

Prof. Heybetkulu Mustafayev

Personal Information

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Education Information

Doctorate, Azerbaycan Bilimler Akademisi, Mekanik ve Matematik fakültesi, Matematik Bölümü, Azerbaijan 1979 - 1985
Undergraduate, Bakü Devlet Üniversitesi, Mekanik ve Matematik Fakültesi, Matematik Bölümü, Azerbaijan 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 Yıl University, Fen Fakültesi, Matematik , 2005 - Continues

Associate Professor, Van Yüzüncü Yıl 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 (SCI-Expanded)
- II. **The behavior of iterates of multipliers in commutative Banach algebras**
Mustafayev H., Topal H.
ANNALES POLONICI MATHEMATICI, vol.128, pp.233-247, 2022 (SCI-Expanded)
- III. **Mean ergodic theorems for power bounded measures**
Mustafayev H., Şevli H.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.500, no.1, 2021 (SCI-Expanded)
- IV. **Local spectrum, local spectral radius, and growth conditions**
Mustafayev H.
MONATSHEFTE FÜR MATHEMATIK, vol.195, no.4, pp.717-741, 2021 (SCI-Expanded)
- V. **ERGODIC PROPERTIES OF CONVOLUTION OPERATORS IN GROUP ALGEBRAS**
Mustafayev H., Topal H.
COLLOQUIUM MATHEMATICUM, vol.165, no.2, pp.321-340, 2021 (SCI-Expanded)
- VI. **Some Convergence Theorems for Operator Sequences**
Mustafayev H.
INTEGRAL EQUATIONS AND OPERATOR THEORY, vol.92, no.4, 2020 (SCI-Expanded)
- VII. **ON THE CONVERGENCE OF ITERATES OF CONVOLUTION OPERATORS IN BANACH SPACES**
Mustafayev H.
MATHEMATICA SCANDINAVICA, vol.126, no.2, pp.339-366, 2020 (SCI-Expanded)
- VIII. **Convergence of iterates of convolution operators in L-P spaces**
Mustafayev H.
BULLETIN DES SCIENCES MATHEMATIQUES, vol.152, pp.61-92, 2019 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- XI. **SOME CONVERGENCE THEOREMS IN FOURIER ALGEBRAS**
Mustafayev H.
BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY, vol.96, no.3, pp.487-495, 2017 (SCI-Expanded)
- XII. **Distance formulas in group algebras**
Mustafayev H.
Comptes Rendus Mathematique, vol.354, no.6, pp.577-582, 2016 (SCI-Expanded)
- XIII. **Mixing type theorems for one-parameter semigroups of operators**
Mustafayev H.
Semigroup Forum, vol.92, no.2, pp.311-334, 2016 (SCI-Expanded)
- XIV. **GROWTH CONDITIONS FOR OPERATORS WITH SMALLEST SPECTRUM**
Mustafayev H.
Glasgow Mathematical Journal, vol.57, no.3, pp.665-680, 2015 (SCI-Expanded)
- 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 (SCI-Expanded)
- XVI. **THE BEHAVIOR OF THE ORBITS OF POWER BOUNDED OPERATORS**
Mustafayev H.
OPERATORS AND MATRICES, vol.8, no.4, pp.975-997, 2014 (SCI-Expanded)
- XVII. **Differential inequalities in L^p -spaces**
Mustafayev H.
Journal of Mathematical Analysis and Applications, vol.411, no.2, pp.887-901, 2014 (SCI-Expanded)
- XVIII. **The essential spectrum of the essentially isometric operator**
Mustafayev H.
Canadian Mathematical Bulletin, vol.57, no.1, pp.145-158, 2014 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- XXI. **The Banach algebras generated by representations of abelian semigroups**
Mustafayev H.
MONATSHEFTE FUR MATHEMATIK, vol.165, pp.413-432, 2012 (SCI-Expanded)
- XXII. **The norm spectrum in certain classes of commutative Banach algebras**
Mustafayev H.
Colloquium Mathematicum, vol.123, no.1, pp.95-114, 2011 (SCI-Expanded)
- 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 (SCI-Expanded)
- XXIV. **Compact homomorphisms of regular banach algebras**
Mustafayev H., Temel C.
Mathematische Nachrichten, vol.284, no.4, pp.518-525, 2011 (SCI-Expanded)
- 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 (SCI-Expanded)
- XXVI. **Asymptotic behavior of polynomially bounded operators**
Mustafayev H.
COMPTES RENDUS MATHEMATIQUE, vol.348, pp.517-520, 2010 (SCI-Expanded)
- 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 (SCI-Expanded)
- XXVIII. **Weakly compact homomorphisms of regular Banach algebras**
Mustafaev G. S.
FUNCTIONAL ANALYSIS AND ITS APPLICATIONS, vol.42, no.2, pp.151-154, 2008 (SCI-Expanded)
- 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 (SCI-Expanded)
- XXX. **Dissipative operators on Banach spaces**
Mustafayev H.
JOURNAL OF FUNCTIONAL ANALYSIS, vol.248, no.2, pp.428-447, 2007 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- XXXIII. **Generators of C-0-groups with smallest spectra**
Seferoglu H.
MATHEMATISCHE NACHRICHTEN, vol.280, no.8, pp.924-931, 2007 (SCI-Expanded)
- 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 (SCI-Expanded)
- XXXV. **The banach algebra generated by a contraction**
Mustafayev H.
Proceedings of the American Mathematical Society, vol.134, no.9, pp.2677-2683, 2006 (SCI-Expanded)
- XXXVI. **The Banach algebra generated by a C-0-semigroup**
Mustafayev H.
COMPTES RENDUS MATHEMATIQUE, vol.342, no.8, pp.575-578, 2006 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (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 (SCI-Expanded)
- XLI. **Compact elements of the algebras $\text{PMp}(G)$ and $\text{PFp}(G)$ of a locally compact group**
Mustafayev H.
ACTA MATHEMATICA HUNGARICA, vol.101, pp.83-92, 2003 (SCI-Expanded)
- XLII. **A spectral mapping theorem for Banach modules**
Seferoğlu H.
Studia Mathematica, vol.156, no.2, pp.99-103, 2003 (SCI-Expanded)
- XLIII. **On some properties of deddens algebras**
Karaev M., Mustafayev H.
Rocky Mountain Journal of Mathematics, vol.33, no.3, pp.915-926, 2003 (SCI-Expanded)
- XLIV. **Banach algebras with bounded groups of generators, and the Schur property**
Mustafaev G.
MATHEMATICAL NOTES, vol.71, pp.661-666, 2002 (SCI-Expanded)
- 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 (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 (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 (SCI-Expanded)
- 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 (SCI-Expanded)
- XLIX. **On semisimplicity of some operator algebras**

- Mustafayev H.
TURKISH JOURNAL OF MATHEMATICS, vol.16, pp.192-200, 1992 (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 (SCI-Expanded)

Articles Published in Other Journals

- I. Operators Whose Conjugation Orbits Satisfy Polynomial Growth Conditions
Mustafayev H.
arXiv:1904.05125v1 [math.FA], vol.-, 2019 (Peer-Reviewed Journal)
- II. Convergence of iterates of convolution operators in Banach spaces
Mustafayev H.
MATH. SCAND., vol.-, 2019 (Scopus)
- III. Some convergence theorems for multipliers on commutative Banach algebras
Mustafayev H.
ACTA SCIENTIARUM MATHEMATICARUM, vol.84, pp.673-685, 2018 (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 (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 (Peer-Reviewed Journal)
- 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 (Peer-Reviewed Journal)
- 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 (Peer-Reviewed Journal)
- 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 (Scopus)
- 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 (Peer-Reviewed Journal)
- 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 (Peer-Reviewed Journal)
- XI. Banach spaces with extreme L-points, and vector functionals.
Mustafayev H.
Spectral theory of operators and its applications, pp.212-249, 1989 (Peer-Reviewed Journal)
- 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 (Peer-Reviewed Journal)
- 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 (Peer-Reviewed Journal)

XIV. **Completeness of vector functionals**

Mustafayev H., Shulman V. S.

DOKLADY AKADEMII NAUK SSSR, vol.280, no.4, pp.804-806, 1985 (Peer-Reviewed Journal)

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 (Peer-Reviewed Journal)

Supported Projects

Mustafayev H., Topal H., Project Supported by Higher Education Institutions, Spektrumu Sonlu Sayıda Olan Operatörlerin Spektral Teorisi Üzerine, 2020 - 2021

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 Parametreli 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

Metrics

Publication: 67

Citation (WoS): 58

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