций, подготовленных по результатам работ, выполненных с использованием научного оборудования ЦКП за 2025 год

No	ID	Вид публикации	Наименование публикации	DOI публикации	Автор(ы)	Издание, номер, год	ISSN / ISBN издания	Индексация издания	Краткое описание научных результатов	Наличие в публикации ссылки на ЦКП	Страница, содержащая ссылку на ЦКП
1	1A	2	3	4	5	6	7	8	9	10	11
1	23929	статья	ПОЛУЧЕНИЕ И ИССЛЕДОВАНИЕ КОМПОЗИТА НА ОСНОВЕ ВОССТАНОВЛЕННОГО ОКСИДА ГРАФЕНА И НАНОЧАСТИЦ Fe ₃ O ₄	10.7868/S3034560X25080138	Ибрагимова В Р, Иони Ю В, Рустамова Е Г, Кудряшова З А, Ефремова Е И, Сапков И В	ЖУРНАЛ НЕОРГАНИЧЕСКОЙ ХИМИИ, 2025	0044 457X	Белый список, ВАК	В исследовании предложен новый метод получения проводящего композита на основе восстановленного оксида графена (BOГ), на поверхности которого диспергированы наночастицы (НЧ) магнетита со средним диаметром 18 нм.	Да	295
2	24061	журнал	Study of Sorption Activity of Carbon Nanomaterials for Capture of Chlorine-Containing Gases	10.3390/cleantechnol7020039	Ioni Yulia, Ibragimova Victoria	Clean Technologies, 2, 2025	2571-8797	Белый список	Chlorine gas and hydrogen chloride are highly reactive chemicals that pose a significant hazard to living organisms upon direct contact. Also, chlorine-containing gases are often by-products of industrial chemical synthesis and can be released into the air as a result of accidents. This can lead to great pollution of the environment. To remove toxic gases, various filter systems can be used. Filters based on carbon nanomaterials can be suitable for capturing gaseous chlorine-containing substances, preventing their spread into the air. In this work, the sorption activity of various carbon-based nanomaterials (graphene oxide, modified graphene oxide, reduced graphene oxide, multi-walled carbon nanotubes, carbon black) in relation to gaseous chlorine and hydrogen chloride was investigated for the first time. It has been shown that employed carbon nanomaterials have an excellent ability to remove chlorine and hydrogen chloride from the air, exceeding the performance of activated carbon. Modified graphene oxide with an increased surface area showed the highest sorption capacity of 73.1 mL HCl and 200.0 mL Cl₂ per gram of the sorbent, that is almost two and five times, respectively, higher than that of activated carbon. The results show that carbon nanomaterials could potentially be used for industrial filters and membrane fabrication.	Да	1095
3		журнал			Simonenko T L		3034-560X			Да	1892

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1	1A	2	3	4	5	6	7	8	9	10	11
	24067		OXIDATION PROCESS AND ELECTROCHEMICAL PROPERTIES OF MoS FILMS FORMED UNDER HYDROTHERMAL CONDITIONS	10.7868/s3034560x25120031		Журнал неорганической химии / Russian Journal of Inorganic Chemistry, 12, 2025			<jats:p>The effect of oxidation conditions on the crystal structure, microstructural features, and electrochemical properties of molybdenum disulfide films grown under hydrothermal conditions on the surface of carbon paper substrates was studied. It was shown that additional heat treatment in an aqueous medium at 50°C leads to a partial transformation of the 1T/2H phase of MoS with the formation of molybdenum dioxide, whereas heat treatment in air at 350°C leads to complete oxidation of molybdenum disulfide to the α-modification of molybdenum(VI) oxide, characterized by an orthorhombic crystal structure. Scanning electron microscopy data confirm the formation of hierarchically organized films consisting of curved nanosheets in all cases. Moreover, the thickness of the nanosheets varies from 17 to 25 nm, depending on the post-processing conditions of the resulting films. X-ray elemental microanalysis allowed us to trace changes in the chemical composition of the samples as a result of their oxidation and to build maps of the element distribution across the studied material surface. Results from the electrochemical characteristics of the samples indicate that the MoS film exhibits the highest specific capacitance values, reaching 123 F/g, while oxidation of the material in an aqueous medium or air atmosphere leads to a decrease in this parameter.</jats:p>		
4	24070	журнал	Hydrophobic GeO ₂ Aerogels by an Epoxide-Induced Process	10.3390/gels11040225	Golodukhina Svetlana V, Veselova Varvara O, Son Alexandra G, Kopitsa Gennady P, Volkov Vladimir V, Subcheva Elena N, Kottsov Sergey Yu, Gajtko Olga M	Gels, 4, 2025	2310-2861	РИНЦ, Белый список	<jats:p>This article reports a new straightforward method for producing hydrophobic GeO ₂ aerogels in a one-pot synthesis. For the first time, the epoxide-induced sol-gel process was combined with the co-precursor method to create hydrophobic aerogels. The application of a complex of analytical methods like SEM, TEM, low-temperature nitrogen adsorption-desorption, SAXS and contact angle measurements enabled us to determine that varying the GeCl ₄ :(C ₂ H ₅) ₂ GeCl ₂ ratio allows for targeted adjustments in the morphology, porous structure, and surface properties of aerogels. As the proportion of (C ₂ H ₅) ₂ GeCl ₂ grows, the surface area increases from 45 to 123 m ² •g ⁻¹ and the contact angle changes from 22.1 to 140.1°. Luminescent properties of the hydrophobic GeO ₂ aerogels are reported for the first time, and it is established that the ratio of green and blue bands in the luminescence spectra when excited under 390 and 235 nm varies depending on the GeCl ₄ :(C ₂ H ₅) ₂ GeCl ₂ ratio used for the aerogel preparation.</jats:p>	Да	224
5		журнал				Thermo, 3, 2025	2673-7264			Да	16

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1	1A	2	3	4	5	6	7	8	9	10	11
	24071		Double Complex Salt [Co(NH ₃) ₆][Fe(CN) ₆] Plasma Treatment	10.3390/the-rmo5030036	Golubev Oleg, Kulikova Mayya, Ivantsov Mihail, Manukovskaya Diana, Grabchak Alena, Svidersky Sergei, Vinogradov Vladimir, Gosteva Alevtina				<jats:p>The method of obtaining functional materials almost always influences the physicochemical properties of the resulting substances. The plasma treatment of solid materials is considered to be a more energy efficient method when compared with thermal destruction. Our work is the first to treat double complex salt (DCS) [Co(NH ₃) ₆][Fe(CN) ₆] with different plasma discharge modes. We have demonstrated the possibility of obtaining a single-phase spinel with a CoFe ₂ O ₄ structure as a result of the calcination in air of the plasma destruction product. The crystallite sizes of the obtained spinel are 40 nm, with a lattice constant 8.38 Å.</jats:p>		
6	24072	журнал	Balancing heat and pulse width in laser texturing of Al-Mg alloy: Superhydrophobicity with wear, icing, and corrosion control	10.1016/j.surfcoat.2025.132876	Emelyanenko Kirill A, Boinovich Ludmila B, Emelyanenko Alexandre M, Teplonogova Maria A	Surface and Coatings Technology, 2025	0257-8972	РИНЦ, Белый список	Не указано	Да	132874
7	24074	журнал	Manganese and phosphate removal from culture medium during the growth of the bacterium Sphaerotilus montanus	10.1007/s12223-025-01323-y	Kulakovskaya Tatiana, Vainshtein Mikhail, Teplonogova Maria, Tikhonov Konstantin, Ostroumov Vladimir, Zvonarev Anton, Khokhlova Galina	Folia Microbiologica, 2025	0015-5632	Белый список	Не указано	Да	9
8	24076	журнал	Magnetic properties of La ₂ M ₄ Sb ₂ O ₁₂ , M = Ni, Co with CaFe ₂ O ₄ -type superstructure	10.1016/j.jmmm.2025.173020	Egorysheva Anna V, Kirdyankin Denis I, Bezzubov Stanislav I, Razvorotneva Lada S, Golodukhina Svetlana V, Ellert Olga G	Journal of Magnetism and Magnetic Materials, 2025	0304-8853	РИНЦ, Белый список	Не указано	Да	173018
9	24080	журнал	Light-responsible ECM-mimetic scaffolds for neural differentiation. Intracellular versus extracellular photothermal stimulation	10.1016/j.smaim.2025.02.002	Kochetkova Olga Y, Kanev Igor L, Tailakov Maxim, Antonova Olga Y	Smart Materials in Medicine, 1, 2025	2590-1834	Белый список	Не указано	Да	10
10	24082	журнал	Submicron particles of Cr-substituted strontium hexaferrite: anomalous X-ray diffraction studies, hard magnetic properties, millimeter-wave absorption, and research prospects	10.1039/d5mh00425j	Lebedev Vasily A, Trusov Lev A, Sobolev Alexey V, Soboleva Iana S, Roslyakov Ilya V, Cervellino Antonio, Alyabyeva Liudmila N, Kozlyakova Ekaterina S, Gorbachev Evgeny A	Materials Horizons, 15, 2025	2051-6355	РИНЦ, Белый список	<jats:p>Cr-substituted hexaferrites achieve high coercivity (13.9 kOe) and NFM frequency (129 GHz), advancing rare-earth-free magnetic and spintronic materials.</jats:p>	Да	5896

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1	1A	2	3	4	5	6	7	8	9	10	11
11	24085	журнал	Waveguide-Assisted Magneto-Optical Effects in 1D Garnet/Co/Au Plasmonic Crystals	10.3390/photonics12070728	Kolmychek Irina, Gusev Sergei, Murzina Tatiana, Fedotov Ilya, Gusev Nikita, Novikov Vladimir, Dotsenko Andrey	Photonics, 7, 2025	2304-6732	РИНЦ, Белый список	<jats:p>Magneto-plasmonic structures have been a subject of tremendous attention of researchers in recent decades as they provide unique approaches regarding the efficient control of optical, magneto-optical, and nonlinear-optical effects. Among others, magneto-plasmonic crystals (MPCs) have become one of the most studied structures, known for their high-quality tunable resonant optical properties. Here, we present the results of experimental and numerical studies on the functional magneto-optical (MO) response of planar 1D plasmonic crystals composed of Co/Au stripes of submicron period on the surface of a 3 μm thick rare-earth garnet layer. The experimental and numerical studies confirm that the wavelength-angular spectra of such structures contain a set of tunable resonant features in their optical and magneto-optical response, associated with the excitation of (i) surface plasmon polaritons at the Co/Au grating-garnet interface, as well as (ii) waveguide (WG) modes propagating in the garnet slab. A comparison of the MO effects in the transversal and longitudinal magnetization of the plasmonic structures is presented. We show that the most efficient Fano-type MPC magneto-optical response is realized for the WG modes of the first order for the longitudinal magnetization of the structure. Further perspectives regarding the optimization of this type of plasmonic crystal are discussed.</jats:p>	Да	727
12	24087	журнал	Ex-situ characterization of MnAs after hydrostatic pressure treatment	10.1016/j.jallcom.2024.177997	Sidorov V A, Ashurov G G, Teplonogova M A, Ril A I, Arslanov T R	Journal of Alloys and Compounds, 2025	0925-8388	РИНЦ, Белый список	Не указано	Да	8
13	24089	журнал	Efficient Corona Suppression Coatings and Their Behavior in Corrosive and Icy Environments	10.3390/materials18020254	Teplonogova Maria A, Emelyanenko Kirill A, Boinovich Ludmila B, Emelyanenko Alexandre M	Materials, 2, 2025	1996-1944	РИНЦ, Белый список	<jats:p>High-voltage transmission lines face significant challenges due to environmental exposure, including corona discharge, ice accretion, and corrosion, which impact their durability and operational efficiency. This study investigates the performance of hydrophilic and superhydrophilic organosilane coatings applied to high-voltage wires to address these issues. Using a combination of experimental setups simulating real-world conditions, we evaluated corona discharge losses, ice adhesion, and corrosion resistance on coated and uncoated wires. The results reveal that hydrophilic and superhydrophilic organosilane coatings offer a substantial reduction in corona discharge power losses, with a 25–60% decrease compared to bare wires. Additionally, the proposed hydrophilic coating exhibits ice adhesion characteristics similar to bare wires, in contrast to the higher ice adhesion	Да	253

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1	1A	2	3	4	5	6	7	8	9	10	11
									observed for superhydrophilic samples. Corrosion tests further highlight the performance of the hydrophilic coating, which reduces corrosion currents by approximately threefold compared to bare wires, demonstrating enhanced protection and long-term stability. While superhydrophilic coatings offer some advantages in corona discharge reduction, their increased ice adhesion and higher corrosion rates limit their applicability. The hydrophilic organosilane coating thus emerges as the optimal tradeoff, balancing effective corona discharge mitigation, moderating ice adhesion, and enhancing corrosion resistance, making it a promising solution for improving the performance and longevity of high-voltage transmission lines.</jats:p>		
14	24092	журнал	Peroxidase-like activity of photochromic PVP-stabilized tungsten oxide nanoparticles: assessment by independent chemiluminescent and colorimetric assays	10.17586/2220-8054-2025-16-1-22-29	Protsenko M R, Vasilyeva D N, Trufanova E A, Novoselova K N, Tronev I V, Filippova A D, Popkov M A, Sheichenko E D, Ivanov V K, Baranchikov A E, Sozarukova M M	НАНОСИСТЕМЫ: ФИЗИКА, ХИМИЯ, МАТЕМАТИКА, 1, 2025	2305-7971	РИНЦ, Белый список, ВАК	Не указано	Да	28
15	24093	журнал	Superhydrophobic epoxy coatings via pulsed laser processing	10.1016/j.porgcoat.2025.109272	Teplonogova Maria A, Boinovich Ludmila B, Emelyanenko Alexandre M, Kuzina Ekaterina A	Progress in Organic Coatings, 2025	0300-9440	РИНЦ, Белый список	Не указано	Да	109272
16	24094	журнал	Optical Ammonia Sensors Based on Spray-Coated Polyaniline Complexes with Polysulfonic Acids	10.3390/s25113348	Kabanova V A, Nekrasov A A, Demina L I, Teplonogova M A, Rodina E I, Gribkova O L	Sensors, 11, 2025	1424-3210	РИНЦ, Белый список	<jats:p>The optical ammonia-sensing properties of water-dispersible polyaniline (PANI) complexes chemically synthesized in the presence of polysulfonic acids of different structure and chain flexibility were compared for the first time. Flexible-chain poly(styrene-4-sulfonic acid) and poly-(2-acrylamido-2-methyl-1-propanesulfonic acid), as well as semi-rigid-chain poly-4,4'-(2,2'-disulfonic acid)diphenylene-iso-phthalamide and rigid-chain poly-4,4'-(2,2'-disulfonic acid)diphenylene-tere-phthalamide (t-PASA) were used. The sensor films were prepared by a convenient and scalable method—spray coating of aqueous solutions on glass substrates. The optical response time and amplitude of the sensor films in the range of ammonia concentrations from 5 to 200 ppm were investigated. To overcome the influence of humidity and presence of over-stoichiometric protons of the polyacid on the accuracy of ammonia determination treatments of the films in aqueous	Да	3350

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1	1A	2	3	4	5	6	7	8	9	10	11
									solutions of NaCl, CaCl ₂ and BaCl ₂ were tested. The treatment in 1 M CaCl ₂ solution for all of the PANI complexes results in a significant improvement in the response time, amplitude and reproducibility. The films of PANI complexes with the flexible-chain polyacids have the highest response amplitude in the range of ammonia concentrations 5-25 ppm. PANI-t-PASA film demonstrated the best sensory properties at ammonia concentrations more than 50 ppm. FTIR spectroscopy showed that CaCl ₂ treatment results in cross-linking of sulfoacid groups from adjacent polyacid chains by Ca ²⁺ ions. Thus, such a treatment results both in the neutralization of excessive protons and a significant reduction in the films' swelling at high humidity.</jats:p>		
17	24095	журнал	Superhydrophobic Coating Based on EP-140 Epoxy Enamel: A Study of Mechanical Endurance under External Actions	10.1134/s1061933x25600307	Teplonogova M A, Emelyanenko K A, Buglak A V, Kuzina E A	Colloid Journal of the Russian Academy of Sciences: Kolloidnyi Zhurnal, 3, 2025	1608-3067	РИНЦ, Белый список, ВАК	Не указано	Да	372
18	24096	журнал	Hybrid magnetic hydrogels from natural and synthetic polyanions	10.1016/j.cplett.2025.142379	Oleynikov Ilya, Yaroslavov Alexander, Knotko Alexander, Teplonogova Maria, Perov Nikolai, Alekhina Yulia, Spiridonov Vasily, Kriukova Daria	Chemical Physics Letters, 2025	0009-2614	РИНЦ, Белый список	Не указано	Да	142378
19	24118	статья	Способ синтеза наночастиц оксида и оксигидроксида железа (III) в полимерных смесях альгинат-поливиниловый спирт и альгинат-полистиролсульфонат	Не указан	Kriukova Daria , Yaroslavov Alexander , Knotko Alexander , Oleynikov Ilya , Teplonogova Maria , Perov Nikolai , Alekhina Yulia , Spiridonov Vasily	Изв. Акад. наук, 2025	2658-784X	Белый список, ВАК	Не указано	Да	754
20	24119	журнал	MORPHOLOGY AND OPTICAL PROPERTIES OF AMORPHOUS THIN FILMS (InSe)x(GaSe)100-x	10.14489/glsc.2025.04.p.022-029	Pepelyaev D V, Teplonogova M A, Kozyukhin S A	СТЕКЛО И КЕРАМИКА, 40, 2025	0131-9582	РИНЦ, Белый список, ВАК	<jats:p>Phase and elemental analysis were performed for amorphous nanosized thin films of (InSe) ₂₀ (GaSe) ₈₀ and (InSe) ₅₀ (GaSe) ₅₀ compositions, and surface morphology studies were conducted. Optical transmission studies of thin films allowed us to establish that absorption corresponds to indirect allowed transitions for these compositions in accordance with the Tauc model, while the values of the optical band gap are E _g = 1.26 eV for (InSe) ₂₀ (GaSe) ₈₀ and 1.07 eV for (InSe) ₅₀ (GaSe) ₅₀ thin films.</jats:p>	Да	29
21		статья		Не указан			0132-6651			Да	132

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1	1A	2	3	4	5	6	7	8	9	10	11
	24125		Влияние условий синтеза и консолидации нанопорошков на физико-химические свойства твердых растворов в системе (CeO ₂) _{1-x} (Dy ₂ O ₃) _x в качестве электролитов среднетемпературных топливных элементов		Мякин С.В., Локтюшкин Н.Р., Фарафонов Н.В., Дроздова И.А., Теплоногова Мария Александровна, Калинина М.В.	Физ. химия стекла, 2025		Белый список, ВАК	Методом растровой электронной микроскопии получены изображения поверхности керамики смешанных оксидов церия-диспрозия.		
22	24128	журнал	Intercalation of d- and f-Metal Malonates into Layered Yttrium Hydroxide	10.1134/s003602362560217x	Gumenyuk V M, Yapryntsev A D, Sheichenko E D	Russian Journal of Inorganic Chemistry, 8, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	1139
23	24131	журнал	UV-shielding photochromic composite films based on nanocrystalline cellulose modified with CeO ₂ and WO ₃ nanoparticles	10.1038/s41598-025-32327-w	Kameneva Svetlana V, Ivanov Vladimir K, Popkov Matvei A, Baranchikov Alexander E, Yapryntsev Alexey D, Luginina Anna A, Kozlova Taisiya O	Scientific Reports, 1, 2025	2045-2322	РИНЦ, Белый список	Не указано	Да	12
24	24133	журнал	Low-temperature phase formation in the ZrO ₂ -In ₂ O ₃ -CeO ₂ -Y ₂ O ₃ system	10.71267/mencom.7642	Baranovskaya Vasilisa Borisovna, Gusarov Victor Vladimirovich, Korotkova Natalya Aleksandrovna, Proydakova Vera Yu, Alexandrov Alexander Aleksandrovich, Almaysheva Oksana V, Fedorov Pavel Pavlovich	Mendeleeev Communications, 4, 2025	1364-551X	РИНЦ, Белый список, ВАК	<jats:p>This study provides insights into the phase transformations of In ₂ O ₃ -CeO ₂ -Y ₂ O ₃ -ZrO ₂ system under varying thermal and chemical conditions and the crystallization behavior of amorphous precursors containing 10-30 mol</jats:p>	Да	378
25	24134	журнал	The structure of polymer aerogels produced by gelation of polyamide 6,6 solutions	10.1007/s10965-025-04622-7	Baranchikov Alexander, Gorshkova Yulia, Kopitsa Gennady, Badulina Alexandra, Trufanova Evelina, Malkova Alena, Taran Glafira, Kottsov Sergey, Lermontov Sergey	Journal of Polymer Research, 10, 2025	1572-8935	РИНЦ, Белый список	Не указано	Да	12
26	24135	журнал	Impact of Alkyl Chain Length on the Properties of SiO ₂ -Based Aerogels	10.1134/s0036023625600431	Straumal E A, Lermontov S A, Postnova E Yu, Kottsov S Yu, Gozhikova I O	Russian Journal of Inorganic Chemistry, 7, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	1089
27	24136	журнал	Thermal and thermodynamic characteristics of 1-methyl-3-octyl	10.1016/j.molliq.2025.128923	Kayumova D B, Ivanov V K, Gorbunova Yu G, Baranchikov A E, Kottsov S Yu, Alikhanyan A S, Badulina A O, Malkerova I P	Journal of Molecular Liquids, 2025	0167-7322	РИНЦ, Белый список	Не указано	Да	128923

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			imidazolium tetrafluoroborate [C8C1Im][BF4] according to Knudsen Effusion Mass Spectrometry (KEMS)								
28	24137	статья	Формирование упорядоченных твердых растворов Ba1-xLnxF2+x при низкотемпературном синтезе из растворов в расплаве нитрата натрия	Не указан	Александров Александр, Баранчиков Александр, Кузнецов Сергей, Федоров Павел	Доклады Российской академии наук. Химия, науки о материалах, 2025	2686-9535	Белый список, ВАК	Не указано	Да	57
29	24138	журнал	Microheater-based catalytic hydrogen sensor: Operando X-ray absorption spectroscopy study of Pd-Pt catalyst chemistry	10.1016/j.ijhydene.2025.151472	Roslyakov I V, Napolskii K S, Khmelenin D N, Khramov E V, Kolesnik I V, Kalinin I A	International Journal of Hydrogen Energy, 2025	0360-3199	РИНЦ, Белый список, ВАК	Не указано	Да	151472
30	24139	журнал	Foreign Body Reaction to Neural Implants: A Comparative Study of Polymer Toxicity and Tissue Response	10.3390/bios15090599	Makievskaya Ciara, Popkov Vasily, Plotnikov Egor, Lebedev Mikhail, Petrov Alexander, Evdokimov Pavel, Putlayev Valery, Kozlov Daniil, Bushkova Tatiana, Gancharova Olga, Zeinalova Alina, Naumova Gelena, Solovyova Maria, Kelm Evgeny, Andrianova Nadezda, Brezgunova Anna	Biosensors, 9, 2025	2079-6374	РИНЦ, Белый список	<jats:p>This study investigated the toxicity of ten polymer materials intended for the development of invasive neural interfaces improving the treatment of neurological diseases. Most of the materials for neural implants can cause traumatization of the surrounding tissue, inflammation, and foreign body reaction. In this study, in vitro and in vivo toxicity assessment was performed for nylon 618 (NY), polycaprolactone (PCL), polyethylene glycol diacrylate (PEGDA), polydimethylsiloxane (PDMS), polyethylene terephthalate (PET), polylactide (PLA), thermoplastic polyurethane (TPU), polypropylene (PP), polyethylene terephthalate glycol (PET-G), and polyimide (PI). The biocompatibility of these ten materials was assessed based on cell adhesion, growth and cytotoxicity on neural (PC-12) and fibroblast (NRK-49F) cultures. Furthermore, brain tissue responses to the implanted phantom scaffolds were analyzed in rats. According to these measurements, PI showed the highest compatibility for both cell types. PEGDA exhibited cytotoxic effects, low cell adhesion and the strongest foreign body reaction, including fibrosis and multinucleated cell formation. The other polymers showed lower pathological responses which makes them potentially usable for neural interfacing. We conclude that PEGDA appears to be unsuitable	Да	599

No	ID	Вид публикации	Наименование публикации	DOI публикации	Автор(ы)	Издание, номер, год	ISSN / ISBN издания	Индексация издания	Краткое описание научных результатов	Наличие в публикации ссылки на ЦКП	Страница, содержащая ссылку на ЦКП
1	1A	2	3	4	5	6	7	8	9	10	11
									for long-term use due to adverse tissue and cellular reactions, whereas PI, PLA, PDMS and TPU hold promise as materials for safe and effective neural interface applications.</jats:p>		
31	24140	журнал	SERS in opal-type stripe patterned structures with metal coating	10.1016/j.photonics.2025.101384	Perevedentseva Elena, Klimonsky Sergey, Grigorieva Anastasia, Kozlov Daniil, Ezhov Alexander, Dorofeev Sergey, Shevchenko Mikhail, Melnik Nikolay, Astafurov Mikhail	Photonics and Nanostructures - Fundamentals and Applications, 2025	1569-4429	РИНЦ, Белый список	Не указано	Да	101384
32	24141	журнал	Structure and Thermal Behavior of Novel Double Ceri Phosphates RbCe ₂ (PO ₄) ₃ and Rb ₂ Ce(PO ₄) ₂ ·xH ₂ O	10.1134/s003602362560193x	Vasilyeva D N, Ivanov V K, Kozlova T O, Simonenko N P, Protchenko M R, Kozlov D A	Russian Journal of Inorganic Chemistry, 7, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	950
33	24142	журнал	Hydrothermal Synthesis of K ₂ Ce(PO ₄) ₂ ·xH ₂ O and Analysis of Its Photoprotective Properties	10.1134/s0036023625602223	Kozlov D A, Simonenko N P, Popov A L, Savintseva I V, Vasilyeva D N, Kozlova T O	Russian Journal of Inorganic Chemistry, 8, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	1149
34	24143	журнал	AMORPHOUS AND CRYSTALLINE TITANIUM-AMMONIUM PHOSPHATES: SYNTHESIS, PHOTOCATALYTIC AND PHOTOPROTECTIVE PROPERTIES	10.7868/s3034560x25090025	Kolesnik I V	Журнал неорганической химии / Russian Journal of Inorganic Chemistry, 9, 2025	3034-560X		<jats:p>Amorphous and crystalline titanium-ammonium phosphates TiOH(PO) ₄ [(NH) ₄ PO ₄] were synthesized by the hydrothermal method. It is shown that the minimum temperature and processing time for the crystallization of the TiOH(PO) ₄ [(NH) ₄ PO ₄] phase are 160°C and 12 hours, respectively. At the same time, NH ₄ ⁺ and PO ₄ ³⁻ ions are present in X-ray amorphous samples, similar to the crystalline compound, and during crystallization, a decrease in the content of water or hydroxyl groups and an increase in molar ratio of P : Ti are observed. X-ray amorphous samples consist of isotropic particles 10–15 nm in size, while crystalline samples contain rhombus-shaped plates with smaller primary particles in their structure. X-ray amorphous and crystalline titanium-ammonium phosphates have low photocatalytic activity. The sun protection factor of X-ray amorphous samples, determined according to the international standard ISO 24443, is comparable to the sun protection factor of commercially available titanium dioxide.</jats:p>	Да	1114
35	24145	журнал	Физико-механические свойства композита на основе резины, армированной частицами	10.31044/1814-4632-2025-9-13-20	Kurzina A M, Kaplan M A, Ivanov V K, Kolmakov A G, Ivanova O S, Baranchikov A E, Filippova A D, Kottsov S Yu, Semak A V, Kolmakova A A, Kurzina E G	ДЕФОРМАЦИЯ И РАЗРУШЕНИЕ МАТЕРИАЛОВ, 9, 2025	1814-4632	РИНЦ, Белый список, ВАК	<jats:p>The effect of reinforcement with polymethylsilsesquioxane aerogel particles in an amount of 1.5 and 3.0% (wt.) on the physical-mechanical properties of a composite based on a rubber mixture used for paddings of rail fastenings of a railway track has been studied. It is found that	Да	1455

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1	1A	2	3	4	5	6	7	8	9	10	11
			супергидрофобных эластичных полиметилсилсесквиоксанных аэрогелей						such reinforcement does not virtually effect on density and hardness of the composite, but at the same time reduces its water absorption by 60-66%, increases the specific volume electrical resistance by more than 2.5 times and the coefficient of frost resistance by elastic recovery after compression by more than 1.5 times.</jats:p>		
36	24146	журнал	SOLID SOLUTIONS WITH PYROCHLORE-LIKE STRUCTURE IN THE YO-FeO-TaO-WO SYSTEM	10.7868/s3034560x25110029	Egorysheva A V	Журнал неорганической химии / Russian Journal of Inorganic Chemistry, 11, 2025	3034-560X		<jats:p>The aim of this work is to synthesize and study the properties of the compound YFeWO, and pyrochlore-like solid solutions in the YO-FeO-TaO-WO system. A method for obtaining YFeWO has been developed based on the citrate method. It has been established for the first time that the compound has a layered pyrochlore-like structure described by sp. gr. . A study of the heat capacity of YFeWO showed that, unlike YFeTaO, the compound does not have polymorphic transitions in the entire temperature range of 25-1460°C. The existence of a continuous solid solution xYFeTaO-(1-x)YFeWO, as well as a limited solid solution xYFeTaO-(1-x)YFeWO, where x = 0.7-1, is shown. It was found that a solid solution of YFeWO is not realized. The IR and Raman spectra of synthesized solid solutions are considered. The position of their absorption edge is determined.</jats:p>	Да	1455
37	24148	журнал	Complex Oxides in the System and Their Magnetic Properties	10.7868/s3034560x25110044	Egorysheva A V	Журнал неорганической химии / Russian Journal of Inorganic Chemistry, 11, 2025	3034-560X		<jats:p>Phase equilibria in the suboxides region of the YO-FeO-TaO system have been studied. The compound YFeTaO was discovered for the first time, existing in a narrow temperature range of 1000-1400°C. Another previously unknown compound, YFeTaO, is realized in the temperature range up to 1000°C, at which it decomposes into YTaO and YFeTaO. It has been established that YFeTaO belongs to the structural type of pyrochlore (sp. gr. Fd3m) and has lattice parameter = 10.3158(6) Å. The existence of a solid solution of YFeTaO in the range = 0-0.2 has been confirmed. Isothermal sections of the system have been constructed for temperatures of 900 and 1200°C. The magnetic properties of the YFeTaO and YFeTaO phases in fields up to 5000 Oe in the temperature range 2-300 K have been studied and it has been shown that their behavior in almost the entire studied temperature range is characteristic of paramagnets. At extremely low temperatures, effects have been found indicating the presence of antiferromagnetic type interactions, but they are very weak against the background of a paramagnetic matrix.</jats:p>	Да	1472
38	24149	автореперат	Синтез, структура и свойства тугоплавких	Не указан	Попова Елена Федоровна	-, 2025	-		Не указано	Да	6

No	ID	Вид публикации	Наименование публикации	DOI публикации	Автор(ы)	Издание, номер, год	ISSN / ISBN издания	Индексация издания	Краткое описание научных результатов	Наличие в публикации ссылки на ЦКП	Страница, содержащая ссылку на ЦКП
1	1A	2	3	4	5	6	7	8	9	10	11
			пирохлороподобных соединений RE ₂ FeTaO ₇ (RE = PЗЭ) и твердых растворов на их основе								
39	24150	журнал	Formation of a new hydrated sodium-thorium phosphate from thorium dioxide and its subsequent phase evolution	10.1039/d5dt00276a	Peters Georgy S, Kalmykov Stepan N, Romanchuk Anna Yu, Tsymbarenko Dmitry M, Shaulskaya Maria D, Kostyukov Ilya A, Egorov Alexander V, Yapaskurt Vasily O, Baranchikov Alexander E, Yaprntsev Alexey D, Nevolin Iurii M, Shiryayev Andrey A, Svetogorov Roman D, Trigub Alexander L, Kuzenkova Anastasiia S, Plakhova Tatiana V, Kramar Boris V	Dalton Transactions, 18, 2025	1477-9234	РИНЦ, Белый список	Hydrothermal treatment of nanoscale ThO ₂ in a sodium-phosphate buffer yields a previously uncharacterized hydrated sodium-thorium phosphate with pH-dependent phase evolution.	Да	7374
40	24151	журнал	Зависимость механических свойств композиционного материала сплав al-si-cu-наночастицы wo3 от способа введения армирующей фазы	10.31044/1814-4632-2025-1-2-11	Baranov E E, Baranchikov A E, Filippova A D, Kottsov S Yu, Govorov M D, Ivanova O S, Kurganov S V, Kolmakov A G, Kurganova Yu A, Kaplan M A, Ivanov V K	ДЕФОРМАЦИЯ И РАЗРУШЕНИЕ МАТЕРИАЛОВ, 1, 2025	1814-4632	РИНЦ, Белый список, ВАК	Исследованы механические свойства композиционных материалов антифрикционного назначения на основе сплава системы Al-Si-Cu, армированного наночастицами WO ₃ совместно с медью или без нее. Установлено, что наиболее благоприятное сочетание свойств имеют композиты, полученные при введении в сплав 10% (мас.) порошка WO ₃ или 1% (мас.) смеси порошков WO ₃ + Cu при массовом соотношении WO ₃ :Cu = 1:3. Механические свойства этих композитов в условиях сжатия: условный предел текучести ≈ 240 МПа, напряжение потери устойчивости окр ≈ 300 МПа, что, соответственно, в 4 и 2,4 раза выше, чем матричного сплава Al-Si-Cu. Механические свойства этих композитов при изгибе: = 250-260 МПа и = 380-390 МПа, что в 5 раз выше, чем матричного сплава.	Да	10
41	24153	журнал	Influence of Mechanical and Ultrasonic Treatment on the Structure of Manganese Dioxide and the Pseudocapacitive Properties of Electrodes Based on It	10.1134/s1087659625600218	Khamova T V, Zagrebelnyy O A, Kopitsa G P, Ivanova A G, Shilova O A, Kotsov S Yu, Sokolov A E, Volkov V V	Glass Physics and Chemistry, 3, 2025	1608-313X	РИНЦ, Белый список, ВАК	Не указано	Да	322
42	24154	журнал	Исследование основных эксплуатационных свойств углеродных	10.31044/1814-4632-2025-3-2-10	Lermontov S A, Baranchikov A E, Kaplan M A, Kolmakov A G, Ivanova O S, Ivanov V K,	ДЕФОРМАЦИЯ И РАЗРУШЕНИЕ МАТЕРИАЛОВ, 3, 2025	1814-4632	РИНЦ, Белый список, ВАК	The effect of the solvent type (acetonitrile and dimethyl sulfoxide) and the solvent / resorcinol ratio on the physical-chemical and operational properties of carbon	Да	10

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1	1A	2	3	4	5	6	7	8	9	10	11
			аэрогелей, полученных на основе резорцин-формальдегида		Kolmakova A A, Filippova A D, Malkova A N				aerogels based on resorcinol-formaldehyde have been studied. The specific surface area S, density ρ , porosity P, mechanical characteristics under compression (ultimate strength σ_{bc} and maximum relative deformation ϵ_c) were determined. It is shown that the most favorable set of properties is demonstrated by the carbon aerogel obtained, using dimethyl sulfoxide as a solvent at a solvent / resorcinol ratio of 8.8 ml / 1.1 g: $\sigma_{bc} \approx 159$ MPa, $\epsilon_c \approx 1.9\%$, $S \approx 710$ m ² / g, $\rho \approx 1.26$ g / cm ³ , $P \approx 37\%$. Keywords: carbon aerogel, mechanical properties, performance properties, porosity, density, specific surface area, nanostructure.		
43	24156	журнал	Gold(III) complexes containing (non)protonated oligopyridines—unexpected results in cancer drug research	10.1039/d5nj02110c	Timofeev Eduard A, Lutsenko Irina A, Eremenko Igor L, Gushchin Artem L, Kiskin Mikhail A, Leusova Nataliya Yu, Rusinov Gennadii L, Krasnoborova Svetlana Yu, Vakhrusheva Diana V, Belyaev Danila V, Kotelnikov Danil D, Borodin Eugeni A, Pokrovsky Vadim S, Sokolova Darina V, Treshalina Helen M, Bekker Olga B, Mironov Igor V, Kharlamova Viktoria Yu, Makotchenko Eugeniya V, Bardina Elena E, Koshenskova Kseniya A	New Journal of Chemistry, 32, 2025	1369-9261	РИНЦ, Белый список	Two novel gold(III) complexes with doubly protonated forms of phenanthrolines, (neocH ₂) ₂ [AuCl ₄] ₂ ·Cl (1) and (1,7-phenH ₂) ₂ [AuCl ₄] ₂ ·NO ₂ (2), were synthesized using the phenanthrolines.	Да	14051
44	24159	журнал	«Green-Ligand» in Metallodrugs Design—Cu(II) Complex with Phytic Acid: Synthetic Approach, EPR-Spectroscopy, and Antimycobacterial Activity	10.3390/molecules30020313	Koshenskova Kseniya A, Lutsenko Irina A, Eremenko Igor L, Krumkacheva Olesya A, Dementev Sergei A, Fedin Matvey V, Bekker Olga B, Yambulatov Dmitriy S, Dolgushin Fedor M, Makarenko Natalia V	Molecules, 2, 2025	1420-3049	РИНЦ, Белый список	The interaction of sodium phytate hydrate C ₆ H ₁₈ O ₂₄ P ₆ ·xNa·yH ₂ O (phytNa) with Cu(OAc) ₂ ·H ₂ O and 1,10-phenanthroline (phen) led to the anionic tetranuclear complex [Cu ₄ (H ₂ O) ₄ (phen) ₄ (phyt)] ²⁻ ·2Na ⁺ ·2NH ₄ ⁺ ·32H ₂ O (1), the structure of the latter was determined by X-ray diffraction analysis. The phytate 1 is completely deprotonated; six phosphate— fragments (with atoms P1–P6) are characterized by different spatial arrangements relative to the cyclohexane ring (1a5e conformation), which determines two different types of coordination to the complexing agents—P1 and P3, P4, and P6 have monodentate, while P2 and P5 are bidentately bound to Cu ²⁺ cations. The molecular structure of the anion complex is stabilized by a set of strong intramolecular hydrogen bonds involving coordinated water molecules. Aromatic systems of phen ligands chelating copper ions	Да	324

No	ID	Вид публикации	Наименование публикации	DOI публикации	Автор(ы)	Издание, номер, год	ISSN / ISBN издания	Индексация издания	Краткое описание научных результатов	Наличие в публикации ссылки на ЦКП	Страница, содержащая ссылку на ЦКП
1	1A	2	3	4	5	6	7	8	9	10	11
									participate in strong intramolecular and intermolecular π - π interactions, further contributing to their association. At the supramolecular level, endless stacks are formed, in the voids of which sodium and ammonium cations and water molecules are present. The stability of 1 in the presence of human serum albumin (HSA) was investigated using Electron Paramagnetic Resonance (EPR) spectroscopy. Continuous wave (CW) EPR spectra in water/glycerol frozen solution clearly indicate a presence of an exchange-coupled Cu(II)-Cu(II) dimeric unit, as well as a Cu(II) monomer-like signal arising from spins sufficiently distant from each other, with comparable contributions of two types of signals. In the presence of albumin at a 1:1 ratio (1 to albumin), the EPR spectrum changes significantly, primarily due to the reduced contribution of the $S = 1$ fraction showing dipole-dipole splitting. The biological activity of 1 in vitro against the non-pathogenic (model for Mycobacterium tuberculosis) strain of Mycolicibacterium smegmatis is comparable to the first-line drug for tuberculosis treatment, rifampicin.		
45	24160	журнал	A synthetic approach to heteroleptic Zn_2Ln_2 complexes featuring photoluminescence, antibacterial and anticancer properties	10.1039/d4nj05283h	Dolgushin Fedor M, Eremenko Igor L, Lutsenko Irina A, Bekker Olga B, Taydakov Ilya V, Metlina Daria A, Metlin Mikhail T, Shender Victoriya O, Uvarova Marina A	New Journal of Chemistry, 8, 2025	1369-9261	РИНЦ, Белый список	Heteroleptic Zn_2Gd_2 and Zn_2Eu_2 complexes have been synthesized and their photophysical properties have been investigated. The complexes demonstrate antibacterial activity and cytotoxic effect on the cancer cells higher than on healthy fibroblasts.	Да	3246
46	24161	журнал	Lanthanide complexes with nalidixic acid and N-chelate ligands: The first example of crystal structure, ways to enhance luminescence and antibacterial activity	10.1016/j.inoche.2025.115518	Solyev Pavel N, Eremenko Igor L, Kiskin Mikhail A, Revtovich Svetlana V, Kulikova Vitalia V, Taydakov Ilya V, Metlina Darya A, Metlin Mikhail T, Uvarova Marina A, Nikiforova Marina E	Inorganic Chemistry Communication, 2025	1387-7003	РИНЦ, Белый список	Не указано	Да	115518
47	24170	журнал	2-Hydroxy-5-ethylphenylphosphonic acid and its application in carbon dot modification: synthesis, protonation, spectral properties and specific recognition of copper(II) ions	10.1039/d5dt02093j	Dong Jiaxin, Tsivadze Aslan Yu, Li Baoqiang, Baulin Vladimir E, Slobodskaya Serafima S, Ilyukhin Andrey B, Ivanova Irina S, Lapshina Mariya A, Nikolaeva Natalya S, Solov'ev Vitaly P, Rogacheva Yuliana I, Tsebrikova Galina S	Dalton Transactions, 46, 2025	1477-9234	РИНЦ, Белый список	Carbon dots modified with a phosphoryl analogue of salicylic acid were synthesized and copper specific recognition and cell penetration were achieved.	Да	17277

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1	1A	2	3	4	5	6	7	8	9	10	11
48	24172	журнал	Interactions between well-isolated Dy ³⁺ ions considerably contribute to the demagnetization of a mononuclear acetylacetonate-pyrazinate complex	10.1039/d5dt00749f	Ilyukhin Andrey B, Efimov Nikolay N, Vasilyev Pavel N, Breslavskaya Natalia N, Timokhina Elena N, Babeshkin Konstantin A, Buzoverov Mikhail E, Gavrikov Andrey V	Dalton Transactions, 24, 2025	1477-9234	РИНЦ, Белый список	New mononuclear Dy complex exhibits the best SMM performance among the related compounds. However, spatial separation and shielding of Dy ³⁺ ions do not prevent the negative effect of Dy-Dy magnetic interactions on the SMM performance.	Да	9626
49	24173	журнал	Rational Design of Heterometallic Water-Soluble Yttrium Complexes with Selective In Vitro and In Vivo Anticancer Activity	10.1134/s1070328424601481	Lushnikova A A, Babeshkin K A, Selivanov N A, Gavrikov A V, Khakina E A, Babaskina M M, Mikheev I V, Koroleva N A, Kovtun O G, Ilyukhin A B	Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 4, 2025	1070-3284	РИНЦ, Белый список, ВАК	Не указано	Да	279
50	24174	журнал	Heterotrimetallic 3d-3d'-4f Complexes Based on Cymantrenecarboxylate and Ferrocene Phosphine Oxide Ligands: Synthesis, Structure, and Magnetic	10.1134/s1070328425600792	Efimov N N, Gavrikov A V, Babeshkin K A, Ilyukhin A B, Koroteev P S	Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 8, 2025	1070-3284	РИНЦ, Белый список, ВАК	Не указано	Да	716
51	24175	журнал	Supramolecular charge transfer adducts of rare earth 3,5-dinitrobenzoates and diaminodurene: a new approach to increasing spin density in lanthanide complexes	10.1039/d4me00124a	Koroteev Pavel S, Efimov Nikolay N, Tuna Floriana, Baldansuren Amgalanbaatar, Ugolkova Elena A, Timokhina Elena N, Breslavskaya Natalia N, Dobrokhotova Zhanna V, Minin Vadim V, Ilyukhin Andrey B	Molecular Systems Design and Engineering, 2, 2025	2058-9689	РИНЦ, Белый список	Supramolecular complexes formed of Ln 3,5-dinitrobenzoates and diaminodurene are obtained, their paramagnetism caused by charge transfer is characterized.	Да	155
52	24176	журнал	Novel heterometallic tetranuclear Ln-Ti citrates, the precursors for the lanthanide titanates	10.1016/j.poly.2025.117715	Ilyukhin Andrey B, Shapovalov Sergey S, Bilida Evgeniya Yu, Yapryntsev Alexey D, Koroteev Pavel S	Polyhedron, 2025	0277-5387	РИНЦ, Белый список	Не указано	Да	117715
53	24177	журнал	Molecular magnetism and solid-phase transformations of Dy, Er, and Yb tropolonate complexes	10.1039/d5tc00871a	Babeshkin Konstantin A, Eremenko Igor L, Efimov Nikolay N, Ilyukhin Andrey B, Galkina Alina S, Petrosyants Svetlana P	Journal of Materials Chemistry C, 2025	2050-7534	РИНЦ, Белый список	New tropolonate Ln(III) complexes were synthesized and shown to exhibit SMM properties, including zero-field slow magnetic relaxation in Dy(III) complexes and Orbach-type relaxation in Er(III) complexes.	Да	16476
54	24178	журнал	Cyano-bridged Ln ^{III} /Co ^{II}	10.1039/d5nj02829a	Galkina Alina S, Eremenko Igor L, Efimov Nikolay N,	New Journal of Chemistry, 41, 2025	1369-9261	РИНЦ, Белый список	New heterometallic 3d-4f coordination polymers with two types of topologies were synthesized and structurally	Да	18046

No	ID	Вид публикации	Наименование публикации	DOI публикации	Автор(ы)	Издание, номер, год	ISSN / ISBN издания	Индексация издания	Краткое описание научных результатов	Наличие в публикации ссылки на ЦКП	Страница, содержащая ссылку на ЦКП
1	1A	2	3	4	5	6	7	8	9	10	11
			up>III</sup> coordination polymers: synthesis, crystal structure and magnetic properties		Ilyukhin Andrey B, Babeshkin Konstantin A, Petrosyants Svetlana P				characterized. Magnetic susceptibility measurements showed that Dy(<jats:sc>iii</jats:sc>) and Er(<jats:sc>iii</jats:sc>) complexes exhibit SMM behavior.</jats:p>		
55	24180	журнал	Magnetic properties of 3D lanthanide complexes with 1,3-bis(diphenylphosphoryl)-2-oxapropane: the slow magnetic relaxation of Yb³⁺ compounds	10.1039/d5nj00123d	Slobodskaia Serafima S, Tsivadze Aslan Yu, Baulin Vladimir E, Ivanova Irina S, Ilyukhin Andrey B, Tsebrikova Galina S, Galkina Alina S, Efimov Nikolay N	New Journal of Chemistry, 18, 2025	1369-9261	РИНЦ, Белый список	<jats:p>Complexes of lanthanides with 1,3-bis(diphenylphosphoryl)-2-oxapropane were synthesized. The magnetic properties of the synthesized compounds were studied. The Yb<jats:sup>3+</jats:sup> complexes exhibit SMM properties.</jats:p>	Да	7457
56	24182	журнал	Phosphoryl-containing derivatives of 8-hydroxyquinoline for the selective detection of uranyl cations	10.1039/d5nj01822f	Slobodskaia Serafima S, Tsivadze Aslan Yu, Baulin Vladimir E, Galkina Elena N, Pyatova Elena N, He Tao, Ilyukhin Andrey B, Solov'ev Vitaly P, Ivanova Irina S, Tsebrikova Galina S	New Journal of Chemistry, 31, 2025	1369-9261	РИНЦ, Белый список	<jats:p>An ion-selective electrode for the detection of UO<jats:sub>2</jats:sub><jats:sup>2+</jats:sup> ion based on the phosphoryl derivative of 8-HQ was developed by predicting the properties using the stability constants of the complexes determined by spectrophotometric titration.</jats:p>	Да	13536
57	24183	журнал	Influence of AACVD Temperature on the Microstructural and Gas Sensing Properties of ZnO Thin Films	10.1134/s0036023625603113	Dmitrieva S A, Simonenko E P, Zvyagina A I, Gorobtsov Ph Y, Averin A A, Simonenko N P, Mokrushin A S	Russian Journal of Inorganic Chemistry, 10, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	1590
58	24184	журнал	Zinc Glycerate as a Precursor for the Synthesis of Nanocrystalline ZnO with Improved NO2 Gas Sensitivity	10.1134/s0036023625603174	Dmitrieva S A, Mokrushin A S, Simonenko E P, Simonenko N P, Nagornov I A	Russian Journal of Inorganic Chemistry, 10, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	1600
59	24185	журнал	Surface Degradation of Ceramic Material Based on the ZrB2-HfB2-SiC System under the Influence of a Subsonic Flow of Dissociated Nitrogen Containing 5 mol % CO2	10.1134/s0036023625603319	Chaplygin A V, Kuznetsov N T, Kolesnikov A F, Simonenko N P, Mokrushin A S, Lukomskii I V, Nagornov I A, Lysenkov A S, Simonenko E P	Russian Journal of Inorganic Chemistry, 10, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	1611
60	24186	журнал	AACVD Synthesis of Bilayer Thin-Film ZnO/Cr2O3	10.1134/s0036023624603763	Averin A A, Simonenko N P, Stroikova A R, Gorban Y M, Dmitrieva S A, Mokrushin A S, Simonenko E P	Russian Journal of Inorganic Chemistry, 4, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	631

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1	1A	2	3	4	5	6	7	8	9	10	11
			Nanocomposites for Chemoresistive Gas Sensors								
61	24187	журнал	Studying the photo-, thermo-luminescence properties and energy transfer processes in K2Y1-Eu F5 single crystals	10.1016/j.jlumin.2025.121405	Makhov V N, Quang V X, Khaidukov N M, Do P V, Ngoc T, Tuyen H V, Thanh L D, Ca N X, Thanh N T	Journal of Luminescence, 2025	0022-2313	РИНЦ, Белый список	Не указано	Да	121405
62	24190	журнал	Influence of the anion ratio in the composition of mixed benzoate/pentafluorobenzoate complexes of europium on the structure and photoluminescent properties	10.71267/mencom.7566	Levina Anastasia A, Eremenko Igor Leonidovich, Sidorov Alexey A, Taidakov Il'ya Viktorovich, Razgonyaeva Galina A, Voronina Julia K, Varaksina Evgeniya A, Chistyakov Aleksandr S, Shmelev Maxim A	Mendeleeev Communications, 1, 2025	1364-551X	РИНЦ, Белый список, ВАК	<jats:p>Mixed carboxylate benzoate (bz)/pentafluorobenzoate (pfb) complexes with different ratios of pfb and bz anions in the {Eu(EtOH)<sub>2</sub>}<sub>2</sub>(pfb)(bz)<sub>2</sub>}</sub>}<sub>n</sub>}<sub>2</sub> and {Eu(EtOH)(pfb)<sub>2</sub>}<sub>2</sub>(bz)}<sub>n</sub>}</sub> compositions were obtained and structurally characterized. Changes in the pfb/bz ratio lead to changes in the geometry of the polymer chains and the lanthanide polyhedron, as well as to a rearrangement of the system of non-covalent interactions, which also affects the photoluminescent properties. The synthesized compounds were characterized by X-ray diffraction study, IR spectroscopy and CHN analysis; non-covalent interactions were analyzed using Hirshfeld surface analysis.</jats:p>	Да	35
63	24193	журнал	Luminescence enhancement by mixing carboxylate benzoate-pentafluorobenzoate ligands in polynuclear {Eu₂Zn₂} and {Th₂Zn₂} complexes	10.1039/d4dt03414g	Taydakov Ilya V, Eremenko Igor L, Sidorov Alexey A, Gogoleva Natalia V, Varaksina Evgeniya A, Voronina Julia K, Chistyakov Alexandr S, Shmelev Maxim A, Bolot'ko Alena E	Dalton Transactions, 14, 2025	1477-9234	РИНЦ, Белый список	<jats:p>Using {Ln₂Zn₂}</sub> complexes, it was shown that obtaining mixed-carboxylate compounds is a way to direct enhancement of lanthanide complexes' luminescence.</jats:p>	Да	5708
64	24194	журнал	Effect of coordination of 1,2,4-triazole moiety in Cu(ii) and Zn(ii) compounds with 2-[(4H-1,2,4-triazol-4-yl)imino]methylphenol on their antimicrobial activity	10.1007/s1172-025-4593-7	Bovkunova A A, Kiskin M A, Eremenko I L, Ismatullin D D, Lyamin A V, Zubenko A A, Andros N O, Svyatogorova A E, Fetisov L N, Taydakov I V, Varaksina E A, Pavlov A A, Gogoleva N V, Shmelev M A, Bazhina E S	Russian Chemical Bulletin, 4, 2025	1573-9171	РИНЦ, Белый список, ВАК	Не указано	Да	998
65		журнал					1573-8779		Не указано	Да	1490

No	ID	Вид публикации	Наименование публикации	DOI публикации	Автор(ы)	Издание, номер, год	ISSN / ISBN издания	Индексация издания	Краткое описание научных результатов	Наличие в публикации ссылки на ЦКП	Страница, содержащая ссылку на ЦКП
1	1A	2	3	4	5	6	7	8	9	10	11
	24195		Effect of the Crystallization Temperature and the N-donor Ligand Nature on the Crystal Structure of {EuCd} Complexes with Pentafluorobenzoic Acid Anions	10.1134/s0022476625070133	Chistyakov A S, Shmelev M A, Eremenko I L, Sidorov A A, Kiskin M A, Razgonyaeva G A, Voronina Yu K	Journal of Structural Chemistry, 7, 2025		РИНЦ, Белый список, ВАК			
66	24196	журнал	Copper(II) and Zinc(II) Coordination Compounds with 4-(Pyridin-2-yl)methylene amino-1,2,4-triazole: Synthesis, Crystal Structure, Thermal Stability, and Antimicrobial Activity	10.1002/slct.202501964	Shmelev Maxim A, Eremenko Igor L, Kiskin Mikhail A, Lyamin Artem V, Ismatullin Danir D, Zubenko Alexander A, Andros Natalia O, Gogoleva Natalia V, Bazhina Evgeniya S, Bovkunova Anna A	ChemistrySelect, 16, 2025	2365-6549	РИНЦ, Белый список	<jats:title>Abstract</jats:title> <jats:p>The reaction of copper(II) chloride with azomethine ligand 4-(pyridin-2-yl)methyleneamino-1,2,4-triazole (L) yielded crystals of a 1D coordination polymer [Cu(L)Cl] <jats:sub>2</jats:sub>] <jats:italic> <jats:sub>n</jats:sub> </jats:italic> (<jats:bold>1</jats:bold> </jats:bold>), in whose structure metal atoms are bound by L molecules due to nitrogen atoms of imine, pyridyl, and triazole moieties. In contrast to this process, the reaction of zinc(II) chloride with L resulted in the formation of mononuclear complex [Zn(L) <jats:sub>2</jats:sub> Cl <jats:sub>2</jats:sub>]·H <jats:sub>2</jats:sub> O (<jats:bold>2</jats:bold> </jats:bold>), containing L molecules coordinated to the metal center in a monodentate mode due to triazole nitrogen atoms. The structures of the coordination compounds obtained were determined by single-crystal X-ray diffraction. The antimicrobial activity of <jats:bold>1</jats:bold> and <jats:bold>2</jats:bold> was assessed against the bacteria <jats:italic>Escherichia coli</jats:italic> , <jats:italic>Staphylococcus aureus</jats:italic> , <jats:italic>Streptococcus</jats:italic> spp., the fungi <jats:italic>Candida albicans</jats:italic> , <jats:italic>Candida glabrata</jats:italic> , <jats:italic>Aspergillus fumigatus</jats:italic> , <jats:italic>Rhizopus oryzae</jats:italic> , and the protozoa <jats:italic>Colpoda steinii</jats:italic> . Compound <jats:bold>1</jats:bold> showed high	Да	16

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1	1A	2	3	4	5	6	7	8	9	10	11
									antiprotozoal activity, as well as significant antifungal activity against <i>C. glabrata</i> , and complex demonstrated high bacteriostatic activity against <i>Streptococcus</i> spp. Thermal stability of and was studied by simultaneous thermal analysis under an argon atmosphere.		
67	24199	журнал	Synthesis and Structural Features of Co(II) Compounds with 3-Arylidene-1-pyrrolidine Derivatives and Monocarboxylic Acid Anions	10.1134/s1070328424601390	Sidorov A A, Rogachev A V, Zorina-Tikhonova E N, Shmelev M A, Zvereva O V, Voronina Yu K, Eremenko I L	Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2, 2025	1070-3284	РИНЦ, Белый список, ВАК	Не указано	Да	151
68	24200	журнал	Effects of combining fluorinated and non-fluorinated monocarboxylate anions in lanthanide complexes on the structure and photoluminescence properties	10.1039/d5nj01296a	Shmelev Maxim A, Levina Anastasia A, Chistyakov Aleksandr S, Eremenko Igor L, Sidorov Alexey A, Taydakov Ilya V, Gogoleva Natalia V, Voronina Julia K, Varaksina Evgeniya A	New Journal of Chemistry, 30, 2025	1369-9261	РИНЦ, Белый список	The structure and photoluminescence properties of mixed-carboxylate europium compounds with various combinations of fluorinated and non-fluorinated monocarboxylic acid anions were studied.	Да	12970
69	24202	журнал	Influence of the Synthesis and Crystallization Conditions on the Compositions and Structures of Mixed-Carboxylate Europium(III) Benzoate–Pentafluorobenzoate Complexes	10.1134/s1070328425600214	Lebedev D S, Eremenko I L, Sidorov A A, Rogachev A V, Efromeev L M, Voronina Yu K, Chistyakov A S, Shmelev M A	Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 6, 2025	1070-3284	РИНЦ, Белый список, ВАК	Не указано	Да	513
70	24204	журнал	New Manganese(II) Coordination Compounds with 4-((1H-Pyrrol-2-yl)methylene-amino)-4H-1,2,4-triazole	10.1134/s1070328425600500	Bazhina E S, Eremenko I L, Kiskin M A, Zubenko A A, Svyatogorova A E, Fetisov L N, Taydakov I V, Metlin M T, Efimov N N, Babeshkin K A, Kottsov S Yu, Anisimov A A, Gogoleva N V, Shmelev M A, Bovkunova A A	Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 6, 2025	1070-3284	РИНЦ, Белый список, ВАК	Не указано	Да	486
71	24207	журнал	Antiproliferative	10.3390/mo	Lutsenko Irina A, Nikiforova	Molecules, 22, 2025	1420-3049	РИНЦ, Белый список	The reaction of CoCl ₂ · 6H ₂ O with	Да	4367

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1	1A	2	3	4	5	6	7	8	9	10	11
			Potential of Cobalt(II) Phenanthroline Complexes with Pyridonates	lecules30224367	Marina E, Pokrovsky Vadim S, Sokolova Darina V, Yambulatov Dmitriy S, Sidorov Alexey A, Shmelev Maxim A, Dolgushin Fedor M, Eremenko Igor L				6-chloro-2-hydroxypyridine (Hchp) and 1,10-phenanthroline (phen) afforded the complex [Co(chp)2(phen)] (1). Although this complex has been previously reported, it was obtained in this work under mild conditions (in acetonitrile at room temperature) and characterized for the first time by single-crystal X-ray diffraction. The use of Co(F3CCOO)2 · 4H2O under similar conditions yielded a new trinuclear molecular complex [Co3(chp)2(F3CCOO)4(phen)2] (2). According to X-ray diffraction data, the cobalt(II) ions in complexes 1 and 2 are located in an octahedral environment (coordination number CNCo = 6). As an ambidentate ligand, Hchp exhibits different types of coordination modes in the resulting complexes 1 and 2. Additional stabilization of molecules in the crystal is achieved by π-π stacking between aromatic systems of coordinated phen ligands. The cytotoxic activity of 1 and [CoCl2(phen)2] · 1.5MeCN (3) against a panel of human cancer cell lines (SKBR3, HCT116, A549) and normal dermal fibroblasts (HDF) was evaluated using the MTT assay. Complex 3 demonstrated cytotoxic activity against the HCT116 cell line comparable to that of cisplatin, indicating its potential as a promising antitumor agent. </jats:p>		
72	24210	журнал	Heterometallic Complex of Europium(III) Trifluoroacetate with Bis(diphenylphosphoryl)ferrocene (DppfO2): Synthesis, Structure, and Thermal Stability	10.1134/s1070328425600445	Eliseenkova V A, Uvarova M A, Eremenko I L, Lutsenko I A, Shmelev M A	Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 5, 2025	1070-3284	РИНЦ, Белый список, ВАК	Не указано	Да	388
73	24211	журнал	Field-induced Single Molecule Magnets Based on Heterometallic Pivalate Complexes [Co2Ln(NO3)(piv)6(bpy)2] (Ln = La, Eu, Gd)	10.1007/s10876-025-02933-9	Babeshkin Konstantin A, Rubtsova Irina K, Eremenko Igor L, Kiskin Mikhail A, Nikolaevskii Stanislav A, Efimov Nikolay N, Goloveshkin Alexander S, Voronina Julia K, Shmelev Maxim A	Journal of Cluster Science, 6, 2025	1572-8862	РИНЦ, Белый список	Не указано	Да	210
74	24212	журнал	Influence of Synthesis and Crystallization Conditions on the Structure of Homo- and Mixed-Anionic Benzoate and Pentafluorobenzoate Eu(III) Complexes with	10.1134/s0022476625100117	Chistyakov A S, Shmelev M A, Bolot'ko A E, Efromeev L M, Razgonyaeva G A, Levina A A, Sidorov A A, Eremenko I L	Journal of Structural Chemistry, 10, 2025	1573-8779	РИНЦ, Белый список, ВАК	Не указано	Да	2127

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1	1A	2	3	4	5	6	7	8	9	10	11
			Quinoline and Phenanthridine Molecules								
75	24215	журнал	Synthesis and Structure of New M(II)/Cr(III) Coordination Compounds (M = Fe, Ni, Zn, Cd) with Cyclobutane-1,1-dicarboxylate Anions and 1,10-Phenanthroline	10.1134/s1070328425601098	Bazhina E S, Eremenko I L, Kiskin M A, Shmelev M A, Mokicheva A S	Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 9, 2025	1070-3284	РИНЦ, Белый список, ВАК	Не указано	Да	794
76	24216	журнал	Effect of the Nature of N-Donor Ligands on the Structure of Mixed-Anion Europium Benzoate Pentafluorobenzoate Compounds	10.1134/s1070328425601207	Shmelev M A, Eremenko I L, Sidorov A A, Bovkunova A A, Bolot'ko A E	Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 10, 2025	1070-3284	РИНЦ, Белый список, ВАК	<jats:sec><jats:title>Abstract</jats:title><jats:p>The study addresses mixed-anion Eu(III) complexes with benzoic (Bz) and pentafluorobenzoic (Pfb) acid anions and 2,2'-bipyridine(Bpy), 4,4'-dimethyl-2,2'-bipyridine (Me<jats:sub>2</jats:sub> Bpy), 4,4'-di-<jats:italic>tert-</jats:italic>butyl-2,2'-bipyridine (<jats:italic>t</jats:italic>-Bu<jats:sub>2</jats:sub> Bpy), 4,4'-dinonyl-2,2'-bipyridine(Nn<jats:sub>2</jats:sub> Bpy), and 3,4,7,8-tetramethyl-1,10-phenanthroline: [Eu<jats:sub>2</jats:sub> (Bpy)<jats:sub>2</jats:sub> (Pfb)<jats:sub>2.4</jats:sub> (Bz)<jats:sub>3.6</jats:sub>] (<jats:bold>I</jats:bold>), [Eu<jats:sub>2</jats:sub> (Me Bpy)<jats:sub>2</jats:sub> (Pfb)<jats:sub>2.5</jats:sub> (Bz)<jats:sub>3.5</jats:sub>] (<jats:bold>II</jats:bold>), [Eu<jats:sub>2</jats:sub> (Nn Bpy)<jats:sub>2</jats:sub> -(Pfb)<jats:sub>3.5</jats:sub> (Bz)<jats:sub>2.5</jats:sub>]:2MeCN (<jats:bold>III</jats:bold>), [Eu<jats:sub>2</jats:sub> (<jats:italic>t</jats:italic>-Bu<jats:sub>2</jats:sub> Bpy)	Да	898

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1	1A	2	3	4	5	6	7	8	9	10	11
									(Pfb) (Bz) $]$ n -2 $MeCN ($ $), and [Eu$ $(Me$ $Phen)$ $-(Pfb)$ (Bz) $]$ n $($ $).$ According to X-ray diffraction data, in the structures of all compounds, Bz and Pfb anions are refined simultaneously in various ratios in some anion sites. It was shown that varying the substituents in the N-donor ligands affects the composition and geometry of the formed complexes. The complexes were characterized by X-ray diffraction, IR spectroscopy, and CHN analysis. The structures and crystal packing of the obtained complexes were analyzed in detail. The major contribution to stabilization of the crystal packing is made by $\pi \cdots \pi$, $C-H \cdots F$, and $C-F \cdots \pi$ interactions.		
77	242 20	журнал	Synthesis and Crystal Structure of Copper and Zinc Complexes with Phosphorus-Containing Pyrrolidine Derivatives with Anions of Monocarboxylic Acids	10.1134/s0022476625110022	Razgonyaeva G A, Eremenko I L, Voronina Yu K, Sidorov A A, Shmelev M A, Men'shikova A V, Istratii A D, Chistyakov A S	Journal of Structural Chemistry, 11, 2025	1573-8779	РИНЦ, Белый список, ВАК	Не указано	Да	2280
78	242 26	журнал	Synthesis, Structural Features, and Molecular Docking of Zinc Complexes with Derivatives of 3-Arylidene-1-Pyrrolines	10.1134/s0022476625120224	Zvereva O V, Eremenko I L, Voronina Yu K, Shmelev M A, Chistyakov A S, Zorina-Tikhonova E N, Blinov D O, Rizbaeva T S	Journal of Structural Chemistry, 12, 2025	1573-8779	РИНЦ, Белый список, ВАК	Не указано	Да	22719
79	242 27	журнал	SYNTHESIS OF PERHALOGENATED	10.7868/s3034560x25110074	Golubev A V	Журнал неорганической	3034-560X		<p>An efficient two-stage method has been developed for the synthesis of perhalogenated monohydroxy derivatives of	Да	1497

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1	1A	2	3	4	5	6	7	8	9	10	11
			MONOHYDROXY DERIVATIVES OF THE -DECABORATE ANION [2-BXOH] (X = Cl, Br)			химии / Russian Journal of Inorganic Chemistry, 11, 2025			the -decaborate anion with the composition [2-BXOH] (X = Cl, Br). The method involves complete halogenation of the boron framework in the initial DMF-containing derivative [2-BHOCHNMe] by its reaction with sulfonyl chloride (SOCl) or elemental bromine (Br), followed by hydrolysis of the obtained perhalogenated derivatives [2-BXOCHNMe] (X = Cl, Br) with hydrazine monohydrate (NH ₂ ·HO). This synthetic approach allows for the production of the target compounds with high yield (80–85%) and high purity, as confirmed by a range of physicochemical analysis methods (multinuclear NMR spectroscopy on B, H, and C nuclei, IR spectroscopy, and elemental analysis). The structures of the [2-BXOCHNMe] and [2-BXOH] anions were determined by single-crystal X-ray diffraction analysis.		
80	24230	журнал	Silver(I) Complexes Based on 2-Quinoline or 2-Quinoxaline Derivatives of Amino Acid Esters as New Antiviral Drugs	10.1134/s0036023624603295	Avdeeva V V, Malinina E A, Nikiforova S E, Golubev A V, Goeva L V, Kubasov A S, Grebennikova T V, Breslav N V, Yudin I I, Garaev T M	Russian Journal of Inorganic Chemistry, 1, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	59
81	24231	журнал	Amidine Derivatives of Boron Cluster Anions Based on Propargylglycine and Their Reactivity in Copper-Catalyzed Azide-Alkyne Cycloaddition Conditions	10.1134/s0036023625603617	Kuznetsov N T, Zhizhin K Yu, Zhdanov A P, Bykov A Yu, Selivanov N A, Klyukin I N, Nelyubin A V, Ryabchikova M N	Russian Journal of Inorganic Chemistry, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	4
82	24232	журнал	Ring-Closing and Ring-Opening of $\text{C}_{12}\text{B}_{10}\text{H}_{12}\text{O}_2$ -Fused Carboxonium Ions: PIDA-Mediated Synthesis and Reactivity toward Neutral O-Nucleophiles	10.1021/acs.organomet.5c00398	Kolbunova Anastasia V, Klyukin Ilya N, Kuznetsov Nikolay T, Zhizhin Konstantin Yu, Zhdanov Andrey P, Bykov Alexander Yu, Selivanov Nikita A, Kubasov Alexey S, Nelyubin Alexey V	Organometallics, 24, 2025	1520-6041	РИНЦ, Белый список	Не указано	Да	2890
83	24233	журнал	Preparation of a New Active Component 1,10-B10H8(S(C18H37)2)2 for Potentiometric Membranes for the	10.3390/inorganics13020035	Golubev Alexey V, Kuznetsov Nikolay T, Zhizhin Konstantin Yu, Bykov Alexander Yu, Turyshchev Eugeny S	Inorganics, 2, 2025	2304-6740	РИНЦ, Белый список	This paper presents a methodology for the preparation of a new active component for ion-selective membranes, based on a di-substituted sulfonium derivative of the closo-decaborate anion at the apical vertices with the octadecylalkyl substituents 1,10-B10H8(S(C18H37)2)2. This	Да	10

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1	1A	2	3	4	5	6	7	8	9	10	11
			Determination of Terbinafine Hydrochloride						approach is characterized by physicochemical methods of analysis (11B, 1H, 13C NMR spectroscopy, IR spectroscopy and elemental analysis). The compound obtained is used as an active component of a PVC membrane selective to terbinafine hydrochloride. The sensor developed is highly selective to the drug to be detected, has a linearity range of 4.0×10^{-8} – 1.0×10^{-2} and a detection limit of 1.0×10^{-8} , and can detect terbinafine hydrochloride in the pH range of 3 to 6.		
84	24235	журнал	2,2,3,3,4,4,4-Heptafluorobutyl Acetate—Chemical Equilibrium and Kinetics of the Esterification Reaction of 2,2,3,3,4,4,4-Heptafluorobutan-1-ol and Acetic Acid in the Presence of an Acidic Catalyst	10.3390/molecules30081744	Privalov Viktor I, Polkovnichenko Andrei V, Lupachev Egor V, Kvashnin Sergey Ya, Selivanov Nikita A, Kovaleva Evgenia I	Molecules, 8, 2025	1420-3049	РИНЦ, Белый список	The kinetics and chemical equilibrium of the esterification reaction of acetic acid (AAc) and 2,2,3,3,4,4,4-heptafluorobutan-1-ol (HFBol) (using sulfuric acid as a catalyst) are determined experimentally. The study presents the dependences of K_{eq} on the initial molar ratio of reagents, catalyst concentration and temperature. It is shown that all of the above parameters significantly affect the chemical equilibrium of the system. According to the Van't Hoff equation, the standard enthalpy and standard entropy are calculated from the experimental data. The esterification process of AAc and HFBol is characterized by the negative heat effect ($\Delta_r H > 0$). The homogeneous and heterogeneous regions of the chemical equilibrium composition at different settings are given. In the homogeneous region of the chemical equilibrium composition, it is found that the rate constant and half-reaction time do not depend on the initial molar ratio of the reagents. The dependencies of the rate constant on the temperature are obtained, and the parameters of the Arrhenius equation are estimated from the experiments.	Да	13
85	24237	журнал	New isomeric form of the octadecahydroeicosaborate anion: 11B NMR spectra, DFT calculations, and single-crystal X-ray diffraction data for cross-[B20H18]2–	10.1016/j.inoche.2025.113911	Zhizhin Konstantin Yu, Kuznetsov Nikolay T, Malinina Elena A, Privalov Viktor I, Golubev Aleksei V, Eshtukova-Shcheglova Elizaveta A, Matveev Evgeniy Yu, Kubasov Alexey S, Avdeeva Varvara V, Shamsiev Ravshan S	Inorganic Chemistry Communication, 2025	1387-7003	РИНЦ, Белый список	Не указано	Да	9
86	24239	журнал	Designing Ruthenium Phthalocyanine with Chiral Pockets Formed by (1 <i>R</i> ,2 <i>S</i> ,5 <i>R</i>)-Menthoxymethanol	10.1021/acs.catal.4c07696	Gorbunova Yulia G, Martynov Alexander G, Lorentz Chantal, Kirakosyan Gayane A, Dmitrienko Alexander A, Kroitor Andrey P, Sorokin Alexander B, Tsivadze Aslan Yu	ACS Catalysis, 6, 2025	2155-5435	РИНЦ, Белый список	Не указано	Да	5000

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1	1A	2	3	4	5	6	7	8	9	10	11
			Groups for Enantioselective Catalysis								
87	24241	журнал	Zinc(II) Iodide Complexes with Redox-Active α -Diimine Ligands: Synthesis, Structure, Spectroscopic and Electrochemical Properties	10.3390/cryst15110967	Bushuev Vladimir A, Smolyaninov Ivan V, Yambulatov Dmitry S, Gogoleva Natalia V, Kiskin Mikhail A, Nikolaevskii Stanislav A, Shapovalov Sergey S, Skabitsky Ivan V, Voronina Julia K, Samulionis Alexandra S, Tychinina Anna A	Crystals, 11, 2025	2073-4352	РИНЦ, Белый список	<jats:p>Reactions of anhydrous Zn(II) iodides with redox-active 1,4-diaza-1,3-butadiene (DAD) and its bis(imino)acenaphtene (BIAN) derivatives in absolute acetonitrile yielded a series of new complexes: [(Mes-DAD)ZnI ₂] (1), [(dpp-DAD)ZnI ₂] (2), and [(dpp-BIAN)ZnI ₂] (3). Single crystals of all compounds were obtained, and their molecular structures were unambiguously determined by X-ray diffraction analysis. Purity of bulk samples in solid state was confirmed by PXRD. Stability of the complexes in solution was investigated by means of UV-Vis and NMR spectroscopy. Cyclic voltammetry revealed two or three quasi-reversible reduction waves in the cathodic region for complexes 1–3. The ability of 3 to accept up to three electrons highlights the potential of these compounds as electrocatalysts for reductive transformations.</jats:p>	Да	14
88	24243	журнал	Complexes of isoelectronic ions of 3d metals (MnII, FeIII) with N'-(5-chloro-2-hydroxybenzylidene)-4-nitrobenzohydrazide	10.1007/s11172-025-4763-7	Zorina-Tikhonova E N, Eremenko I L, Kiskin M A, Gogoleva N V, Skabitsky I V, Blinou D O, Matiukhina A K	Russian Chemical Bulletin, 9, 2025	1573-9171	РИНЦ, Белый список, ВАК	Не указано	Да	2838
89	24245	журнал	New 2D Coordination Polymer of Cobalt(II) Pivalate with 1,4-Diaminobutane: Synthesis and Thermal Properties	10.1134/s1070328424601456	Nikolaevskii S A, Eremenko I L, Kiskin M A, Shapovalov S S, Skabitsky I V, Dolgushin F M, Gogoleva N V, Yambulatov D S, Bushuev V A	Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2, 2025	1070-3284	РИНЦ, Белый список, ВАК	Не указано	Да	1171
90	24247	журнал	Formation Enthalpies of the Rare Earth Tantalates DyTaO ₄ and HoTaO ₄	10.1134/s0036024425700542	Bajenova I A, Gavrichev K S, Khvan A V, Gagarin P G, Guskov V N, Guskov A V	Russian Journal of Physical Chemistry A, 6, 2025	0036-0244	РИНЦ, Белый список, ВАК	<jats:sec> <jats:title>Abstract</jats:title> <jats:p>This work is devoted to the experimental determination of the enthalpies of formation of the rare-earth tantalates: DyTaO<jats:sub>4</jats:sub> and HoTaO<jats:sub>4</jats:sub>. High-temperature drop-solution calorimetry was applied to determine the values of the heat effects of drop and dissolution of the oxides and the enthalpies of formation from oxides of the orthotantalates at 298 K. The results of the current study alongside with the literature data allowed to obtain the temperature dependencies of the Gibbs free energy of formation from oxides in the high temperature range.</jats:p> </jats:sec>	Да	1222

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1	1A	2	3	4	5	6	7	8	9	10	11
91	24249	журнал	Heat Capacity and Thermodynamic Properties of La ₃ TaO ₇	10.1134/s0036024425700840	Tyurin A V, Gavrichev K S, Guskov V N, Guskov A V, Gagarin P G	Russian Journal of Physical Chemistry A, 7, 2025	0036-0244	РИНЦ, Белый список, ВАК	Не указано	Да	1485
92	24251	журнал	Heat Capacity and Thermodynamic Functions of Lutetium Titanate Lu ₂ Ti ₂ O ₇	10.1134/s0036024424703448	Guskov A V, Gavrichev K S, Gagarin P G, Khoroshilov A V, Guskov V N	Russian Journal of Physical Chemistry A, 3, 2025	0036-0244	РИНЦ, Белый список, ВАК	Не указано	Да	418
93	24252	журнал	Enthalpies of Formation of Hexaaluminates EuMg _{0.8} Al ₁₁ O _{18.8} and GdMg _{0.8} Al ₁₁ O _{18.8}	10.1134/s0036024425702711	Gagarin P G, Bazhenova I A, Kuzovchikov S V, Gavrichev K S, Khvan A V, Guskov V N, Guskov A V, Ryumin M A	Russian Journal of Physical Chemistry A, 13, 2025	0036-0244	РИНЦ, Белый список, ВАК	Не указано	Да	3233
94	24254	журнал	THERMODYNAMIC PROPERTIES OF HEXAALUMINATE	10.7868/s3034560x25110165	Gagarin P G	Журнал неорганической химии / Russian Journal of Inorganic Chemistry, 11, 2025	3034-560X		<jats:p>Heat capacity of with magnetoplumbite structure has been measured by relaxation, adiabatic and differential scanning calorimetries in the temperature range 2-1848 K. Temperature dependences of entropy, enthalpy change and derived Gibbs energy were calculated based on the smoothed heat capacity values. Enthalpy of formation from binary oxides and standard enthalpy of formation at 298 K were estimated from enthalpy of dissolution in lead borate melt measured using the drop-solution calorimetry at 1073. To determine the probability of the decomposition of into binary oxides, the temperature dependence of the Gibbs energy of the solid-phase reaction in the temperature range of 298-1800 K was estimated.</jats:p>	Да	1597
95	24255	журнал	Energetics and thermal expansion of crystal lattice of REMgAl ₁₁ O ₁₉ (RE=La, Pr, Nd, Sm) hexaaluminates with magnetoplumbite structure	10.1016/j.ceramint.2025.08.210	Bajenova I A, Gavrichev K S, Khvan A V, Ryumin M A, Nikiforova G E, Gagarin P G, Guskov V N, Guskov A V, Kuzovchikov S V	Ceramics International, 26, 2025	0272-8842	РИНЦ, Белый список	Не указано	Да	49720
96	24260	журнал	THERMODYNAMIC PROPERTIES OF LaMnAlO HEXAALUMINATE WITH MAGNETOPLUMBITE STRUCTURE	10.7868/s3034560x25120164	Bazhenova I A	Журнал неорганической химии / Russian Journal of Inorganic Chemistry, 12, 2025	3034-560X		<jats:p>Relaxation and adiabatic calorimetry were used to measure the isobaric heat capacity of LaMnAlO hexaaluminate with a magnetoplumbite structure in the temperature range of 2-330 K. Thermodynamic functions are calculated from the fitted values of the heat capacity. The enthalpy of dissolution was measured by the drop-calorimetry into the melt, on the basis of which the enthalpy of formation of LaMnAlO from oxides and elements was calculated. The calculated Gibbs energy of the lanthanum-manganese hexaaluminate decomposition into binary oxides at high temperatures has positive values, which indicates the stability of the complex	Да	1843

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1	1A	2	3	4	5	6	7	8	9	10	11
									oxide. The effect of replacing magnesium with manganese on the thermodynamic stability of a hexaaluminate with a magnetoplumbite structure is assessed. </jats:p>		
97	242 63	журнал	Synthesis, High-Temperature Heat Capacity, and Thermal Conductivity of Multi-Component Rare-Earth Zirconates	10.1134/s0 036023624 603878	Guskov A V, Gavrichev K S, Guskov V N, Gagarin P G	Russian Journal of Inorganic Chemistry, 4, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	565
98	242 65	журнал	Features of Synthesis of Magnesium Praseodymium Hexaaluminate PrMgAl11O19 with a Magnetoplumbite Structure	10.1134/s0 036023624 603696	Nikiforova G E, Gavrichev K S, Kondrat'eva O N, Gagarin P G, Ryumin M A	Russian Journal of Inorganic Chemistry, 2, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	158
99	242 66	журнал	Heat Capacity of Magnesium-Neodymium Hexaaluminate NdMgAl11O19	10.1134/s0 036024424 703163	Guskov A V, Gavrichev K S, Nikiforova G E, Ryumin M A, Guskov V N, Gagarin P G	Russian Journal of Physical Chemistry A, 2, 2025	0036-0244	РИНЦ, Белый список, ВАК	Не указано	Да	146
100	242 67	журнал	Phase Equilibria in System Y2O3-SnO2	10.1134/s0 036023624 603969	Nikiforova G E, Kondakov D F, Ryumin M A	Russian Journal of Inorganic Chemistry, 5, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	746
101	242 68	журнал	Thermophysical Properties of Ceramics Produced from Nanocrystalline InFeZnO4 Powder	10.1134/s0 036023625 601758	Kondrat'eva O N, Ketsko V A, Tyurin A V, Nikiforova G E, Smirnova M N	Russian Journal of Inorganic Chemistry, 8, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	1164
102	242 71	журнал	Perovskite-Like Solid Solution in BaO-Sc2O3-CuO-MoO3 System	10.1134/s0 036023624 603775	Smirnova M N, Arkhipenko A A, Kondakov D F, Buzanov G A, Nikiforova G E, Nipan G D	Russian Journal of Inorganic Chemistry, 4, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	585
103	242 72	журнал	Thermodynamic Properties of Thulium Stannate TmSnO	10.7868/s3 034558825 050073	Ryumin M A, Gavrichev K S, Nikiforova G E, Tyurin A V	Неорганические материалы / Inorganic Materials, 9-10, 2025	3034-5588		<jats:p>Thulium stannate with a pyrochlore structure was prepared by solid-phase synthesis. The heat capacity of polycrystalline TmSnO was measured by adiabatic and differential scanning calorimetry in the temperature range of 4.51-1573 K. The values of standard mole entropy, enthalpy change, and reduced Gibbs energy of TmSnO have been calculated from smoothed heat capacity values. The standard Gibbs energy of formation of polycrystalline thulium stannate at T = 298.15 K has been evaluated.</jats:p>	Да	591
104	242 73	журнал	Low-Temperature	10.1134/s0	Simonenko T L, Simonenko E	Russian Journal of	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	986

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1	1A	2	3	4	5	6	7	8	9	10	11
			Oleylamine-Mediated Hydrothermal Synthesis of Copper Nanowires Involving Ascorbic Acid	036023625601795	P, Arsenov P V, Gorobtsov Ph Yu, Topalova Ya R, Simonenko N P	Inorganic Chemistry, 7, 2025					
105	24274	журнал	Influence of Hydrothermal Synthesis Conditions on Microstructure Characteristics of Copper Nanowires	10.1134/s0036023625601801	Simonenko T L, Simonenko E P, Arsenov P V, Gorobtsov Ph Yu, Topalova Ya R, Simonenko N P	Russian Journal of Inorganic Chemistry, 7, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	977
106	24275	журнал	Synthesis of Nanosized SnO ₂ via Chemical Precipitation Followed by Hydrothermal Treatment Using Tin(II) Acetate	10.1134/s0036023625602776	Fisenko N A, Simonenko E P, Simonenko T L, Gorobtsov Ph Yu, Simonenko N P, Dementieva P D	Russian Journal of Inorganic Chemistry, 9, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	1316
107	24276	журнал	LOW-TEMPERATURE SYNTHESIS OF SnO NANOSHEETS VIA CHEMICAL DEPOSITION: MORPHOLOGY, STRUCTURE, AND THERMAL STABILITY	10.7868/s3034560x25110033	Solomatov I A	Журнал неорганической химии / Russian Journal of Inorganic Chemistry, 11, 2025	3034-560X		<jats:p>The formation process of SnO nanosheets was studied using the direct chemical precipitation, employing tin(II) chloride as the tin source and sodium hydroxide as the base. The obtained powder was characterized in terms of its crystalline structure and microstructure using X-ray diffraction (XRD), scanning electron microscopy (SEM), and atomic force microscopy (AFM). Spectral characteristics were examined by infrared (IR) and Raman spectroscopy, and thermal behavior was analyzed using simultaneous thermal analysis (TGA/DSC) in an air flow. It was established that the synthesized SnO is resistant to oxidation at temperatures up to 250°C. According to XRD data, the product formed has a tetragonal crystal lattice corresponding to tin monoxide, with an average coherent scattering region (CSR) size of 21.7 ± 1.3 nm. SEM and AFM analyses revealed that the powder possesses a hierarchically organized microstructure consisting of nanoplates with a thickness of 26.2 ± 2 nm and lateral dimensions ranging from 0.6 to 4.3 μm. The work function of the material's surface was estimated using Kelvin probe force microscopy (KPFM) and found to be 3.79 ± 0.02 eV.</jats:p>	Да	1462
108	24277	журнал	Preparation of Europium-Doped TiO ₂ Using Metal Alkoxoacetylacetonates	10.1134/s0036023625604015	Gorobtsov Ph Yu, Simonenko E P, Simonenko T L, Simonenko N P, Rakhimova Z I	Russian Journal of Inorganic Chemistry, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	2145
109	24278	журнал	CsPbBr ₃ and	10.71267/mencom.7612	Kozyukhin Sergei Aleksandrovich, Tameev	Mendelevov Communications, 2, 2025	1364-551X	РИНЦ, Белый список, ВАК	<jats:p>All-inorganic perovskite CsPbBr ₃ and	Да	195

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1	1A	2	3	4	5	6	7	8	9	10	11
			Cs₄PbBr₆/perovskite nanoparticles: hidden potential of Cs₄PbBr₆/ or ineffective fluorescence?		Alexey Raisovich, Bert Nikolay A, Sadovnikov Alexey A, Egorova Anastasia A, Gushchina Valeria A, Son Alexandra Grigorievna				Cs₄PbBr₆/nanoparticles are intensively studied for their unique optical properties, though synthesizing single-phase nanoparticles has posed challenges. Detailed synthesis method of CsPbBr₃ and Cs₄PbBr₆/single-phase nanoparticles and their chemical and phase analysis are described. Distinctive optical characteristics, such as photoluminescence, optical band gap and the Urbach tail region, are revealed and explained within the current conception of perovskite band structures.		
110	24280	журнал	Epoxide-mediated synthesis of germania aerogels in acetic acid	10.17586/220-8054-2025-16-3-343-351	Son A G, Kottsov S Yu, Golodukhina S V, Gajtko O M, Baranchikov A E, Kozlova T O	НАНОСИСТЕМЫ: ФИЗИКА, ХИМИЯ, МАТЕМАТИКА, 3, 2025	2305-7971	РИНЦ, Белый список, ВАК	A novel alkoxide-free method for the sol-gel synthesis of germania aerogels is proposed. The method is based on the hydrolysis of GeCl₄ by propylene oxide in concentrated acetic acid which is used as a solvent. The proposed protocol allows one to obtain monolithic amorphous germania aerogels constructed of a three-dimensional network of nanoscale (~20 nm) particles and possessing specific surface area of about 80 m²/g. The addition of hydrochloric acid to the reaction mixture results in the synthesis of nanocrystalline GeO₂ (hexagonal system) aerogels. The synthesized materials were characterized by X-ray diffraction, IR spectroscopy, scanning electron microscopy and low temperature nitrogen adsorption.	Да	343
111	24281	журнал	Hybrid Tuning in NHC Ligands: Synergistic Effects of BIAN <i>π</i>-Conjugation and Aryl <i>σ</i>-Modulation in Gold(I) Complexes	10.1002/chem.202501647	Prima Darya O, Son Alexandra G, Pankov Roman O, Khanipova Aliya M, Ananikov Valentine P, Minyaev Mikhail E, Fakhrutdinov Artem N, Ivanova Nina M, Kolesnikov Andrey E	Chemistry - A European Journal, 44, 2025	1521-3765	РИНЦ, Белый список	Abstract<p>In this study, we explore extended design of metal-NHC complexes that relies on dual strategies for tuning ligand properties: (i) electronic modulation through <i>π</i>-extended frameworks such as bis(imino)acenaphthene (BIAN), and (ii) systematic aryl substitution to influence <i>σ</i>-donor strength and steric environment. We report the first integrated exploration of these two strategies on a unified ligand platform. A series of Au(I)/BIAN-NHC_X complexes were synthesized by introducing electron-withdrawing substituents (X = F, Cl, Br, CF₃) at the <i>ortho</i>-, <i>meta</i>-, and <i>para</i>-positions of the <i>N</i>-aryl groups. This hybrid tuning approach allowed us to probe the synergistic and antagonistic effects arising from	Да	15

No	ID	Вид публикации	Наименование публикации	DOI публикации	Автор(ы)	Издание, номер, год	ISSN / ISBN издания	Индексация издания	Краткое описание научных результатов	Наличие в публикации ссылки на ЦКП	Страница , содержащая ссылку на ЦКП
1	1A	2	3	4	5	6	7	8	9	10	11
									interplay across multiple dimensions. Each complex was thoroughly characterized with respect to synthetic yield, structural features (including X-ray structure and dynamics in solution), photophysical properties (UV-Vis and luminescence), catalytic performance in hydroamination of phenylacetylene, and cytotoxicity in HEK293T cells. Structure-property correlations revealed distinct cooperative and counteractive regimes depending on the substituent type and position. These findings demonstrate that combining orthogonal electronic control elements enables a more predictive and fine-grained design of NHC-based metal complexes, with future implications for catalysis, materials science, and biomedical applications.		
112	242 82	журнал	Machine learning recognition of hybrid lead halide perovskites and perovskite-related structures from X-ray diffraction patterns	10.1039/d4nr04531a	Korolev V V, Tarasov A B, Goodilin E A, Eremin N N, Udalova N N, Belich N A, Kobeleva E A, Marchenko E I	Nanoscale, 5, 2025	2040-3364	РИНЦ, Белый список	We proposed a simple approach for quickly identifying the dimensionality of inorganic substructures, types of connections of lead halide polyhedra and structure types using common powder XRD data and a ML-decision tree classification model.	Да	10
113	242 83	журнал	Compact Meldonium Zwitterion as a Promising Multifunctional Surface Passivator for Perovskite Solar Cells with Increased Stability	10.1021/acsaem.4c02820	Tarasov Alexey B, Goodilin Eugene A, Ivlev Pavel A, Belich Nikolai A, Tutantsev Andrei S, Belyaeva Anna O, Ibragimov Eduard S, Marchenko Ekaterina I, Petrov Andrey A, Nemygina Elizaveta M, Udalova Natalia N	ACS Applied Energy Materials, 4, 2025	2574-0962	Белый список	Не указано	Да	2246
114	242 84	журнал	Determination of rare-earth elements in medium- and high-entropy ceramics by WDXRF and handheld XRF. Critical evaluation of the need for deconvolution	10.1039/d5ja00128e	Akhmetzhanov Timur F, Baranovskaya Vasilisa B, Doronina Marina S, Yakushev Ilya A, Ryumin Mikhail A, Arkhipenko Alexandra A	Journal of Analytical Atomic Spectrometry, 9, 2025	0267-9477	РИНЦ, Белый список	This article discusses the specifics of high concentration rare earth element determination and critically evaluates the need for deconvolution when analysing heat-resistant materials using a handheld X-ray spectrometer.	Да	2360
115	242 85	журнал	Perfluoro(butylcyclohexane)-Cis-Perfluoro decalin Mixture Separation by Heteroazeotropic Distillation	10.1002/ceat.70068	Kisel Alexey V, Polkovnichenko Andrei V, Ksenofontova Tatiana D, Privalov Viktor I, Kvashnin Sergey Ya, Lupachev Egor V	Chemical Engineering and Technology, 7, 2025	1521-4125	РИНЦ, Белый список	Abstract This work investigates the process of distillation purification of perfluoro(butylcyclohexane) (BCH) and concentration of perfluorodecalin (PFD) from industrial samples of BCH-PFD mixtures. According to experimental data, the main difficulty is the separation of BCH from the	Да	11

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1	1A	2	3	4	5	6	7	8	9	10	11
									<jats:italic>cis</jats:italic>-isomer of PFD, for which distillation is ineffective. To intensify this process, a heteroazeotropic distillation method in the presence of water was proposed and implemented on a pilot-scale distillation column. This approach allows BCH to be purified from PFD up to more than 0.99 mol.fr. The advantage of the proposed method is the use of a safe separating agent—water, which is especially important due to the widespread use of BCH and PFD in medicine. Based on experimental data, the work also determined the characteristics of heteroazeotropes in the systems BCH-water, <jats:italic>cis</jats:italic>-PFD-water, and <jats:italic>trans</jats:italic>-PFD-water and relative volatility between BCH and <jats:italic>cis</jats:italic>-PFD in the presence of water.</jats:p>		
116	24286	журнал	Application of gas chromatography-mass spectrometry for the detection of impurities in chlorogenic and caffeic acids	10.26896/1028-6861-2025-91-11-5-12	Baranovskaia V B, Ksenofontova T D	ЗАВОДСКАЯ ЛАБОРАТОРИЯ. ДИАГНОСТИКА МАТЕРИАЛОВ, 11, 2025	2588-0187	РИНЦ, Белый список, ВАК	<jats:p>Hydroxycinnamic acids, including caffeic and chlorogenic acids, are widely found in plant extracts and demonstrate significant biological activity, making them promising for pharmaceutical and food industry applications. However, their natural origin and tendency to degrade during storage requires quality control, including the identification of impurities and degradation products. This study explores the potential of gas chromatography - mass spectrometry (GC-MS) for the analysis of pure caffeic and chlorogenic acid samples in order to detect impurities of various origins. It demonstrates that GC-MS analysis of acids without derivatization is not feasible due to the high polarity and thermal instability of the compounds under study, which leads to their decomposition under chromatography conditions. To improve volatility and thermal stability, derivatization was performed using N,O-bis(trimethylsilyl)trifluoroacetamide in the presence of trimethylchlorosilane, which increased the method's sensitivity. Mass spectral analysis of the derivatized samples, supported by library searches, revealed the presence of various cinnamic acid derivatives, as well as an unidentified peak, presumably corresponding to the trimethylsilyl derivative of trihydroxycinnamic acid. The results demonstrate the effectiveness of GC-MS with prior derivatization for the detailed analysis of pure hydroxycinnamic acids and confirm its suitability for quality control and stability studies of these compounds.</jats:p>	Да	11
117	24287	журнал	Degradation of Enrofloxacin in Aqueous	10.7868/s3034605325060109	Nikonov R V, Kamler A V, Baranovskaya V B, Doronina M	Теоретические основы химической	3034-6053		<jats:p>The presence of fluoroquinolone antibiotics in the aquatic environment causes serious environmental concerns	Да	121

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1	1A	2	3	4	5	6	7	8	9	10	11
			Solutions during Hybrid Cavitation-Plasma Treatment		S, Ksenofontova T D, Arkhipenko A A, Fedulov I S, Mikhalev E S	технологии / Theoretical Foundations of Chemical Engineering, 6, 2025			due to their toxicity and ability to stimulate the development of antibiotic resistance. In this work, a combined approach to water purification is studied, combining hydrodynamic cavitation and plasma discharge for the degradation of enrofloxacin in aqueous solutions. The effect of the power of electrical pulses (1.5 and 3.0 kW) and the number of treatment cycles (1-2) at initial antibiotic concentrations of 10 and 100 mg/l is estimated. With a lower power and two treatment cycles, the degradation degree of the antibiotic reached 69.2%. Additionally, a prolonged treatment effect is revealed due to the oxidation of intermediate decomposition products by reactive oxygen forms generated in the system. The most pronounced effect is observed at enrofloxacin concentrations of 10 mg/l. The results obtained confirm the high efficiency and practical potential of this hybrid technology to remove antibiotics in water treatment systems.</jats:p>		
118	24289	журнал	Niobium and tantalum speciation by X-ray fluorescence spectra using the wavelength spectrometer «Spectroscan max-GVM»	10.26896/1028-6861-2025-91-11-34-40	Marina G E, Mezevaja L Yu, Akhmetzhanov T F, Filippov M N	ЗАВОДСКАЯ ЛАБОРАТОРИЯ. ДИАГНОСТИКА МАТЕРИАЛОВ, 11, 2025	2588-0187	РИНЦ, Белый список, ВАК	<jats:p> The possibility of determining the speciation of tantalum and niobium in various compounds (metallic Ta and Nb, TaH, NbH, Ta <jats:sub>2</jats:sub> O <jats:sub>5</jats:sub> , and Nb <jats:sub>2</jats:sub> O <jats:sub>5</jats:sub>) using the ratio of the intensities of the characteristic emission lines of these elements was investigated. The «Spectroscan Max-GVM» commercial medium-resolution X-ray fluorescence spectrometer was used for experiment. Tantalum <jats:italic>L</jats:italic> -series lines in the range of 1000 - 1450 mÅ and niobium <jats:italic>L</jats:italic> -series lines (5000 - 5400 mÅ) were used to calculate the relative integral intensity. Since the difference in the ratios of characteristic emission lines intensities for different element speciation are small, special attention was paid to spectra processing for selection of smoothed line intensities in the spectral ranges chosen. The proposed approach allowed to distinguish Ta compounds using both the intensity ratios of high-lying/low-lying transitions and two low-lying transitions. It was also possible to distinguish all three of Ta speciation forms using the ratio of the most intense (<jats:italic>L</jats:italic> β <jats:sub>2,15</jats:sub> /	Да	39

No	ID	Вид публикации	Наименование публикации	DOI публикации	Автор(ы)	Издание, номер, год	ISSN / ISBN издания	Индексация издания	Краткое описание научных результатов	Наличие в публикации ссылки на ЦКП	Страница, содержащая ссылку на ЦКП
1	1A	2	3	4	5	6	7	8	9	10	11
									β) lines of the -series. In the case of Nb, it was possible to distinguish the oxide from the pure metal and its hydride by the ratio of Nb γ and Nb β intensities, however the proposed approach didn't allow to distinguish the metal from its hydride. The proposed spectral recording mode is compatible with the mode used in the standard X-ray fluorescence analysis scheme, which, in principle, allows the determination of the elemental composition and form of presence of analytes in a single experiment.		
119	24290	журнал	Термическое воздействие электронного зонда на исследуемый объект в растровой электронной микроскопии и рентгеноспектральном микроанализе	10.22184/2227-572x.2025.15.6.432.441	Филиппов М Н, Степович М А	ANALYTICS Russia, 6, 2025	2227-572X	РИНЦ, ВАК	Приведен критический обзор работ по оцениванию термического воздействия электронного зонда в растровой электронной микроскопии и электронно-зондовом микроанализе. Основное внимание уделено теоретической оценке температуры перегрева анализируемого образца. Рассмотрены два основных направления исследований. Первое включает работы, в основе которых лежит строгое решение краевой задачи для дифференциального уравнения теплопроводности с правой частью, максимально точно описывающей процесс торможения электронов в веществе, а также с применением метода Монте-Карло. Другое направление связано с использованием упрощенных моделей генерации тепла, позволяющих получать аналитические выражения для температуры перегрева. Проведено сопоставление результатов, полученных различными способами.	Да	440
120	24291	журнал	Synthesis, Crystal Structure, and Magnetic Properties of Y _{3-x} (CeBi) _x Fe _{3.5} Ga _{1.5} O ₁₂ Solid Solution	10.1134/s0036023625602685	Nikiforova G E, Ketsko V A, Kondratyeva O N, Goeva L V, Romanova E S, Smirnova M N	Russian Journal of Inorganic Chemistry, 11, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	1477
121	24292	журнал	Контроль качества фторидных стекол. Обзор возможностей и ограничений современных методов	10.22184/2227-572x.2025.15.4.282.291	Марьина Г Е, Егорова А А, Барановская В Б	ANALYTICS Russia, 4, 2025	2227-572X	РИНЦ, ВАК	Развитие технологий фотоники, инфракрасной оптики и лазерной спектроскопии стимулировало активные исследования фторидных стекол. Однако их сложный многокомпонентный состав и высокая чувствительность функциональных характеристик к	Да	290

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1	1A	2	3	4	5	6	7	8	9	10	11
			анализа твердофазных систем						содержанию примесей требуют контроля состава, структуры и свойств на всех этапах получения. В обзоре обобщены возможности методов анализа твердофазных систем, таких как ИК- и КР-спектроскопия, ЯМР, РЭМ, РФЛА, РФА, ДТА, применяемых для этих целей. Обозначены нерешенные задачи и намечены перспективные направления развития в области химической диагностики фторидных стекол.</jats:p>		
122	242 94	статья	Влияние состава феррограната иттрия на свойства пленочных структур Y3Fe5O12/GaAs	Не указан	Смирнова М.Н., Короткова Н.А., Доронина М.С., Барановская В.Б., Кецо В.А.	Заводская лаборатория. Диагностика материалов, 2025	2588-0187	Белый список, ВАК	Не указано	Да	16
123	242 95	журнал	Two novel drug-nutraceutical cocrystal hydrates of carbamazepine: The influence of isomerism in trihydroxybenzoic acids on the in vitro/in vivo properties	10.1016/j.molliq.2024.126784	Drozd Ksenia V, Perlovich German L, Sokolova Irina V, Vlasov Mikhail Yu, Churakov Andrei V, Manin Alex N, Boycov Denis E	Journal of Molecular Liquids, 2025	0167-7322	РИНЦ, Белый список	Не указано	Да	11
124	242 97	журнал	Composition, Structure, and Thermal Properties of Potassium Acetate Hydrates	10.1021/acs.inorgchem.4c05536	Bezzubov Stanislav I, Churakov Andrei V, Latipov Egor V, Kalle Paulina	Inorganic Chemistry, 4, 2025	1520-510X	РИНЦ, Белый список	Не указано	Да	2152
125	242 98	журнал	СИНТЕЗ И ФИЗИКО-ХИМИЧЕСКИЕ СВОЙСТВА СОЛЕЙ МАГНИЯ С 4-ОКСО-4-ПИРАНОВЫМИ КИСЛОТАМИ	10.31857/s0044457x25020065	Кравцов А А, Вашурин А С, Чураков А В, Моисеев А В, Назаренко М А, Иващенко Л И, Беспалов А В, Киндоп В К, Козин С В	ЖУРНАЛ НЕОРГАНИЧЕСКОГО ХИМИИ, 2, 2025	0044-457X	РИНЦ, Белый список, ВАК	В результате взаимодействия 4-оксо-4-пиран-2,6-дикарбоновой (хелидоновой) кислоты с ацетатом магния было получено сокристаллическое соединение - хелидонат магния. Изучение процесса термоокислительной деструкции хелидоната магния показало, что его дегидратация осуществляется в два этапа, а термодеструкция органической части сопровождается ярко выраженными тепловыми эффектами. В структуре хелидоната магния вокруг катиона магния имеется как внутренняя, так и внешняя координационная сфера. Во внутреннюю сферу входят шесть молекул воды, образующие гексааквакатион магния. Внешнюю сферу образуют анионные остатки хелидоновой кислоты, связанные водородными связями с молекулами воды внутренней координационной сферы катиона магния. Структура хелидоната магния кристаллизуется в триклинной сингонии пр. гр. $P\bar{1}$	Да	199

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1	1A	2	3	4	5	6	7	8	9	10	11
									и имеет обширную сеть водородных связей между координированными молекулами воды, анионами кислоты и катионами гексагидрата магния. Сравнительный анализ нейропротекторного действия хелидоната магния и хелидоновой кислоты показал, что оба соединения защищали культивируемые нейроны в модели клеточной ишемии. Данный эффект выражался снижением гибели нейронов при кислородо-глюкозной депривации. При этом хелидонат магния был эффективнее хелидоновой кислоты при тех же концентрациях.		
126	24299	журнал	Novel Drug-Drug Cocrystalline Forms of Carbamazepine with Sulfacetamide: Preparation, Characterization, and In Vitro/In Vivo Performance Evaluation	10.3390/pharmaceutics17050678	Vlasov Mikhail Yu, Perlovich German L, Kachalkina Irina V, Churakov Andrei V, Manin Alex N, Drozd Ksenia V, Boycov Denis E	Pharmaceutics, 5, 2025	1999-4923	РИНЦ, Белый список	<jats:p>Objectives: Drug–drug cocrystallization represents a promising approach for the development of novel combination drugs with improved physicochemical and biopharmaceutical properties. The aim of the present research is to prepare novel drug-drug cocrystalline forms of antiepileptic drug carbamazepine (CBZ) with sulfacetamide (SCTM). Methods: The novel CBZ cocrystal methanol solvate and cocrystal hydrate were prepared via solvent evaporation technique and characterized by single crystal X-ray diffraction, differential scanning calorimetry and thermogravimetric analysis. Results: Single-crystal X-ray diffraction and thermal analysis revealed that the multicomponent solids are isostructural, wherein the solvent molecule does not play a structure-forming role. To optimize the synthesis of [CBZ+SCTM+H2O] (1:1:0.7), the binary and ternary phase diagrams were constructed in acetonitrile at 25 °C. A thorough investigation of the cocrystal hydrate behavior in aqueous solution showed that the pH of the dissolution medium exerted a significant effect on the stability and solubility of [CBZ+SCTM+H2O] (1:1:0.7). According to the dissolution and diffusion experiments in a buffer solution pH 6.5, the cocrystal hydrate characterized an enhanced dissolution rate and flux of CBZ. Pharmacokinetic studies in rabbits showed that the novel cocrystal hydrate exhibited a comparable bioavailability to the parent CBZ. Conclusions: Overall, this work reports the preparation of a novel CBZ drug-drug cocrystal hydrate, which can be considered as an alternative CBZ solid form for oral usage, possessing additive pharmacological effect.</jats:p>	Да	19
127	24300	журнал	Features of the Formation of Halide Complexes of Platinum Metals with Cobalt(III) Ammines	10.1134/s0036023624603994	Lobkov Ya A, Churakov A V, Panina N S, Buslaeva T M, Volchkova E V, Dedyukhin I A	Russian Journal of Inorganic Chemistry, 6, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	801

No	ID	Вид публикации	Наименование публикации	DOI публикации	Автор(ы)	Издание, номер, год	ISSN / ISBN издания	Индексация издания	Краткое описание научных результатов	Наличие в публикации ссылки на ЦКП	Страница, содержащая ссылку на ЦКП
1	1A	2	3	4	5	6	7	8	9	10	11
128	243 01	журнал	Azole Homodimers as Promising Antifungal Agents: Synthesis, Biological Activity Evaluation and Molecular Modeling	10.2174/0109298673351661241219053546	Panov Alexey A, Lavrenov Sergey N, Simonov Alexander Yu, Levshin Igor B, Trenin Alexey S, Churakov Andrei V, Mantsyzov Alexey B, Solovieva Svetlana E	Current Medicinal Chemistry, 37, 2025	0929-8673	РИНЦ, Белый список	<jats:sec> <jats:title>Introduction:</jats:title> <jats:p>A new series of triazoles with antifungal activity have been synthesized in a one-step fashion by direct reaction of 2-(2,4-difluorophenyl)-2,3-epoxy-1-(1H-1,2,4-triazol-1-yl)propane with various diamines.</jats:p> </jats:sec> <jats:sec> <jats:title>Methods:</jats:title> <jats:p>Obtained compounds were profiled for biological activity against pathogenic strains of fungi C. albicans and A. niger. Molecular modeling was used to predict binding modes.</jats:p> </jats:sec> <jats:sec> <jats:title>Results:</jats:title> <jats:p>The lead compound was 4 times more active against C. albicans than fluconazole and demonstrated a wider spectrum of activity, inhibiting the growth of A. niger.</jats:p> </jats:sec> <jats:sec> <jats:title>Conclusion:</jats:title> <jats:p>The results presented herein can contribute to the development of novel antifungal therapeutic agents.</jats:p> </jats:sec>	Да	8481
129	243 02	журнал	Polymorphism and Crystallization of Sodium Acetate	10.1021/acs.cgd.5c01101	Bezzubov Stanislav I, Churakov Andrei V, Vener Mikhail V, Kalle Paulina	Crystal Growth & Design, 20, 2025	1528-7505	РИНЦ, Белый список	Не указано	Да	8663
130	243 04	журнал	The Redox Properties of Germylenes Based on Alkyl- and Aryl-Substituted Diethylenetriamines	10.1021/acs.organomet.5c00324	Serova Valeriia A, Karlov Sergey S, Egorov Mikhail P, Oprunenko Yuri F, Churakov Andrei V, Zabalov Maxim V, Agaeva Milana U, Syroeshkin Mikhail A, Lyssenko Konstantin A, Mankaev Badma N	Organometallics, 22, 2025	1520-6041	РИНЦ, Белый список	Не указано	Да	2669
131	243 05	журнал	Hydrogen Bond Architecture, Thermal Anisotropy, and Dissolution Performance of Riluzole Multicomponent Crystals	10.1021/acs.cgd.5c00792	Perlovich German L, Churakov Andrei V, Drozd Ksenia V, Ramazanova Anna G, Voronin Alexander P	Crystal Growth & Design, 17, 2025	1528-7505	РИНЦ, Белый список	Не указано	Да	7261
132	243 06	журнал	Virtual Screening, Polymorphism, and Formation Thermodynamics Study of Riluzole Multicomponent Crystals with Dihydroxybenzoic Acids	10.1021/acs.cgd.4c01278	Voronin Alexander P, Perlovich German L, Kulikova Elizaveta S, Vologzhanina Anna V, Churakov Andrei V, Ramazanova Anna G	Crystal Growth & Design, 22, 2024	1528-7505	РИНЦ, Белый список	Не указано	Да	9786
133		журнал					1528-7505		Не указано	Да	1395

No	ID	Вид публикации	Наименование публикации	DOI публикации	Автор(ы)	Издание, номер, год	ISSN / ISBN издания	Индексация издания	Краткое описание научных результатов	Наличие в публикации ссылки на ЦКП	Страница , содержащая ссылку на ЦКП
1	1A	2	3	4	5	6	7	8	9	10	11
	24308		Combined X-ray Crystallographic and Periodic DFT Study of Supramolecular Organization and Intermolecular Interactions in Crystalline Peroxosolvates of (Nitropyrazolyl)furazans	10.1021/acs.cgd.4c01396	Prikhodchenko Petr V, Churakov Andrei V, Vener Mikhail V, Dalinger Igor L, Medvedev Alexander G	Crystal Growth & Design, 5, 2025		РИНЦ, Белый список			
134	24336	журнал	Si-decorated photoanodes for dye sensitised solar cells	10.1016/j.tsf.2025.140652	Steparuk A S, Kozyukhin S A, Grinberg V A, Andreev V N, Emets V V, Krupanova D A, Teplonogova M A, Shuleiko D V, Nesterov V Y, Irgashev R A, Tekshina E V	Thin Solid Films, 2025	0040-6090	РИНЦ, Белый список	Не указано	Да	7
135	24337	журнал	Morphology and Optical Properties of Amorphous Thin Films (InSe)x(GaSe)100-x	10.1007/s10717-025-00763-9	Pepelyaev D V, Teplonogova M A, Kozyukhin S A	Glass and Ceramics (English translation of Steklo i Keramika), 3-4, 2025	1573-8515	РИНЦ, Белый список, ВАК	Не указано	Да	154
136	24339	журнал	Versatile CoII and NiIII mononuclear complexes with furoate/thiophencarboxylate anions and 3,5-dimethylpyrazole-Synthesis, structure, magnetic, catalytic and antimycobacterial properties	10.1016/j.ica.2024.122445	Dolgushin Fedor M, Eremenko Igor L, Lutsenko Irina A, Titov Konstantin O, Bekker Olga B, Mokhov Vladimir M, Panov Alexandr O, Lagutina Anastasia V, Nebykov Denis N, Gogoleva Natalia V, Efimov Nikolay N, Babeshkin Konstantin A, Uvarova Marina A	Inorganica Chimica Acta, 2025	0020-1693	РИНЦ, Белый список	Не указано	Да	10
137	24340	журнал	Pentagonal-bipyramidal dysprosium(<sc>iii</sc>) complexes with two apical phosphine oxide ligands and equatorial pentadentate N₃O₂ Schiff-base ligands: breakdown of the apical magnetic axiality by a strong equatorial crystal field	10.1039/d4qi02262a	Bazhenova Tamara A, Yagubskii Eduard B, Mironov Vladimir S, Babeshkin Konstantin A, Efimov Nikolay N, Yakushev Ilya A, Dmitriev Alexei I, Zhidkov Mikhail V, Yureva Elena A, Korchagin Denis V, Kopotkov Vyacheslav A	Inorganic Chemistry Frontiers, 1, 2025	2052-1553	РИНЦ, Белый список	<jats:p>Pentagonal-bipyramidal Dy(<jats:sc>iii</jats:sc>) complexes with rigid equatorial pentadentate N<jats:sub>3</jats:sub>O<jats:sub>2</jats:sub> Schiff-base ligands exhibit breakdown of the apical magnetic axiality due to a strong equatorial crystal field resulting in low single-molecule magnet performance.</jats:p>	Да	251
138		журнал					1002-0721	Белый список	Не указано	Да	667

No	ID	Вид публикации	Наименование публикации	DOI публикации	Автор(ы)	Издание, номер, год	ISSN / ISBN издания	Индексация издания	Краткое описание научных результатов	Наличие в публикации ссылки на ЦКП	Страница, содержащая ссылку на ЦКП
1	1A	2	3	4	5	6	7	8	9	10	11
	24389		Quenching luminescence, thermolysis and SMM behavior of new TbIII, EuIII, GdIII complexes with 4-nitro-N'-(pyridin-2-ylmethylene)benzohydrazide	10.1016/j.jre.2024.03.023	Matiukhina Anna K, Eremenko Igor L, Kiskin Mikhail A, Zorina-Tikhonova Ekaterina N, Efimov Nikolay N, Babeshkin Konstantin A, Morozov Pavel G, Gogoleva Natalia V, Popov Leonid D, Taydakov Ilya V, Metlin Mikhail T	Journal of Rare Earths, 4, 2025					
139	24391	журнал	Halogen bonding promotes ferromagnetic exchange in nitronyl nitroxide radicals: A quantitative analysis	10.1016/j.matchemphys.2024.130252	Dmitriev Alexey A, Kukushkin Vadim Yu, Romanenko Galina V, Postnikov Pavel S, Petunin Pavel V, Efimov Nikolay N, Xia Debin, Gritsan Nina P, Frontera Antonio, Gomila Rosa M, Tretyakov Evgeny V, Kudryavtseva Ekaterina N	Materials Chemistry and Physics, 2025	0254-0584	РИНЦ, Белый список	Не указано	Да	130251
140	24396	журнал	Ternary intermetallic compounds R11Ru4In9 (R Pr, Nd) and R10Ru1+xIn3-x (R Ho, Er, Lu): Synthesis, crystal structure and physical properties	10.1016/j.jssc.2025.125417	Kurenbaeva Zh, Sedelnikov D, Murashova E, Efimov N	Journal of Solid State Chemistry, 2025	1095-726X	РИНЦ, Белый список	Не указано	Да	10
141	24398	журнал	Tetracyanidoborates of Divalent Eu and Yb 3D Metal-Organic Frameworks with Cubic Structure. Thermochromic Luminescence and Slow Relaxation of Magnetization of Eu[B(CN) ₄] ₂	10.1021/acs.chemmater.4c03507	Bernhardt Eduard, Ugolkova Elena A, Vasilev Pavel N, Efimov Nikolay N, Polyakova Svetlana K, Balashova Tatyana V, Ilichev Vasily A, Rogozhin Anton F, Bochkarev Mikhail N, Fukin Georgy K, Rumyantsev Roman V	Chemistry of Materials, 10, 2025	1520-5002	РИНЦ, Белый список	Не указано	Да	3691
142	24399	журнал	Coordination Compounds of Cobalt(II) and Zinc(II) with N,N'-((Hydrazine-1,2-diylidene-bis(methanylylidene))bis(2,1-phenylene))bis(4-methylbenzenesulfonamide): Synthesis and Properties	10.1134/s1070328424601638	Demidov O P, Burlov A S, Metelitsa A V, Popov L D, Chernyshev A V, Efimov N N, Galkina A S, Vikrishchuk N I, Kolodina A A	Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 3, 2025	1070-3284	РИНЦ, Белый список, ВАК	Не указано	Да	182

No	ID	Вид публикации	Наименование публикации	DOI публикации	Автор(ы)	Издание, номер, год	ISSN / ISBN издания	Индексация издания	Краткое описание научных результатов	Наличие в публикации ссылки на ЦКП	Страница, содержащая ссылку на ЦКП
1	1A	2	3	4	5	6	7	8	9	10	11
143	244 01	журнал	Novel bimetallic Ln ^{III} /V ^{IV} (Ln = Gd, Tb, Dy, Er, Yb, Lu) compounds with cyclopropane-1,1-dicarboxylate anions and bulky tetrabutylammonium cations: synthesis, structure, magnetic properties, and thermal decomposition	10.1039/d5nj03452c	Bazhina Evgeniya S, Eremenko Igor L, Kiskin Mikhail A, Efimov Nikolay N, Vasilev Pavel N, Matiukhina Anna K, Gogoleva Natalia V, Shmelev Maxim A	New Journal of Chemistry, 47, 2025	1369-9261	РИНЦ, Белый список	<jats:p>A new type of bimetallic Ln <jats:sup>III</jats:sup> /V <jats:sup>IV</jats:sup> compounds (Ln = Gd, Tb, Dy, Er, Yb, Lu) was synthesized using cyclopropane-1,1-dicarboxylate anions and Bu <jats:sub>4</jats:sub> N <jats:sup>+</jats:sup> cations. Compounds with Gd <jats:sup>III</jats:sup>, Dy <jats:sup>III</jats:sup>, Yb <jats:sup>III</jats:sup>, and Lu <jats:sup>III</jats:sup> exhibit field-induced slow magnetic relaxation. </jats:p>	Да	20764
144	244 04	журнал	Dual magnetic behavior of an Fe(<sc>iii</sc>)-dioxolene complex with tri-substituted catechol	10.1039/d5dt00437c	Efimov Nikolay N, Vasiliev Pavel N, Kubrin Stanislav P, Demidov Oleg P, Cherevov Maxim G, Starikova Alyona A, Arsenyev Maxim V, Piskunov Alexandr V, Yue Ling-Tai	Dalton Transactions, 18, 2025	1477-9234	РИНЦ, Белый список	<jats:p>We describe a family of the Fe(<jats:sc>iii</jats:sc>)-dioxolene complexes demonstrating a diversity of magnetic properties: from the thermally induced spin-crossover to field-supported single molecule magnetism.</jats:p>	Да	7446
145	244 07	журнал	Trinuclear [FeII2-Mg^{II}] compounds with aminopyridines as precursors for supported C≡C bond hydrogenation catalysts at atmospheric pressure in a plug-flow reactor	10.1039/d5dt00653h	Dolgushin Fedor M, Mokhov Vladimir M, Lagutina Anastasia V, Nebykov Denis N, Koshenskova Kseniya A, Tigai Yana A, Lutsenko Irina A, Eremanko Igor L, Novichikhin Sergey V, Imshennik Vladimir K, Gogoleva Natalia V, Babeshkin Konstantin A, Efimov Nikolay N, Razvorotneva Lada S	Dalton Transactions, 23, 2025	1477-9234	РИНЦ, Белый список	<jats:p>The development of precursors for hydrogenation processes based on heterometallic iron(<jats:sc>iii</jats:sc>) complexes will provide a relevant alternative to “non-platinum” catalysts.</jats:p>	Да	9336
146	244 10	журнал	Nature and properties of zinc(I) species and their oxygenated derivatives on the surface of Zn/Al2O3 prepared via zinc vapor interaction with alumina. EPR, UV-Vis and DRIFTS characterization	10.1016/j.apusc.2025.164199	Serykh Alexander I, Efimov Nikolay N	Applied Surface Science, 2025	0169-4332	РИНЦ, Белый список	Не указано	Да	2
147	244 14	журнал	Mutual influence of photochromic and magnetic sublattices in	10.1016/j.jca.2025.122755	Shilov Gennadii V, Aldoshin Sergey M, Sanina Nataliya A, Efimov Nikolay N, Babeshkin	Inorganica Chimica Acta, 2025	0020-1693	РИНЦ, Белый список	Не указано	Да	3

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1	1A	2	3	4	5	6	7	8	9	10	11
			crystals of erbium(III) tetrakis(hexafluoroacetyl acetate) salt with 1-[(1',3',3'-trimethylspiro[2i/-1-benzopyran-2,2'-indoline]-8-yl)methyl]pyridinium		Konstantin A, Yurieva Elena A, Shtefanets Valeriya P						
148	24415	журнал	МАГНИТНАЯ ФАЗОВАЯ ДИАГРАММА ТВЕРДОГО РАСТВОРА FeCoCrS (0 < < 1)	10.7868/s3034558825010015	Denisenko A D, Efimov N N, Vasil'ev P N, Бушева E B, Sabunina G G	Неорганические материалы / Inorganic Materials, 1-2, 2025	3034-5588		<jats:p>Измерены магнитные свойства твердых растворов FeCoCrS (0 < < 1) в интервале температур 5-300 К в переменном магнитном поле. Динамические свойства измерялись при частотах 100, 1000 и 10 000 Гц и амплитуде, увеличенной до 15 Э, что позволило четко отследить температуры переходов, а также определить характер магнитных переходов при пониженных температурах. На основании измеренных динамических свойств построена магнитная фазовая диаграмма системы FeCrS-CoCrS. Показано, что основное поле занимают парамагнетик, ферримагнетик и возвратное спиновое стекло. Найдено, что все образцы являются ферримагнетиками с температурами Кюри, увеличивающимися от 185 К (= 0) до 223 К (= 1) с ростом концентрации вводимого кобальта.</jats:p>	Да	16
149	24416	журнал	Application of pulsed heating in time-resolved EPR spectroscopy for longitudinal relaxation measurements	10.1063/5.0291635	Fedin Matvey V, Efimov Nikolay N, Isaev Nikolay P, Getmanov Yaroslav V, Ishchenko Anastasia S, Maryasov Alexander G, Melnikov Anatoly R, Veber Sergey L	Journal of Chemical Physics, 16, 2025	1089-7690	РИНЦ, Белый список	<jats:p>Transient or time-resolved electron paramagnetic resonance spectroscopy (TR EPR) is a powerful method for studying various photogenerated paramagnetic species. The use of low-energy quanta, such as terahertz (THz) radiation, as an external stimulus in TR EPR allows the initiation of spin dynamics without generating new paramagnetic species other than those already present in the system. This spin dynamic reflects the return of the system to thermodynamic equilibrium, governed by a spin-lattice relaxation time, T1. The latter, together with a phase memory time, is of paramount importance for the practical implementation of single-molecule magnets and molecular spin qubits. In this work, we present TR EPR spectroscopy with pulsed heating by THz pulses as a versatile spectroscopic method for determining T1 in a wide range of paramagnetic systems. To define the scope of the method, we developed a numerical model based on the Liouville-von Neumann equation, with the equilibrium density matrix defined by the temperature profile of the lattice. Using experimental data obtained for [CoTp2] (cobalt(II) bis[tris(pyrazolyl)borate]) with S = 3/2, we	Да	164208

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1	1A	2	3	4	5	6	7	8	9	10	11
									compared the proposed method with two other commonly used techniques: alternating current (AC) magnetometry and pulsed EPR. All three methods were found to be in qualitative agreement and provided complementary information about the relaxation properties. TR EPR spectroscopy showed the orientation dependence of T1. AC magnetometry revealed the dependence of T1 on the value of the external magnetic field, which was attributed in the literature to a field-induced Raman process. Finally, pulsed EPR spectroscopy was found to be biased by strong spectral diffusion.</jats:p>		
150	251 17	журнал	Layered Rare-Earth Hydroxides Intercalated with Metal Complexes: Copper Malonates Make a Difference	10.1021/acs.inorgchem.5c01965	Gogoleva Natalia V, Sheichenko Ekaterina D, Yapryntsev Alexey D, Ivanov Vladimir K, Baranchikov Alexander E, Efimov Nikolay N, Ananyev Ivan V, Breslavskaya Natalia N, Volykhov Andrey A, Kiskin Mikhail A	Inorganic Chemistry, 33, 2025	1520-510X	РИНЦ, Белый список	Не указано	Да	16852
151	251 20	журнал	R2Pt7MnP4-x (R = Ca, Eu): Intrinsic heterostructures based on a combination of AuCu3- and CaBe2Ge2-type fragments with chemically switchable magnetic interplay	10.1016/j.jallcom.2024.177448	Zakharova Elena Yu, Kuznetsov Alexey N, Bogach Alexey V, Efimov Nikolay N, Lyssenko Konstantin A, Kazakov Sergey M, Nesterenko Sergey N, Makhaneva Anastasiia Yu	Journal of Alloys and Compounds, 2025	0925-8388	РИНЦ, Белый список	Не указано	Да	9
152	251 22	журнал	Oxovanadium(IV) Complexes with Pyridinedicarboxylate Anions and Terpyridine: Synthesis, Structure, and EPR Spectra	10.1134/s1070328425600913	Shmelev M A, Eremenko I L, Kiskin M A, Efimov N N, Ugolkova E A, Gogoleva N V, Bazhina E S	Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 8, 2025	1070-3284	РИНЦ, Белый список, ВАК	Не указано	Да	701
153	251 23	журнал	The influence of pseudo-tetrahedral coordination environment of Co2+ ion in polymeric dimethylmalonates on the magnetic anisotropy and slow magnetic relaxation	10.1016/j.jmmm.2024.172650	Matiukhina Anna K, Kiskin Mikhail A, Efimov Nikolay N, Vasilyev Pavel N, Svetogorov Roman D, Eremenko Igor L, Blinou Daniil O, Zorina-Tikhonova Ekaterina N	Journal of Magnetism and Magnetic Materials, 2025	0304-8853	РИНЦ, Белый список	Не указано	Да	9
154	251 24	журнал	The role of alkali metal	10.1039/d4ce01319k	Efimov Nikolay N, Eremenko	CrystEngComm, 20, 2025	1466-8033	РИНЦ, Белый список	<jats:p>The radius of alkali metals affects the dimension of	Да	3357

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1	1A	2	3	4	5	6	7	8	9	10	11
			cations in the construction of heterometallic Ni ^{II} polymeric cyclopropane-1,1-dicarboxylates		Igor L, Kiskin Mikhail A, Alexandrov Eugeny V, Babeshkin Konstantin A, Goloveshkin Alexander S, Korlyukov Alexander A, Matiukhina Anna K, Zorina-Tikhonova Ekaterina N				Ni ^{II} coordination polymers and the magnetic anisotropy.		
155	25129	журнал	Uncommon mononuclear pyrazole-pyrazolate complexes of Co ^{II} , Cu ^{II} and Zn	10.1039/d5nj02001h	Dolgushin Fedor M, Nefedov Sergey E, Uvarova Marina A, Eremlenko Igor L, Pettinari Claudio, Efimov Nikolay N, Babeshkin Konstantin A	New Journal of Chemistry, 30, 2025	1369-9261	РИНЦ, Белый список	Novel mononuclear [M((CF ₃) ₃ pz) ₂ ((CH ₃) ₃ pzH)] (M = Zn, Co), and Cu ^{II} and binuclear [Cu(μ-(CF ₃) ₃ pz) ₂ ((CH ₃) ₃ pzH)OOCBu] complexes were prepared by different synthetic methods and characterized by single crystal X-ray analysis.	Да	13013
156	25130	журнал	Effect of the Position of Double Bonds of Unsaturated Carboxylic Acids on the Type of the Resulting Palladium(I) Coordination Polymers	10.1134/s0036023624603052	Demina L I, Ivanova N A, Erofeeva O S, Efimov N N, Averin A A, Efimenko I A, Simonenko N P	Russian Journal of Inorganic Chemistry, 1, 2025	0036-0236	РИНЦ, Белый список, ВАК	Не указано	Да	40

Заведующая центром

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