

**Публикации в российских и иностранных научных журналах,
индексируемых в базах данных Web of Science и (или) Scopus,
в которых имеется ссылка на выполнение работы с использованием оборудования ЦКП (2012-2016)**

№ п/п	Название издания	Авторы (в порядке, указанном в публикации), в том числе автор (авторы) из состава участника конкурса (организации)	Название публикации	Год, том, выпуск	DOI публикации
1.	RUSSIAN JOURNAL OF INORGANIC CHEMISTRY	Zherebtsov, D. A.; Kulikovskikh, S. A.; Viktorov, V. V.; Uchaev, D. A.; Desyatkina, O. Yu.; Yangil'dina, I. I.; Belaya, E. A.; Kolmogortsev, A. M.; Smolyakova, K. R.	Synthesis of nanodispersed anatase by tetrabutoxy titanium hydrolysis	2016, Vol. 61, Iss. 11	10.1134/S003602361611022X
2.	OPTICAL AND QUANTUM ELECTRONICS	Lee, Hyoung-In; Mok, Jinsik; Kuzmin, Dmitry A.; Bychkov, Igor V.	Multiple propagating modes of nanowire plasmonics	2016, Vol. 48, Iss. 11	10.1007/s11082-016-0772-y
3.	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	Bychkov, Igor V.; Kuzmin, Dmitry A.; Kamantsev, Alexander P.; Koledov, Victor V.; Shavrov, Vladimir G.	Magnetostrictive hypersound generation by spiral magnets in the vicinity of magnetic field induced phase transition	2016, Vol. 417, Iss.	10.1016/j.jmmm.2016.05.060
4.	JOURNAL OF APPLIED PHYSICS	Mayer, Alexander E.; Ebel, Andrej A.	Influence of free surface nanorelief on the rear spallation threshold: Molecular-dynamics investigation	2016, Vol. 120, Iss. 16	10.1063/1.4966555
5.	JOURNAL OF HIGH ENERGY PHYSICS	Awata, Hidetoshi; Kanno, Hiroaki; Mironov, Andrei; Morozov, Alexei; Morozov, Andrey; Ohkubo, Yusuke; Zenkevich, Yegor	Toric Calabi-Yau threefolds as quantum integrable systems. - matrix and relations	2016, Vol. , Iss. 10	10.1007/JHEP10(2016)047
6.	PHYSICS OF THE SOLID STATE	Belenkov, E. A.; Greshnyakov, V. A.	Structure, properties, and possible mechanisms of formation of	2016, Vol. 58, Iss. 10	10.1134/S1063783416100073

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			diamond-like phases		
7.	TECHNICAL PHYSICS	Greshnyakov, V. A.; Belenkov, E. A.	Simulation of the phase transition of graphite to the diamond-like LA3 phase	2016, Vol. 61, Iss. 10	10.1134/S1063784216100133
8.	INTERNATIONAL JOURNAL OF MODERN PHYSICS A	Sleptsov, A.	Vassiliev invariants for pretzel knots	2016, Vol. 31, Iss. 27	10.1142/S0217751X16501566
9.	JOURNAL OF HIGH ENERGY PHYSICS	Mironov, A.; Morozov, A.; Morozov, An.; Sleptsov, A.	HOMFLY polynomials in representation [3,1] for 3-strand braids	2016, Vol. , Iss. 9	10.1007/JHEP09(2016)134
10.	PHYSICS LETTERS B	Mironov, A.; Morozov, A.; Morozov, An.; Sleptsov, A.	Racah matrices and hidden integrability in evolution of knots	2016, Vol. 760, Iss.	10.1016/j.physletb.2016.06.041
11.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	Zagrebin, M. A.; Sokolovskiy, V. V.; Buchelnikov, V. D.	Electronic and magnetic properties of the Co-2-based Heusler compounds under pressure: first-principles and Monte Carlo studies	2016, Vol. 49, Iss. 35	10.1088/0022-3727/49/35/355004
12.	JOURNAL OF STRUCTURAL CHEMISTRY	Belenkov, E. A.; Greshnyakov, V. A.	Structure and some physicochemical properties of carbon and silicon phases with a LA3 diamond-like lattice	2016, Vol. 57, Iss. 5	10.1134/S0022476616050061
13.	JOURNAL OF APPLIED PHYSICS	Mayer, Polina N.; Mayer, Alexander E.	Late stages of high rate tension of aluminum melt: Molecular dynamic simulation	2016, Vol. 120, Iss. 7	10.1063/1.4959819
14.	JOURNAL OF ALLOYS AND COMPOUNDS	Aliev, A. M.; Batdalov, A. B.; Khanov, L. N.; Koledov, V. V.; Shavrov, V. G.; Tereshina, I. S.; Taskaev, S. V.	Magnetocaloric effect in some magnetic materials in alternating magnetic fields up to 22 Hz	2016, Vol. 676, Iss.	10.1016/j.jallcom.2016.03.238
15.	METEORITICS &	Voropaev, S.; Korochantsev, A.;	Ordinary chondrites of	2016, Vol.	

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	PLANETARY SCIENCE	Petukhov, D.; Kocherov, A.; Kaeter, D.; Ziemann, M. A.; Boettger, U.	Chelyabinsk meteorite and comparison with asteroid 25143 (Itokawa)	51, SI	
16.	JOURNAL OF HIGH ENERGY PHYSICS	Awata, Hidetoshi; Kanno, Hiroaki; Matsumoto, Takuya; Mironov, Andrei; Morozov, Alexei; Morozov, Andrey; Ohkubo, Yusuke; Zenkevich, Yegor	Explicit examples of DIM constraints for network matrix models	2016, Vol. , Iss. 7	10.1007/JHEP07(2016)103
17.	JOURNAL OF APPLIED PHYSICS	Tereshina, I. S.; Chzhan, V. B.; Tereshina, E. A.; Khmelevskiy, S.; Burkhanov, G. S.; Ilyushin, A. S.; Paukov, M. A.; Havela, L.; Karpenkov, A. Yu.; Cwik, J.; Koshkid'ko, Yu. S.; Miller, M.; Nenkov, K.; Schultz, L.	Magnetostructural phase transitions and magnetocaloric effect in Tb-Dy-Ho-Co-Al alloys with a Laves phase structure	2016, Vol. 120, Iss. 1	10.1063/1.4955047
18.	JETP LETTERS	Mironov, A.; Morozov, A.; Morozov, An.; Sleptsov, A.	Quantum Racah Matrices and 3-Strand Braids in Irreps R with vertical bar R vertical bar=4	2016, Vol. 104, Iss. 1	10.1134/S0021364016130038
19.	RUSSIAN JOURNAL OF GENERAL CHEMISTRY	Chalaya, E. A.; Tyurin, A. G.; Vasekha, M. V.; Biryukov, A. I.	Synthesis and properties of double copper(I)-nickel(II) sulfite	2016, Vol. 86, Iss. 7	10.1134/S1070363216070021
20.	RUSSIAN JOURNAL OF ELECTROCHEMISTRY	Neustroev, A. S.; Zakhar'evich, D. A.; Chernov, V. M.	Nuclear magnetic relaxation of protons in "polyantimonic acid-phosphate" composites	2016, Vol. 52, Iss. 7	10.1134/S1023193516070132
21.	RUSSIAN JOURNAL OF ELECTROCHEMISTRY	Yaroshenko, F. A.; Burmistrov, V. A.	Dielectric losses and proton conductivity of polyantimonic acid membranes	2016, Vol. 52, Iss. 7	10.1134/S1023193516070193
22.	RUSSIAN JOURNAL OF ELECTROCHEMISTRY	Kovalenko, L. Yu.; Burmistrov, V. A.; Biryukova, A. A.	Kinetics of H ⁺ /Me ⁺ (Me = Na, K) ion exchange in polyantimonic acid	2016, Vol. 52, Iss. 7	10.1134/S1023193516070107

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23.	NANO LETTERS	Kuzmin, Dmitry A.; Bychkov, Igor V.; Shavrov, Vladimir G.; Temnov, Vasily V.	Giant Faraday Rotation of High-Order Plasmonic Modes in Graphene-Covered Nanowires	2016, Vol. 16, Iss. 7	10.1021/acs.nanolett.6b01517
24.	INTERNATIONAL JOURNAL OF PLASTICITY	Selyutina, N.; Borodin, E. N.; Petrov, Y.; Mayer, A. E.	The definition of characteristic times of plastic relaxation by dislocation slip and grain boundary sliding in copper and nickel	2016, Vol. 82, Iss.	10.1016/j.ijplas.2016.02.004
25.	JOURNAL OF ENVIRONMENTAL RADIOACTIVITY	Shishkina, E. A.; Pryakhin, E. A.; Popova, I. Ya; Osipov, D. I.; Tikhova, Yu; Andreyev, S. S.; Shaposhnikova, I. A.; Egoreichenkov, E. A.; Styazhkina, E. V.; Deryabina, L. V.; Tryapitsina, G. A.; Melnikov, V.; Rudolfsen, G.; Teien, H-C.; Sneve, M. K.; Akleyev, A. V.	Evaluation of distribution coefficients and concentration ratios of Sr-90 and Cs-137 in the Techa River and the Miass River	2016, Vol. 158, Iss.	10.1016/j.jenvrad.2016.04.005
26.	PHYSICS LETTERS B	Morozov, A.; Morozov, And; Popolitov, A.	On ambiguity in knot polynomials for virtual knots	2016, Vol. 757, Iss.	10.1016/j.physletb.2016.03.085
27.	OPTICAL ENGINEERING	Picos, Kenia; Diaz-Ramirez, Victor H.; Kober, Vitaly; Montemayor, Antonio S.; Pantrigo, Juan J.	Accurate three-dimensional pose recognition from monocular images using template matched filtering	2016, Vol. 55, Iss. 6	10.1117/1.OE.55.6.063102
28.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	Bisikalo, D. V.; Kurbatov, E. P.; Pavlyuchenkov, Ya. N.; Zhilkin, A. G.; Kaygorodov, P. V.	On the technique for the recovery of the spectrum of turbulence in astrophysical discs	2016, Vol. 458, Iss. 4	10.1093/mnras/stw587
29.	JOURNAL OF ALLOYS AND COMPOUNDS	Karpenkov, D. Yu; Skokov, K. P.; Liu, J.; Karpenkov, A. Yu;	Adiabatic temperature change of micro- and nanocrystalline	2016, Vol. 668, Iss.	10.1016/j.jallcom.2016.01.209

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		Semenova, E. M.; Airiyan, E. L.; Pastushenkov, Yu G.; Gutfleisch, O.	Y2Fe17 heat-exchangers for magnetic cooling		
30.	JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS	Batdalov, A. B.; Aliev, A. M.; Khanov, L. N.; Buchel'nikov, V. D.; Sokolovskiy, V. V.; Koledov, V. V.; Shavrov, V. G.; Mashirov, A. V.; Dil'mieva, E. T.	Magnetic, thermal, and electrical properties of an Ni45.37Mn40.91In13.72 Heusler alloy	2016, Vol. 122, Iss. 5	10.1134/S1063776116040129
31.	IEEE TRANSACTIONS ON MAGNETICS	Skokov, Konstantin P.; Pastushenkov, Yury G.; Nikitin, Sergey A.; Fries, Maximilian; Gutfleisch, Oliver	Rotational Magnetocaloric Effect in the Er2Fe14B Single Crystal	2016, Vol. 52, Iss. 5	10.1109/TMAG.2016.2530138
32.	INTERNATIONAL JOURNAL OF FRACTURE	Gnyusov, S. F.; Rotshtein, V. P.; Mayer, A. E.; Rostov, V. V.; Gunin, A. V.; Khishchenko, K. V.; Levashov, P. R.	Simulation and experimental investigation of the spall fracture of 304L stainless steel irradiated by a nanosecond relativistic high-current electron beam	2016, Vol. 199, Iss. 1	10.1007/s10704-016-0088-8
33.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	Pogorelko, Victor V.; Mayer, Alexander E.	Influence of titanium and magnesium nanoinclusions on the strength of aluminum at high-rate tension: Molecular dynamics simulations	2016, Vol. 662, Iss.	10.1016/j.msea.2016.03.053
34.	MAIN GROUP METAL CHEMISTRY	Nikolaychuk, Pavel Anatolyevich	Is calomel truly a poison and what happens when it enters the human stomach? A study from the thermodynamic viewpoint	2016, Vol. 39, Iss. 1-2	10.1515/mgmc-2015-0040
35.	ASTRONOMY REPORTS	Isakova, P. B.; Ikhsanov, N. R.;	Features of the Matter Flows in	2016, Vol.	10.1134/S1063772916040065

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		Zhilkin, A. G.; Bisikalo, D. V.; Beskrovnaya, N. G.	the Peculiar Cataclysmic Variable AE Aquarii	60, Iss. 5	
36.	TECHNICAL PHYSICS	Tyumentsev, V. A.; Fazlitdinova, A. G.	Relation between the synthesis conditions and the fine structure of fiber carbon	2016, Vol. 61, Iss. 3	10.1134/S106378421603021X
37.	COMPUTATIONAL MATERIALS SCIENCE	Mayer, Alexander E.; Mayer, Polina N.	Weak increase of the dynamic tensile strength of aluminum melt at the insertion of refractory inclusions	2016, Vol. 114, Iss.	10.1016/j.commatsci.2015.12.040
38.	PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE	Pavlukhina, Oksana; Sokolovskiy, Vladimir; Buchelnikov, Vasilii	Modeling of heat transfer processes in Ni2MnIn magnetic wires	2016, Vol. 213, Iss. 2	10.1002/pssa.201532584
39.	MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING	Borodin, Elijah N.; Mayer, Alexander E.	Theoretical interpretation of abnormal ultrafine-grained material deformation dynamics	2016, Vol. 24, Iss. 2	10.1088/0965-0393/24/2/025013
40.	OPTICS LETTERS	Kuzmin, Dmitry A.; Bychkov, Igor V.; Shavrov, Vladimir G.; Temnov, Vasily V.; Lee, Hyoung-In; Mok, Jinsik	Plasmonically induced magnetic field in graphene-coated nanowires	2016, Vol. 41, Iss. 2	10.1364/OL.41.000396
41.	ANTI-CORROSION METHODS AND MATERIALS	Tyurin, Aleksandr Georgievich; Manannikov, Dmitriy Andreevich; Parshukov, Vladimir Pavlovich; Antonova, Anna Valeryevna; Nikolaychuk, Pavel Anatolyevich	Method of estimation of corrosion stability of multicomponent alloys using equilibrium and polarization potential - pH diagrams	2016, Vol. 63, Iss. 5	10.1108/ACMM-12-2014-1479
42.	ADVANCED ELECTROMAGNETICS	Mok, Jinsik; Lee, Hyoung-In; Kuzmin, Dmitry A.; Bychkov, Igor V.	Light Spins of Cylindrical Electromagnetic Waves and their Jumps across Material Interfaces	2016, Vol. 5, Iss. 2	

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			in the Presence of Energy Exchange		
43.	IEEE MAGNETICS LETTERS	Taskaev, Sergey V.; Skokov, Konstantin P.; Khovaylo, Vladimir V.; Gorshenkov, Mikhail V.; Vasiliev, Alexander N.; Volkova, Olga S.; Bataev, Dmitry S.; Pellenen, Anatoliy P.; Gutfleisch, Oliver	Magnetic Properties of Nd and Sm Rare-Earth Metals After Severe Plastic Deformation	2016, Vol. 7	10.1109/LMAG.2016.2546853
44.	MATERIALS PHYSICS AND MECHANICS	Mayer, A. E.; Atroshenko, S. A.; Borodin, E. N.	EXPERIMENTAL AND NUMERICAL INVESTIGATIONS OF THE SCALE LEVELS IN SPALL FRACTURE OF D16 ALUMINUM	2016, Vol. 26, Iss. 1	
45.	MATERIALS PHYSICS AND MECHANICS	Bratov, V.; Borodin, E. N.	NON-EQUILIBRIUM FEATURES OF CONTINUOUS RECRYSTALLIZATION PROCESS AT SEVERE PLASTIC DEFORMATION OF COPPER	2016, Vol. 26, Iss. 1	
46.	MATERIALS PHYSICS AND MECHANICS	Borodin, E. N.; Selyutina, N. S.; Petrov, Yu. V.; Mayer, A. E.	DEPENDENCE OF RELAXATION TIMES ON THE MATERIAL MICROSTRUCTURE FOR DIFFERENT MECHANISMS OF PLASTICITY	2016, Vol. 26, Iss. 1	
47.	ASTRONOMY REPORTS	Fateeva, A. M.; Zhilkin, A. G.; Bisikalo, D. V.	Formation and evolution of inclined accretion disks in	2016, Vol. 60, Iss. 1	10.1134/S1063772915120021

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			intermediate polars		
48.	JOURNAL OF ENVIRONMENTAL RADIOACTIVITY	Pryakhin, E. A.; Mokrov, Yu. G.; Tryapitsina, G. A.; Ivanov, I. A.; Osipov, D. I.; Atamanyuk, N. I.; Deryabina, L. V.; Shaposhnikova, I. A.; Shishkina, E. A.; Obvintseva, N. A.; Egoreichenkov, E. A.; Styazhkina, E. V.; Osipova, O. F.; Mogilnikova, N. I.; Andreev, S. S.; Tarasov, O. V.; Geras'kin, S. A.; Trapeznikov, A. V.; Akleyev, A. V.	Characterization of biocenoses in the storage reservoirs of liquid radioactive wastes of Mayak PA. Initial descriptive report	2016, Vol. 151, SI	10.1016/j.jenvrad.2015.05.023
49.	INORGANIC MATERIALS	Zherebtsov, D. A.; Viktorov, V. V.; Kulikovskikh, S. A.; Belaya, E. A.; Galimov, D. M.	Synthesis of nanoparticulate anatase sol from tetrabutoxytitanium	2016, Vol. 52, Iss. 1	10.1134/S0020168516010167
50.	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	Radulov, Iliya A.; Skokov, Konstantin P.; Karpenkov, Dmitriy Yu; Gottschall, Tino; Gutfleisch, Oliver	On the preparation of La(Fe,Mn,Si)(13)H-x polymer-composites with optimized magnetocaloric properties	2015, Vol. 396	10.1016/j.jmmm.2015.08.044
51.	PHYSICA B-CONDENSED MATTER	Skokov, Konstantin P.; Pastushenkov, Yury G.; Taskaev, Sergey V.; Rodionova, Valeria V.	Micromagnetic analysis of spin-reorientation transitions. The role of magnetic domain structure	2015, Vol. 478	10.1016/j.physb.2015.08.044
52.	JOURNAL OF MATERIALS SCIENCE	Belenkov, E. A.; Greshnyakov, V. A.	Structures and properties of diamond-like phases derived from carbon nanotubes and three-dimensional graphites	2015, Vol. 50, Iss. 23	10.1007/s10853-015-9325-1
53.	PHYSICS OF THE SOLID STATE	Belenkov, E. A.; Greshnyakov, V. A.	Diamond-Like Phases Formed from Fullerene-Like Clusters	2015, Vol. 57, Iss. 11	10.1134/S1063783415110062
54.	TECHNICAL PHYSICS	Fazlitdinova, A. G.; Tyumentsev,	Effect of the thermal stabilization	2015, Vol.	10.1134/S1063784215110109

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		V. A.	temperature on the change in the texture of polyacrylonitrile fiber	60, Iss. 11	
55.	IEEE TRANSACTIONS ON MAGNETICS	Buchelnikov, Vasilii D.; Sokolovskiy, Vladimir V.; Gruner, Markus E.; Entel, Peter	Magnetic States of the Ni _{1.75} Co _{0.25} Mn _{1.25} Cr _{0.25} In _{0.5} Heusler Alloy	2015, Vol. 51, Iss. 11	10.1109/TMAG.2015.2438953
56.	IEEE TRANSACTIONS ON MAGNETICS	Sokolovskiy, Vladimir V.; Buchelnikov, Vasilii D.; Gruner, Markus E.; Entel, Peter	First-Principles Calculations of Magnetic Properties of Cr-Doped Ni ₄₅ Co ₅ Mn ₃₇ In ₁₃ Heusler Alloys	2015, Vol. 51, Iss. 11	10.1109/TMAG.2015.2439391
57.	INTERNATIONAL JOURNAL OF PLASTICITY	Krasnikov, V. S.; Mayer, A. E.	Plasticity driven growth of nanovoids and strength of aluminum at high rate tension: Molecular dynamics simulations and continuum modeling	2015, Vol. 74	10.1016/j.ijplas.2015.06.007
58.	INTERNATIONAL JOURNAL OF PLASTICITY	Borodin, Elijah N.; Mayer, Alexander E.	Structural model of mechanical twinning and its application for modeling of the severe plastic deformation of copper rods in Taylor impact tests	2015, Vol. 74	10.1016/j.ijplas.2015.06.006
59.	PHYSICS LETTERS B	Morozov, A.; Morozov, And; Popolitov, A.	On matrix-model approach to simplified Khovanov-Rozansky calculus	2015, Vol. 749	10.1016/j.physletb.2015.07.081
60.	PHYSICS OF THE SOLID STATE	Belenkov, E. A.; Kochengin, A. E.	Structure and electronic properties of crystals consisting of graphene layers L (6), L (4-8), L (3-12), and L (4-6-12)	2015, Vol. 57, Iss. 10	10.1134/S1063783415100030
61.	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	Kosogor, A.; Sokolovskiy, V. V.; L'vov, V. A.; Khovaylo, V. V.	Martensitic transformation in shape memory crystal with defects: Monte Carlo simulations	2015, Vol. 252, Iss. 10	10.1002/pssb.201552313

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			and Landau theory		
62.	CHEMICAL AND PETROLEUM ENGINEERING	Maksimov, E. A.; Vasil'ev, V. I.; Ostsemin, A. A.	CALCULATION OF THE PARAMETERS OF AN OIL TRAP BASED ON THE METHOD OF BALANCE OF POWERS	2015, Vol. 51, Iss. 5-6	10.1007/s10556-015-0050-z
63.	CONTEMPORARY PROBLEMS OF ECOLOGY	Getmanets, I. A.	Morphoadaptive determination of structural diversity of biormorphs of Salix L. species in Southern Urals	2015, Vol. 8, Iss. 5	10.1134/S1995425515050078
64.	ASTRONOMY REPORTS	Isakova, P. B.; Zhilkin, A. G.; Bisikalo, D. V.	A numerical model for accretion in intermediate polars with dipolar magnetic fields	2015, Vol. 59, Iss. 9	10.1134/S106377291509005X
65.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	Pogorelko, Viktor V.; Mayer, Alexander E.	Influence of copper inclusions on the strength of aluminum matrix at high-rate tension	2015, Vol. 642, Iss.	10.1016/j.msea.2015.07.009
66.	DOKLADY PHYSICS	Adarchenko, V. A.; Voronin, S. M.	Transsonic Accretion Modes with Density Jumps	2015, Vol. 60, Iss. 8	10.1134/S1028335815080017
67.	METEORITICS & PLANETARY SCIENCE	Voropaev, S.; Kocherov, A.; Gabitov, R.	Comparative analysis of micrograins from asteroid 25143 (Itokawa) and Chelyabinsk meteorite	2015, Vol. 50, SI	
68.	INORGANIC MATERIALS	Yaroshenko, F. A.; Burmistrov, V. A.	Proton conductivity of polyantimonic acid studied by impedance spectroscopy in the	2015, Vol. 51, Iss. 8	10.1134/S0020168515080208

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			temperature range 370-480 K		
69.	JOURNAL OF APPLIED PHYSICS	Mayer, Alexander E.; Mayer, Polina N.	Continuum model of tensile fracture of metal melts and its application to a problem of high-current electron irradiation of metals	2015, Vol. 118, Iss. 3	10.1063/1.4926861
70.	JOURNAL OF HIGH ENERGY PHYSICS	Mironov, A.; Morozov, A.; Morozov, An.; Ramadevi, P.; Singh, Vivek Kumar	Colored HOMFLY polynomials of knots presented as double fat diagrams	2015, Vol. , Iss. 7	10.1007/JHEP07(2015)109
71.	JOURNAL OF HIGH ENERGY PHYSICS	Mironov, A.; Morozov, A.; Sleptsov, A.	Colored HOMFLY polynomials for the pretzel knots and links	2015, Vol. , Iss. 7	10.1007/JHEP07(2015)069
72.	GEMATOLOGIYA I TRANSFUZIOLOGIYA	Suslova, T. A.; Vavilov, M. N.; Stashkevich, D. S.; Belyaeva, S., V; Khromova, E. B.; Evdokimov, A., V; Gorelova, A. K.; Burmistrova, A. L.	IMMUNOGENETIC PROFILE (HLA-A, HLA-B, HLA-C, HLA-DRB1, HLA-DQB1) OF THE RUSSIAN POPULATION IN CHELYABINSK REGION	2015, Vol. 60, Iss. 3	
73.	JETP LETTERS	Mayer, A. E.; Mayer, P. N.	Strength of solid and molten aluminum under dynamic tension	2015, Vol. 102, Iss. 2	10.1134/S0021364015140088
74.	JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS	Mayer, P. N.; Mayer, A. E.	Model of fracture of metal melts and the strength of melts under dynamic conditions	2015, Vol. 121, Iss. 1	10.1134/S1063776115060096
75.	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	Entel, Peter; Sokolovskiy, Vladimir V.; Buchelnikov, Vasiliy D.; Ogura, Masako; Gruner, Markus E.; Gruenebohm, Anna; Comtesse, Denis; Akai, Hisazumi	The metamagnetic behavior and giant inverse magnetocaloric effect in Ni-Co-Mn-(Ga, In, Sn) Heusler alloys	2015, Vol. 385, Iss.	10.1016/j.jmmm.2015.03.003
76.	PHYSICAL REVIEW B	Sokolovskiy, Vladimir V.; Entel, P.; Buchelnikov, V. D.; Gruner, M.	Achieving large magnetocaloric effects in Co- and Cr-substituted	2015, Vol. 91, Iss. 22	10.1103/PhysRevB.91.220409

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		Е.	Heusler alloys: Predictions from first-principles and Monte Carlo studies		
77.	PHYSICS OF THE SOLID STATE	Belenkov, E. A.; Greshnyakov, V. A.	Diamond-like phases obtained from nanotubes and three-dimensional graphites	2015, Vol. 57, Iss. 6	10.1134/S1063783415060049
78.	OPTICS LETTERS	Kuzmin, Dmitry A.; Bychkov, Igor V.; Shavrov, Vladimir G.	Magnetic field control of plasmon polaritons in graphene-covered gyrotropic planar waveguide	2015, Vol. 40, Iss. 11	10.1364/OL.40.002557
79.	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	Buchelnikov, V. D.; Sokolovskiy, V. V.; Zagrebin, M. A.; Klyuchnikova, M. A.; Entel, P.	First-principles study of the structural and magnetic properties of the Ni ₄₅ Co ₅ Mn ₃₉ Sn ₁₁ Heusler alloy	2015, Vol. 383, Iss.	10.1016/j.jmmm.2014.10.024
80.	INTERNATIONAL JOURNAL OF MODERN PHYSICS A	Bishler, Ludmila; Morozov, Alexei; Morozov, Andrey; Morozov, Anton	Evolution method and HOMFLY polynomials for virtual knots	2015, Vol. 30, Iss. 14	10.1142/S0217751X15500748
81.	ZHURNAL OBSHCHEI BIOLOGII	Soukhovolsky, V. G.; Ponomarev, V. I.; Sokolov, G. I.; Tarasova, O. V.; Krasnoperova, P. A.	Gypsy moth <i>Lymantria dispar</i> L. in the South Urals: Patterns in population dynamics and modelling	2015, Vol. 76, Iss. 3	
82.	ASTRONOMY & ASTROPHYSICS	Johnstone, C. P.; Zhilkin, A.; Pilat-Lohinger, E.; Bisikalo, D.; Guedel, M.; Eggl, S.	Colliding winds in low-mass binary star systems: wind interactions and implications for habitable planets	2015, Vol. 577,	10.1051/0004-6361/201425134
83.	JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS	Belenkov, E. A.; Mavrinskii, V. V.; Belenkova, T. E.; Chernov, V. M.	Structural modifications of graphyne layers consisting of carbon atoms in the sp- and sp ⁽²⁾ -hybridized states	2015, Vol. 120, Iss. 5	10.1134/S1063776115040214

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84.	RUSSIAN JOURNAL OF ELECTROCHEMISTRY	Yaroshenko, F. A.; Burmistrov, V. A.	Dielectric relaxation and protonic conductivity of polyantimonic crystalline acid at low temperatures	2015, Vol. 51, Iss. 5	10.1134/S1023193515050195
85.	RUSSIAN JOURNAL OF ELECTROCHEMISTRY	Neustroev, A. S.; Zakhar'evich, D. A.	Dielectric properties of crystalline polyantimonic acid-phosphate composites	2015, Vol. 51, Iss. 5	10.1134/S1023193515050080
86.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	Buchelnikov, V. D.; Sokolovskiy, V. V.; Zagrebin, M. A.; Tufatullina, M. A.; Entel, P.	First principles investigation of structural and magnetic properties of Ni-Co-Mn-In Heusler alloys	2015, Vol. 48, Iss. 16	10.1088/0022-3727/48/16/164005
87.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	Bratov, V.; Borodin, E. N.	Comparison of dislocation density based approaches for prediction of defect structure evolution in aluminium and copper processed by ECAP	2015, Vol. 631	10.1016/j.msea.2015.02.019
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89.	JOURNAL OF APPLIED PHYSICS	Taskaev, S.; Skokov, K.; Khovaylo, V.; Buchelnikov, V.; Pellenen, A.; Karpenkov, D.; Ulyanov, M.; Bataev, D.; Usenko, A.; Lyange, M.; Gutfleisch, O.	Effect of severe plastic deformation on the specific heat and magnetic properties of cold rolled Gd sheets	2015, Vol. 117, Iss. 12	10.1063/1.4916377
90.	OPTICS LETTERS	Kuzmin, Dmitry A.; Bychkov, Igor V.; Shavrov, Vladimir G.	Influence of graphene coating on speckle-pattern rotation of light in gyrotropic optical fiber	2015, Vol. 40, Iss. 6	10.1364/OL.40.000890
91.	ENTROPY	Palacios, Elias; Bartolome, Juan;	Analysis of the Magnetocaloric	2015, Vol.	10.3390/e17031236

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97.	INORGANIC MATERIALS	Mezhenina, O. A.; Burmistrov, V. A.; Biryukova, A. A.	Structure and ion-exchange properties of crystalline tungstoantimonic acid	2015, Vol. 51, Iss. 2	10.1134/S0020168515010136
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107.	IEEE TRANSACTIONS	Kuzmin, Dmitry A.; Bychkov, Igor	Electromagnetic Waves	2014, Vol.	10.1109/TMAG.2014.2323332

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108.	MECHANICS OF SOLIDS	Mayer, A. E.	Dynamic shear and tensile strength of iron: Continual and atomistic simulation	2014, Vol. 49, Iss. 6	10.3103/S0025654414060065
109.	PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS	Kuzmin, Dmitry A.; Bychkov, Igor V.; Shavrov, Vladimir G.	Electromagnetic waves reflection, transmission and absorption by graphene-magnetic semiconductor-graphene sandwich-structure in magnetic field: Faraday geometry	2014, Vol. 12, Iss. 5	10.1016/j.photonics.2014.06.005
110.	DIAMOND AND RELATED MATERIALS	Belenkov, Evgeny A.; Brzhezinskaya, Maria M.; Greshnyakov, Vladimir A.	Novel carbon diamond-like phases LA5, LA7 and LA8	2014, Vol. 50	10.1016/j.diamond.2014.08.012
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114.	JETP LETTERS	Alexandrov, A.; Mironov, A.; Morozov, A.; Morozov, And	Towards matrix model representation of HOMFLY polynomials	2014, Vol. 100, Iss. 4	10.1134/S0021364014160036
115.	PHYSICA STATUS	Entel, Peter; Gruner, Markus E.;	Interacting magnetic cluster-spin	2014, Vol.	10.1002/pssb.201451059

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117.	ENTROPY	Sokolovskiy, Vladimir; Gruenebohm, Anna; Buchelnikov, Vasiliy; Entel, Peter	Ab Initio and Monte Carlo Approaches For the Magnetocaloric Effect in Co- and In-Doped Ni-Mn-Ga Heusler Alloys	2014, Vol. 16, Iss. 9	10.3390/e16094992
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119.	RADIATION AND ENVIRONMENTAL BIOPHYSICS	Smirnova, Olga A.; Akleyev, Alexander V.; Dimov, Georgy P.	Modeling analysis of the lymphocytopoiesis dynamics in chronically irradiated residents of Techa riverside villages	2014, Vol. 53, Iss. 3	10.1007/s00411-014-0538-5
120.	JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS	Belenkov, E. A.; Greshnyakov, V. A.	New structural modifications of diamond: LA9, LA10, and CA12	2014, Vol. 119, Iss. 1	10.1134/S1063776114060090
121.	TISSUE ANTIGENS	Buhler, Stephane; Nunes, Jose Manuel; Andreani, Marco; Benhamamouch, Soraya;	THE REGIONAL GENETIC DIVERSITY OF HLA IN EUROPE: A	2014, Vol. 84, Iss. 1	

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		<p>Boldyreva, Margarita; Canossi, Angelica; Chiaroni, Jacques; Darke, Chris; Di Cristofaro, Julie; Dubois, Valerie; Elamin, Nadra; Eliaou, Jean Francois; Fadhlaoui-Zid, Karima; Fischer, Gottfried F.; Grubic, Zorana; Ivanova, Milena; Jaatinen, Taina; Kolesar, Libor; Ligeiro, Dario; Lokki, Marja-Liisa; Mehra, Narinder; Nicoloso, Grazia; Voniatis, Constantia Papaioannou; Papasteriades, Chryssa; Piancatelli, Daniela; Poli, Francesca; Romon, Inigo; Slavcev, Antonij; Spiroski, Mirko; Spyropoulou-Vlachou, Maria; Sulcebe, Genc; Suslova, Tatiana A.; Testi, Manuela; Tiercy, Jean-Marie; Nevessignsky, Michel Toungouz; Varnavidou, Agathi; Vidan-Jeras, Blanka; Sanchez-Mazas, Alicia</p>	<p>COMPREHENSIVE MAP DRAWN FROM 145 POPULATION SAMPLES</p>		
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		Khromova, Elena B.; Stashkevich, Daria S.; Suslova, Tatiana A.; Darke, Chris	COMPARISON WITH THOSE OF RUSSIANS, TATARS AND BASHKIRS FROM THE CHELYABINSK REGION OF RUSSIAN SOUTH URALS		
124.	ASTROPHYSICS AND SPACE SCIENCE	Dudorov, A. E.; Khaibrakhmanov, S. A.	Fossil magnetic field of accretion disks of young stars	2014, Vol. 352, Iss. 1	10.1007/s10509-014-1900-4
125.	PHYSICAL REVIEW B	Comtesse, D.; Gruner, M. E.; Ogura, M.; Sokolovskiy, V. V.; Buchelnikov, V. D.; Gruenebohm, A.; Arroyave, R.; Singh, N.; Gottschall, T.; Gutfleisch, O.; Chernenko, V. A.; Albertini, F.; Faehler, S.; Entel, P.	First-principles calculation of the instability leading to giant inverse magnetocaloric effects	2014, Vol. 89, Iss. 18	10.1103/PhysRevB.89.184403
126.	JOURNAL OF STRUCTURAL CHEMISTRY	Belenkov, E. A.; Greshnyakov, V. A.	New polymorphic types of diamond	2014, Vol. 55, Iss. 3	10.1134/S0022476614030032
127.	JOURNAL OF HIGH ENERGY PHYSICS	Arthamonov, S.; Mironov, A.; Morozov, A.; Morozov, And.	Link polynomial calculus and the AENV conjecture	2014, Vol. , Iss. 4	10.1007/JHEP04(2014)156
128.	SILICON	Nikolaychuk, Pavel Anatolyevich	The Revised Pourbaix Diagram for Silicon	2014, Vol. 6, Iss. 2	10.1007/s12633-013-9172-0
129.	INTERNATIONAL JOURNAL OF PLASTICITY	Yanilkin, A. V.; Krasnikov, V. S.; Kuksin, A. Yu; Mayer, A. E.	Dynamics and kinetics of dislocations in Al and Al-Cu alloy under dynamic loading	2014, Vol. 55, Iss.	10.1016/j.ijplas.2013.09.008
130.	TISSUE ANTIGENS	Kuranov, A. B.; Kozhamkulov, U. A.; Vavilov, M. N.; Belova, E. S.; Bismilda, V. L.; Alenova, A. H.; Ismailov, S. S.; Momynaliev, K. T.	HLA-class II alleles in patients with drug-resistant pulmonary tuberculosis in Kazakhstan	2014, Vol. 83, Iss. 2	10.1111/tan.12279
131.	INTERNATIONAL	Sokolovskiy, V. V.; Buchelnikov,	Tuning magnetic exchange	2014, Vol.	10.1016/j.ijrefrig.2013.05.017

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	JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID	V. D.; Khovaylo, V. V.; Taskaev, S. V.; Entel, P.	interactions to enhance magnetocaloric effect in Ni ₅₀ Mn ₃₄ In ₁₆ Heusler alloy: Monte Carlo and ab initio studies	37, SI	
132.	INTERNATIONAL JOURNAL OF PLASTICITY	Mayer, Alexander E.; Borodin, Elijah N.; Mayer, Polina N.	Localization of plastic flow at high-rate simple shear	2013, Vol. 51	10.1016/j.ijplas.2013.05.005
133.	JOURNAL OF ALLOYS AND COMPOUNDS	Entel, Peter; Siewert, Mario; Gruner, Markus E.; Chakrabarti, Aparna; Barman, Sudipta R.; Sokolovskiy, Vladimir V.; Buchelnikov, Vasiliy D.	Optimization of smart Heusler alloys from first principles	2013, Vol. 577	10.1016/j.jallcom.2012.03.005
134.	JOURNAL OF APPLIED PHYSICS	Sokolovskiy, V.; Buchelnikov, V.; Skokov, K.; Gutfleisch, O.; Karpenkov, D.; Koshkid'ko, Yu; Miki, H.; Dubenko, I.; Ali, N.; Stadler, S.; Khovaylo, V.	Magnetocaloric and magnetic properties of Ni ₂ Mn _{1-x} Cu _x Ga Heusler alloys: An insight from the direct measurements and ab initio and Monte Carlo calculations	2013, Vol. 114, Iss. 18	10.1063/1.4826366
135.	SOLID FUEL CHEMISTRY	Dmitriev, A. V.	Microstructure Peculiarities of Carbon Materials Based on Coal-Tar Pitch Hardened on the Surface of Thermally Expanded Graphite Flakes	2013, Vol. 47, Iss. 6	10.3103/S0361521913060025
136.	ASTRONOMY REPORTS	Ustyugov, V. A.; Zhilkin, A. G.; Bisikalo, D. V.	The influence of the inclination of the accretor's magnetic axis on the accretion-disk structure in intermediate polars	2013, Vol. 57, Iss. 11	10.1134/S1063772913110061
137.	JOURNAL OF	Sokolovskiy, V. V.; Fayzullin, R.	Theoretical treatment and direct	2013, Vol.	10.1016/j.jmmm.2013.04.069

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	MAGNETISM AND MAGNETIC MATERIALS	R.; Buchelnikov, V. D.; Drobozyuk, M. O.; Taskaev, S. V.; Khovaylo, V. V.	measurements effect in Ni ₂ .19-xFexMn0.81Ga Heusler alloys	343, Iss.	
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139.	ASTRONOMY REPORTS	Pavlyuchenkov, Ya. N.; Zhilkin, A. G.	A multicomponent model for computing the thermal structure of collapsing protostellar clouds	2013, Vol. 57, Iss. 9	10.1134/S1063772913090035
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141.	NEW CARBON MATERIALS	Belenkov, Evgeny A.; Greshnyakov, Vladimir A.	Classification schemes for carbon phases and nanostructures	2013, Vol. 28, Iss. 4	10.1016/S1872-5805(13)60081-5
142.	PHYSICS OF THE SOLID STATE	Belenkov, E. A.; Greshnyakov, V. A.	Classification of structural modifications of carbon	2013, Vol. 55, Iss. 8	10.1134/S1063783413080039
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144.	TECHNICAL PHYSICS	Borodin, E. N.; Mayer, A. E.	Localization of plastic flow at dynamic channel angular pressing	2013, Vol. 58, Iss. 8	10.1134/S1063784213080070
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146.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	Sokolovskiy, V. V.; Buchelnikov, V. D.; Taskaev, S. V.; Khovaylo,	Quaternary Ni-Mn-In-Y Heusler alloys: a way to achieve materials	2013, Vol. 46, Iss. 30	10.1088/0022-3727/46/30/305003

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150.	JOURNAL OF APPLIED PHYSICS	Taskaev, Sergey V.; Buchelnikov, Vasiliy D.; Pellenen, Anatoliy P.; Kuz'min, Michael D.; Skokov, Konstantin P.; Karpenkov, Dmitry Yu; Bataev, Dmitry S.; Gutfleisch, Oliver	Influence of thermal treatment on magnetocaloric properties of Gd cold rolled ribbons	2013, Vol. 113, Iss. 17	10.1063/1.4799256
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152.	ASTRONOMY REPORTS	Bisikalo, D. V.; Zhilkin, A. G.; Kaygorodov, P. V.; Ustyugov, V. A.; Montgomery, M. M.	A possible mechanism for the formation of tilted disks in intermediate polars	2013, Vol. 57, Iss. 5	10.1134/S1063772913040021
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154.	TISSUE ANTIGENS	Kuzminova, Elena P.; Burmistrova, Alexandra L.; Philippova, Julia Y.; Suslova, Tatiana A.	THE MAJOR HISTOCOMPATIBILITY COMPLEX CLASS II GENE EXPRESSION IN BURN INJURY PATIENTS	2013, Vol. 81, Iss. 5	
155.	TISSUE ANTIGENS	Suslova, Tatiana A.; Burmistrova, Alexandra L.; Chromova, Elena; Chernova, Maria S.; Belyaeva, Svetlana; Gorelova, Anastasia; Vavilov, Mikhail; Darke, Christopher	HLA GENE AND HAPLOTYPE FREQUENCIES IN CHELYABINSK REGION TATARS AND COMPARISONS WITH OTHER EURASIAN POPULATIONS	2013, Vol. 81, Iss. 5	
156.	INORGANIC MATERIALS	Nikolaychuk, P. A.; Tyurin, A. G.	Thermodynamic evaluation of corrosion-electrochemical behaviour of silicon brass CuZn17Si3	2013, Vol. 49, Iss. 5	10.1134/S0020168513050099
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161.	INTERNATIONAL JOURNAL OF IMMUNOGENETICS	Riccio, M. E.; Buhler, S.; Nunes, J. M.; Vangenot, C.; Cuenod, M.; Currat, M.; Di, D.; Andreani, M.; Boldyreva, M.; Chambers, G.; Chernova, M.; Chiaroni, J.; Darke, C.; Di Cristofaro, J.; Dubois, V.; Dunn, P.; Edinur, H. A.; Elamin, N.; Eliaou, J. -F.; Grubic, Z.; Jaatinen, T.; Kanga, U.; Kervaire, B.; Kolesar, L.; Kunachiwa, W.; Lokki, M. L.; Mehra, N.; Nicoloso, G.; Paakkanen, R.; Voniatis, D. Papaioannou; Papasteriades, C.; Poli, F.; Richard, L.; Romon Alonso, I.; Slavcev, A.; Sulcebe, G.; Suslova, T.; Testi, M.; Tiercy, J. -M.; Varnavidou, A.; Vidan-Jeras, B.; Wennerstrom, A.; Sanchez-Mazas, A.	16th IHIW: Analysis of HLA Population Data, with updated results for 1996 to 2012 workshop data (AHPD project report)	2013, Vol. 40, Iss. 1	10.1111/iji.12033
162.	PHYSICAL REVIEW B	Sokolovskiy, V. V.; Buchelnikov, V. D.; Zagrebin, M. A.; Entel, P.; Sahoo, S.; Ogura, M.	First-principles investigation of chemical and structural disorder in magnetic Ni ₂ Mn _{1+x} Sn _{1-x}	2012, Vol. 86, Iss. 13	10.1103/PhysRevB.86.134418

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			Heusler alloys		
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		Tatiana A.; Burmisrova, Alexandra L.; Chernova, Maria S.; Lupar, Ekaterina I.; Tselishev, Grigoriy; Darke, Chris	ANCESTRAL HAPLOTYPES IN RUSSIAN AND BASHKIR POPULATIONS OF THE CHELYABINSK REGION OF RUSSIAN SOUTH URALS	79, Iss. 6	
171.	TISSUE ANTIGENS	Suslova, Tatiana A.; Burmisrova, Alexandra L.; Chernova, Maria S.; Zaripova, Olga N.; Khromova, Elena B.; Vavilov, Mihail N.; Gorelova, Anastasiya; Darke, Chris	HLA GENE AND HAPLOTYPE FREQUENCIES IN NAGAYBAKS AND THEIR COMPARISON WITH OTHER CHELYABINSK REGION POPULATIONS	2012, Vol. 79, Iss. 6	
172.	INORGANIC MATERIALS	Viktorov, V. V.; Belaya, E. A.; Serikov, A. S.	Phase transformations in the TiO ₂ -NiO system	2012, Vol. 48, Iss. 5	10.1134/S0020168512050202
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175.	CONTEMPORARY PROBLEMS OF ECOLOGY	Sibirkina, A. R.	Beryllium content in the organs of Pinus sylvestris L. in the belt coniferous forests near the Irtysh River in the Republic of Kazakhstan	2012, Vol. 5, Iss. 2	10.1134/S1995425512020138
176.	JOURNAL OF STRUCTURAL CHEMISTRY	Afon'kina, E. S.; Pal'ko, N. N.; Matveev, G. A.; Toreeva, N. A.; Potemkin, V. A.; Grishina, M. A.	Effect of the structural characteristics of dihydrofolate reductase inhibitors on their	2012, Vol. 53, Iss. 2	10.1134/S0022476612020230

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			metabolic properties		
177.	INORGANIC MATERIALS	Baitinger, E. M.; Kovalev, I. N.; Vekesser, N. A.; Viktorov, V. V.; Zherebtsov, D. A.; Uchaev, D. A.; Sergeeva, S. A.; Bekhterev, A. N.	Preparation and structure of multiwalled carbon nanotubes	2012, Vol. 48, Iss. 3	10.1134/S0020168512030016
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179.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	Borodin, E. N.; Mayer, A. E.	A simple mechanical model for grain boundary sliding in nanocrystalline metals	2012, Vol. 532	10.1016/j.msea.2011.10.086
180.	PHYSICS-USPEKHI	Zhilkin, A. G.; Bisikalo, D. V.; Boyarchuk, A. A.	Flow structure in magnetic close binary stars	2012, Vol. 55, Iss. 2	10.3367/UFNe.0182.201202a.0121