

Publications in Mathematics

1. Differential and Integral Equations in Algebra, *Func. Diff. Eq.* (21), no. 3-4 ,137-146 (2014)
2. Spectral Properties of Differential Equations in Clifford Algebras, in [Hypercomplex Analysis: New Perspective and Applications](#). 203-213, (2014)
3. Complex structures in algebra, topology and differential equations. *Georgian Math.J.* [no. 3](#), 249–260, [21 \(2014\)](#), (with Z.Balanov)
4. [Properties of ODEs and PDEs in algebras](#), *Complex Analysis and Operator Theory: Volume 7, Issue 3* (2013), 623-634, (2013)
5. [On a structure of the fixed point set of homogeneous maps](#). *AIMS, DCDS-S vol. 6, no. 4.* (2013) (with A. Kononovich and G. Osharovich)
6. [Projective dynamics of homogeneous systems: local invariants, syzygies and Global Residue Theorem](#), *Proceedings of the Edinburgh Mathematical Society* , (Series 2), Volume 55 , Issue 3, 577-589 (2012), (with Z.Balanov, A.Kononovich)
7. **Differential equations in algebras.** In *Hypercomplex analysis. Birkhäuser.* Trends in Mathematics, 187-205 (2010).
8. **Qualitative theory of nonlinear ODE's in algebras.** *More progresses in analysis.* Hackensack, NJ: World Scientific. 1229-1239 (2009). (with S.Zur)
9. **Analytic functions in algebras.** *More progresses in analysis.* Hackensack, NJ: World Scientific. 1095-1105 (2009).
10. **Analytic functions in Algebra,** *Contemporary Math*, 155, 207-220, (2008)
11. **Analytic Function Theory in Algebras.** *Georgian Mathematical Journal* 14, No. 3, 471—481, (2007).
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16. **Phase portraits of quadratic ODE's and polynomial equations in non-associative commutative algebras.** *EquaDiff 10, Prague* (2001), 111—121
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19. **The structure of monogenic functions.** Clifford algebras and their applications in mathematical physics, Vol. 2 (Ixtapa, 1999), 247--260, Progr. Phys., 19, Birkhäuser Boston, Boston, MA
20. **Construction of one class of solution of elliptical type boundary value problem with discontinuous coefficients.** *"Equations with discontinuous coefficients"*, Alma-Ata, 1985
21. **Solution of problems of the theory of heat conduction in domains with moving boundaries.** (Russian) Analytic and numerical methods for solving problems in mathematics and mechanics, 67--72, 213, "Nauka" Kazakh. SSR, Alma-Ata, 1984.
22. **On the correctness and existence in some inverse heat conduction problems.** *Trudy Kazakh Sci. Conf. of Math. and Mech.* vol 2, 1984, (with U. Sultangazin)
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55. **Analytic functions in non-associative algebras**, In *Joint AMS-RSME meeting*, Sevilla, 2003
56. **Symmetry operators of PDE's in real algebras**, In *Int. Conf. Functional Differential Equations*, Beer-Sheva, 2002
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