

Authors	Title	Year	Source title	Volume	Issue	Art. No.	Page start	Page end	DOI	Document Type	Source
Kholodnyak, D., Zameshaeva, E., Turgaliev, V., Vorobeve, E.	Tunable dual-frequency immittance inverters on dual-composite right/left-handed transmission line	2015	SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference Proceedings	2015-	December	7369138			10.1109/IMOC.2015.7369138	Conference Paper	Scopus
Vitko, V.V., Ustinov, A.B., Semenov, A.A., Kalinikos, B.A., Nikitin, A.A., Nikitin, A.A., Lähderanta, E.	Numerical analysis of microwave excitations in multiferroic layered structures	2015	SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference Proceedings	2015-	December	7369049			10.1109/IMOC.2015.7369049	Conference Paper	Scopus
Ustinov, A.B., Kondrashov, A.V., Kalinikos, B.A., Nikitin, A.A., Pakhomov, O.V.	Dual control of high-frequency chaotic excitations in active ring oscillators based on artificial multiferroics	2015	SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference Proceedings	2015-	December	7369097			10.1109/IMOC.2015.7369097	Conference Paper	Scopus
Munina, I., Turalchuk, P.	Low loss triplexer design for high power application in radars	2015	2015 Loughborough Antennas and Propagation Conference, LAPC 2015			7366031			10.1109/LAPC.2015.7366031	Conference Paper	Scopus
Mandrikova, O.V., Fetisova, N.V., Polozov, Y.A., Solovev, I.S., Kupriyanov, M.S.	Method for modeling of the components of ionospheric parameter time variations and detection of anomalies in the ionosphere Coupling of the High and Mid Latitude Ionosphere and its Relation to Geospace Dynamics	2015	Earth, Planets and Space		67	1	131		10.1186/s40623-015-0301-4	Article	Scopus
Drozdovskii, A.V., Ustinov, A.B.	Phase noise management of spin-wave delay-line oscillators	2015	Journal of Physics: Conference Series		661	1	12062		10.1088/1742-6596/661/1/012062	Conference Paper	Scopus
Ustinov, A.B., Drozdovskii, A.V., Nikitin, A.A., Kalinikos, B.A.	Spin-wave band-pass filters based on yttrium iron garnet films for tunable microwave photonic oscillators	2015	Journal of Physics: Conference Series		661	1	12058		10.1088/1742-6596/661/1/012058	Conference Paper	Scopus
Mazing, D.S., Brovko, A.M., Matyushkin, L.B., Aleksandrova, O.A., Moshnikov, V.A.	Preparation of cadmium selenide colloidal quantum dots in non-coordinating solvent octadecene	2015	Journal of Physics: Conference Series		661	1	12033		10.1088/1742-6596/661/1/012033	Conference Paper	Scopus
Vitko, V.V., Nikitin, A.A., Ustinov, A.B., Kalinikos, B.A.	Dual-tunable multiferroic active ring filter for microwave photonic oscillators	2015	Journal of Physics: Conference Series		661	1	12048		10.1088/1742-6596/661/1/012048	Conference Paper	Scopus
Drozdovskii, A.V., Ustinov, A.B., Kalinikos, B.A.	Theoretical analysis of phase noise spectrum of active ring microwave oscillators based on spin-wave delay lines	2015	Journal of Physics: Conference Series		661	1	12061		10.1088/1742-6596/661/1/012061	Conference Paper	Scopus
Ustinova, I.A., Cherkasskii, M.A., Ustinov, A.B., Kalinikos, B.A.	Theoretical investigation of nonlinear damping and nonlinear phase shift of spin-electromagnetic waves propagating in infinite multiferroics at sub-terahertz frequencies	2015	Journal of Physics: Conference Series		661	1	12050		10.1088/1742-6596/661/1/012050	Conference Paper	Scopus

Kondrashov, A.V., Ustinov, A.B., Kalinikos, B.A.	Spin wave chaos in active resonant rings based on ferromagnetic films	2015	Journal of Physics: Conference Series	661	1	12065			10.1088/1742-6596/661/1/012065	Conference Paper	Scopus			
Drozдовskii, A.V., Nikitin, A.A., Ustinov, A.B.	Theoretical analysis of microwave magnonic crystals of finite length	2015	Journal of Physics: Conference Series	661	1	12063			10.1088/1742-6596/661/1/012063	Conference Paper	Scopus			
Ustinov, A.B., Kondrashov, A.V., Nikitin, A.A.	Analysis of chaotic bright spin-wave soliton trains in magnetic films	2015	Journal of Physics: Conference Series	661	1	12059			10.1088/1742-6596/661/1/012059	Conference Paper	Scopus			
Arsent'Ev, M.Yu., Prikhodko, A.V., Shmigel, A.V., Egorova, T.L., Kalinina, M.V.	Doping graphene with a monovacancy: Bonding and magnetism	2015	Journal of Physics: Conference Series	661	1	12028			10.1088/1742-6596/661/1/012028	Conference Paper	Scopus			
Andreeva, A.V., Luchinin, V.V., Kuzmina, K.A., Klyavinek, A.S., Karelov, A.E.	A micromechanical device that monitors arterial pressure during general anesthesia and in intensive care units	2015	Journal of Physics: Conference Series	661	1	12018			10.1088/1742-6596/661/1/012018	Conference Paper	Scopus			
Turalchuk, P., Vendik, O., Vendik, I., Derkach, M.	Propagation of electromagnetic waves radiated by an implanted antenna	2015	European Microwave Week 2015: Freedom Through Microwaves"				EuMW 2015 - Conference Proceedings	2015 45th European Microwave Conference Proceedings	7345953	1073	1076	10.1109/EuMC.2015.7345781	Conference Paper	scopus
Lamkin, I.A., Tarasov, S.A., Solomonov, A.V., Andreev, M.Y., Kurin, S.Yu.	Selectivity control of photosensitivity of Ag-GaP and Ag- AlGaN structures	2015	Journal of Physics: Conference Series	661	1	12040			10.1088/1742-6596/661/1/012040	Conference Paper	Scopus			
Ustinov, A.B., Kondrashov, A.V., Nikitin, A.A., Cherkasskii, M.A., Kalinikos, B.A.	Investigation of spin-electromagnetic wave envelope solitons in a multiferroic layered structure	2015	Journal of Physics: Conference Series	661	1	12057			10.1088/1742-6596/661/1/012057	Conference Paper	Scopus			
Vitko, V.V., Nikitin, A.A., Ustinov, A.B., Semenov, A.A., Nikitin, A.A., Lahderanta, E.	Electric-field tuning of spin-electromagnetic wave dispersion in ferrite-ferroelectric multilayers	2015	European Microwave Week 2015: Freedom Through Microwaves"				EuMW 2015 - Conference Proceedings	2015 45th European Microwave Conference Proceedings. EuMC"	7345953	1073	1076	10.1109/EuMC.2015.7345953	Conference Paper	Scopus
Nikitin, A.A., Ustinov, A.B., Semenov, A.A., Chumak, A.V., Serga, A.A., Vasyuchka, V.I., Lahderanta, E., Kalinikos, B.A., Hillebrands, B.	Width-modulated magnonic crystal and its application for spin-wave logic	2015	European Microwave Week 2015: Freedom Through Microwaves"				EuMW 2015 - Conference Proceedings	2015 45th European Microwave Conference Proceedings, EuMC"	7345998	1256	1259	10.1109/EuMC.2015.7345998	Conference Paper	Scopus
Kondrashov, A.V., Ustinov, A.B., Lähderanta, E., Pakhomov, O.V., Nikitin, A.A., Kalinikos, B.A.	Dual control of spin-electromagnetic wave chaos in active ring oscillators based on artificial multiferroics	2015	Journal of Physics: Conference Series	661	1	12064			10.1088/1742-6596/661/1/012064	Conference Paper	Scopus			
Nikitin, A.A., Ustinov, A.B., Semenov, A.A., Chumak, A.V., Serga, A.A., Vasyuchka, V.I., Lahderanta, E., Kalinikos, B.A., Hillebrands, B.	Width-modulated magnonic crystal and its application for spin-wave logic	2015	European Microwave Week 2015:						7345155	405	408	10.1109/EuMIC.2015.7345155	Conference Paper	Scopus
Soldatenkov, F.Yu., Kozlov, V.A., Shulpina, I.L., Ivanovskiy, V.I.	GaAs- A<inf>3</inf>B<inf>5</inf> heterostructures for high-speed power diodes manufacturing	2015	Journal of Physics: Conference Series	661	1	12066			10.1088/1742-6596/661/1/012066	Conference Paper	Scopus			

Vitko, V.V., Nikitin, A.A., Kondrashov, A.V., Nikitin, A.A., Ustinov, A.B., Belyavskiy, P.Yu., Kalinikos, B.A., Butler, J.E.	Microwave filter based on Lamb modes for optoelectronic generator	2015	Journal of Physics: Conference Series	661	1	12049		10.1088/1742-6596/661/1/012049	Conference Paper	Scopus	
Evseenkov, A.S., Tarasov, S.A., Kurin, S.Yu., Usikov, A.S., Papchenko, B.P., Helava, H., Makarov, Yu.N., Solomonov, A.V.	The efficiency of UV LEDs based on GaN/AlGaIn heterostructures	2015	Journal of Physics: Conference Series	661	1	12038		10.1088/1742-6596/661/1/012038	Conference Paper	Scopus	
Dement'Ev, P.A., Alekseev, P.A., Dunaevskii, M.S., Aleshin, A.N.	Behavior of charges in the active zone of composite OFET under the source-drain electric field	2015	Journal of Physics: Conference Series	661	1	12029		10.1088/1742-6596/661/1/012029	Conference Paper	Scopus	
Belyavskiy, P.Y., Kondrashov, A.V., Nikitin, A.A., Vitko, V.V., Kalinikos, B.A., Semenov, A.A., Ustinov, A.B., Butler, J.E.	UV Sensor Based on Layered Ferrite-Diamond Structure	2015	Journal of Physics: Conference Series	661	1	12060		10.1088/1742-6596/661/1/012060	Conference Paper	Scopus	
Pavlov, P.A.	Aspects of the Cross-Calibration Method in Laser Goniometry	2015	Measurement Techniques	58	9		970	974	10.1007/s11018-015-0827-7	Article	Scopus
Kononova, I.E., Lenshin, A.S., An'chikov, M.G., Moshnikov, V.A.	Metal oxide nanoparticles synthesized on porous silicon substrates	2015	Russian Microelectronics	44	8		531	536	10.1134/S1063739715080089	Article	Scopus
Zubkov, V.I., Evseenkov, A.S., Orlova, T.A., Zubkova, A.V.	Monte Carlo Simulation of the Radiation Output from a Led Structure with Textured Interfaces	2015	Russian Physics Journal	58	8		1172	1180	10.1007/s11182-015-0628-0	Article	Scopus
Tarasov, S.A., Aleksandrova, O.A., Lamkin, I.A., Maksimov, A.I., Maraeva, E.V., Mikhailov, I.I., Moshnikov, V.A., Musikhin, S.F., Nalimova, S.S., Permyakov, N.V., Spivak, Y.M., Travkin, P.G.	Luminescence properties of Si-containing porous matrix–PbS nanoparticle systems	2015	Semiconductors	49	13		1710	1713	10.1134/S1063782615130138	Article	Scopus
Komkov, O.S., Firsov, D.D., Kovalishina, E.A., Petrov, A.S.	Determination of the indium arsenide autoepitaxial layers' thickness by Fourier-Transform Infrared Spectroscopy	2015	Russian Microelectronics	44	8		575	578	10.1134/S1063739715080156	Article	Scopus
Turgaliev, V., Kholodnyak, D., Müller, J., Hein, M.A.	Small-size low-loss bandpass filters on substrate-integrated waveguide capacitively loaded cavities embedded in low temperature co-fired ceramics	2015	Journal of Ceramic Science and Technology	6	4		305	314	10.4416/JCST2015-00053	Article	Scopus
Vasilevskaya, A.K., Almjashaeva, O.V., Gusarov, V.V.	Formation of nanocrystals in the ZrO ₂ -H ₂ O system	2015	Russian Journal of General Chemistry	85	12		2673	2676	10.1134/S1070363215120014	Article	Scopus
Sidorov, A.I., Prosnikov, M.A., Boricheva, I.K.	Effect of electron irradiation on the size and concentration of silver nanoparticles on the surface of silicate glass	2015	Technical Physics	60	12		1872	1876	10.1134/S106378421512021X	Article	Scopus
Trizna, E.Yu., Baydamshina, D.R., Kholyavka, M.G., Sharafutdinov, I.S., Hairutdinova, A.R., Khafizova, F.A., Zakirova, E.Yu., Hafizov, R.G., Kayumov, A.R.	Soluble and immobilized papain and trypsin as destroyers of bacterial biofilms	2015	Genes and Cells	10	3		106	112		Article	Scopus

Averin, I.A., Karmanov, A.A., Moshnikov, V.A., Pronin, I.A., Igoshina, S.E., Sigaev, A.P., Terukov, E.I.	Correlations in infrared spectra of nanostructures based on mixed oxides	2015	Physics of the Solid State	57	12	2373	2381	10.1134/S1063783415120069	Article	Scopus	
Sheinman, I.	Beam dynamics in dielectric structure when using it as undulator	2015	2015 International Conference on Stability and Control Processes" in Memory of V.I. Zubov				7342093	201	Conference Paper	Scopus	
Golubkov, V., Ivanov, A., Ilyin, V., Titov, V.	The study of characteristics of an electron beam formed by silicon carbide field emission cathode	2015	2015 International Conference on Stability and Control Processes" in Memory of V.I. Zubov				7342081	169	Conference Paper	Scopus	
Permiakov, N., Ivanov, A., Moshnikov, V.	The laboratory facility and testing methods memristor structures	2015	2015 International Conference on Stability and Control Processes" in Memory of V.I. Zubov				7342088	187	Conference Paper	Scopus	
Nikiforov, K., Trofimov, V., Egorov, N.	Field Emission spectroscopy of silicon carbide: Natural modelling	2015	2015 International Conference on Stability and Control Processes" in Memory of V.I. Zubov				7342085	180	1 Conference Paper	Scopus	
Antonov, A.Y., Egorov, N.V., Varayun ¹ , M.I.	Computer simulation of field electron multi-tip emitter	2015	2015 International Conference on Stability and Control Processes" in Memory of V.I. Zubov				7342100	142	Conference Paper	Scopus	
Kuhn, S., Stephan, R., Blau, K., Vorobev, E., Kholodnyak, D., Hein, M.A.	Passive reciprocal electronically tuneable inductance in a composite-right-left-handed metamaterial unit cell	2015	2015 9th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics, METAMATERIALS 2015			7342476	430	432	10.1109/MetaMaterials.2015.7342476	Conference Paper	Scopus
Filatov, Y.V., Boronakhin, A.M., Dao, V.B., Le, V.T.	Dynamic calibration method of inertial measurement units	2015	Microsystem Technologies	21	11	2463	2467	10.1007/s00542-014-2403-5	Article	Scopus	
Kupriyanov, M.S., Shukeilo, E.Y., Shichkina, J.A.	A method of building of decision trees based on data from wearable device during a rehabilitation of patients with tibia fractures	2015	AIP Conference Proceedings	1688		40013		10.1063/1.4936046	Conference Paper	Scopus	
Sveshnikov, B., Koigerov, A.	Fundamental validation of the FEM based calculations concerning simulation of SAW and LSAW devices	2015	2014 European Frequency and Time Forum, EFTF 2014			7331432	83	85	10.1109/EFTF.2014.7331432	Conference Paper	Scopus
Nikitin, A.A., Ustinov, A.B., Vitko, V.V., Semenov, A.A., Belyavskiy, P.Y., Mironenko, I.G., Stashkevich, A.A., Kalinikos, B.A., Lähderanta, E.	Dispersion characteristics of spin-electromagnetic waves in planar multiferroic structures	2015	Journal of Applied Physics	118	18	183901		10.1063/1.4935266	Article	Scopus	
Lukyanov, D., Shevchenko, S., Kukaev, A., Khivrich, M.	Surface acoustic wave accelerometer for high-G applications	2015	2015 IEEE International Ultrasonics Symposium, IUS 2015			7329205		10.1109/ULTSYM.2015.0462	Conference Paper	Scopus	
Barchenko, V.T., Komlev, A.E., Babinov, N.A., Vinogradov, M.L.	The methods of decrease operating pressure of fast neutrals source	2015	Journal of Physics: Conference Series	652	1	12018		10.1088/1742-6596/652/1/012018	Conference Paper	Scopus	

Vetrov, N.Z., Kostrin, D.K., Lisenkov, A.A., Popova, M.S.	Antiemissive coatings	2015	Journal of Physics: Conference Series	652	1	12032	10.1088/1742-6596/652/1/012032	Conference Paper	Scopus
Ryzhov, O.A., Matyushkin, L.B.	The flow reactor system for in-line synthesis of semiconductor nanoparticle	2015	Journal of Physics: Conference Series	643	1	12016	10.1088/1742-6596/643/1/012016	Conference Paper	Scopus
Evseenkov, A.S., Lamkin, I.A., Tarasov, S.A., Solomonov, A.V.	Improving the efficiency of emission extraction from nitride LED structures with textured interfaces	2015	Journal of Physics: Conference Series	643	1	12033	10.1088/1742-6596/643/1/012033	Conference Paper	Scopus
Frolov, D., Yakovlev, G., Zubkov, V.	Measurements of doping density in InAs by capacitance-voltage techniques with electrolyte barriers	2015	Journal of Physics: Conference Series	643	1	12086	10.1088/1742-6596/643/1/012086	Conference Paper	Scopus
Mikhailov, I.I., Tarasov, S.A., Lamkin, I.I., Andreev, M.Y., Solomonov, A.V.	The luminescence properties of colloidal quantum dots	2015	Journal of Physics: Conference Series	643	1	12080	10.1088/1742-6596/643/1/012080	Conference Paper	Scopus
Maraeva, E.V., Bobkov, A.A., Maximov, A.I., Moshnikov, V.A., Nalimova, S.S.	Research of materials for porous matrices in sol-gel systems based on silicon dioxide and metallic oxides	2015	Journal of Physics: Conference Series	643	1	12116	10.1088/1742-6596/643/1/012116	Conference Paper	Scopus
Nikolaev, V.S., Voronov, M.M., Yakovlev, S.A., Pevtsov, A.B.	Wood anomalies in the vicinity of 3D Bragg diffraction from hybrid opaline photonic crystals	2015	Journal of Physics: Conference Series	643	1	12048	10.1088/1742-6596/643/1/012048	Conference Paper	Scopus
Firsov, D.D., Komkov, O.S., Petrov, A.S.	Photoluminescence of undoped InAs autoepitaxial layers	2015	Journal of Physics: Conference Series	643	1	12051	10.1088/1742-6596/643/1/012051	Conference Paper	Scopus
Zablotsky, S.V., Bazhenov, N.L., Mynbaev, K.D., Yakushev, M.V., Marin, D.V., Varavin, V.S., Dvoretzky, S.A.	Acceptor states and carrier lifetime in heteroepitaxial HgCdTe-on-Si for mid-infrared photodetectors	2015	Journal of Physics: Conference Series	643	1	12004	10.1088/1742-6596/643/1/012004	Conference Paper	Scopus
Maraeva, E.V., Alexandrova, O.A., Forostyanaya, N.A., Levitskiy, V.S., Mazing, D.S., Maskaeva, L.N., Markov, V.Ph., Moshnikov, V.A., Shupta, A.A., Spivak, Yu.M., Tulenin, S.S.	The study of metal sulphide nanomaterials obtained by chemical bath deposition and hot-injection technique	2015	Journal of Physics: Conference Series	643	1	12117	10.1088/1742-6596/643/1/012117	Conference Paper	Scopus
Spivak, Yu.M., Belorus, A.O., Somov, P.A., Tulenin, S.S., Bespalova, K.A., Moshnikov, V.A.	Porous silicon nanoparticles for target drug delivery: Structure and morphology	2015	Journal of Physics: Conference Series	643	1	12022	10.1088/1742-6596/643/1/012022	Conference Paper	Scopus
Vasilevsky, A.M., Konoplev, G.A., Stepanova, O.S., Zemchenkov, A.Yu., Gerasimchuk, R.P., Frorip, A.	Dual-wavelength method and optoelectronic sensor for online monitoring of the efficiency of dialysis treatment	2015	Journal of Physics: Conference Series	643	1	12056	10.1088/1742-6596/643/1/012056	Conference Paper	Scopus
Gareev, K.G., Ionin, S.A., Korolev, D.V., Luchinin, V.V., Moshnikov, V.A., Panov, M.F., Permyakov, N.V.	Study of colloidal particles $Fe_{1-x}O_x$ - SiO_2 synthesized by two different techniques	2015	Journal of Physics: Conference Series	643	1	12088	10.1088/1742-6596/643/1/012088	Conference Paper	Scopus
Frolova, E.V.	Free Boundary Problem of Magnetohydrodynamics	2015	Journal of Mathematical Sciences (United States)	210	6	857	877 10.1007/s10958-015-2596-x	Article	Scopus

Levitskii, V.S., Shapovalov, V.I., Komlev, A.E., Zav'yalov, A.V., Vit'ko, V.V., Komlev, A.A., Shutova, E.S.	Raman spectroscopy of copper oxide films deposited by reactive magnetron sputtering	2015	Technical Physics Letters	41	11	1094	1096	10.1134/S106378501511022X	Article	Scopus
Tsvetkov, O.V., Tananykina, L.V.	A preprocessing method for correlation-extremal systems	2015	Computer Optics	39	5	738	743	10.18287/0134-2452-2015-39-5-738-743	Article	Scopus
Lapshin, A.E., Shapovalov, V.I., Arsent'ev, M.Y., Komlev, A.E., Morozova, A.A.	Effect of the heat treatment mode on the crystal structure and optical properties of tungsten oxide	2015	Glass Physics and Chemistry	41	6	615	621	10.1134/S1087659615060085	Article	Scopus
Agafonova, D.S., Kolobkova, E.V., Ignatiev, A.I., Nikonorov, N.V., Shakhverdov, T.A., Shirshnev, P.S., Sidorov, A.I., Vasiliev, V.N.	Luminescent glass fiber sensors for ultraviolet radiation detection by the spectral conversion	2015	Optical Engineering	54	11	117107		10.1117/1.OE.54.11.117107	Article	Scopus
Morozova, L.V., Kalinina, M.V., Drozdova, I.A., Polyakova, I.G., Shilova, O.A.	Synthesis and study of nanoceramics of the spinel class	2015	Glass Physics and Chemistry	41	6	650	655	10.1134/S1087659615060115	Article	Scopus
Shilova, O.A., Polyakova, I.G., Petrova, I.V., Efimova, L.N., Shornikov, R.S., Khashkovskii, S.V.	Synthesis and study of film-forming composites based on silica sols and dispersed oxides for the fabrication of glass ceramic electro-insulating coatings	2015	Glass Physics and Chemistry	41	6	607	614	10.1134/S1087659615060139	Article	Scopus
Krasichkov, A.S., Grigoriev, E.B., Nifontov, E.M.	Influence of Myographic Interference and Isoelectric Line Drift on Correlation Coefficient in Classification of Cardiocomplexes	2015	Biomedical Engineering	49	4	220	223	10.1007/s10527-015-9533-7	Article	Scopus
Nikiforov, K.A., Egorov, N.V., Saifullin, M.F.	Mathematical simulation of a diode system with a field-emission matrix cathode	2015	Technical Physics	60	11	1626	1631	10.1134/S1063784215110225	Article	Scopus
Mezentseva, L.P., Kruchinina, I.Y., Osipov, A.V., Ugolkov, V.L., Popova, V.F., Lapenok, A.Y.	The influence of the particularities of synthesis on the physicochemical properties of nanosized powders and ceramic samples of REE orthophosphates	2015	Glass Physics and Chemistry	41	6	668	671	10.1134/S1087659615060103	Article	Scopus
Zhabrev, V.A., Margolin, V.I., Tupik, V.A., Su, C.T.	Modeling processes of nanoparticle synthesis and analyzing the results via SEM	2015	Bulletin of the Russian Academy of Sciences: Physics	79	11	1317	1319	10.3103/S1062873815110258	Article	Scopus
Gorban, A.N., Jarman, N., Steur, E., Nijmeijer, H., Van Leeuwen, C., Tyukin, I.	Directed cycles and multi-stability of coherent dynamics in systems of coupled nonlinear oscillators	2015	IFAC-PapersOnLine	28	18	19	24	10.1016/j.ifacol.2015.11.004	Conference Paper	Scopus
Levitskii, V.S., Lenshin, A.S., Seredin, P.V., Terukov, E.I.	Study of the processes of degradation of the optical properties of mesoporous and macroporous silicon upon exposure to simulated solar radiation	2015	Semiconductors	49	11	1493	1498	10.1134/S1063782615110135	Article	Scopus
Mezdrogina, M.M., Eremenko, M.V., Levitskii, V.S., Petrov, V.N., Terukov, E.I., Kaidashev, E.M., Langusov, N.V.	Effect of self-organization, defects, impurities, and autocatalytic processes on the parameters of ZnO films and nanorods	2015	Semiconductors	49	11	1473	1482	10.1134/S1063782615110159	Article	Scopus

Bolshakov, A.S., Chaldyshev, V.V., Babichev, A.V., Kudryashov, D.A., Gudovskikh, A.S., Morozov, I.A., Sobolev, M.S., Nikitina, E.V.	Study of multiple InAs/GaAs quantum-well structures by electroreflectance spectroscopy	2015	Semiconductors	49	11	1400	1404	10.1134/S1063782615110044	Article	Scopus
Popkov, V.I., Almjashaeva, O.V., Schmidt, M.P., Izotova, S.G., Gusarov, V.V.	Features of nanosized YFeO ₃ formation under heat treatment of glycine-nitrate combustion products	2015	Russian Journal of Inorganic Chemistry	60	10	1193	1198	10.1134/S0036023615100162	Article	Scopus
Krasichkov, A.S., Grigoriev, E.B., Bogachev, M.I., Nifontov, E.M.	Shape anomaly detection under strong measurement noise: An analytical approach to adaptive thresholding	2015	Physical Review E - Statistical, Nonlinear, and Soft Matter Physics	92	4	42927		10.1103/PhysRevE.92.042927	Article	Scopus
Zubkov, V.I., Kucherova, O.V., Bogdanov, S.A., Zubkova, A.V., Butler, J.E., Ilyin, V.A., Afanas'Ev, A.V., Vikharev, A.L.	Temperature admittance spectroscopy of boron doped chemical vapor deposition diamond	2015	Journal of Applied Physics	118	14	145703		10.1063/1.4932664	Article	Scopus
Konovalova, E.A., Kozlov, M.G.	Correlation, Breit, and QED effects in spectra of Mg-like ions	2015	Physical Review A - Atomic, Molecular, and Optical Physics	92	4	42508		10.1103/PhysRevA.92.042508	Article	Scopus
Kalinichenko, A.N., Manilo, L.A., Nemirko, A.P.	Analysis of anesthesia stages based on the EEG entropy estimation	2015	Pattern Recognition and Image Analysis	25	4	632	641	10.1134/S1054661815040094	Article	Scopus
Bodunov, N.A., Kolbina, S.A., Pilyugin, S.Y.	Prevalence of locally parameter identifiable systems	2015	Vestnik St. Petersburg University: Mathematics	48	4	204	208	10.3103/S1063454115040056	Article	Scopus
Li, G.V., Rummyantsev, A.M., Levitskii, V.S., Beregin, E.V., Zhdanov, V.V., Terukov, E.I., Astrova, E.V.	Application of silicon zig-zag wall arrays for anodes of Li-ion batteries	2015	Semiconductor Science and Technology	31	1	14008		10.1088/0268-1242/31/1/014008	Article	Scopus
Bobkov, A.A., Maximov, A.I., Moshnikov, V.A., Somov, P.A., Terukov, E.I.	Zinc-oxide-based nanostructured materials for heterostructure solar cells	2015	Semiconductors	49	10	1357	1360	10.1134/S1063782615100048	Article	Scopus
Demidov, Y., Zaitsevskii, A.	A comparative study of molecular hydroxides of element 113 (I) and its possible analogs: Ab initio electronic structure calculations	2015	Chemical Physics Letters	638		21	24	10.1016/j.cplett.2015.08.017	Article	Scopus
Pronin, I.A., Averin, I.A., Bozhinov, A.S., Georgieva, A.T., Dimitrov, D.T., Karmanov, A.A., Moshnikov, V.A., Papazova, K.I., Terukov, E.I., Yakushova, N.D.	The thermovoltaic effect in zinc oxide inhomogeneously doped with mixed-valence impurities	2015	Technical Physics Letters	41	10	930	932	10.1134/S1063785015100132	Article	Scopus
Nikitin, A.A., Kalinikos, B.A.	Theory of a tunable spin-wave optoelectronic microwave oscillator	2015	Technical Physics	60	9	1397	1401	10.1134/S1063784215090145	Article	Scopus
Ustinov, A.B., Nikitin, A.A., Kalinikos, B.A.	Electronically tunable spin-wave optoelectronic microwave oscillator	2015	Technical Physics	60	9	1392	1396	10.1134/S1063784215090224	Article	Scopus
Vetrov, A.A., Vlasov, R.A., Danilov, D.A., Komissarov, S.S., Kotsyubinskii, T.D., Sergushichev, A.N.	Multiwave method of extending the range of recordable displacements in a vibroacoustic sensor based on a Fabry-Perot fiber interferometer	2015	Journal of Optical Technology (A Translation of Opticheski Zhurnal)	82	9	612	616	10.1364/JOT.82.000612	Article	Scopus

Alekseev, V.V., Minina, A.A., Krupko, P.I.	Remote Measurements. Determination of Reference Values of the Characteristics of a Natural Object	2015	Measurement Techniques	58	6	612	618	10.1007/s11018-015-0763-6	Article	Scopus
Vlasyuk, D.P., Mamykin, A.I., Moshnikov, V.A., Muratova, E.N.	Mechanisms of growth and the structure of the adsorption layer of water at the surface of porous silicon	2015	Glass Physics and Chemistry	41	5	551	556	10.1134/S108765961505020X	Article	Scopus
Klionskiy, D.M., Kaplun, D.I., Gulvanskiy, V.V., Voznesenskiy, A.S.	Simulation of digital filter banks and signal classification in wideband monitoring tasks	2015	Automatic Control and Computer Sciences	49	5	303	312	10.3103/S0146411615050065	Article	Scopus
Efimenko, L.P., Baryshnikov, V.G., Afanas'ev, V.P., Kruglova, O.V., Drozdova, I.A.	Synthesis of $BaFe_{12}O_{19}$ in the melts of inorganic salts	2015	Glass Physics and Chemistry	41	5	557	559	10.1134/S1087659615050053	Article	Scopus
Rot, D., Jirinec, S., Kozeny, J., Poznyak, I.	Electrical efficiency of induction furnace with cold crucible with varied number of rectangle segments	2015	Proceedings of the 8th International Scientific Symposium on Electrical Power Engineering, ELEKTROENERGETIKA 2015			269	272		Conference Paper	Scopus
Utkin, L.V., Chekh, A.I.	A new robust model of one-class classification by interval-valued training data using the triangular kernel	2015	Neural Networks	69		99	110	10.1016/j.neunet.2015.05.004	Article	Scopus
Zhabrev, V.A., Margolin, V.I., Tupik, V.A., Su, C.T.	Simulating the aggregation of nanoparticles on a substrate surface upon vacuum deposition	2015	Journal of Surface Investigation	9	5	877	879	10.1134/S1027451015050201	Article	Scopus
Vasilevsky, A.M., Gerasimchuk, R.P., Zemchenkov, A.Y., Konoplev, G.A., Rubinsky, A.V., Stepanova, O.S., Frorip, A.A.	Dual-Wavelength Optoelectronic Sensor for Monitoring Uric Acid Concentration in Dialysate	2015	Biomedical Engineering	49	3	125	128	10.1007/s10527-015-9512-z	Article	Scopus
Zhdanov, D.D., Zhdanov, A.D., Potemin, I.S., Venediktov, V.Y., Galaktionov, V.A.	A method of fast building of locally equidistant distributions of geometrical objects of illumination systems	2015	Optics and Spectroscopy (English translation of Optika i Spektroskopiya)	119	2	311	317	10.1134/S0030400X15080263	Article	Scopus
Osipov, A.V., Prado, D.R., Quevedo-Teruel, O.	Flattened generalized Maxwell fish-eye lens limiting sub-unity refractive index regions	2015	2015 9th European Conference on Antennas and Propagation, EuCAP 2015			7228463			Conference Paper	Scopus
Ryskin, N.M., Titov, V.N., Umantsiva, O.V.	Synchronization and mode switching in a resonant backward-wave oscillator	2015	Proceedings of 2015 IEEE International Vacuum Electronics Conference, IVEC 2015			7223796		10.1109/IVEC.2015.7223796	Conference Paper	Scopus
Okhapkin, M.V., Meier, D.M., Peik, E., Safronova, M.S., Kozlov, M.G., Porsev, S.G.	Observation of an unexpected negative isotope shift in Th + 229 and its theoretical explanation	2015	Physical Review A - Atomic, Molecular, and Optical Physics	92	2	20503		10.1103/PhysRevA.92.020503	Article	Scopus

Gorbatyuk, A.V., Ivanov, B.V.	Simulation modeling of submicrosecond operating conditions for high-voltage reversely switched dynistors	2015	Technical Physics	60	8	1198	1203	10.1134/S1063784215080071	Article	Scopus	
Komlev, A.A., Makarova, T.L., Lahderanta, E., Semenikhin, P.V., Veinger, A.I., Tisnek, T.V., Magnani, G., Bertoni, G., Pontiroli, D., Ricco, M.	Magnetism of aniline modified graphene-based materials	2015	Journal of Magnetism and Magnetic Materials					10.1016/j.jmmm.2015.11.053	Article in Press	Scopus	
Manyakina, O.S., Semenov, K.N., Charykov, N.A., Ivanova, N.M., Keskinov, V.A., Sharoyko, V.V., Letenko, D.G., Nikitin, V.A., Klepikov, V.V., Murin, I.V.	Physico-chemical properties of the water-soluble C₆₀-tris-malonic solutions	2015	Journal of Molecular Liquids	211		487	493	10.1016/j.molliq.2015.06.071	Article	Scopus	
Samokhvalov, D., Shpakov, P., Skurikhin, V.	Evaluation of electromechatronic converter efficiency at modeling stage	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015			7190410	60	62	10.1109/SCM.2015.7190410	Conference Paper	Scopus
Lomachenko, M.A., Suloyeva, E.S., Tsvetkov, E.I.	Decision-making by results of binary comparison at various a priori knowledge	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015			7190396	12	14	10.1109/SCM.2015.7190396	Conference Paper	Scopus
Lashmanova, N.V., Osipova, M.G.	Innovation process as a basis of enterprises of high-tech industries	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015			7190482	275	277	10.1109/SCM.2015.7190482	Conference Paper	Scopus
Filatova, E.S., Filatov, D.M., Stotskaia, A.D.	Genetic algorithm to the formation of the optimal structure of fuzzy neural network	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015			7190438	147	149	10.1109/SCM.2015.7190438	Conference Paper	Scopus
Samokhvalov, D., Statsenko, F.	Modeling of system for resolver signals logarithmic differentiation	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015			7190411	63	65	10.1109/SCM.2015.7190411	Conference Paper	Scopus

Kopichev, M.M., Putov, V.V., Putov, A.V., Ignatiev, K.V.	Control system for a computer vision equipped robot	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190421	93	95 0421	10.1109/SCM.2015.7190421	Conference Paper	Scopus
Pisarev, A.S.	Method for the parameters estimating of microparticles motion along the trajectories under uncertainty	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190459	211	213 0459	10.1109/SCM.2015.7190459	Conference Paper	Scopus
Poshekhonov, L.B., Shestopalov, M.Y.	Applied aspects of implementation of fault tolerant control systems for cyclic multistage technological processes	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190404	35	36 0404	10.1109/SCM.2015.7190404	Conference Paper	Scopus
Dorogov, A.Yu.	Technologies of predictive analytics for big data	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190449	182	183 0449	10.1109/SCM.2015.7190449	Conference Paper	Scopus
Abaturov, V.S., Dorogov, A.Yu.	The repository of service-oriented analytical platform	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190454	195	197 0454	10.1109/SCM.2015.7190454	Conference Paper	Scopus
Minor, A.S., Polyakhov, N.D., Prikhodko, I.A., Vorobyova, E.A.	Forecasting of a temporary row on the basis of the caterpillar method - Ssa	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190439	150	152 0439	10.1109/SCM.2015.7190439	Conference Paper	Scopus
Kupriyanov, M.S., Kochetkov, A.V.	Complex technical system control using self-organization methods	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190426	109	111 0426	10.1109/SCM.2015.7190426	Conference Paper	Scopus

Gerasimov, I.V., Kuzmin, S.A., Safiannikov, N.M.	The space-time formalism in description of quantum information object characteristic properties in the context of problem-solving of observable quantities soft measurements for CARD-systems VI-environments	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190471	245	247	10.1109/SCM.2015.7190471	Conference Paper	Scopus
Kapustin, N., Kholod, I., Petuhov, I.	Application of actor model for distributed execution of data mining algorithms	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190458	208	210	10.1109/SCM.2015.7190458	Conference Paper	Scopus
Butusov, D.N., Karimov, A.I., Andreev, V.S.	Computer simulation of chaotic systems with symmetric extrapolation methods	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190416	78	80	10.1109/SCM.2015.7190416	Conference Paper	Scopus
Berezin, A.N., Moldovyan, A.A., Moldovyan, N.A.	Stream deniable-encryption computationally indistinguishable from probabilistic ciphering	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190395	9	11	10.1109/SCM.2015.7190395	Conference Paper	Scopus
Baskakov, Y., Golubev, I.	Assessing parallel algorithms	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190460	214	216	10.1109/SCM.2015.7190460	Conference Paper	Scopus
Batasova, S., Efimova, M., Kholod, I., Semenchenko, A.	Preparation of distributed heterogeneous data for data mining	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190457	205	207	10.1109/SCM.2015.7190457	Conference Paper	Scopus
Konovalova, V.S., Perkova, A.G., Suloyeva, E.S.	Wavelet-processing usage over the ultrasonic defectoscope signal at high-rise reverberation and noise interference	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190467	235	236	10.1109/SCM.2015.7190467	Conference Paper	Scopus

Lyamkin, A.A., Belskii, G.V.	Complex technical systems models	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190423	100	102	10.1109/SCM.2015.7190423	Conference Paper	Scopus
Karimov, T.I., Butusov, D.N., Karimov, A.I.	Comparison of analog and numerical chaotic system simulation	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190417	81	83	10.1109/SCM.2015.7190417	Conference Paper	Scopus
Korablev, Yu.A., Hudolozhkin, S.A., Shestopalov, M.Yu.	A combined adaptive approach for detection and isolation of wind turbine faults	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190407	47	53	10.1109/SCM.2015.7190407	Conference Paper	Scopus
Kuznetsov, V.E., Polyakhov, N.D.	Adaptive control of technical plants based on exo-model	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190425	106	108	10.1109/SCM.2015.7190425	Conference Paper	Scopus
Bogachev, M.I., Markelov, O.A., Pyko, N.S., Pyko, S.A.	Blood pressure - Heart rate synchronization coefficient as a complementary indicator of baroreflex mechanism efficiency	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190446	173	175	10.1109/SCM.2015.7190446	Conference Paper	Scopus
Dorokhov, A.V., Geppener, V.V., Gulvanskiy, V.V., Kaplun, D.I., Klionskiy, D.M.	Multichannel filter bank implementation and prototype-filter design based on magnitude response symmetrization	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190422	96	99	10.1109/SCM.2015.7190422	Conference Paper	Scopus
Putov, V.V., Putov, A.V., Sheludko, V.N., Kazakov, V.P., Stotckaia, A.D., Kopichev, M.M., Ignatiev, K.V.	On correlation between the airport runway friction coefficient measurement results and the real-life aircraft take-off and landing braking Characteristics	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190429	119	121	10.1109/SCM.2015.7190429	Conference Paper	Scopus
Brusakova, I.A.	Formation of business solutions of cognitive economy	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190480	269	271	10.1109/SCM.2015.7190480	Conference Paper	Scopus

Raychuk, Y.A., Viriansky, Z.Y.	Fuzzy measurement application to curriculum development	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190483	278	279	10.1109/SCM.2015.7190483	Conference Paper	Scopus
Dmitrevich, G.D., Markov, M.V., Nguyen, N.M.	Tools for biomechanical cad systems in revision total hip arthroplasty	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190445	170	172	10.1109/SCM.2015.7190445	Conference Paper	Scopus
Brusakova, I.A., Kosuhina, M.A.	The fuzzy logic method for innovation performance measurement	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190487	291	293	10.1109/SCM.2015.7190487	Conference Paper	Scopus
Pisarev, I.A.	Method for automated thesaurus development in learning process support systems	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190399	21	23	10.1109/SCM.2015.7190399	Conference Paper	Scopus
Efimenko, F.S., Stotckaia, A.D.	Investigation of two winding synchronous generator as a part of shipboard unified energy system physical model	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190424	103	105	10.1109/SCM.2015.7190424	Conference Paper	Scopus
Kupriyanov, M.S., Shichkina, J.A., Shukeilo, E.Y.	Using of a matrix method of building of nonbinary decision trees for determining of stability of fixation of a tibia fracture	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190485	283	286	10.1109/SCM.2015.7190485	Conference Paper	Scopus
Alekseev, V.V., Kalyakin, I.V., Konovalova, V.S., Korolev, P.G., Perkova, A.G.	Diagnostic features identification algorithm according to vibration parameters of a compressor installation	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190463	221	224	10.1109/SCM.2015.7190463	Conference Paper	Scopus
Dreshchinsky, V.A.	Methods of decision support in assessing the value of innovative companies	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190481	272	274	10.1109/SCM.2015.7190481	Conference Paper	Scopus

Polyakhov, N.D., Prikhodko, I.A., Tuan, H.A.	Inertialess adaptive algorithms for control of technical objects with limited uncertainty	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190428	115	118	10.1109/SCM.2015.7190428	Conference Paper	Scopus
Korablev, Yu.A., Logutova, N.A., Shestopalov, M.Yu.	Neural network application to diagnostics of pneumatic servo-motor actuated control valve	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190406	42	46	10.1109/SCM.2015.7190406	Conference Paper	Scopus
Komarov, B.G., Minina, A.A., Pankov, A.V., Razmashkin, V.N.	Algorithm of constructing stationary information-measuring system of complex safety working area of the locomotive on the basis of geoinformation technology	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190465	230	232	10.1109/SCM.2015.7190465	Conference Paper	Scopus
Kalmychkov, V.A., Krasilnikov, A.V., Matveeva, I.V.	Quantum circuits specifications design with lexical verification	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190419	87	89	10.1109/SCM.2015.7190419	Conference Paper	Scopus
Filatov, Y.V., Kustov, T.V., Velichko, A.N., Zakharov, I.S.	Bioassay system based on paramecium caudatum thermotaxis test-reaction for aquatic toxicity control	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190477	261	263	10.1109/SCM.2015.7190477	Conference Paper	Scopus
Kupriyanov, M.S., Shichkina, Y.A.	Using of a table method of simplification of polynomial equation systems	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190456	200	204	10.1109/SCM.2015.7190456	Conference Paper	Scopus
Ivashchenko, O.A., Minina, A.A., Orlova, N.V.	Algorithm to improve the accuracy of linear coordinates in model railroading way	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190466	233	234	10.1109/SCM.2015.7190466	Conference Paper	Scopus
Ignatiev, K.V., Kopichev, M.M., Putov, A.V., Putov, V.V.	Neural network control system for two-mass elastic electromechanical system	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190436	141	143	10.1109/SCM.2015.7190436	Conference Paper	Scopus

Laristov, A.I., Lyachek, Yu.T., Obadi, M.A.M.	Use of Internet technologies for work organisation with projection system	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190448	179	181	10.1109/SCM.2015.7190448	Conference Paper	Scopus
Kotova, E.E.	Method to support decision-making on the allocation of educational resources in the learning process	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190484	280	282	10.1109/SCM.2015.7190484	Conference Paper	Scopus
Poshekhonov, L.B., Bepalov, A.V., Shestopalov, M.Yu.	Decision making in fault tolerant control systems of technological processes	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190405	37	41	10.1109/SCM.2015.7190405	Conference Paper	Scopus
Kupriyanov, M.S., Pozdniakov, S.N., Posov, I.A.	Simulation in the development of learning support systems	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190431	125	126	10.1109/SCM.2015.7190431	Conference Paper	Scopus
Begun, P.I., Bolsunov, K.N., Lebedeva, E.A., Godanyuk, D.S., Ivanov, D.S.	Support system for the spine condition assessment	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190450	184	186	10.1109/SCM.2015.7190450	Conference Paper	Scopus
Kozlova, O.A., Kozlova, L.P.	A modern approach to the selecting of the contours in the task of technical vision	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190413	70	71	10.1109/SCM.2015.7190413	Conference Paper	Scopus
Belov, M.P., Zolotov, O.I.	Optimization of parameters of neural networks by genetic algorithm in the control systems of electromechanical objects	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190490	136	138	10.1109/SCM.2015.7190490	Conference Paper	Scopus
Belov, M.P., Zolotov, O.I.	The maintenance of structures	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190435	139	140	10.1109/SCM.2015.7190435	Conference Paper	Scopus

Kozlova, L.P., Kozlova, O.A.	Using of fuzzy set theory when designing technical systems	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190453	193	194	10.1109/SCM.2015.7190453	Conference Paper	Scopus
Baliuk, A.S., Gaidukov, A.I., Peryazev, N.A., Peryazeva, Yu.V.	Mathematical logic models for decision support systems in the case of incomplete information	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190461	217	218	10.1109/SCM.2015.7190461	Conference Paper	Scopus
Kukharev, G.A., Matveev, Yu.N., Shchegoleva, N.L.	Matching of a sketches with an original photos	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190441	157	159	10.1109/SCM.2015.7190441	Conference Paper	Scopus
Markelov, O.A., Pyko, N.S., Pyko, S.A., Ryabinina, A.I., Uljanitsky, Yu.D., Klimkin, A.V., Komantsev, V.N.	Statistical analysis of the electrophysiological parameters of motor response to nerve stimulation	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190397	15	17	10.1109/SCM.2015.7190397	Conference Paper	Scopus
Gorokhov, V.L., Kholodnyak, D.V., Vitkovsky, V.	The concept of computer visualization of scientific metaphor	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190451	187	188	10.1109/SCM.2015.7190451	Conference Paper	Scopus
Dmitrevich, G.D., Nguyen, N.M., Solnitsev, R.I., Tikhilov, R.M., Tsibin, A.V., Vopilovsky, P.N.	Biomechanical CAD system in revision arthoroplasty	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190444	167	169	10.1109/SCM.2015.7190444	Conference Paper	Scopus
Geppener, V.V., Mandrikova, O.V., Zhizhikina, E.A.	Automatic method for estimation of the Earth's magnetic field state	2015	Proceedings of International Conference on Soft Computing and Measurements, SCM 2015	7190473	251	254	10.1109/SCM.2015.7190473	Conference Paper	Scopus

Kholod, I., Kuprianov, M., Shorov, A.	Parallelization of data mining algorithms for multicore processors	2015	Proceedings - 2015 4th Mediterranean Conference on Embedded Computing, MECO 2015 - Including ECyPS 2015, BioEMIS 2015, BioICT 2015, MECO-Student Challenge 2015	7181919	262	267	10.1109/MECO.2015.7181919	Conference Paper	Scopus	
Davydov, S.Y., Posrednik, O.V.	Low-energy approximation in the theory of adsorption on graphene	2015	Physics of the Solid State	57	8	1695	1698	10.1134/S1063783415080053	Article	Scopus
Sosnin, D.V., Kudryashov, D.A., Gudovskikh, S.A., Zelentsov, K.S.	Electrical and optical properties of nanosized films of doped zinc and indium oxides deposited by RF magnetron sputtering at room temperature	2015	Technical Physics Letters	41	8	804	806	10.1134/S1063785015080325	Article	Scopus
Nashchekin, A.V., Pogumirskii, M.V., Rostokin, P.V., Sidorov, A.I., Shakhverdov, T.A.	Specific features of thermal dissolution of silver and gold thin films in silicate glass	2015	Physics of the Solid State	57	8	1659	1665	10.1134/S1063783415080211	Article	Scopus
Mezdrogina, M.M., Eremenko, M.V., Smirnov, A.N., Petrov, V.N., Terukov, E.I.	Emission intensity of the $\lambda = 1.54 \mu\text{m}$ line in ZnO films grown by magnetron sputtering, diffusion doped with Ce, Yb, Er	2015	Semiconductors	49	8	992	999	10.1134/S1063782615080138	Article	Scopus
Ivanov, P.A., Potapov, A.S., Nikolaev, A.E., Lundin, V.V., Sakharov, A.V., Tsatsulnikov, A.F., Afanas'ev, A.V., Romanov, A.A., Osachev, E.V.	Capacitance-voltage characteristics of (Al/Ti)/Al<math>\text{O}_2\text{/n-GaN MIS structures	2015	Semiconductors	49	8	1035	1038	10.1134/S1063782615080096	Article	Scopus
Coudert, L.H., Gutlé, C., Huet, T.R., Grabow, J.-U., Levshakov, S.A.	Spin-torsion effects in the hyperfine structure of methanol	2015	Journal of Chemical Physics	143	4	44304		10.1063/1.4926942	Article	Scopus
Vasil'ev, V.I., Gágis, G.S., Kuchinskii, V.I., Danil'chenko, V.G.	Formation of III–V ternary solid solutions on GaAs and GaSb plates via solid-phase substitution reactions	2015	Semiconductors	49	7	962	966	10.1134/S1063782615070234	Article	Scopus
Efimenko, L.P., Afanas'ev, V.P., Baryshnikov, V.G.	Synthesis of ferroelectric powders of bismuth titanate doped with yttrium	2015	Glass Physics and Chemistry	41	4	437	439	10.1134/S1087659615040045	Article	Scopus
Len'shin, A.S., Seredin, P.V., Minakov, D.A., Kononova, I.E., Moshnikov, V.A.	Specific features of the sol-gel formation and optical properties of nanostructured systems based on the oxides of tin and indium in the matrix of porous silicon	2015	Glass Physics and Chemistry	41	4	417	420	10.1134/S1087659615040112	Article	Scopus
Vostrov, V.N., Kononov, P.V., Kononova, I.E.	Residual stresses in parts with expanded flanges made from L63 and AK7 alloys	2015	Journal of Surface Investigation	9	4	775	783	10.1134/S1027451015040382	Article	Scopus

Markov, A., Hollmann, E., Tumarkin, A., Kozyrev, A., Wördenweber, R.	Engineering of the frequency dependence of the ferroelectric properties of thin film Pt/Ba _{0.5} Sr _{0.5} TiO ₃ /Pt structures	2015	Physica B: Condensed Matter	475		10	13	10.1016/j.physb.2015.06.020	Article	Scopus
Efimenko, L.P., Baryshnikov, V.G., Afanas'Ev, V.P., Plamadyala, N.V.	Synthesis of ferroelectric Ba _{0.4} Sr _{0.6} TiO ₃ powders in salt melts at temperatures of up to 1000°C	2015	Russian Journal of Applied Chemistry	88	7	1122	1126	10.1134/S1070427215070034	Article	Scopus
Sokolovskii, G.S., Viktorov, E.A., Abusaa, M., Danckaert, J., Dudelev, V.V., Kolykhalova, E.D., Soboleva, K.K., Deryagin, A.G., Novikov, I.I., Maximov, M.V., Zhukov, A.E., Ustinov, V.M., Kuchinskii, V.I., Sibbett, W., Rafailov, E.U., Erneux, T.	Dropout dynamics in pulsed quantum dot lasers due to mode jumping	2015	Applied Physics Letters	106	26	261103		10.1063/1.4923244	Article	Scopus
Averin, I.A., Igoshina, S.E., Moshnikov, V.A., Karmanov, A.A., Pronin, I.A., Terukov, E.I.	Sensitive elements of vacuum sensors based on porous nanostructured SiO ₂ -SnO ₂ sol-gel films	2015	Technical Physics	60	6	928	932	10.1134/S106378421506002X	Article	Scopus
Pestov, I.A., Keskinov, V.A., Semenov, K.N., Charykov, N.A., Letenko, D.G., Nikitin, V.A.	Solubility of [C ₆₀ -(COOH) ₂] ₃ in the [C ₆₀ -(COOH) ₂] ₃ -SmCl ₃ -H ₂ O ternary system at 25°C	2015	Russian Journal of Physical Chemistry A	89	6	998	1000	10.1134/S0036024415060230	Article	Scopus
Aleksandrov, O.V.	On the effect of bias on the behavior of MOS structures subjected to ionizing radiation	2015	Semiconductors	49	6	774	779	10.1134/S1063782615060020	Article	Scopus
Andronikov, D., Abramov, A., Terukov, E., Vinogradov, A., Ankudinov, A., Afanasjev, V.	High-efficiency plasma treatment for surface modification of LPCVD ZnO	2015	Semiconductors	49	6	823	826	10.1134/S1063782615060032	Article	Scopus
Goncharov, V.D., Samsonov, D.S.	Production and simultaneous deposition of ultradisperse particles on a substrate in a pulsed atmospheric-pressure gas discharge traveling over the surface of electrodes in the self-magnetic field	2015	Technical Physics	60	5	669	673	10.1134/S1063784215050060	Article	Scopus

Kayumov, A.R., Khakimullina, E.N., Sharafutdinov, I.S., Trizna, E.Y., Latypova, L.Z., Thi Lien, H., Margulis, A.B., Bogachev, M.I., Kurbangalieva, A.R.	Inhibition of biofilm formation in <i>Bacillus subtilis</i> by new halogenated furanones	2015	Journal of Antibiotics	68	5	297	301	10.1038/ja.2014.143	Article	Scopus
Wang, Z., Cherkasskii, M., Kalinikos, B.A., Wu, M.	Observation of spin-wave dark soliton pairs in yttrium iron garnet thin films	2015	Physical Review B - Condensed Matter and Materials Physics	91	17	174418		10.1103/PhysRevB.91.174418	Article	Scopus
Grigor'ev, R.V., Shtrom, I.V., Grigor'eva, N.R., Novikov, B.V., Soshnikov, I.P., Samsonenko, Y.B., Khrebtov, A.I., Buravlev, A.D., Cirlin, G.E.	Photoelectric properties of an array of axial GaAs/AlGaAs nanowires	2015	Technical Physics Letters	41	5	443	447	10.1134/S1063785015050077	Article	Scopus
Flambaum, V.V., Kozlov, M.G., Gribakin, G.F.	Coherent and stochastic contributions of compound resonances in atomic processes: Electron recombination, photoionization, and scattering	2015	Physical Review A - Atomic, Molecular, and Optical Physics	91	5	52704		10.1103/PhysRevA.91.052704	Article	Scopus
Zubkov, V.I., Kucherova, O.V., Yakovlev, I.N., Solomonov, A.V.	An automated system based on cryogenic probe station for integrated studies of semiconductor light-emitting structures and wafers in the range of 15 to 475 K	2015	Russian Microelectronics	44	3	203	209	10.1134/S1063739715030099	Article	Scopus
Filatov, Y.V., Nikolaev, M.S., Pavlov, P.A., Venediktov, V.Y.	Noncontact measurement of angular position and angular movement by means of laser goniometer	2015	Optical Engineering	54	5	54103		10.1117/1.OE.54.5.054103	Article	Scopus
Tyurin, D.P., Semenov, K.N., Charykov, N.A., Cherepkova, I.A., Keskinov, V.A.	Dissociation of fullerene-70-d in aqueous solutions and their electric conductivity	2015	Russian Journal of Physical Chemistry A	89	5	771	775	10.1134/S0036024415040263	Article	Scopus
Levin, R.V., Marichev, A.E., Shvarts, M.Z., Marukhina, E.P., Khvostikov, V.P., Pushnyi, B.V., Mizerov, M.N., Andreev, V.M.	Photovoltaic converters of concentrated sunlight, based on InGaAsP(1.0 eV)/InP heterostructures	2015	Semiconductors	49	5	700	703	10.1134/S1063782615050139	Article	Scopus
Dunaevskiy, M., Dontsov, A., Alekseev, P., Monakhov, A., Baranov, A., Girard, P., Arinero, R., Teissier, R., Titkov, A.	Apertureless scanning microscope probe as a detector of semiconductor laser emission	2015	Applied Physics Letters	106	17	171105		10.1063/1.4919528	Article	Scopus
Alekseev, N.I., Tverdokhlebov, K.V., Zhukov, B.G., Kurakin, R.O., Bobashev, S.V.	Optimum Gasdynamic Conditions of Use of a Railgun Accelerator for Spraying of Various Materials on Target Surfaces	2015	Journal of Engineering Physics and Thermophysics					10.1007/s10891-015-1215-5	Article in Press	Scopus
Zaitseva, N.A., Stepanov, B.G.	An ultrasound wideband converter with the phased excitation of its two forming piezoplates	2015	Russian Journal of Nondestructive Testing	51	1	22	31	10.1134/S1061830915010088	Article	Scopus
Shilova, O.A., Frank-Kamenetskaya, O.V., Korobkova, A.I.	On the influence of detonation nanodiamond dopants on phase content and hydration features of portland cement materials	2015	Glass Physics and Chemistry	41	2	206	211	10.1134/S108765961502011X	Article	Scopus

Vinnik, D.A., Ustinov, A.B., Zherebtsov, D.A., Vitko, V.V., Gudkova, S.A., Zakharchuk, I., Lähderanta, E., Niewa, R.	Structural and millimeter-wave characterization of flux grown Al substituted barium hexaferrite single crystals	2015	Ceramics International	41		12728	12733	10.1016/j.ceramint.2015.06.105	Article	Scopus	
Mazing, D.S., Aleksandrova, O.A.	Synthesis of cadmium selenide colloidal nanoparticles stabilized with thioglycolic acid	2015	Nanoscale-Arranged Systems for Nanotechnology			131	135		Book Chapter	Scopus	
Mazing, D.S., Aleksandrova, O.A.	Synthesis of cadmium selenide colloidal nanoparticles stabilized with thioglycolic acid	2015	Nanoscale-Arranged Systems for Nanotechnology			55	61		Book Chapter	Scopus	
Spivak, Y.M., Maraeva, E.V., Belorus, A.O., Molchanova, A.V., Nigmadzyanova, N.R.	Preparation and investigation of porous silicon nanoparticles for targeted drug delivery	2015	Nanoscale-Arranged Systems for Nanotechnology			162	165		Book Chapter	Scopus	
Matyushkin, L.B., Muratova, E.N.	Investigation of the optical properties of nanoporous membranes based on alumina	2015	Nanoscale-Arranged Systems for Nanotechnology			136	138		Book Chapter	Scopus	
Abrashova, E.V., Kononova, I.E., Moshnikov, V.A.	Metal oxide SnO_2 - ZnO - SiO_2 films prepared by sol-gel	2015	Nanoscale-Arranged Systems for Nanotechnology			39	45		Book Chapter	Scopus	
Muratova, E.N., Matyushkin, L.B.	Investigation of the optical properties of nanoporous membranes based on alumina	2015	Nanoscale-Arranged Systems for Nanotechnology			63	70		Book Chapter	Scopus	
Beltukov, Y.M., Greshnov, A.A.	Quantum Hall effect in semiconductor systems with quantum dots and antidots	2015	Semiconductors	49	4	483	491	10.1134/S1063782615040077	Article	Scopus	
Pshchelko, N.S., Moshnikov, V.A., Sevryugina, M.P.	Influence of nanodimensional effects on electric adhesion in anodic bonding manufacturing of composites seals	2015	Nanoscale-Arranged Systems for Nanotechnology			71	77		Book Chapter	Scopus	
Davydov, S.Y., Posrednik, O.V.	On the theory of elastic properties of two-dimensional hexagonal structures	2015	Physics of the Solid State	57	4	837	843	10.1134/S1063783415040095	Article	Scopus	
Filatov, Y.V., Sevryugin, A.A., Shalymov, E.V., Venediktov, V.Y.	Frequency properties of the confocal ring cavity	2015	Optical Engineering	54	4	44107		10.1117/1.OE.54.4.044107	Article	Scopus	
Dedyk, A.I., Semenov, A.A., Pavlova, Y.V., Belyavskii, P.Y., Nikitin, A.A., Pakhomov, O.V., Mylnikov, I.L.	Photoelectrical properties of strontium titanate	2015	Technical Physics	60	4	624	627	10.1134/S1063784215040088	Article	Scopus	
Lysova, S.S., Zevatskii, Yu.E., Demidov, E.V., Novoselov, N.P.	Densimetric study of protolytic equilibria in aqueous electrolyte solutions	2015	Russian Journal of General Chemistry	85	4	1707	781	785	10.1134/S1070363215040015	Article	Scopus
Maksimov, A.I., Moshnikov, V.A., Pshchelko, N.S., Startseva, A.V., Suchanek, G., Moshkalev, S.A.	Formation of titanium oxide semiconductor structures by the local anodic oxidation	2015	Nanoscale-Arranged Systems for Nanotechnology			154	155		Book Chapter	Scopus	
Astrova, E.V., Li, G.V., Parfen'eva, A.V., Rumyantsev, A.M., Zhdanov, V.V., Pavlov, S.I., Levitskii, V.S., Terukov, E.I., Davydov, V.Y.	Structure and composition of silicon microarrays subjected to cyclic insertion and extraction of lithium	2015	Technical Physics	60	4	531	540	10.1134/S1063784215040040	Article	Scopus	

Pshchelko, N.S., Moshnikov, V.A., Sevryugina, M.P., Moshkalev, S.A.	Influence of nanodimensional effects on electric adhesion in anodic bonding manufacturing of composite seals	2015	Nanoscale-Arranged Systems for Nanotechnology	152	153				Book Chapter	Scopus
Goloshchapov, D.L., Len'shin, A.S., Tutov, E.A., Ponomarev, Y.A., Maraeva, E.V.	Sorption properties of composite materials based on calcium hydroxyapatite	2015	Nanoscale-Arranged Systems for Nanotechnology	149	151				Book Chapter	Scopus
Kalinina, E.V., Lebedev, A.A., Bogdanova, E., Berenquier, B., Ottaviani, L., Violina, G.N., Skuratov, V.A.	Irradiation of 4H-SiC UV detectors with heavy ions	2015	Semiconductors	49	4	540	546	10.1134/S1063782615040132	Article	Scopus
Tumarkin, A.V., Kukushkin, S.A., Osipov, A.V., Ankudinov, A.S., Odinets, A.A.	Role of elastic energy in the formation of ferroelectric barium strontium titanate films on sapphire	2015	Physics of the Solid State	57	4	815	819	10.1134/S1063783415040307	Article	Scopus
Tumarkin, A.V., Al'myashev, V.I., Razumov, S.V., Gaidukov, M.M., Gagarin, A.G., Al'tynnikov, A.G., Kozyrev, A.B.	Structural properties of barium strontium titanate films grown under different technological conditions	2015	Physics of the Solid State	57	3	553	557	10.1134/S1063783415030348	Article	Scopus
Semenov, A.A., Dedyk, A.I., Myl'nikov, I.L., Pakhomov, O.V., Bogachev, Y.V., Knyazev, M.N., Pavlova, Y.V., Belyavskii, P.Y.	Investigation of ferroelectric multilayer structures with properties of multiferroics based on barium-strontium titanate films	2015	Physics of the Solid State	57	3	535	543	10.1134/S1063783415030294	Article	Scopus
Prado, D.R., Osipov, A.V., Quevedo-Teruel, O.	Implementation of transformed lenses in bed of nails reducing refractive index maximum value and sub-unity regions	2015	Optics Letters	40	6	926	929	10.1364/OL.40.000926	Article	Scopus
Nikitin, A.A., Ustinov, A.B., Semenov, A.A., Chumak, A.V., Serga, A.A., Vasyuchka, V.I., Lähderanta, E., Kalinikos, B.A., Hillebrands, B.	A spin-wave logic gate based on a width-modulated dynamic magnonic crystal	2015	Applied Physics Letters	106	10	102405		10.1063/1.4914506	Article	Scopus
Shchemelev, M.V., Prokof'ev, G.I.	Synthesis of stable reinforcement trajectories of composite structures on smooth layup surface	2015	Automatic Control and Computer Sciences	49	2	67	75	10.3103/S0146411615020054	Article	Scopus
Tural'chuk, P.A., Vendik, O.G., Vendik, I.B.	Propagation of electromagnetic waves in biological media: Refraction at interfaces	2015	Technical Physics Letters	41	3	270	272	10.1134/S1063785015030281	Article	Scopus
Baruzdin, S.A.	Excitation of spin echo by pulses with linear frequency modulation	2015	Technical Physics	60	3	400	405	10.1134/S1063784215030032	Article	Scopus
Yashchenko, V.N., Kozlov, D.S., Vendik, I.B.	A dual-mode resonator for a dual-band wireless energy transfer system with possible simultaneous data transmission	2015	Technical Physics Letters	41	3	277	280	10.1134/S106378501503030X	Article	Scopus
Venediktov, V.Y., Gorelaya, A.V., Shalymov, E.V.	Applicability of the Kerr effect in remote sensing of thunderstorm electric fields	2015	Atmospheric and Oceanic Optics	28	2	192	196	10.1134/S1024856015020128	Article	Scopus
Alekseev, N.I., Tverdokhlebov, K.V., Zhukov, B.G., Kurakin, R.O., Bobashev, S.V.	Optimum gasdynamic conditions of use of a railgun accelerator for spraying of various materials on target surfaces	2015	Journal of Engineering Physics and Thermophysics	88	2	504	517	10.1007/s10891-015-1215-5	Article	Scopus

Morozov, I.A., Gudovskikh, A.S., Kudryashov, D.A., Nikitina, E.V., Talkenberg, F., Schleusener, A., Bochmann, A., Sivakov, V.	a-Si:H/c-Si heterojunction solar cell based on top-down silicon nanostructures	2015	Journal of Nanoelectronics and Optoelectronics	9	6	723	727	10.1166/jno.2014.1669	Article	Scopus	
Besprozvannykh, N.V., Sine!Nikova, O.Y., Kuchaeva, S.K., Ugolkov, V.L., Al'Myashev, V.I., Smirnova, A.M., Koptelova, L.A., Petrov, S.A.	Sol-gel synthesis and leaching of potassium hollandites	2015	Russian Journal of Applied Chemistry	88	2	192	196	10.1134/S1070427215020020	Article	Scopus	
Bogdanovich, V.A., Vostretsov, A.G., Essai, M.H.	Robust generation of invariant detectors in uncertain noise environments	2015	2014 12th International Conference on Actual Problems of Electronic Instrument Engineering, APEIE 2014 - Proceedings			7040917	357	367	10.1109/APEIE.2014.7040917	Conference Paper	Scopus
Konovalov, S.I., Kuz'menko, A.G.	On the optimization of the shapes of short-duration acoustic pulses for solving probing problems in immersion tests	2015	Russian Journal of Nondestructive Testing	51	2	101	107	10.1134/S1061830915020059	Article	Scopus	
Bonomorskii, O.I., Kyuregyan, A.S., Gorbatyuk, A.V., Ivanov, B.V.	Comparative analysis of static characteristics of insulated gate bipolar transistors and thyristors with static induction	2015	Russian Electrical Engineering	86	2	93	97	10.3103/S1068371215020042	Article	Scopus	
Lukyanov, D., Shevchenko, S., Kukaev, A., Filippova, E., Safronov, D.	Micromechanical accelerometers based on surface acoustic waves	2015	NORCHIP 2014 - 32nd NORCHIP Conference: The Nordic Microelectronics Event			7004701		10.1109/NORCHIP.2014.7004701	Conference Paper	Scopus	
Putov, V.V., Putov, A.V., Kazakov, V.P., Rusyaeva, T.L., Kopichev, M.M.	On improving the efficiency of methods and technical solutions of prelanding air field coatings frictional properties control	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015			7102277	270	274	10.1109/ElConRusNW.2015.7102277	Conference Paper	Scopus
Kholod, I.	Framework for multi threads execution of data mining algorithms	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015			7102237	82	88	10.1109/ElConRusNW.2015.7102237	Conference Paper	Scopus

Solovyeva, E., Kondakov, A.	Decomposed piecewise memory polynomial predistortion for nonlinear power amplifier	2015	2015 International Siberian Conference on Control and Communications, SIBCON 2015 - Proceedings	7147221			10.1109/SIBCON.2015.7147221	Conference Paper	Scopus
Kuzmina, T., Dubrovskiy, G.	Neural network control system for a tracked robot	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102268	233	235	10.1109/EIConRusNW.2015.7102268	Conference Paper	Scopus
Samokhvalov, D., Statsenko, F.	Computational speed-up of numerical differentiation of resolver signals	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102279	279	281	10.1109/EIConRusNW.2015.7102279	Conference Paper	Scopus
Putov, V.V., Putov, A.V., Stotckaia, A.D., Druian, E.V., Ignatiev, K.V.	On the efficiency of adaptive control systems of nonlinear control object with the uncertainties and incomplete measuring	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102276	266	269	10.1109/EIConRusNW.2015.7102276	Conference Paper	Scopus
Kholodnyak, D., Turgaliev, V., Zameshaeva, E.	Dual-band immittance inverters on dual-composite right/left-handed transmission line (D-CRLH TL)	2015	2015 German Microwave Conference, GeMiC 2015	7107752	60	63	10.1109/GEMIC.2015.7107752	Conference Paper	Scopus
Galunin, S., Kudryash, M., Blinov, K., Kozulina, T.	Numerical simulation and optimization of heater for induction hardening of leading wheel gear	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102260	192	195	10.1109/EIConRusNW.2015.7102260	Conference Paper	Scopus

Filatova, E.S., Filatov, D.M., Stotckaia, A.D., Dubrovskiy, G.	Time series dynamics representation model of power consumption in electric load forecasting system	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102256	175	179	10.1109/ElConRusNW.2015.7102256	Conference Paper	Scopus	
Vodyaho, A., Zhukova, N.	Implementation of agile concepts in recommender systems for data processing and analyses	2015	Communications in Computer and Information Science	542	443	457	10.1007/978-3-319-26123-2_42	Conference Paper	Scopus	
Samokhvalov, D., Stoliarov, S., Kekkonen, A.	The hybrid stepper motor modeling in simulink	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102280	282	285	10.1109/ElConRusNW.2015.7102280	Conference Paper	Scopus	
Filatov, Y.V., Larichev, R.A.	Aberration influence on accuracy of angle measurements by means of autocollimator	2015	Proceedings of SPIE - The International Society for Optical Engineering	9525	952530		10.1117/12.2184726	Conference Paper	Scopus	
Lukyanov, D., Shevchenko, S., Kukaev, A., Khivrich, M., Telichkin, R.	Unattended and remote inertial sensors on surface acoustic waves	2015	Proceedings of SPIE - The International Society for Optical Engineering	9647	96470A		10.1117/12.2194310	Conference Paper	Scopus	
Kholod, I., Kuprianov, M., Shorov, A.	Constructing parallel association algorithms from function blocks	2015	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	9165		124	138	10.1007/978-3-319-20910-4_10	Conference Paper	Scopus
Vinogradov, M.L., Barchenko, V.T., Lisenkov, A.A., Kostrin, D.K., Babinov, N.A.	Gas Permeation through Vacuum Materials: Mass-spectrometry Measurement System	2015	Vakuum in Forschung und Praxis	27	3	26	29	10.1002/vipr.201500584	Article	Scopus
Polyakhov, N.D., Bespalov, A.V.	Time series evaluation methods of system dynamics	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102274	257	261	10.1109/ElConRusNW.2015.7102274	Conference Paper	Scopus	

Kutuzov, V.	Preface	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102302	2	10.1109/EIConRusNW.2015.7102302		Editorial	Scopus
Putov, V.V., Putov, A.V., Ignatiev, K.V., Belgradskaya, E.V., Kopichev, M.M.	Autonomous three-wheeled robot with computer vision system	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102275	262	265 10.1109/EIConRusNW.2015.7102275		Conference Paper	Scopus
Butusov, D.N., Ostrovskii, V.Y., Tutueva, A.V.	Simulation of dynamical systems based on parallel numerical integration methods	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102231	56	59 10.1109/EIConRusNW.2015.7102231		Conference Paper	Scopus
Filatov, Yu.V., Boronakhin, A.M., Dao, V.B., Le, V.T.	Dynamic calibration of an accelerometer triad on a two-axis test bed	2015	22nd Saint Petersburg International Conference on Integrated Navigation Systems, ICINS 2015 - Proceedings		397	400		Conference Paper	Scopus
Boronahin, A.M., Filatov, Y.V., Larionov, D.Y., Podgornaya, L.N., Shalymov, R.V.	Measurement system for railway track condition monitoring	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102252	155	158 10.1109/EIConRusNW.2015.7102252		Conference Paper	Scopus
Solovyeva, E.B.	Cascade structure of digital predistorter for power amplifier linearization	2015	Radioengineering	24	4	1071	1076 10.13164/re.2015.1071	Article	Scopus
Ivashchenko, E.M., Pavlov, P.A.	Dynamic goniometer for industrial applications	2015	Proceedings of SPIE - The International Society for Optical Engineering	9525	95252G	10.1117/12.2184027		Conference Paper	Scopus

Mikerov, A.G.	From the history of electrical engineering IV: Maxwell's electromagnetic theory and its experimental confirmation	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102219	5	10	10.1109/EIConRusNW.2015.7102219	Conference Paper	Scopus
Klionskiy, D.M., Kaplun, D.I., Voznesenskiy, A.S., Gulvanskiy, V.V., Kupriyanov, M.S.	Digital filter bank implementation and signal classification on the basis of CUDA	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102239	93	97	10.1109/EIConRusNW.2015.7102239	Conference Paper	Scopus
Lukyanov, D., Shevchenko, S., Kukaev, A., Filippova, E., Khivrich, M.	The use of quartz packaging for SAW-based sensors	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102226	33	35	10.1109/EIConRusNW.2015.7102226	Conference Paper	Scopus
Karimov, A.I., Karimov, T.I.	Dynamic system simulation using delta operator in LabVIEW environment	2015	2015 International Siberian Conference on Control and Communications, SIBCON 2015 - Proceedings	7147320			10.1109/SIBCON.2015.7147320	Conference Paper	Scopus
Maytarattanakhon, A., Akimushkin, V., Pozdniakov, S.	Olympiad in computer science and discrete mathematics	2015	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	9378	94	105	10.1007/978-3-319-25396-1_9	Conference Paper	Scopus
Shestopalov, M.J., Korablev, J.A., Savelyev, D.M.	Instrumental tools for design and development of technical objects' Fault Tolerant Control systems	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102281	286	287	10.1109/EIConRusNW.2015.7102281	Conference Paper	Scopus

Dubrovskiy, S., Gareev, K.	Measurement method for detecting magnetic and dielectric properties of composite materials at microwave frequencies	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102223	24	26	10.1109/EIConRusNW.2015.7102223	Conference Paper	Scopus
Aleksandrova, O.A., Matyushkin, L.B., Moshnikov, V.A., Ryzhov, O.A.	A flow reactor for synthesis of nanoparticles with a system of optical diagnostics	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102220	12		10.1109/EIConRusNW.2015.7102220	Conference Paper	Scopus
Pyko, N.S., Pyko, S.A., Markelov, O.A., Bogachev, M.I.	Systolic blood pressure and pulse intervals synchronization	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102294	341	344	10.1109/EIConRusNW.2015.7102294	Conference Paper	Scopus
Zaskalnyuk, N.S., Putov, V.V., Rusyaeva, T.L., Kopichev, M.M., Ignatiev, K.V.	Elevator car resilient oscillations suppression control system	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102288	317	320	10.1109/EIConRusNW.2015.7102288	Conference Paper	Scopus
Bekeneva, Y., Shipilov, N., Borisenko, K., Shorov, A.	Simulation of DDoS-attacks and protection mechanisms against them	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102230	49	55	10.1109/EIConRusNW.2015.7102230	Conference Paper	Scopus

Shvetsova, O.	Personnel' motivation in international companies	2015	Proceedings of the 26th International Business Information Management Association Conference - Innovation Management and Sustainable Economic Competitive Advantage: From Regional Development to Global Growth, IBIMA 2015			2489	2496							
Khachaturian, A.B., Gayvoronsky, D.V.	Delay estimation and multipath resistance potential accuracy of continuous phase modulation signals	2015	IET Communications	9	16	2048	2052	10.1049/iet-com.2015.0237				Conference Paper	Scopus	
Khachaturian, A.B.	Multiple access interference of spectral - Efficient CDMA signatures	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015		7102236	78	81	10.1109/EIConRusNW.2015.7102236				Conference Paper	Scopus	
Mannanov, E., Galunin, S., Blinov, K.	Numerical optimization of transverse flux induction heating systems	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015		7102270	241	244	10.1109/EIConRusNW.2015.7102270				Conference Paper	Scopus	
Kholod, I., Karshiyev, Z., Shorov, A.	The formal model of data mining algorithms for parallelize algorithms	2015	Advances in Intelligent Systems and Computing	342		385	394	10.1007/978-3-319-15147-2_32				Conference Paper	Scopus	
Andreev, M.Y., Lamkin, I.A., Tarasov, S.A., Mikhailov, I.I., Solomonov, A.V.	Ohmic and rectifying contacts for ultraviolet photodiode based on AlGaN solid solutions	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015		7102221	13	16	10.1109/EIConRusNW.2015.7102221				Conference Paper	Scopus	
Lukyanov, D., Shevchenko, S., Kukaev, A., Ivanov, A., Telichkin, R.	Micro rate gyroscopes based on surface acoustic waves	2015	NORCHIP 2014 - 32nd NORCHIP Conference: The Nordic Microelectronics Event		7004702			10.1109/NORCHIP.2014.7004702				Conference Paper	Scopus	

Borisenko, K., Kholod, I., Shorov, A.	Modeling framework for developing and testing network security techniques against DDoS attacks	2015	Proceedings of the International Conference on Software Engineering and Knowledge Engineering, SEKE	2015-January			715				Conference Paper	Scopus
Bokhman, E., Burnashev, M., Filatov, Y., Pavlov, P.	Results of implementation of the dynamic laser goniometer for non-contact measurement of angular movement	2015	Proceedings of SPIE - The International Society for Optical Engineering		9649	96490N		10.1117/12.2194788			Conference Paper	Scopus
Kaplun, D., Klionskiy, D., Voznesenskiy, A., Gulvanskiy, V.	Digital filter bank implementation in hydroacoustic monitoring tasks Implementacja banku filtrów w hydroakustycznych zadaniach monitorowania	2015	Przegląd Elektrotechniczny		91	2	47	50	10.15199/48.2015.02.12		Article	Scopus
Ustinov, A.B., Nikitin, A.A., Kalinikos, B.A.	Magnetically Tunable Microwave Spin-Wave Photonic Oscillator	2015	IEEE Magnetics Letters		6		7289369		10.1109/LMAG.2015.2487238		Article	Scopus
Dobroskok, N.A., Kurdyaeva, O.V.	Magnetic noise reduction in field oriented controlled induction machine	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015				7102255	170	174	10.1109/ElConRusNW.2015.7102255	Conference Paper	Scopus
Andreev, V.S., Malyutin, M.O., Karimov, A.I., Karimov, T.I.	The toolkit for automation design of digital systems with parallel architecture	2015	2015 International Siberian Conference on Control and Communications, SIBCON 2015 - Proceedings				7147312			10.1109/SIBCON.2015.7147312	Conference Paper	Scopus
Kholod, I., Petukhov, I.	Creation of data mining algorithms as functional expression for parallel and distributed execution	2015	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)		9251			62	67	10.1007/978-3-319-21909-7_6	Conference Paper	Scopus
Buznikov, A.A.	Space spectrophotometry of the natural environment from manned orbital stations	2015	Journal of Optical Technology (A Translation of Opticheskii Zhurnal)		82	7	487	493		10.1364/JOT.82.000487	Article	Scopus
Solovyeva, E.B.	Decomposition of piecewise-polynomial model of a predistorter for power amplifier	2015	Radioelectronics and Communications Systems		58	2	90	95		10.3103/S0735272715020065	Article	Scopus

Kholod, I., Petuhov, I., Kapustin, N.	Creation of data mining cloud service on the actor model	2015	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	9247		585	598	10.1007/978-3-319-23126-6_52	Conference Paper	Scopus	
Demidovich, V.B., Chmilenko, F.V., Andrushkevich, V.V., Rastvorova, I.I.	3D-Simulation of electromagnetic and temperature fields in the continuous induction heaters	2015	COUPLED PROBLEMS 2015 - Proceedings of the 6th International Conference on Coupled Problems in Science and Engineering			976	984		Conference Paper	Scopus	
Antonov, A.S., Kostikov, G.A., Lubina, L.M., Savelev, V.A., Ballandovich, S.V., Sugak, M.I.	Experimental investigations of planar millimeter-wave antenna array	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015		7102243	115	119	10.1109/EIConRusNW.2015.7102243	Conference Paper	Scopus	
Lukyanov, D., Shevchenko, S., Kukaev, A.	Multiphysical simulation of a surface acoustic wave gyroscope	2015	22nd Saint Petersburg International Conference on Integrated Navigation Systems, ICINS 2015 - Proceedings			283	286		Conference Paper	Scopus	
Ivanova, M.D., Glazova, A.Y.	Nebulizer improvement for children suffering from bronchial asthma	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015		7102291	329	331	10.1109/EIConRusNW.2015.7102291	Conference Paper	Scopus	
Kaplun, D.I., Klionskiy, D.M., Voznesenskiy, A.S., Gulvanskiy, V.V.	Multichannel filter banks and their implementation using computers with a parallel structure	2015	Progress in Electromagnetics Research Symposium	2015-January		1557	1563		Conference Paper	Scopus	
Ustinov, A.B., Kondrashov, A.V., Nikitin, A.A., Cherkasskii, M.A., Kalinikos, B.A.	Observation of envelope solitons of spin electromagnetic waves in a layered multiferroic structure	2015	JETP Letters		100	12	835	838	10.1134/S0021364014240151	Article	Scopus

Tamazian, A., Bogachev, M.	Analytical and numerical estimates of the Weibull/M/1 and Weibull/Weibull/1 queues efficiency	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102242	110	113	10.1109/EIConRusNW.2015.7102242	Conference Paper	Scopus		
Tumarkin, A., Gagarin, A., Altynnikov, A., Gaidukov, M., Odinets, A., Razumov, S., Kozyrev, A.	Effect of annealing in oxygen atmosphere on structure and microwave properties of multilayered tunable (Ba,Sr)TiO ₃ capacitors	2015	Thin Solid Films	593		189	192	10.1016/j.tsf.2015.09.057	Article	Scopus	
Potrakhov, N.N.	Diagnostic Capabilities of Microfocus Roentgenography	2015	Biomedical Engineering	48	5	237	240	10.1007/s10527-015-9460-7	Article	Scopus	
Zhukova, N., Vodyaho, A.	Dynamic resources management in agile IGIS	2015	Lecture Notes in Geoinformation and Cartography	216		125	145	10.1007/978-3-319-16667-4_8	Conference Paper	Scopus	
Filatov, Y.V., Korolev, P.G., Utushkina, A.V., Tsareva, A.V.	Measuring channel with automatic correction data conversion	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102258		184	187	10.1109/EIConRusNW.2015.7102258	Conference Paper	Scopus	
Shvetsova, O., Aleksandr, Z.	Human resource management in international business	2015	Proceedings of the 26th International Business Information Management Association Conference - Innovation Management and Sustainable Economic Competitive Advantage: From Regional Development to Global Growth, IBIMA 2015			2497	2506		Conference Paper	Scopus	
Osipov, A.V., Sergienko, A.B.	Pairwise recognition of digital modulation modes using optimized circular harmonic functions	2015	Proceedings of 21st European Wireless Conference, European Wireless 2015	7147722					Conference Paper	Scopus	
Turalchuk, P., Munina, I., Derkach, M., Vendik, O., Vendik, I.	Electrically Small Loop Antennas for RFID Applications	2015	IEEE Antennas and Wireless Propagation Letters	14		7088551	1786	1789	10.1109/LAWP.2015.2423854	Article	Scopus
Skobov, V.G., Chernov, A.S.	Magnetic Landau damping in aluminum	2015	Physics of the Solid State	57	2	270	276	10.1134/S106378341502033X	Article	Scopus	

Baranov, P., Drak, O.	A new color filter array with high light sensitivity and high resolution properties	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015	7102222	17	23	10.1109/EIConRusNW.2015.7102222	Conference Paper	Scopus	
Bogdanov, A.V., Lwin, T.K., Stankova, E.	Storage database system in the cloud data processing on the base of consolidation technology	2015	Lecture Notes in Computer Science (including subseries in Artificial Intelligence and Lecture Notes in Bioinformatics)	9158		311	320	10.1007/978-3-319-21410-8_24	Conference Paper	Scopus
Filatov, Y.V., Shalymov, E.V., Venediktov, V.Y.	Quantum noise limit of phase microoptical gyro sensitivity	2015	Proceedings of SPIE - The International Society for Optical Engineering	9506	95061N			10.1117/12.2182967	Conference Paper	Scopus
Bogdanov, A., Gaiduchok, V., Ahmed, N., Cubahiro, A., Gankevich, I.	Profiling scheduler for efficient resource utilization	2015	Lecture Notes in Computer Science (including subseries in Artificial Intelligence and Lecture Notes in Bioinformatics)	9158		299	310	10.1007/978-3-319-21410-8_23	Conference Paper	Scopus
Filatov, Y., Shalymov, E., Venediktov, V.	Advantages of phase measurements in microoptical gyro	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015		7102257	180	183	10.1109/EIConRusNW.2015.7102257	Conference Paper	Scopus
Kayumov, A.R., Nureeva, A.A., Trizna, E.Y., Gazizova, G.R., Bogachev, M.I., Shtyrlin, N.V., Pugachev, M.V., Sapozhnikov, S.V., Shtyrlin, Y.G.	New derivatives of pyridoxine exhibit high antibacterial activity against biofilm-embedded staphylococcus cells	2015	BioMed Research International	2015	890968			10.1155/2015/890968	Article	Scopus
Davydov, S.Y.	Melting of nanoscale layered structures in the generalized pietronero–Tosatti model	2015	Physics of the Solid State	57	7 A031	1463	1468	10.1134/S1063783415070094	Article	Scopus
Orlov, A.A., Moskaletz, O.D., Moskaletz, D.O.	Correlation measurements in the optical range	2015	Proceedings of SPIE - The International Society for Optical Engineering	9598	95980Y			10.1117/12.2187797	Conference Paper	Scopus

Korol, G., Moskaletz, D., Moskaletz, O.	Linearization of transmission function of acousto-optic modulator	2015	Proceedings of Frontiers in Optics 2015, FIO 2015							Conference Paper	Scopus
Petrov, D.A., Stankova, E.N.	Integrated information system for verification of the models of convective clouds	2015	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	9158		321	330	10.1007/978-3-319-21410-8_25		Conference Paper	Scopus
Kutuzov, V., Shaposhnikov, S.	Opening paper role of the IEEE in developing engineers of the future	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015		7102218	3	4	10.1109/EIConRusNW.2015.7102218		Conference Paper	Scopus
Panko, V.S., Salomatov, Y.P., Sugak, M.I.	Directivity of scanning circular ring antenna	2015	2015 International Siberian Conference on Control and Communications, SIBCON 2015 - Proceedings		7147336			10.1109/SIBCON.2015.7147336		Conference Paper	Scopus
Romanovskiy, D.S., Solomonov, A.V., Tarasov, S.A., Lamkin, I.A., Galiev, G.B., Pushkarev, S.S.	Low temperature photoluminescence and photoreflectance of metamorphic HEMT structures with high mole fraction of in	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015		7102227	36	39	10.1109/EIConRusNW.2015.7102227		Conference Paper	Scopus
Demidovich, V.B., Chmilenko, F.V., Rastvorova, I.I.	Utilization of induction heating in the line of continuous casting-continuous rolling of steel	2015	Acta Technica CSAV (Ceskoslovensk Akademie Ved)	60	2	107	118			Article	Scopus
Chekanov, V.V., Candaurova, N.V., Chekanov, V.S., Romantsev, V.V.	Electrically controlled reflection from a thin film at a glycerin-magnetic-liquid boundary	2015	Journal of Optical Technology (A Translation of Opticheskii Zhurnal)	82	1	43	47	10.1364/JOT.82.000043		Article	Scopus
Stepanov, A.	Sandwich classification theorem	2015	International Journal of Group Theory	4	3	7	12			Article	Scopus
Venediktov, V.Yu.	A comment on the paper by R.I. Khrapko 'On the possibility of an experiment on 'nonlocality' of electrodynamics'	2015	Quantum Electronics	45	4	391	392	10.1070/QE2015v045n04ABEH015673		Review	Scopus

Kholod, I., Malov, A., Rodionov, S.	Data mining algorithms parallelizing in functional programming language for execution in cluster	2015	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	9247		140	151	10.1007/978-3-319-23126-6_13	Conference Paper	Scopus		
Radonić, V., Crnojević-Bengin, V., Baskakova, A., Vendik, I.	Multilayer microwave diplexers based on dual-mode resonators for ISM/WiFi bands	2015	Mediterranean Microwave Symposium	2015-April		7088996		10.1109/MMS.2014.7088996	Conference Paper	Scopus		
Averkiev, N.S., Savchenko, G.M., Seisyan, R.P.	Elastic scattering of exciton polaritons	2015	Physics of the Solid State		57	2	290	295	10.1134/S106378341502002X	Article	Scopus	
Gankevich, I., Tipikin, Y., Gaiduchok, V.	Subordination: Cluster management without distributed consensus	2015	Proceedings of the 2015 International Conference on High Performance Computing and Simulation, HPCS 2015			7237106	639	642	10.1109/HPCSim.2015.7237106	Conference Paper	Scopus	
Arafonova, D.S., Sidorov, A.I., Éttuvégyrgina, M.G.	Luminescent fibers with molecular clusters of silver for measuring the refractive index of the ambient medium	2015	Journal of Optical Technology (A Translation of Opticheskii Zhurnal)		82	6	380	384	10.1364/JOT.82.000380	Article	Scopus	
Galunin, S., Blinov, Y., Volchkov, A., Nacke, B., Nikanorov, A.	3 D modelling of rotational field for stirring of molten metal	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, EIConRusNW 2015			7102259	188	191	10.1109/EIConRusNW.2015.7102259	Conference Paper	Scopus	
Skobov, V.G., Chernov, A.S.	Giant quantum oscillations of magnetic landau damping in aluminum	2015	Physics of the Solid State		57	7	A004	1282	1288	10.1134/S1063783415070276	Article	Scopus
Trizna, E.Y., Khakimullina, E.N., Latypova, L.Z., Kurbangalieva, A.R., Sharafutdinov, I.S., Evtuyugin, V.G., Babynin, E.V., Bogachev, M.I., Kayumov, A.R.	Thio derivatives of 2(5H)-furanone as inhibitors against Bacillus subtilis biofilms	2015	Acta Naturae		7	2		102	107		Article	Scopus
Grigorieva, N.S., Mikhailova, D.A., Ostrovskiy, D.B.	Echo-signal from a scatterer in an ice-covered homogeneous waveguide	2015	Acoustical Physics		61	2		127	135	10.1134/S1063771015010030	Article	Scopus
Radonić, V., Crnojević-Bengin, V., Rusakov, A., Vendik, I.	UWB planar monopole antenna based on half-circular perturbations	2015	Mediterranean Microwave Symposium	2015-April		7088997		10.1109/MMS.2014.7088997	Conference Paper	Scopus		
Luchinin, V.V., Moshnikov, V.A., Muratova, E.N., Samigullin, R.S.	Formation of ordered nanoscale capillary membranes based on anodic alumina	2015	Journal of Physics: Conference Series		586	1	12008		10.1088/1742-6596/586/1/012008	Conference Paper	Scopus	

Turgaliev, V., Kholodnyak, D., Müller, J., Hein, M.A.	Design of small-size and low-loss LTCC filters on capacitively loaded cavities	2015	IMAPS/ACerS 11th International Conference and Exhibition on Ceramic Interconnect and Ceramic Microsystems Technologies, CICMT 2015			172	183			Conference Paper	Scopus
Polushin, I.G., Fradkov, A.L., Putov, V.V., Rogov, K.A.	Energy control of one-degree-of-freedom oscillators in presence of bounded force disturbances	2015	European Control Conference, ECC 1999 - Conference Proceedings		7099861	3440	3445			Conference Paper	Scopus
Huletski, A., Kartashov, D., Krinkin, K.	The artificial landmark design for mobile robots localization and mapping	2015	Conference of Open Innovation Association, FRUCT	2015-June	June	7117971	56	61	10.1109/FRUCT.2015.7117971	Conference Paper	Scopus
Mikhailov, V.N., Mikhailova, N.Y.	Design of phase-coded signals with a reduced sidelobe level by heuristic algorithms	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015			7102247	132	134	10.1109/ElConRusNW.2015.7102247	Conference Paper	Scopus
Platonov, R.A., Altynnikov, A.G., Kotelnikov, I.V., Kozyrev, A.B., Osadchy, V.N., Chernokalov, A.G.	Tunable periodic deflector structure based on ferroelectric materials	2015	Progress in Electromagnetics Research Symposium	2015-January			908	912		Conference Paper	Scopus
Sevryugin, A.A., Pulkin, S.A., Tursunov, I.M., Venediktov, D.V., Venediktov, V.Y.	Digital holographic interferometer with correction of distortions	2015	Proceedings of SPIE - The International Society for Optical Engineering		9648	96480E			10.1117/12.2194337	Conference Paper	Scopus
Evseenkov, A.S., Tarasov, S.A., Lamkin, I.A., Solomonov, A.V., Kurin, S.Y.	The efficiency of UV LEDs based on GaN/AlGaIn heterostructures	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015			7102224	27	29	10.1109/ElConRusNW.2015.7102224	Conference Paper	Scopus
Rot, D., Jirinec, S., Kozeny, J., Poznyak, I.	Electrical efficiency of induction furnace with cold crucible via different segments width	2015	Proceedings of the 2015 16th International Scientific Conference on Electric Power Engineering, EPE 2015			7161132	17	20	10.1109/EPE.2015.7161132	Conference Paper	Scopus
Naidenova, X.A., Parkhomenko, V.A.	Modeling processes of inferring good maximally redundant tests	2015	International Journal of Mathematical Models and Methods in Applied Sciences		9		21	28		Article	Scopus

Stankova, E.N., Karpov, I.A.	A parallel algorithm for efficient solution of stochastic collection equation	2015	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	9158		290	298	10.1007/978-3-319-21410-8_22	Conference Paper	Scopus
Kartashov, D., Huletski, A., Krinkin, K.	Fast artificial landmark detection for indoor mobile robots	2015	Proceedings of the 2015 Federated Conference on Computer Science and Information Systems, FedCSIS 2015		2015F232	209	214	10.15439/2015F232	Conference Paper	Scopus
Mazurov, A.I., Potrakhov, N.N.	Effect of Scattered X-Ray Radiation on Imaging Quality and Techniques for Its Suppression*	2015	Biomedical Engineering	48	5	241	245	10.1007/s10527-015-9461-6	Article	Scopus
Wang, Z., Cherkasskii, M., Kalinikos, B., Wu, M.	Spin-wave dark soliton pairs in magnetic thin films	2015	2015 IEEE International Magnetics Conference, INTERMAG 2015		7157009			10.1109/INTMAG.2015.7157009	Conference Paper	Scopus
Belonogaya, E.S., Galyamin, S.N., Tyukhtin, A.V.	Short-wavelength radiation of a charge moving in the presence of a dielectric prism	2015	Journal of the Optical Society of America B: Optical Physics	32	4	649	654	10.1364/JOSAB.32.000649	Article	Scopus
Parnes, M., Vendik, O.	P-i-n diode phase shifter in waveguide structure	2015	Microwave and Optical Technology Letters	57	7	1666	1671	10.1002/mop.29157	Article	Scopus
Lukin, V., Yaschenko, V.	A parametric bootstrap method of computation of control limits of charts for skewed distributions	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015		7102241	102	109	10.1109/ElConRusNW.2015.7102241	Conference Paper	Scopus
Filatov, Y.V., Shalymov, E.V., Venediktov, V.Yu.	Microoptical gyros on the base of passive ring cavities	2015	Proceedings of SPIE - The International Society for Optical Engineering	9649		96490Q		10.1117/12.2194342	Conference Paper	Scopus
Lamkin, I.A., Andreev, M.Y., Tarasov, S.A., Solomonov, A.V., Kurin, S.Y.	AlGaIn photodiodes for UVC, UVB and UVA spectral ranges	2015	Proceedings of the 2015 IEEE North West Russia Section Young Researchers in Electrical and Electronic Engineering Conference, ElConRusNW 2015		7102225	30	32	10.1109/ElConRusNW.2015.7102225	Conference Paper	Scopus
Belorus, A.O., Maraeva, E.V., Spivak, Y.M., Moshnikov, V.A.	The study of porous silicon powders by capillary condensation	2015	Journal of Physics: Conference Series	586	1	12017		10.1088/1742-6596/586/1/012017	Conference Paper	Scopus
Bogdanov, A., Degtyarev, A., Korkhov, V., Gaiduchok, V., Gankevich, I.	Virtual supercomputer as basis of scientific computing	2015	Horizons in Computer Science Research	11			159	198	Book Chapter	Scopus

Gorbatyuk, A.V., Ivanov, B.V.	An efficient method for reducing the threshold of controlled triggering of fast reversely switched dinistors	2015	Technical Physics Letters	41	4	A005	320	323	10.1134/S1063785015040082	Article	Scopus
Anosova, A.V., Kormilicynb, O.P., Patrinab, T.A., Shemelininc, D.A.	Research of mechanical characteristics of bone tissues by means of the developed automated system of medical appointment	2015	Mathematical Biology and Bioinformatics	10	2		548	561	10.17537/2015.10.548	Article	Scopus
Antipov, S., Jing, C., Baryshev, S., Kanareykin, A., Stoupin, S., Gai, W., Zholents, A., Baturin, S., Fedurin, M., Swinson, C.	Experimental test of semiconductor dechirper	2015	6th International Particle Accelerator Conference, IPAC 2015				1932	1934		Conference Paper	Scopus
Demidovich, V.B., Khatsayuk, M.Y., Rastvorova, I.I., Timofeev, V.N., Maksimov, A.A.	Numerical simulation of non-crucible melting of titanium alloy in the alternating electromagnetic field	2015	Magnetohydrodynamics	51	4		785	794		Article	Scopus
Solovev, M.A., Venediktov, V.Y.	Holographic wavefront sensors: State of the art and prospects	2015	Proceedings of SPIE - The International Society for Optical Engineering	9508		95080K			10.1117/12.2182966	Conference Paper	Scopus
Naidenova, X., Parkhomenko, V., Rudenko, A.	Computing approximately minimal diagnostic tests	2015	International Journal of Mathematics and Computers in Simulation	9			29	34		Article	Scopus
Grishkanich, A.S., Sidorov, I.S., Redka, D.N.	Features of creation of highly accurate models of triumphal pylons for archaeological reconstruction	2015	Proceedings of SPIE - The International Society for Optical Engineering	9815		98150X			10.1117/12.2230070	Conference Paper	Scopus
Asmus, J.F., Parfenov, V.A., Elford, J.P.	Radiation ablation for the Isis temples at Philae, Egypt	2015	Studies in Conservation	60		S210	S214		10.1179/0039363015Z.000000000209	Article	Scopus
Bogatyskiy, A., Butler, J.E.	A geometric model of growth for cubic crystals: Diamond	2015	Diamond and Related Materials	53			58	65	10.1016/j.diamond.2014.12.010	Article	Scopus
Kotenko, I., Shorov, A.	Simulation of bio-inspired security mechanisms against network infrastructure attacks	2015	Studies in Computational Intelligence	570			127	133	10.1007/978-3-319-10422-5_14	Article	Scopus
Kotlyar, V.V., Kovalev, A.A., Soifer, V.A.	Nonparaxial hankel vortex beams of the first and second types	2015	Computer Optics	39	3		299	304		Article	Scopus
Sobolev, N.A., Danilov, D.V., Aleksandrov, O.V., Loshachenko, A.S., Sakharov, V.I., Serenkov, I.T., Shek, E.I., Trapeznikova, I.N.	Formation of donor centers upon the annealing of silicon light-emitting structures implanted with oxygen ions	2015	Semiconductors	49	3		406	408	10.1134/S1063782615030203	Article	Scopus
Berengut, J.C., Flambaum, V.V., Dzuba, V.A., Gribakin, G.F., Harabati, C., Kozlov, M.G.	Electron recombination with multicharged ions via chaotic many-electron states	2015	Journal of Physics: Conference Series	635	5	52029			10.1088/1742-6596/635/5/052029	Conference Paper	Scopus
Gorban, A.N., Jarman, N., Steur, E., Van Leeuwen, C., Tyukin, I.Y.	Leaders Do Not Look Back, or Do They?	2015	Mathematical Modelling of Natural Phenomena	10	3		212	231	10.1051/mmnp/201510316	Article	Scopus

Gorelaya, A.V., Lukin, V.P., Sevryugin, A.A., Shubenkova, E.V., Venediktov, V.Y.	Incoherent holography with the use of Shack-Hartmann wavefront sensor	2015	Proceedings of SPIE - The International Society for Optical Engineering	9508	95080L			10.1117/12.2182964	Conference Paper	Scopus
Bystrov, Y.A., Kostrin, D.K., Lisenkov, A.A., Vetrov, N.Z.	Cathode spots of vacuum arc discharges: Motion control on the working surface	2015	Vakuum in Forschung und Praxis	27	2	22	25	10.1002/vipr.201500578	Article	Scopus
Gepshtein, S., Tyukin, I., Tyukin, I.	Optimal measurement of visual motion across spatial and temporal scales	2015	Intelligent Systems Reference Library	73		211	238	10.1007/978-3-319-10653-3_7	Article	Scopus
Bekeneva, Y., Borisenko, K., Shorov, A., Kotenko, I.	Investigation of DDoS attacks by hybrid simulation	2015	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	9357		179	189	10.1007/978-3-319-24315-3_18	Conference Paper	Scopus
Kamanina, N.V., Serov, S.V., Bretonniere, Y., Andraud, C.	Organic systems and their photorefractive properties under the nano- and biostructuration: Scientific view and sustainable development	2015	Journal of Nanomaterials	2015	278902			10.1155/2015/278902	Article	Scopus
Matveev, Y., Kukharev, G., Shchegoleva, N.	A simple method for generating facial barcodes	2015	22nd International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision, WSCG 2014, Communication Papers Proceedings - in cooperation with EUROGRAPHICS Association			213	220		Conference Paper	Scopus
Kulagin, I., Paznikov, A., Kurnosov, M.	Heuristic algorithms for optimizing array operations in parallel PGAS-programs	2015	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	9251		405	409	10.1007/978-3-319-21909-7_39	Conference Paper	Scopus
Selitrenikov, A.V., Zevatskii, Y.E.	Study of acid-base properties of weak electrolytes by conductometric titration	2015	Russian Journal of General Chemistry	85	1	7	13	10.1134/S1070363215010028	Article	Scopus
Afanasyev, A.V., Ivanov, B.V., Ilyin, V.A., Kardo-Sysoev, A.F., Luchinin, V.V., Reshanov, S.A., Schöner, A., Smirnov, A.A.	Temperature dependence of minority carrier lifetime in epitaxially grown p ⁺ -p ⁻ -n ⁺ -p ⁺ 4H-SiC drift step recovery diodes	2015	Materials Science Forum	821-823		632	635	10.4028/www.scientific.net/MSF.821-823.632	Conference Paper	Scopus

Kamanina, N.V., Kukharchik, A.A., Kuzhakov, P.V., Zubtsova, Y.A., Andraud, C., Kajzar, F.	Structural, optical and mechanical properties of nanostructured inorganic materials: Possible applications in biomedicine	2015	Nonlinear Optics Quantum Optics	47	01.мар	131	138		Article	Scopus
Mikhaylov, A.I., Afanasyev, A.V., Luchinin, V.V., Reshanov, S.A., Schöner, A., Knoll, L., Minamisawa, R.A., Alfieri, G., Bartolf, H.	Passivation of 4H-SiC/SiO ₂ interface traps by oxidation of a thin silicon nitride layer	2015	Materials Science Forum	821-823		508	511	10.4028/www.scientific.net/MSF.821-823.508	Conference Paper	Scopus
Kamanina, N.V., Serov, S.V., Shurpo, N.A., Kukharchik, A.A., Andraud, C., Baldeck, P., Kajzar, F.	Structural, optical and mechanical features of the nanostructured organic materials: Possible applications in optoelectronics	2015	Nonlinear Optics Quantum Optics	47	01.мар	139	145		Article	Scopus
Kharitonovskii, P.V., Gareev, K.G., Ionin, S.A., Ryzhov, V.A., Bogachev, Y.V., Klimenkov, B.D., Kononova, I.E., Moshnikov, V.A.	Microstructure and magnetic state of Fe ₃ O ₄ /SiO ₂ colloidal particles	2015	Journal of Magnetism	20	3	221	228	10.4283/JMAG.2015.20.3.221	Article	Scopus
Gorelaya, A.V., Shubenkova, E.V., Dmitriev, D.I., Dmitrieva, A.D., Kudryashov, A.V., Lovchik, I.L., Shalymov, E.V., Sheldakova, Y.V., Tsvetkov, A.D., Venediktov, D.V., Venediktov, V.Y.	Investigation of dual-wavelength laser beam propagation along the in-door atmospheric path	2015	Proceedings of SPIE - The International Society for Optical Engineering	9641		96410C		10.1117/12.2194332	Conference Paper	Scopus
Flambaum, V.V., Kozlov, M.G.	Exchange-assisted tunneling and enhancement of positron annihilation with inner-shell electrons	2015	Journal of Physics: Conference Series	635	5	52026		10.1088/1742-6596/635/5/052026	Conference Paper	Scopus
Il'inskii, A.V., Moshnikov, V.A., Pashkevich, M.E., Permyakov, N.V., Shadrin, E.B.	Atomic-force probing of the potential landscape of the VO ₂ nanocomposite	2015	Technical Physics	60	1	123	127	10.1134/S1063784215010132	Article	Scopus
Kurin, S., Antipov, A., Barash, I., Roenkov, A., Usikov, A., Helava, H., Makarov, Y., Solomonov, A., Tarasov, S., Evseenkov, A., Lamkin, I.	Efficiency of UVA LEDs grown by HVPE in relation with the active region thickness	2015	Physica Status Solidi (C) Current Topics in Solid State Physics	12	04.май	369	371	10.1002/pssc.201400178	Article	Scopus
Kozlov, M.G., Porsev, S.G., Safronova, M.S., Tupitsyn, I.I.	CI-MBPT: A package of programs for relativistic atomic calculations based on a method combining configuration interaction and many-body perturbation theory	2015	Computer Physics Communications	195		199	213	10.1016/j.cpc.2015.05.007	Article	Scopus
Prokin, I., Tyukin, I., Kazantsev, V.	Phase selective oscillations in two noise driven synaptically coupled spiking neurons	2015	International Journal of Bifurcation and Chaos	25	7	1540005		10.1142/S0218127415400052	Article	Scopus
Neznanov, N.G., Kozlova, S.N., Mazo, G.E., Shlyakhto, N.G., Smirnov, B.I.	Comorbidity of depressive disorders and coronary heart disease: General aspects of pathogenesis	2015	Zhurnal Nevrologii i Psikiatrii imeni S.S. Korsakova	2015	5	20	26	10.17116/jnevro20151155120-26	Article	Scopus

Mandrikova, O.V., Fetisova Glushkova, N.V., Al-Kasasbeh, R.T., Klionskiy, D.M., Geppener, V.V., Ilyash, M.Y.	Ionospheric parameter modelling and anomaly discovery by combining the wavelet transform with autoregressive models	2015 Annals of Geophysics	58	5 A0550	10.4401/ag-6729	Article	Scopus
Sokolovskii, G.S., Dudelev, V.V., Melissinaki, V., Losev, S.N., Soboleva, K.K., Deryagin, A.G., Kuchinskii, V.I., Farsari, M., Sibbett, W., Rafailov, E.U.	Optical trapping with superfocused high-M2 laser diode beam	2015 Proceedings of SPIE - The International Society for Optical Engineering	9343	93430Q	10.1117/12.2078957	Conference Paper	Scopus
Zvereva, G., Kirtsideli, I., Benken, K., Saifitdinova, A., Galkina, S., Parfenov, V.	Investigation of the effect of VUV radiation on the viability of microfungi spores	2015 Proceedings of SPIE - The International Society for Optical Engineering	9810	98101W	10.1117/12.2224801	Conference Paper	Scopus
Sokolovskii, G.S., Dudelev, V.V., Kolykhalova, E.D., Soboleva, K.K., Deryagin, A.G., Novikov, I.I., Maximov, M.V., Zhukov, A.E., Ustinov, V.M., Kuchinskii, V.I., Sibbett, W., Rafailov, E.U., Viktorov, E.A., Erneux, T.	Impact of the carrier relaxation paths on two-state operation in quantum dot lasers	2015 Proceedings of SPIE - The International Society for Optical Engineering	9357	93570K	10.1117/12.2078746	Conference Paper	Scopus