

CV

1. **Familiyası, adı, atasının adı:** Allahverdiyev Biləndər Paşa oğlu
2. **Elmi adı:** Professor
3. **Elmi dərəcəsi:** Fizika-Riyaziyyat Elmləri Doktoru

Dərəcə	Bölmə/Program	Universitet	İl
Universitet	Riyaziyyat	Bakı Dövlət Universiteti	1977
Fizika-Riyaziyyat Elmləri Namizədi	Riyaziyyat	Azərbaycan Milli Elmlər Akademiyası	1982
Dossentlik	Riyaziyyat	Azərbaycan Milli Elmlər Akademiyası	1989
Fizika-Riyaziyyat Elmləri Doktoru	Riyaziyyat	Azərbaycan Milli Elmlər Akademiyası	1996

4. Elmi Rəhbəri Olduğu Magistrlik və Doktorluq dissertasiyaları

4.1. Magistrlik Dissertasiyaları

1. MERYEM YALÇINKAYA, İkinci mertebeden adi diferansiyel operatorlərin kendine eş olan ve kendine eş olmayan genişlemeleri, 2020.
2. FATMA NİHAN KARAGÖZ, Fark denklemleri üzerine bir çalışma, 2019.
3. FİRDEVS YILDIZ, İkinci mertebeden fark denklemleri ve onların çözüm yöntemleri, 2018.
4. MEHMET AFŞİN ÖZEK, Perturbasyon metotlar ve bu metotların diferansiyel denklemlere uygulanması, 2013.
5. ÖZLEM KORKMAZ, Sınır değer problemleri ve fark denklemleri, 2010.
6. ASUMAN ZEYTİNOĞLU, Burgers denklemlerinin bazı yaklaşık çözümleri, 2010.
7. HAVVA ŞULE TUNCER, Kendine eş olmayan Sturm–Liouville operatorlərinin spektral analizi, 2009.
8. PAKİZE NEVAL ZEYNELGİL, Singüler adi diferansiyel denklemler için sınır değer problemleri, 2008.
9. ÇİĞDEM ARSLAN, Singüler lineer diferansiyel hamilton sistemler, 2008.
10. ABDURRAHMAN ÇAKIR, Kompleks potansiyele sahip Sturm–Liouville operatorü için ters saçılma problemi ve bazı uygulamaları, 2007.
11. GÜRİZ TURGUT, Hilbert uzayında kendine eş olmayan operatorlərin spektral analizi, 2002.

4.2. Riyaziyyat Üzrə Fəlsəfə Doktoru Dissertasiyaları

1. YÜKSEL YALÇINKAYA, Uyumlu kesirli mertebeden Sturm–Liouville denkleminin spektral analizi, 2020.
2. ASUMAN ZEYTİNOĞLU, Hesaplamalı akışkanlar dinamiğinde bir hibrit yaklaşım, 2017.
3. TUĞBA SARIŞAHİN, Zaman bağımlı kısmi türevli diferensiyel denklemlerin nümerik çözümü için Lagrange interpolasyon polinomları yardımıyla ağsız çizgiler yöntemi, 2016.
4. İŞİL AÇIK DEMİRCİ, Sınır koşulunda spektral parametre bulduran kendine eş olmayan Dirac sistemleri, 2016.
5. YILMAZ ERDEM, (A)(C, a) toplanabilme metodu için Tauber tipi teoremler, 2012.
6. ÜMİT TOTUR, Abel ve Cesàro toplanabilme metodları için Tauber tipi teoremler, 2011.
7. HÜSEYİN TUNA, Simetrik operatörlerin indis defekt ve genişleme teorisi, 2011.
8. CÜNEYT TOYGANÖZÜ, Sınır koşulunda spektral parametre bulduran Sturm–Liouville problemleri, 2009.
9. AYTEKİN ERYILMAZ, Fark operatörlerinin spektral teorisi, 2006.
10. MEVLÜDE YAKIT ONGUN, Sınır koşullarında spektral parametre bulduran ikinci mertebeden adi diferensiyel denklemler için sınır değer problemi, 2004.
11. SUNA SALTAN, Kendine eş olmayan matris potansiyele sahip Schrödinger operatörünün spektral analizi, 2002.

5. Elmi Əsərlər

5.1. Beynəlxalq resenziyalı jurnallarda dərc olunan məqalələr (SCI & ESCI & Scopus)

1. **B. P. ALLAKHVERDIEV** and G. A. ISAEV, Oscillation theorems for multiparametric problems with boundary conditions depending on spectral parameters, (Russian), Izv. Akad. Nauk Az. SSR, Ser. Fiz.-Tekh. Mat. Nauk, vol. 2, no. 6, 17–24 (1981) (SCI-Expanded)
2. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, Spectral analysis of a new class of nonselfadjoint operators with continuous spectrum and point spectrum, Soviet Mathematics - Doklady, vol. 30, 566–569 (1984) (SCI-Expanded)
3. **B. P. ALLAKHVERDIEV**, On dissipative extensions of the symmetric Schrödinger operator in Weyl's limit-circle case, Soviet Mathematics - Doklady, vol. 35, no. 2, 356–359 (1987) (SCI-Expanded)
4. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, On the theory of the characteristic function and spectral analysis of a dissipative Schrödinger operator. Soviet Mathematics - Doklady, vol. 38, no. 3, 665–668 (1989) (SCI-Expanded)

5. **B. P. ALLAKHVERDIEV** and G. Sh. GUSEINOV, On the spectral theory of dissipative difference operators of second order, *Sbornik Mathematics*, vol. 66, no. 1, 107–125 (1990) (SCI-Expanded)
6. F. G. MAKSUDOV, **B. P. ALLAKHVERDIEV** and E. BAIRAMOV, On the spectral theory of a nonselfadjoint operator generated by an infinite Jacobi matrix, *Doklady Mathematics*, vol. 43, no. 1, 78–82 (1991) (SCI-Expanded)
7. **B. P. ALLAKHVERDIEV**, On dilation theory and spectral analysis of dissipative Schrödinger operators in Weyl's limit-circle case, *Izvestiya Mathematics*, vol. 36, no. 2, 247–262 (1991) (SCI-Expanded)
8. **B. P. ALLAKHVERDIEV**, Selfadjoint and non-selfadjoint extensions of the symmetric operator generated by an infinite Jacobi matrix, *Mathematical Notes*, vol. 50, no. 5, 1093–1097 (1991) (SCI-Expanded)
9. **B. P. ALLAKHVERDIEV**, On the theory of nonselfadjoint operators of Schrödinger type with a matrix potential, *Izvestiya Mathematics*, vol. 41, no. 2, pp. 193–205 (1993) (SCI-Expanded)
10. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, Spectral analysis of nonselfadjoint operator-valued functions with continuous and point spectrum, *Doklady Mathematics*, vol. 47, no.2, 174–178 (1993) (SCI-Expanded)
11. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, On the spectral theory of nonselfadjoint second-order difference operators with matrix coefficients, *Doklady Mathematics*, vol. 47, no. 1, 146–149 (1993) (SCI-Expanded)
12. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, On extensions of symmetric Schrödinger operators with matrix potentials, *Doklady Mathematics*, vol. 48, no. 2, 240–243 (1994) (SCI-Expanded)
13. **B. P. ALLAKHVERDIEV**, Extensions of symmetric Schrödinger operators with matrix potentials, *Izvestiya Mathematics*, vol. 5, no. 1, 45–62 (1995) (SCI-Expanded)
14. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, On the spectral theory of non-self-adjoint Dirac operators, *Doklady Mathematics*, vol. 53, no. 3, 372–373 (1996) (SCI-Expanded)
15. **B. P. ALLAHVERDIEV** and A. CANOĞLU, Spectral analysis of dissipative Schrödinger operators, *Proceedings of the Royal Society of Edinburgh Section A-Mathematics*, vol. 127, no. 6, 1113–1121 (1997) (SCI-Expanded)
16. **B. P. ALLAHVERDIEV**, Dilation and functional model of dissipative operator generated by an infinite Jacobi matrix, *Mathematical and Computer Modelling*, vol. 38, no. 10, 989–1001 (2003) (SCI-Expanded)
17. **B. P. ALLAHVERDIEV**, Extensions of the symmetric operator generated by an infinite Jacobi matrix, *Mathematical and Computer Modelling*, vol. 37, no. 9, 1093–1098 (2003) (SCI-Expanded)
18. **B. P. ALLAHVERDIEV**, Dissipative Sturm-Liouville operators with nonseparated boundary conditions, *Monatshefte für Mathematik*, vol. 140, no. 1, 1–17 (2003) (SCI-Expanded)

19. **B. P. ALLAHVERDIEV**, Extensions, dilations and functional models of discrete Dirac operators in limit point circle cases, *IMA Journal of Applied Mathematics*, vol. 68, No. 3, 251–267 (2003) (SCI-Expanded)
20. **B. P. ALLAHVERDIEV**, Spectral analysis of dissipative Dirac operators with general boundary conditions, *Journal of Mathematical Analysis and Applications*, vol. 288, no. 1, 287–303 (2003) (SCI-Expanded)
21. **B. P. ALLAHVERDIEV**, Extensions, dilations and functional models of discrete Dirac operators, *Illinois Journal of Mathematics*, vol. 47, no. 3, 831–845 (2003) (SCI-Expanded)
22. **B. P. ALLAHVERDIEV**, Dissipative Schrödinger operators with matrix potentials, *Potential Analysis*, vol. 20, no. 4, 303–315 (2004) (SCI-Expanded)
23. **B. P. ALLAHVERDIEV**, Dissipative second-order difference operators with general boundary conditions, *Journal of Difference Equations and Applications*, vol. 10, no.1, 1–16 (2004) (SCI-Expanded)
24. **B. P. ALLAHVERDIEV**, Dissipative eigenvalue problems for a singular Dirac system, *Applied Mathematics and Computation*, vol. 152, no. 1, 127–139 (2004) (SCI-Expanded)
25. **B. P. ALLAHVERDIEV**, Extensions, dilations and functional models of Dirac operators, *Integral Equations and Operator Theory*, vol. 51, no. 4, 459–475 (2005) (SCI-Expanded)
26. **B. P. ALLAHVERDIEV** and S. SALTAN, Spectral analysis of nonselfadjoint Schrödinger operators with a matrix potential, *Journal of Mathematical Analysis and Applications*, vol. 303, no. 1, 208–219 (2005) (SCI-Expanded)
27. **B. P. ALLAHVERDIEV**, Extensions, dilations and functional models of Dirac operators in limit-circle case, *Forum Mathematicum*, vol. 17, no. 4, 591–611 (2005) (SCI-Expanded)
28. **B. P. ALLAHVERDIEV**, Extensions, dilations and functional models of infinite Jacobi matrix, *Czechoslovak Mathematical Journal*, vol. 55, no. 130, 593–609 (2005) (SCI-Expanded)
29. **B. P. ALLAHVERDIEV**, Dissipative Sturm–Liouville operators in limit-point case, *Acta Applicandae Mathematicae*, vol. 86, no. 3, 237–248 (2005) (SCI-Expanded)
30. **B. P. ALLAHVERDIEV**, Dissipative discrete Hamiltonian systems, *Computers Mathematics with Applications*, vol. 49, no. 7, 1139–1155 (2005) (SCI-Expanded)
31. **B. P. ALLAHVERDIEV**, A nonselfadjoint singular Sturm–Liouville problem with a spectral parameter in the boundary condition, *Mathematische Nachrichten*, vol. 278, no. 7, 743–755 (2005) (SCI-Expanded)
32. **B. P. ALLAHVERDIEV**, A dissipative singular Sturm–Liouville problem with a spectral parameter in the boundary condition, *Journal of Mathematical Analysis and Applications*, vol. 316, no. 2, 510–524 (2006) (SCI-Expanded)
33. M. YAKIT ONGUN and **B. P. ALLAHVERDIEV**, A completeness theorem for a dissipative Schrödinger problem with the spectral parameter in the boundary

- condition, *Mathematische Nachrichten*, vol. 281, no. 4, 1–14 (2008) (SCI-Expanded)
34. **B. P. ALLAHVERDIEV**, Nonselfadjoint singular Sturm–Liouville operators in limit circle case, *Taiwanese Journal of Mathematics*, vol. 16, no. 6, 2035–2052 (2012) (SCI-Expanded)
 35. İ. ÇANAK, Ü. TOTUR and **B. P. ALLAHVERDIEV**, Tauberian conditions with controlled oscillatory behavior. *Applied Mathematics Letters*, vol. 25, No. 3, 252–256 (2012) (SCI-Expanded)
 36. **B. P. ALLAHVERDIEV**, A nonself adjoint 1D singular Hamiltonian system with an eigenparameter in the boundary condition, *Potential Analysis*, vol. 38, no. 4, 1031–1045 (2013) (SCI-Expanded)
 37. E. UĞURLU and **B. P. ALLAHVERDIEV**, On selfadjoint dilation of the dissipative extension of a direct sum differential operator, *Banach Journal of Mathematical Analysis*, vol. 7, no. 2, 194–207 (2013) (SCI-Expanded)
 38. **B. P. ALLAHVERDIEV**, Extensions and spectral problems of 1D discrete Hamiltonian systems, *Mathematical Methods in the Applied Sciences*, vol. 36, no. 18, 2554–2563 (2013) (SCI-Expanded)
 39. **B. P. ALLAHVERDIEV**, E. BAİRAMOV, and E. UĞURLU, Eigenparameter dependent Sturm–Liouville problems in boundary conditions with transmission conditions, *Journal of Mathematical Analysis and Applications*, vol. 401, no. 1, 388–396 (2013) (SCI-Expanded)
 40. **B. P. ALLAHVERDIEV**, Extensions of symmetric second order difference operators with matrix coefficients, *Journal of Difference Equations and Applications*, vol. 19, no. 5, 839–849 (2013) (SCI-Expanded)
 41. **B. P. ALLAHVERDIEV**, Spectral problems of nonselfadjoint 1D singular Hamiltonian systems, *Taiwanese Journal of Mathematics*, vol. 17, no. 5, 1487–1502 (2013) (SCI-Expanded)
 42. **B. P. ALLAHVERDIEV**, Dilations, models, scattering and spectral problems of 1D discrete Hamiltonian systems, *Bulletin of the Iranian Mathematical Society*, vol. 40, no. 6, 1553–1571 (2014) (SCI-Expanded)
 43. **B. P. ALLAHVERDIEV**, Eigenvalue problems for a non-self-adjoint Bessel type operators in limit-point case, *Mathematical Methods in the Applied Sciences*, vol. 37, no. 18, 2946–2951 (2014) (SCI-Expanded)
 44. **B. P. ALLAHVERDIEV**, Extensions of symmetric infinite Jacobi operator, *Linear and Multilinear Algebra*, vol. 62, no. 9, 1146–1152 (2014) (SCI-Expanded)
 45. **B. P. ALLAHVERDIEV**, Spectral problems of Jacobi operators in limit-circle case, *Mathematical Reports*, vol. 17, no. 1, 81–89 (2015) (SCI-Expanded)
 46. **B. P. ALLAHVERDIEV** and E. UĞURLU, On dilation, scattering and spectral theory for two interval singular differential operators, *Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie*, vol. 58, no. 4, 383–392 (2015) (SCI-Expanded)
 47. Y. ERDEM, İ. ÇANAK and **B. P. ALLAHVERDIEV**, Two theorems on the product of Abel and Cesàro summability methods, *Comptes Rendus de*

- L'Académie Bulgare des Sciences, vol. 68, no. 3, 287–294 (2015) (SCI-Expanded)
48. **B. P. ALLAHVERDIEV**, Non-self-adjoint Bessel and Sturm–Liouville boundary value problems in limit circle case, *Mathematical Methods in the Applied Sciences*, vol. 38, no. 7, 1271–1281 (2015) (SCI-Expanded)
 49. **B. P. ALLAHVERDIEV** and E. UĞURLU, Spectral analysis of the direct sum Hamiltonian operators, *Quaestiones Mathematicae*, vol. 39, no. 6, 733–750 (2016) (SCI-Expanded)
 50. **B. P. ALLAHVERDIEV**, Spectral problems of nonself adjoint singular discrete Sturm–Liouville operators, *Mathematica Slovaca*, vol. 66, no. 4, 967–978 (2016) (SCI-Expanded)
 51. **B. P. ALLAHVERDIEV**, Extensions of symmetric singular second-order dynamic operators on time scales, *Filomat*, vol. 30, no. 6, 1475–1484 (2016) (SCI-Expanded)
 52. **B. P. ALLAHVERDIEV**, Spectral problems of non self adjoint q -Sturm–Liouville operators in limit point case, *Kodai Mathematical Journal*, vol. 39, no. 1, 1–15 (2016) (SCI-Expanded)
 53. **B. P. ALLAHVERDIEV** and H. TUNA, One dimensional q -Dirac equation, *Mathematical Methods in the Applied Sciences*, vol. 40, no. 18, 7287–7306 (2017) (SCI-Expanded)
 54. **B. P. ALLAHVERDIEV** and H. TUNA, Spectral analysis of q -fractional Sturm–Liouville operators, *Electronic Journal of Differential Equations*, vol. 2017, no. 136, 1–17 (2017) (SCI-Expanded)
 55. **B. P. ALLAHVERDIEV** and E. UĞURLU, Scattering and spectral problems of the direct sum Sturm–Liouville operators, *Appl. Comput. Math.* vol. 16, no. 3, 257–268 (2017) (SCI-Expanded)
 56. A. H. SOFIYEV, Z. ZERIN, **B. P. ALLAHVERDIEV**, D. HUI, F. TURAN and H. ERDEM, The dynamic instability of FG orthotropic conical shells within the SDT, *Steel and Composite Structures*, vol. 25, no. 5, 581–591 (2017) (SCI-Expanded)
 57. **B. P. ALLAHVERDIEV**, A. ERYILMAZ, and H. TUNA, Dissipative Sturm–Liouville operators with a spectral parameter in the boundary condition on bounded time scales, *Electronic Journal of Differential Equations*, vol. 2017, no. 95, 1–13 (2017) (SCI-Expanded)
 58. **B. P. ALLAHVERDIEV**, Extensions, dilations and spectral analysis of singular Sturm–Liouville operators, *Mathematical Reports*, vol. 19, no. 2, 225–243 (2017) (SCI-Expanded)
 59. **B. P. ALLAHVERDIEV** and H. TUNA, Dissipative q -Dirac operator with general boundary conditions, *Quaestiones Mathematicae*, vol. 41, no. 2, 239–255 (2018) (SCI-Expanded)
 60. **B. P. ALLAHVERDIEV** and H. TUNA, An expansion theorem for q -Sturm–Liouville operators on the whole line, *Turkish Journal of Mathematics*, vol. 42, no. 3, 1060–1071 (2018) (SCI-Expanded)

61. A. ZEYTİNOĞLU, M. SARI, and **B. P. ALLAHVERDIEV**, Numerical simulations of shock wave propagating by a hybrid approximation based on high order finite difference schemes, *Acta Physica Polonica A*, vol. 133, no. 1, 140–151 (2018) (SCI-Expanded)
62. **B. P. ALLAHVERDIEV**, Extensions, dilations and spectral problems of singular Hamiltonian systems, *Mathematical Methods in the Applied Sciences*, vol. 41, no. 5, 1761–1773 (2018) (SCI-Expanded)
63. **B. P. ALLAHVERDIEV** and H. TUNA, Spectral expansion for the singular Dirac system with impulsive conditions, *Turkish Journal of Mathematics*, vol. 42, no. 5, 2527–2545 (2018) (SCI-Expanded)
64. **B. P. ALLAHVERDIEV** and H. TUNA, Titchmarsh–Weyl theory for Dirac systems with transmission conditions, *Mediterranean Journal of Mathematics*, vol. 15, no. 151, 1–12 (2018) (SCI-Expanded)
65. A. ZEYTİNOĞLU, M. SARI and **B. P. ALLAHVERDIEV**, A hybrid approach for the regularized long wave Burgers equation, *An International Journal of Optimization and Control: Theories Applications*, vol. 8, no. 1, 8–16 (2018) (Scopus)
66. H. TUNA and **B. P. ALLAHVERDIEV**, Dissipative Extensions of Fourth Order Differential Operators, *Thai Journal of Mathematics*, vol. 16, no. 1, 275–285 (2018) (Scopus)
67. **B. P. ALLAHVERDIEV**, H. TUNA, and Y. YALÇINKAYA, Conformable fractional Sturm–Liouville equation, *Mathematical Methods in the Applied Sciences*, vol. 42, no. 10, 3508–3526 (2019) (SCI-Expanded)
68. **B. P. ALLAHVERDIEV** and H. TUNA, On expansion in eigenfunction for q -Dirac systems on the whole line, *Mathematical Reports*, vol. 21, no. 3, 369–382 (2019) (SCI-Expanded)
69. **B. P. ALLAHVERDIEV**, Functional model and spectral analysis of discrete singular Hamiltonian system, *Taiwanese Journal of Mathematics*, vol. 23, no. 3, 653–673 (2019) (SCI-Expanded)
70. **B. P. ALLAHVERDIEV**, Non-self-adjoint singular second order dynamic operatorson time scale, *Mathematical Methods in the Applied Sciences*, vol. 42, no. 1, 229–236 (2019) (SCI-Expanded)
71. **B. P. ALLAHVERDIEV** and H. TUNA, The spectral expansion for the Hahn–Dirac system on the whole line, *Turkish Journal of Mathematics*, vol. 43, no. 3, 1668–1687 (2019) (SCI-Expanded)
72. **B. P. ALLAHVERDIEV** and H. TUNA, Limit-point criteria for q -Sturm–Liouville equations, *Quaestiones Mathematicae*, vol. 42, no. 10, 1291–1299 (2019) (SCI-Expanded)
73. **B. P. ALLAHVERDIEV** and H. TUNA, Titchmarsh–Weyl theory for q -Dirac systems, *Infinite Dimensional Analysis, Quantum Probability and Related Topics*, vol. 22, no. 2, 1–14 (2019) (SCI-Expanded)
74. **B. P. ALLAHVERDIEV**, Spectral analysis of singular matrix-valued Sturm–Liouville operators, *Mediterranean Journal of Mathematics*, vol. 16, no. 83, 1–20 (2019) (SCI-Expanded)

75. **B. P. ALLAHVERDIEV**, Spectral analysis of singular Hamiltonian systems with an eigenparameter in the boundary condition, *Electronic Journal of Differential Equations*, vol. 2019, no. 2, 1–14 (2019) (SCI-Expanded)
76. **B. P. ALLAHVERDIEV** and H. TUNA, Indices defect theory of singular Hahn–Sturm–Liouville operators, *Journal of Applied Analysis and Computation*, vol. 9, no. 5, 1719–1730 (2019) (SCI-Expanded)
77. **B. P. ALLAHVERDIEV** and H. TUNA, Eigenfunction expansion for singular Sturm–Liouville problems with transmission conditions, *Electronic Journal of Differential Equations*, vol. 2019, no. 3, 1–10 (2019) (SCI-Expanded)
78. **B. P. ALLAHVERDIEV** and H. TUNA, Nonlinear singular Sturm–Liouville problems with impulsive conditions, *Facta Univ. Ser. Math. Inf.* vol. 34, no. 3, 439–457 (2019) (ESCI)
79. **B. P. ALLAHVERDIEV** and H. TUNA, Resolvent operator of singular Dirac system with transmission conditions, *Rad Hrvatske Akademije Znanosti i Umjetnosti. Matematičke Znanosti*, vol. 23, 85–105 (2019) (ESCI)
80. **B. P. ALLAHVERDIEV** and H. TUNA, Some properties of the resolvent of Sturm–Liouville operators on unbounded time scales, *Mathematica*, vol. 6184, no. 1, 3–21 (2019) (Scopus)
81. **B. P. ALLAHVERDIEV** and H. TUNA, A spectral theory for discontinuous Sturm–Liouville problems on the whole line, *Le Matematiche*, vol. 74, no. 2, 235–251 (2019) (ESCI).
82. **B. P. ALLAHVERDIEV** and H. TUNA, Qualitative spectral analysis of singular q -Sturm–Liouville operators, *Bulletin of the Malaysian Mathematical Sciences Society*, vol. 43, no. 2, 1391–1402 (2020) (SCI-Expanded)
83. **B. P. ALLAHVERDIEV** and H. TUNA, A Representation of the resolvent operator of singular Hahn–Sturm–Liouville problem, *Numerical Functional Analysis and Optimization*, vol. 41, no. 4, 413–431 (2020) (SCI-Expanded)
84. **B. P. ALLAHVERDIEV** and H. TUNA, Dissipative Dirac operator with general boundary conditions on time scales, *Ukrainian Mathematical Journal*, vol. 72, no. 5, 670–689 (2020) (SCI-Expanded)
85. **B. P. ALLAHVERDIEV**, H. TUNA, and Y. YALÇINKAYA, Spectral expansion for singular conformable Sturm–Liouville problem, *Mathematical Communications*, vol. 25, 237–252 (2020) (SCI-Expanded)
86. **B. P. ALLAHVERDIEV** and H. TUNA, On the resolvent of singular Sturm–Liouville operators with transmission conditions, *Mathematical Methods in the Applied Sciences*, vol. 43, 4286–4302 (2020) (SCI-Expanded)
87. **B. P. ALLAHVERDIEV** and H. TUNA, q -Hamiltonian systems, *Turkish Journal of Mathematics*, vol. 44, no. 6, 2241–2258 (2020) (SCI-Expanded)
88. **B. P. ALLAHVERDIEV** and H. TUNA, Properties of the resolvent of singular q -Dirac operators, *Electronic Journal of Differential Equations*, vol. 2020, no. 3, 1–13 (2020) (SCI-Expanded)
89. **B. P. ALLAHVERDIEV** and H. TUNA, Spectral theory of singular Hahn difference equation of the Sturm–Liouville type, *Communications in Mathematics*, vol. 28, 13–25 (2020) (Scopus)

90. **B. P. ALLAHVERDIEV** and H. TUNA, Existence of solutions for nonlinear singular q -Sturm–Liouville problems, *Ufa Mathematical Journal*, vol. 12, no. 1, 91–102 (2020) (ESCI)
91. **B. P. ALLAHVERDIEV** and H. TUNA, Investigation of the spectrum of singular Sturm–Liouville operators on unbounded time scales, *São Paulo Journal of Mathematical Sciences*, vol. 14, 327–340 (2020) (ESCI)
92. **B. P. ALLAHVERDIEV** and H. TUNA, Dissipative q -Dirac operator, *Palestine Journal of Mathematics*, vol. 9, no. 1, 200–211 (2020) (Scopus)
93. **B. P. ALLAHVERDIEV** and H. TUNA, q -fractional Dirac type systems, *Rad Hrvat. Akad. Znan. Umjet. Mat. Znan.* vol. 24, 117–130 (2020) (ESCI)
94. **B. P. ALLAHVERDIEV** and H. TUNA, One dimensional conformable fractional Dirac system, *Bol. Soc. Mat. Mex.* vol. 26, no. 1, 121–146 (2020) (ESCI)
95. **B. P. ALLAHVERDIEV** and H. TUNA, Spectral expansion for singular conformable fractional Dirac systems, *Rendiconti del Circolo Matematico di Palermo Series 2*, vol. 69, 1359–1372 (2020) (ESCI)
96. **B. P. ALLAHVERDIEV** and H. TUNA, Extensions of the matrix-valued q -Sturm–Liouville operators, *Turkish Journal of Mathematics*, vol. 45, no. 3, 1479–1494 (2021) (SCI-Expanded)
97. **B. P. ALLAHVERDIEV**, Dilations, models and spectral problems of non-self-adjoint Sturm–Liouville operators, *Miskolc Mathematical Notes*, vol. 22, no.1, 17–32 (2021) (SCI-Expanded)
98. **B. P. ALLAHVERDIEV** and H. TUNA, Regular fractional Dirac type systems, *Facta Univ. Ser. Math. Inform.*, vol. 36, no. 3, 489–499 (2021) (ESCI)
99. **B. P. ALLAHVERDIEV** and H. TUNA, On the resolvent of singular q -Sturm–Liouville operators, *Commun. Fac. Sci. Univ. Ank. Ser. A1. Math. Stat.*, vol. 70., no. 2, 702–718 (2021) (ESCI)
100. **B. P. ALLAHVERDIEV** and H. TUNA, Spectral analysis of Hahn–Dirac system, *Proyecciones Journal of Mathematics*, vol. 40, no. 6, 1547–1567 (2021) (Scopus)
101. **B. P. ALLAHVERDIEV** and H. TUNA, Titchmarsh–Weyl theory of the singular Hahn–Sturm–Liouville equation, *Vladikavkaz Mathematical Journal*, vol. 23, no. 3, 16–26 (2021) (Scopus)
102. **B. P. ALLAHVERDIEV** and H. TUNA, Discontinuous linear Hamiltonian systems, *Filomat*, vol. 36, no. 3, 813–827 (2022) (SCI-Expanded)
103. **B. P. ALLAHVERDIEV** and H. TUNA, Conformable fractional Sturm–Liouville problems on time scales, *Mathematical Methods in the Applied Sciences*, vol. 45, 2299–2314 (2022) (SCI-Expanded)
104. **B. P. ALLAHVERDIEV**, H. TUNA and Y. YALÇINKAYA, A completeness theorem for dissipative conformable fractional Sturm–Liouville operator in singular case, *Filomat*, vol. 36, no. 7, 2461–2474 (2022) (SCI-Expanded)
105. **B. P. ALLAHVERDIEV** and H. TUNA, Singular discontinuous Hamiltonian systems, *Journal of Applied Analysis and Computation*, vol. 12, no. 4, 1386–1402 (2022) (SCI-Expanded)

106. **B. P. ALLAHVERDIEV**, Spectral problems of dissipative singular q -Sturm–Liouville operators in limit-circle case, *Filomat*, vol. 36, no. 9, 2891–2902 (2022) (SCI-Expanded)
107. **B. P. ALLAHVERDIEV**, Dilation, model, scattering and spectral problems of second-order matrix difference operator, *Filomat*, vol. 36, no. 12, 3957–3969 (2022) (SCI-Expanded)
108. **B. P. ALLAHVERDIEV** and H. TUNA, On expansion in eigenfunction for Dirac systems on the unbounded time scales, *Differential Equations and Dynamical Systems*, vol. 30, no. 2, 271–285 (2022) (ESCI)
109. **B. P. ALLAHVERDIEV** and H. TUNA, On the spectrum of singular Hahn–Sturm–Liouville operators, *Advanced Studies: Euro-Tbilisi Mathematical Journal*, vol. 15, no. 3, 75–90 (2022) (ESCI)
110. **B. P. ALLAHVERDIEV** and H. TUNA, Impulsive Sturm–Liouville problems on time scales, *Facta Univ., Ser. Math. Inf.*, vol. 37, no. 3, 651–666 (2022) (ESCI)
111. **B. P. ALLAHVERDIEV** and H. TUNA, Hahn multiplicative calculus, *Le Matematiche*, vol. 77, no. 2, 389–405 (2022) (ESCI)
112. **B. P. ALLAHVERDIEV** and H. TUNA, Discontinuous matrix Sturm–Liouville problems, *Eurasian Mathematical Journal*, vol. 13, no. 3, 8–22 (2022) (ESCI)
113. **B. P. ALLAHVERDIEV** and H. TUNA, Singular Hahn–Hamiltonian systems, *Ufa Mathematical Journal*, vol. 14, no. 4, 3–16 (2022) (ESCI)
114. **B. P. ALLAHVERDIEV** and H. TUNA, Spectral expansion for discontinuous Dirac systems, *Honam Mathematical Journal*, vol. 44, no. 4, 485–503 (2022) (ESCI)
115. **B. P. ALLAHVERDIEV** and H. TUNA, Hahn–Hamiltonian systems, *Turkish Journal of Mathematics*, vol. 47, no. 1, 317–332 (2023) (SCI-Expanded)
116. **B. P. ALLAHVERDIEV** and H. TUNA, On square integrable solutions of a Hahn–Dirac system, *Rendiconti del Circolo Matematico di Palermo Series 2*, vol. 72, no.1, 9–20 (2023) (ESCI)
117. **B. P. ALLAHVERDIEV** and H. TUNA, On the resolvent operator of dynamic Dirac operators, *Advances in Mathematical Sciences and Applications*, vol. 32, no. 1, 1–16 (2023) (ESCI)
118. **B. P. ALLAHVERDIEV** and H. TUNA, Singular conformable fractional Dirac system, *Palestine Journal of Mathematics*, vol. 32, no. 1, 1–16 (2023) (Scopus)
119. **B. P. ALLAHVERDIEV** and H. TUNA, Conformable fractional Dirac system on time scales, *Annali dell'Università di Ferrara*, vol. 69, no. 1, 203–218 (2023) (Scopus)
120. **B. P. ALLAHVERDIEV** and H. TUNA, β -Dirac systems, *Filomat*, vol. 37, no. 23, 7839–7848 (2023) (SCI-Expanded)
121. **B. P. ALLAHVERDIEV** and H. TUNA, Impulsive Dirac system on time scales, *Ukrainian Mathematical Journal*, vol. 75, no. 6, 827–841 (2023) (SCI-Expanded)

122. H. A. ISAYEV and **B. P. ALLAHVERDIEV**, Self-adjoint and non-self-adjoint extensions of symmetric q -Sturm–Liouville operator, *Filomat*, vol. 37, no. 24, 8057–8066 (2023) (SCI-Expanded)
123. **B. P. ALLAHVERDIEV**, H. TUNA and H. A. ISAYEV, Existence results for impulsive dynamic singular nonlinear Sturm–Liouville equations on infinite intervals, *Turkish Journal of Mathematics*, vol. 47, no. 5, 1761–1777 (2023) (SCI-Expanded)
124. **B. P. ALLAHVERDIEV**, H. TUNA and H. A. ISAYEV, Impulsive regular q -Dirac systems, *Electronic Journal of Differential Equations*, vol. 2023, no. 74, 1–10 (2023) (SCI-Expanded)
125. **B. P. ALLAHVERDIEV** and H. TUNA, Titchmarsh–Weyl theory for impulsive dynamic Dirac system, *Qualitative Theory of Dynamical Systems*, vol. 22, no. 148, 1–10 (2023) (SCI-Expanded)
126. **B. P. ALLAHVERDIEV**, H. TUNA and H. A. ISAYEV, Fractional Dirac system with impulsive conditions, *Chaos, Solitons and Fractals*, vol. 176, 114099, 1–5 (2023) (SCI-Expanded)
127. **B. P. ALLAHVERDIEV**, H. TUNA and Y. YALÇINKAYA, Spectral expansion for conformable fractional Sturm–Liouville problem on the whole line, *Kragujevac Journal of Mathematics*, vol. 48, no.6, 811–826 (2024) (ESCI)
128. **B. P. ALLAHVERDIEV** and H. TUNA, Existence problem for impulsive nonlinear Sturm–Liouville problems on the whole line, *Iranian Journal of Mathematical Sciences and Informatics* (in press) (ESCI)
129. **B. P. ALLAHVERDIEV** and H. TUNA, Nonlinear fourth-order dynamic equations on unbounded time scales, *Mathematica* (in press) (Scopus)
130. **B. P. ALLAHVERDIEV** and H. TUNA, Existence theorem for a fractal Sturm–Liouville problem, *Vladikavkaz Mathematical Journal* (in press) (Scopus)

5.2. Digər beynəlxalq resenziyalı jurnallarda dərc olunmuş məqalələr

1. G. A. ISAEV and **B. P. ALLAKHVERDIEV**, Oscillation theorems for multiparameter spectral problems connected with second-order differential equations, (Russian), *Spektr. Teor. Oper.* vol. 3, 202–221 (1980).
2. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, Multiple expansion according to generalized eigen- and adjoint vectors of a certain class of operator function involving a continuous spectrum, (Russian), *Dokl. Akad. Nauk Az. SSR* vol. 36, no.11, 12–16 (1980).
3. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, Analytic continuation across the continuous spectrum of the resolvent of perturbed operator functions, (Russian) *Dokl. Akad. Nauk Az. SSR*, vol. 37, No.1, 19–22 (1981).
4. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, Some questions of spectral theory of non self-adjoint operator-functions in the presence of the continuous spectrum, (Russian), *Spektr. Teor. Oper.* vol. 4, 119–147 (1982).

5. **B. P. ALLAKHVERDIEV**, Multiple expansion in generalized and associated vectors of operator-functions with a continuous part of the spectrum. (Russian), Dokl. Akad. Nauk Az. SSR, vol. 38, no.1, 3–7 (1982).
6. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, Determination of the principal part of the resolvent for a class of non self-adjoint operator-functions in a neighbourhood of spectral singularities, (Russian), Spektr. Teor. Oper. vol. 5, 94–121 (1984).
7. **B. P. ALLAKHVERDIEV**, On the spectral theory of rational operator pencils in the presence of the continuous spectrum. (Russian), Spektr. Teor. Oper. Prilozh. vol. 7, 3–13 (1986).
8. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, Spectral analysis of polynomial operator pencils with continuously pointwise spectrum, (Russian, English summary), Dokl., Akad. Nauk Az. SSR, vol. 43, no.1, 3–7 (1987).
9. **B. P. ALLAKHVERDIEV**, On the completeness of eigenfunctions of a dissipative Schrödinger operator and resonance states in a scattering problem of one-dimensional plane waves. (Russian, English summary), Izv. Akad. Nauk Az. SSR, Ser. Fiz.-Tekh. Mat. Nauk, vol. 8, no.5, 3–7 (1987).
10. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, Theory of a characteristic function and spectral analysis of dissipative Schrödinger operator, (Russian), Funct. Numer. Meth. Mah. Phys. vol. 269, 131–134 (1988).
11. **B. P. ALLAKHVERDIEV**, A dissipative operator of the Schrödinger type with a matrix potential. (Russian), Spektr. Teor. Oper. Prilozh., vol. 9, 11–41 (1989).
12. **B. P. ALLAKHVERDIEV** and E. M. BAIRAMOV, Completeness of the eigenvectors and adjoint vectors of a nonselfadjoint second order difference operator, (Russian), Spektr. Teor. Oper. Prilozh. vol. 9, 42–49 (1989).
13. **B. P. ALLAKHVERDIEV**, On the spectral theory of the non-selfadjoint Schrödinger operator on the whole axis, (Russian), Spektr. Teor. Oper. Prilozh. Vol. 10, 3–25 (1991).
14. **B. P. ALLAKHVERDIEV** and E. M. BAIRAMOV, On the spectral theory of a system of non self-adjoint difference operators of first order, (Russian. English summary), Izv. Akad. Nauk Az. SSR, Ser. Fiz.-Tekh. Mat. Nauk, vol. 10, no.1, 21–25 (1989).
15. F. G. MAKSUDOV, **B. P. ALLAKHVERDIEV** and E. M. BAIRAMOV, On the spectral theory of nonselfadjoint operators generated by an infinite Jacobi matrix with matrix elements, Doğa-Turkish Journal of Mathematics vol. 17, no.2, 179–194 (1993).
16. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, Spectral analysis of nonselfadjoint operator-valued function with a continuous spectrum and point spectrum, Bull. Techn. Univ. Istanbul, vol. 49, no.3-4, 203–215 (1996).
17. A. CANOGLU and **B. P. ALLAKHVERDIEV**, Extensions of a symmetric second-order differential operator, Math. Balkanica (N.S.), vol. 12, No.3-4, 271–275 (1998).

18. A. CANOGLU and **B. P. ALLAHVERDIEV**, Selfadjoint and dissipative extensions of a symmetric Schrödinger operator, *Mathematica Balkanica, New Series*, vol. 17, no. 1, 113–120 (2003).
19. A. ERYILMAZ and **B. P. ALLAHVERDIEV**, The eigenvalues and eigenvectors of a dissipative second-order difference operator with a spectral parameter in the boundary conditions, *Selçuk J. Appl. Math.* vol. 10, no. 2, 3–13 (2009).
20. A. ERYILMAZ ve **B. PAŞAOĞLU**, Sturm–Liouville fark operatörünün spektral özellikleri, *Erzincan Üniversitesi - Fen Bilimleri Enstitüsü Dergisi*, Cilt 4, Sayı 2, 113–124 (2011).
21. A. ERYILMAZ and **B. P. ALLAHVERDIEV**, Boundary-value problems for second-order difference equations with a spectral parameter in the boundary conditions, *International Journal of Research and Reviews in Applied Sciences*, vol. 11, no. 2, 220–234 (2012).
22. T. SARIŞAHİN, Y. KESKİN and **B. P. ALLAHVERDIEV**, A Meshless Method of Lines Using Lagrange Interpolation Polynomials for Solving the Coupled Nonlinear Sine-Gordon Equations, *International Journal of Contemporary Mathematical Sciences*, vol. 11, no. 3, 139 – 154 (2016).
23. **B. P. ALLAHVERDIEV** and H. TUNA, Spectral analysis of singular Sturm–Liouville operators on time scales, *Annales Universitatis Mariae Curie-Skłodowska, sectio A–Mathematica*, vol. 72, no. 1, 1–11 (2018).
24. **B. P. ALLAHVERDIEV** and H. TUNA, Eigenfunction expansion in the singular case for Dirac systems on time scales, *Konuralp Journal of Mathematics*, vol. 7, no. 1, 128–135 (2019).
25. **B. P. ALLAHVERDIEV** and H. TUNA, The resolvent operator of singular conformable fractional Dirac system, *Gulf Journal of Mathematics*, vol. 7, no. 3, 7–25 (2019).
26. **B. P. ALLAHVERDIEV** and H. TUNA, Eigenfunction expansion in the singular case for q-Sturm–Liouville operators, *Caspian Journal of Mathematical Science*, vol. 8, no. 2, 91–102 (2019).
27. **B. P. ALLAHVERDIEV**, H. TUNA, On the Bari basis properties of the root functions of non-self adjoint q-Sturm-Liouville problems, *Uzbek Mathematical Journal*, no. 4, 11-21 (2020).
28. **B. P. ALLAHVERDIEV**, H. TUNA and Y. YALÇINKAYA, On the dissipative extensions of the conformable fractiona Sturm–Liouville operator, *Turkish Journal of Mathematics and Computer Science*, vol. 13, no. 1, 1–5 (2021).
29. **B. P. ALLAHVERDIEV**, H. TUNA and Y. YALÇINKAYA, Limit-point classification for singular conformable fractional Sturm–Liouville operators, *Turkish Journal of Mathematics and Computer Science*, vol. 13, no. 1, 19–24 (2021).
30. **B. P. ALLAHVERDIEV** and H. TUNA, Uniform convergence of generalized Fourier series of Hahn–Sturm–Liouville problem, *Konuralp Journal of Mathematics*, vol. 9, no. 2, 250–259 (2021).

31. **B. P. ALLAHVERDIEV** and H. TUNA, A spectral expansion for Hahn–Sturm–Liouville equation on the whole line, *Folia Mathematica*, vol. 23, no. 1, 3–19 (2021).
32. **B. P. ALLAHVERDIEV** and H. TUNA, One dimensional Dirac operators on time scales, *Caspian Journal of Mathematical Sciences*, vol.10, no. 2, 195–209 (2021).
33. **B. P. ALLAHVERDIEV** and H. TUNA, On extensions of matrix-valued Hahn–Sturm–Liouville operators, *Annales Universitatis Mariae Curie-Sklodowska, sectio A–Mathematica*, vol. 75, no. 2, 1–12 (2021).
34. **B. P. ALLAHVERDIEV** and H. TUNA, Nonlinear Hahn–Sturm–Liouville problems on infinite intervals, *Uzbek Mathematical Journal*, vol. 66, no. 2, 10–21 (2022).
35. **B. P. ALLAHVERDIEV** and H. TUNA, Nonlinear singular Hahn–Sturm–Liouville problems on $[\omega_0, \infty)$, *Gulf Journal of Mathematics*, vol. 14, no. 1, 1–12 (2023).
36. **B. P. ALLAHVERDIEV** and H. TUNA, On the solutions for a nonlinear singular q -Sturm–Liouville problems on the whole axis, *Southeast Asian Bulletin of Mathematics*, vol. 47, no. 2, 151–164 (2023).
37. **B. P. ALLAHVERDIEV** and H. TUNA, q -multiplicative Dirac system, *Konuralp Journal of Mathematics*, vol. 11, no. 1, 61–69 (2023).
38. **B. P. ALLAHVERDIEV**, H. TUNA and Y. YALÇINKAYA, On the solution of conformable fractional heat conduction equation, *Caspian Journal of Mathematical Science* (in press)

5.3. Beynəlxalq elmi konfranslarda təqdim olunmuş və elmi məqalələr kitabında çap olunmuş məruzələr

1. H. TUNA and **B. P. ALLAHVERDIEV**, Basis properties of the root functions of non self adjoint q -Sturm–Liouville problems, Presented at the International Workshop on Mathematical Methods in Engineering, Ankara (2017).
2. **B. P. ALLAHVERDIEV**, Dissipative singular matrix Sturm–Liouville operators with general boundary conditions, Presented at the International Workshop on Mathematical Methods in Engineering, Ankara (2017).
3. H. TUNA and **B. P. ALLAHVERDIEV**, Spectral analysis of q fractional Sturm–Liouville Operators, Presented at the International Workshop on Mathematical Methods in Engineering, Ankara (2017).
4. A. AVEY and **B. PAŞAOĞLU**, On the solution of the eigenvalue problem of shear deformable functionally graded shells, Presented at the VII Intern. Joint Confer. Georgian Math. Union and Mech. Union; Contin. Mech. and Related Probl. Analysis, Batumi (2016).
5. H. TUNA and **B. P. ALLAHVERDIEV**, Non-self-adjoint Sturm–Liouville operators with a spectral parameter in the boundary condition on time scales, presented at the International Workshop on Mathematical Methods in Engineering, Ankara (2017).

6. **B. P. ALLAHVERDIEV**, Spectral problems of singular Hamiltonian system with an eigenparameter in the boundary condition, Presented at the International Workshop on Mathematical Methods in Engineering, Ankara (2017).
7. **B. PAŞAOĞLU**, Spectral problems of singular Sturm–Liouville boundary value transmission problem in limit-point case, Presented at the VII Intern. Joint Confer. Georgian Math. Union and Mech. Union; Contin. Mech. and Related Probl. Analysis, Batumi (2016).
8. E. UĞURLU and **B. P. ALLAHVERDIEV**, On the dissipative extensions of a direct sum differential operator, Presented at the International Workshop on Mathematical methods in Engineering, Ankara (2017).
9. I. AÇIK DEMİRCİ and **B. P. ALLAHVERDIEV**, Eigenparameter dependent nonself adjoint Dirac operators with transmission condition, Presented at the Intern. Congress on Fundamental and Applied Sciences, Istanbul (2016).
10. **B. P. ALLAHVERDIEV**, Dilation, functional model and spectral problems of discrete singular Hamiltonian system, presented at the VII Intern. Joint Confer. Georgian Math. Union and Mech. Union; Contin. Mech. and Related Probl. Analysis, Batumi (2016).
11. **B. P. ALLAHVERDIEV**, On the spectral theory of nonselfadjoint Schrödinger operators. Int. Conf. on Math. Model and Sci. Computing, p.3, Ankara (2001).
12. **B. P. ALLAHVERDIEV**, Extensions of a symmetric singular Sturm–Liouville operators, Third International Conference "Tolls for Mathematical Modelling"-St.-Petersburg, Russia (2001).
13. **B. P. ALLAHVERDIEV**, On factorization of a class of inner functions. (Russian), Proc All-Union School-Conf. on Modern Problems of Functions Theory, pp.11-12, Baku (1989).
14. **B. P. ALLAHVERDIEV**, On selfadjoint and dissipative extensions of a symmetric operator generated by an infinite Jacobi matrix. (Russian), Proc. Fifteenth All-Union School on Operator Theory in Functional Spaces, part 1, p.10, Ulyanovsk, Russia (1990).
15. **B. P. ALLAHVERDIEV**, On extensions of second order difference symmetric operator. (English), The 2-nd Turkish-Azerbaijan Mathematics Symposium, p.17, Baku (1992).
16. **B. P. ALLAHVERDIEV**, On the spectral theory of nonselfadjoint Schrödinger operator. (English), The 3-d Turkish-Azerbaijan Mathematics Symposium, p.28, Trabzon (1993).
17. I. AÇIK DEMİRCİ and **B. P. ALLAHVERDIEV**, A non selfadjoint Dirac operators with a spectral parameter in the boundary condition and with transmission condition, presented at the 3rd Intern. Conference on Recent Advances in Pure and Appl. Math., Izmir (2016).
18. **B. P. ALLAHVERDIEV** and E. UĞURLU, Scattering theory and spectral Analysis of the direct sum Sturm–Liouville operators, Presented at the International Workshop on Mathematical Methods in Engineering, Ankara (2017).

5.4. Beynəlxalq kitablar və ya yazılmış kitablardakı fəsilər

1. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, Multiple expansion in generalized eigenvectors and associated vectors of a class of operator-valued functions in the presence of a continuous spectrum. Fifteen Papers on Functional Analysis, Transl. II. Ser., Amer. Math. Soc. vol. 124 (1984), 143–147
2. **B. P. ALLAHVERDIEV** and H. TUNA. The Parseval equality and expansion formula for singular Hahn–Dirac system. Emerging Applications of Differential Equations and Game Theory. IGI Global (2020), 209–235 (Scopus).
3. **B. P. ALLAHVERDIEV**, H. TUNA and Y. YALÇINKAYA, Remarks on the limit-circle classification of conformable fractional Sturm–Liouville operators, Lecture Notes on Data Engineering and Communications Technologies, vol. 76, (2021), 10–14 (Scopus).

5.5. Respublika elmi konfranslarında təqdim olunmuş və elmi məqalələr kitabında çap olunmuş məruzələr

1. **B. P. ALLAKHVERDIEV** and N. N. MAMEDOV, On spectral theory of a boundary problem with a spectral parameter in the boundary condition, Proc. Tenth. Republ. Math. Mech. Conf. Young Scientists, pp.37–38, Baku (1991).
2. **B. P. ALLAHVERDIEV** and B. TÜREN, Nonselfadjoint operators generated by an infinite Jacobi matrix, XV. Ulusal Matematik Sempozyumu, p.19, Mersin (2002).
3. **B. P. ALLAHVERDIEV**, G. AYDIN and A. CANOĞLU, The spectral analysis nonselfadjoint Schrödinger operator and the integro-differential operator, IX. Ulusal Matematik Sempozyumu, p.7, İstanbul (1996).
4. **B. P. ALLAHVERDIEV**, G. AYDIN and A. CANOĞLU, Spectral analysis of dissipative Schrödinger operator, IX. Ulusal Matematik Sempozyumu, p.11, İstanbul (1996).
5. **B. P. ALLAKHVERDIEV** and A. A. DARVISH, On spectral analysis of nonselfadjoint Schrödinger operator, Proc. Eight Republ. Math. Mech. Conf. Young Scientists, pp. 116–119, Baku (1989).
6. **B. P. ALLAKHVERDIEV**, On the resolvent principal part of class of nonselfadjoint operator valued function in a neighborhood of generalized eigenvalues, (Russian), Proc. Fourth. Republ. Math. Mech. Conf. Young Scientists, pp. 45-49, Baku (1983).
7. **B. P. ALLAKHVERDIEV**, The resolvent principal part of nonselfadjoint operator valued functions in neighborhood of spectral singularities and quasi steady states, Proc. Republ. Sci. Conf. Doct. Students, I, pp.27–30, Baku (1982).
8. **B. P. ALLAKHVERDIEV**, The resolvent principal part of nonselfadjoint operator valued functions in neighborhood of quasi steady states, (Russian), Proc. Republ. Sci. Conf. Doct. Students I, pp.23–26, Baku (1982).

9. F. G. MAKSUDOV and **B. P. ALLAKHVERDIEV**, Spectral analysis of a class of nonselfadjoint operators with a continuous spectrum, (Russian), Proc. Appl. Math. Mech. Conf. Devoted to the 25-th Inst. Math. Mech. Acad. Sci. Azerbaijan, pp.6–9, Baku (1984).
10. **B. P. ALLAKHVERDIEV**, On theory of dissipative Schrödinger operator with a matrix potential, (Russian), Proc. Eight Republ. Math. Mech. Conf. Young Scientists, pp.34–36, Baku (1989).
11. **B. P. ALLAHVERDIEV**, On selfadjoint and nonselfadjoint expansions of symmetric Schrödinger operator with a matrix potential, (Russian), Proc. Sem. Conf. on Differential Equations and Math. Physics, p.7, Baku (1990).
12. **B. P. ALLAHVERDIEV**, On spectral theory nonselfadjoint Schrödinger operator with a matrix potential, (Russian), Proc. Sem. Conf. Academician Z. I. Khalilov, p.11, Baku (1991).
13. **B. P. ALLAHVERDIEV** and G. AYDIN, Spectral analysis of nonselfadjoint operator valued functions with a continuous spectrum, VII. Ulusal Matematik Sempozyumu, pp.71–75, Ankara (1994).
14. G. AYDIN, A. CANOĞLU and **B. P. ALLAHVERDIEV**, The spectral analysis nonselfadjoint Schrödinger operator and the integro differential operator, IX. Ulusal Matematik Sempozyumu, pp.16–22, İstanbul (1996).
15. A. CANOĞLU, G. AYDIN and **B. P. ALLAHVERDIEV**, Spectral analysis of dissipative Schrödinger operator, IX. Ulusal Matematik Sempozyumu, p.11. İstanbul (1996).
16. **B. P. ALLAHVERDIEV**, Matris potansiyeye sahip disipatif Schrödinger operatörünün incelenmesi, XI. Ulusal Matematik Sempozyumu, s.3, Isparta (1998).
17. **B. P. ALLAHVERDIEV**, Spectral analysis of nonselfadjoint operator valued function with continuous spectrum in Hilbert space, XIV. Ulusal Matematik Sempozyumu, p. 8, Eskişehir (2001).
18. **B. P. ALLAHVERDIEV** and S. SALTAN, Maksimal disipatif Schrödinger operatörünün spektral analizi, XV. Ulusal Matematik Sempozyumu, s.19, Mersin (2002).
19. **B. P. ALLAHVERDIEV**, Dissipative Dirac operators with nonseparated boundary conditions, XV. Ulusal Matematik Sempozyumu, p.18, Mersin (2002).
20. **B. P. ALLAHVERDIEV** and A. CANOĞLU, Selfadjoint and dissipative extensions of a symmetric Schrödinger operator, VIII. Ulusal Matematik Sempozyumu, 1p. Adana (1995).
21. **B. P. ALLAHVERDIEV** and G. AYDIN, Spectral analysis of nonselfadjoint operator valued functions with a continuous spectrum and point spectrum, VII. Ulusal Matematik Sempozyumu, pp. 71–75, Ankara (1994).
22. **B. P. ALLAHVERDIEV** and B. TÜREN, Nonselfadjoint operators generated by an infinite Jacobi matrix, XV. Ulusal Matematik Sempozyumu, p.20, Mersin (2002).

23. **B. P. ALLAHVERDIEV**, On the theory of dissipative Schrödinger operator with a matrix potential, XIV. Ulusal Matematik Sempozyumu, p.83, Eskişehir (2001).
24. **B. P. ALLAHVERDIEV** and **S. SALTAN**, Kendine eş olmayan singular Sturm–Liouville operatörünün incelenmesi, XIV. Ulusal Matematik Sempozyumu, s.83, Eskişehir (2001).

6. Milli və Beynəlxalq Layihələr (DPT, TÜBİTAK, AB və s.)

1. Sınır koşulunda spektral parametre bulunduran kendine eş olmayan Dirac sistemleri. S.D.Ü. A.F. Projesi Proje (Doktora), No: 3210-D1-12, Proje Yürütücüsü
2. $A(C,a)$ toplanabilme metodu için Tauber tipi teoremler. S.D.Ü. A.F. Projesi Proje (Doktora), No: 2768-D-11, Proje Yürütücüsü
3. Simetrik operatörlerin indis defekt ve genişleme teorisi. S.D.Ü. A.F. Projesi Proje (Doktora), No: 1911-D-09, Proje Yürütücüsü
4. Abel ve Cesaro toplanabilme metodları için Tauber tipi teoremler. S.D.Ü. A.F. Projesi (Doktora), Proje No: 2225-D-10, Proje Yürütücüsü
5. Burgers Denklemlerinin Bazı yaklaşık Çözümleri, S.D.Ü. A.F. Projesi (Y.Lisans) Proje No: 2058-YL-09, Proje Yürütücüsü
6. Fark operatörlerinin spektral analizi. S.D.Ü. A.F. projesi Proje No: 0465 (Doktora), Proje Yürütücüsü
7. Sınır koşullarında spektral parametre bulunduran II. mertebeden adi diferansiyel denklemler için sınır değer problemi. S.D.Ü. A.F. projesi (Doktora), Proje Yürütücüsü
8. Kendine eş olmayan Schrödinger operatörlerinin spektral analizi. S.D.Ü. A.F. projesi (Doktora), Proje Yürütücüsü