

# Prof. Heybetkulu Mustafayev

## Personal Information

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## Education Information

Doctorate, Azerbaycan Bilimler Akademisi, Mekanik ve Matematik fakültesi, Matematik Bölümü, Azerbaycan 1979 - 1985

Undergraduate, Bakü Devlet Üniversitesi, Mekanik ve Matematik Fakültesi, Matematik Bölümü, Azerbaycan 1974 - 1979

## Foreign Languages

English, B1 Intermediate

Russian, B2 Upper Intermediate

## Dissertations

Doctorate, Lokal kompakt gruplarda Banach cebirlerinin bazı problemleri, Azerbaycan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, Matematik, 2007

Doctorate, Vektör fonksiyoneller ve operatör uzaylarına olan uzaklığın değerlendirilmesi, Azerbaycan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, Matematik, 1986

## Research Areas

Mathematics, Functional Analysis, Natural Sciences

## Academic Titles / Tasks

Professor, Van Yüzüncü Yil University, Fen Fakültesi, Matematik , 2005 - Continues

Associate Professor, Van Yüzüncü Yil University, Fen Fakültesi, Matematik, 1996 - 2004

Associate Professor, Ondokuz Mayıs University, Fen Edebiyat Fakültesi, Matematik, 1992 - 1995

Associate Professor, Azerbaycan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, Matematik, 1989 - 1992

Assistant Professor, Azerbaycan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, Matematik, 1986 - 1989

Medical Doctor, Azerbaycan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, Matematik, 1979 - 1985

## Courses

Analiz II, Undergraduate, 2015 - 2016

Matematiksel Analizin Esasları, Doctorate, 2015 - 2016

## Jury Memberships

Doctorate, Tez savunma jürisi, Yüzüncü Yıl Üniversitesi, January, 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A note on the Kawada-Ito theorem**  
Mustafayev H.  
STATISTICS & PROBABILITY LETTERS, vol.181, 2022 (Journal Indexed in SCI)
- II. **The behavior of iterates of multipliers in commutative Banach algebras**  
Mustafayev H., Topal H.  
ANNALES POLONICI MATHEMATICI, vol.128, pp.233-247, 2022 (Journal Indexed in SCI)
- III. **Mean ergodic theorems for power bounded measures**  
Mustafayev H., Şevli H.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.500, no.1, 2021 (Journal Indexed in SCI)
- IV. **Local spectrum, local spectral radius, and growth conditions**  
Mustafayev H.  
MONATSHEFTE FÜR MATHEMATIK, 2021 (Journal Indexed in SCI)
- V. **ERGODIC PROPERTIES OF CONVOLUTION OPERATORS IN GROUP ALGEBRAS**  
Mustafayev H., Topal H.  
COLLOQUIUM MATHEMATICUM, vol.165, no.2, pp.321-340, 2021 (Journal Indexed in SCI)
- VI. **Some Convergence Theorems for Operator Sequences**  
Mustafayev H.  
INTEGRAL EQUATIONS AND OPERATOR THEORY, vol.92, no.4, 2020 (Journal Indexed in SCI)
- VII. **ON THE CONVERGENCE OF ITERATES OF CONVOLUTION OPERATORS IN BANACH SPACES**  
Mustafayev H.  
MATHEMATICA SCANDINAVICA, vol.126, no.2, pp.339-366, 2020 (Journal Indexed in SCI)
- VIII. **Convergence of iterates of convolution operators in L-P spaces**  
Mustafayev H.  
BULLETIN DES SCIENCES MATHÉMATIQUES, vol.152, pp.61-92, 2019 (Journal Indexed in SCI)
- IX. **Mean Ergodic Theorems for Multipliers on Banach Algebras**  
Mustafayev H.  
JOURNAL OF FOURIER ANALYSIS AND APPLICATIONS, vol.25, no.2, pp.393-426, 2019 (Journal Indexed in SCI)
- X. **Some ergodic properties of multipliers on commutative Banach algebras**  
Mustafayev H., Topal H.  
TURKISH JOURNAL OF MATHEMATICS, vol.43, no.3, pp.1721-1729, 2019 (Journal Indexed in SCI)
- XI. **SOME CONVERGENCE THEOREMS IN FOURIER ALGEBRAS**  
Mustafayev H.  
BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY, vol.96, no.3, pp.487-495, 2017 (Journal Indexed in SCI)
- XII. **Distance formulas in group algebras**  
Mustafayev H.  
Comptes Rendus Mathématique, vol.354, no.6, pp.577-582, 2016 (Journal Indexed in SCI)
- XIII. **Mixing type theorems for one-parameter semigroups of operators**  
Mustafayev H.  
Semigroup Forum, vol.92, no.2, pp.311-334, 2016 (Journal Indexed in SCI)
- XIV. **GROWTH CONDITIONS FOR OPERATORS WITH SMALLEST SPECTRUM**  
Mustafayev H.  
Glasgow Mathematical Journal, vol.57, no.3, pp.665-680, 2015 (Journal Indexed in SCI)
- XV. **Growth conditions for conjugation orbits of operators on banach spaces**

- Mustafayev H.  
Journal of Operator Theory, vol.74, no.2, pp.281-306, 2015 (Journal Indexed in SCI)
- XVI. THE BEHAVIOR OF THE ORBITS OF POWER BOUNDED OPERATORS**  
Mustafayev H.  
OPERATORS AND MATRICES, vol.8, no.4, pp.975-997, 2014 (Journal Indexed in SCI)
- XVII. Differential inequalities in  $L_p$ -spaces**  
Mustafayev H.  
Journal of Mathematical Analysis and Applications, vol.411, no.2, pp.887-901, 2014 (Journal Indexed in SCI)
- XVIII. The essential spectrum of the essentially isometric operator**  
Mustafayev H.  
Canadian Mathematical Bulletin, vol.57, no.1, pp.145-158, 2014 (Journal Indexed in SCI)
- XIX. COMPACT OPERATORS IN THE COMMUTANT OF ESSENTIALLY NORMAL OPERATORS**  
Mustafayev H., HUSEYNOV F. B.  
BANACH JOURNAL OF MATHEMATICAL ANALYSIS, vol.8, no.2, pp.1-15, 2014 (Journal Indexed in SCI)
- XX. Difference Inequalities for the Groups and Semigroups of Operators on Banach Spaces**  
Mustafayev H.  
COMPLEX ANALYSIS AND OPERATOR THEORY, vol.6, no.6, pp.1241-1267, 2012 (Journal Indexed in SCI)
- XXI. The Banach algebras generated by representations of abelian semigroups**  
Mustafayev H.  
MONATSHEFTE FÜR MATHEMATIK, vol.165, pp.413-432, 2012 (Journal Indexed in SCI)
- XXII. The norm spectrum in certain classes of commutative Banach algebras**  
Mustafayev H.  
Colloquium Mathematicum, vol.123, no.1, pp.95-114, 2011 (Journal Indexed in SCI)
- XXIII. THE BANACH ALGEBRAS GENERATED BY OPERATORS WITH ONE-POINT SPECTRUM**  
Seferoglu H., Simsek N.  
ACTA MATHEMATICA SCIENTIA, vol.31, no.2, pp.673-680, 2011 (Journal Indexed in SCI)
- XXIV. Compact homomorphisms of regular banach algebras**  
Mustafayev H., Temel C.  
Mathematische Nachrichten, vol.284, no.4, pp.518-525, 2011 (Journal Indexed in SCI)
- XXV. On the radicals of algebras generated by a contraction**  
Mustafaev H.  
FUNCTIONAL ANALYSIS AND ITS APPLICATIONS, vol.44, no.3, pp.226-229, 2010 (Journal Indexed in SCI)
- XXVI. Asymptotic behavior of polynomially bounded operators**  
Mustafayev H.  
COMPTES RENDUS MATHEMATIQUE, vol.348, pp.517-520, 2010 (Journal Indexed in SCI)
- XXVII. Local spectral properties of generators of  $C_0$ -groups and Bernstein type inequalities**  
Mustafayev H., Temel C.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.357, no.1, pp.273-283, 2009 (Journal Indexed in SCI)
- XXVIII. Weakly compact homomorphisms of regular Banach algebras**  
Mustafaev G. S.  
FUNCTIONAL ANALYSIS AND ITS APPLICATIONS, vol.42, no.2, pp.151-154, 2008 (Journal Indexed in SCI)
- XXIX. The behavior of the radical of the algebras generated by a semigroup of operators on Hilbert space**  
Mustafayev H.  
JOURNAL OF OPERATOR THEORY, vol.57, no.1, pp.19-34, 2007 (Journal Indexed in SCI)
- XXX. Dissipative operators on Banach spaces**  
Mustafayev H.  
JOURNAL OF FUNCTIONAL ANALYSIS, vol.248, no.2, pp.428-447, 2007 (Journal Indexed in SCI)
- XXXI. On the radical for some class of Banach algebras**  
Mustafaev G. S.  
FUNCTIONAL ANALYSIS AND ITS APPLICATIONS, vol.41, no.3, pp.241-244, 2007 (Journal Indexed in SCI)

- XXXII. **Semisimplicity of some class of operator algebras on Banach space**  
Mustafayev H.  
INTEGRAL EQUATIONS AND OPERATOR THEORY, vol.57, no.2, pp.235-246, 2007 (Journal Indexed in SCI)
- XXXIII. **Generators of C-0-groups with smallest spectra**  
Seferoglu H.  
MATHEMATISCHE NACHRICHTEN, vol.280, no.8, pp.924-931, 2007 (Journal Indexed in SCI)
- XXXIV. **A class of Banach algebras whose duals have the Radon-Nikodym property**  
Mustafayev H.  
ARCHIV DER MATHEMATIK, vol.87, no.5, pp.449-457, 2006 (Journal Indexed in SCI)
- XXXV. **The banach algebra generated by a contraction**  
Mustafayev H.  
Proceedings of the American Mathematical Society, vol.134, no.9, pp.2677-2683, 2006 (Journal Indexed in SCI)
- XXXVI. **The Banach algebra generated by a C-0-semigroup**  
Mustafayev H.  
COMPTES RENDUS MATHEMATIQUE, vol.342, no.8, pp.575-578, 2006 (Journal Indexed in SCI)
- XXXVII. **Almost periodic functionals on some class of Banach algebras**  
Mustafayev H.  
ROCKY MOUNTAIN JOURNAL OF MATHEMATICS, vol.36, no.6, pp.1977-1997, 2006 (Journal Indexed in SCI)
- XXXVIII. **A spectral mapping theorem for representations of one-parameter groups**  
Seferoglu H.  
PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY, vol.134, no.8, pp.2457-2463, 2006 (Journal Indexed in SCI)
- XXXIX. **On the discreteness of the structural space of weakly completely continuous banach algebras**  
Mustafaev G.  
Ukrainian Mathematical Journal, vol.56, no.3, pp.504-511, 2004 (Journal Indexed in SCI Expanded)
- XL. **Functionals on Banach Algebras with Scattered Spectra**  
Mustafayev H.  
BULLETIN OF THE POLISH ACADEMY OF SCIENCES-TECHNICAL SCIENCES, vol.52, no.4, pp.395-403, 2004 (Journal Indexed in SCI Expanded)
- XLI. **Compact elements of the algebras  $PMP(G)$  and  $PFp(G)$  of a locally compact group**  
Mustafayev H.  
ACTA MATHEMATICA HUNGARICA, vol.101, pp.83-92, 2003 (Journal Indexed in SCI)
- XLII. **A spectral mapping theorem for Banach modules**  
Seferoğlu H.  
Studia Mathematica, vol.156, no.2, pp.99-103, 2003 (Journal Indexed in SCI)
- XLIII. **On some properties of deddens algebras**  
Karaev M., Mustafayev H.  
Rocky Mountain Journal of Mathematics, vol.33, no.3, pp.915-926, 2003 (Journal Indexed in SCI)
- XLIV. **Banach algebras with bounded groups of generators, and the Schur property**  
Mustafaev G.  
MATHEMATICAL NOTES, vol.71, pp.661-666, 2002 (Journal Indexed in SCI)
- XLV. **Segal algebra as an ideal in its second dual space**  
Mustafayev H.  
Turkish Journal of Mathematics, vol.23, no.2, pp.323-332, 1999 (Journal Indexed in SCI Expanded)
- XLVI. **A class of banach algebras whose duals have the schur property**  
Mustafayev H., Ülger A.  
Turkish Journal of Mathematics, vol.23, no.3, pp.441-452, 1999 (Journal Indexed in SCI Expanded)
- XLVII. **Spectral mapping theorem for representations of measure algebras**  
Seferoğlu H.  
Proceedings of the Edinburgh Mathematical Society, vol.40, no.2, pp.261-266, 1997 (Journal Indexed in SCI)
- XLVIII. **On some property of elements of a Banach algebra which satisfy a polynomial growth condition**

Mustafayev H.

TURKISH JOURNAL OF MATHEMATICS, vol.18, pp.174-182, 1996 (Journal Indexed in SCI Expanded)

**XLIX. On semisimplicity of some operator algebras**

Mustafayev H.

TURKISH JOURNAL OF MATHEMATICS, vol.16, pp.192-200, 1992 (Journal Indexed in SCI Expanded)

**L. An estimate of the norms of inner derivation in some operator algebras**

Mustafaev G., Shul'man V.

Mathematical Notes of the Academy of Sciences of the USSR, vol.45, no.4, pp.337-341, 1989 (Journal Indexed in SCI)

## Articles Published in Other Journals

**I. Operators Whose Conjugation Orbits Satisfy Polynomial Growth Conditions**

Mustafayev H.

arXiv:1904.05125v1 [math.FA], vol.-, 2019 (Journal Indexed in ESCI)

**II. Convergence of iterates of convolution operators in Banach spaces**

Mustafayev H.

MATH. SCAND., vol.-, 2019 (Journal Indexed in ESCI)

**III. Some convergence theorems for multipliers on commutative Banach algebras**

Mustafayev H.

ACTA SCIENTIARUM MATHEMATICARUM, vol.84, pp.673-685, 2018 (Journal Indexed in ESCI)

**IV. Some spectral properties of multipliers on commutative Banach algebras**

Mustafayev H., BASHIROV N.

BOLLETTINO DELLA UNIONE MATEMATICA ITALIANA, vol.10, no.4, pp.517-527, 2017 (Journal Indexed in ESCI)

**V. On the spectra of multipliers on commutative Banach algebras**

Mustafayev H.

Mathematical Proceedings of the Royal Irish Academy, vol.116A, no.2, pp.149-168, 2016 (Journal Indexed in ESCI)

**VI. On the complete continuity of a class of Banach algebras**

Mustafayev H.

Journal of Mathematical Sciences (New York), vol.120, no.5, pp.1723-1732, 2004 (Journal Indexed in ESCI)

**VII. Expansion of the element  $\sin a$  in exponentials for Hermitian elements  $a$**

Mustafayev H.

Journal of Mathematical Sciences (New York), vol.115, no.2, pp.2230-2232, 2003 (Journal Indexed in ESCI)

**VIII. Some inequalities in  $B(H)$**

Mustafayev H., duyar c.

International Journal of Mathematics and Mathematical Sciences, vol.25, no.2, pp.129-133, 2001 (Journal Indexed in ESCI)

**IX. Evaluation of the distance to the space of multipliers in integrable function spaces**

Mustafayev H., duyar c.

Hacettepe Bulletin of Natural Sciences and Engineering. Series B. Mathematics and Statistics, vol.28, pp.1-8, 1999 (Journal Indexed in ESCI)

**X. On the nontransitivity of a class of operator algebras.**

Mustafayev H.

Doklady. Natsional'naya Akademiya Nauk Azerbaidzhana. Reports. National Academy of Sciences of Azerbaijan, vol.45, no.7, pp.7-9, 1989 (Journal Indexed in ESCI)

**XI. Banach spaces with extreme L-points, and vector functionals.**

Mustafayev H.

Spectral theory of operators and its applications, pp.212-249, 1989 (Journal Indexed in ESCI)

**XII. Distance estimation in the space of Toeplitz operators**

Mustafayev H.

Transactions of National Academy of Sciences of Azerbaijan. Series of Physical-Technical and Mathematical Sciences, vol.6, no.1, pp.10-14, 1985 (Journal Indexed in ESCI)

**XIII. The essential commutant of the shift operator and estimation of distance**

Mustafayev H.

Transactions of National Academy of Sciences of Azerbaijan. Series of Physical-Technical and Mathematical Sciences, vol.6, no.3, pp.15-19, 1985 (Journal Indexed in ESCI)

**XIV. Completeness of vector functionals**

Mustafayev H., Shulman V. S.

DOKLADY AKADEMII NAUK SSSR, vol.280, no.4, pp.804-806, 1985 (Journal Indexed in ESCI)

**XV. Some operator spaces having the property  $D_{uw}(1)$ .**

Mustafayev H.

Transactions of National Academy of Sciences of Azerbaijan. Series of Physical-Technical and Mathematical Sciences, vol.5, no.3, pp.15-21, 1984 (Journal Indexed in ESCI)

## Supported Projects

Mustafayev H., Topal H., Project Supported by Higher Education Institutions, Banach Cebirlerinde Çarpanlar İçin Bazı Yakınsama Kriterleri, 2018 - 2019

Mustafayev H., Temel C., Project Supported by Higher Education Institutions, Tek Parametrel ve Diskret Yarımgrupların Banach ve Hilbert Temsillerinin Üretici Operatörlerinin Yerel Spektral Özellikleri, 2013 - 2016

Mustafayev H., Temel C., Project Supported by Higher Education Institutions, Grupların Banach ve Hilbert Temsillerinin Üretici Operatörlerinin Spektral Özellikleri, 2008 - 2010

Mustafayev H., Temel C., Project Supported by Higher Education Institutions, Banach ve Hilbert Uzaylarında Operatörlerin Doğurduğu Cebirler ve Onların Spektrumu, 2006 - 2009

## Citations

Total Citations (WOS):58

h-index (WOS):3