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Education Information

Doctorate, Karadeniz Technical University, Fen Fakültesi/Fen Bilimleri/Kimya, Turkey 2005 - 2009

Certificates, Courses and Trainings

Quality Management, FEDEK-Değerlendirici, FEDEK Değerlendirme ve Akreditasyon Derneği, 2017

Education Management and Planning, The International Seminar on Lab on Chip Biosensor Systems, Ege Üniversitesi, 2014

Education Management and Planning, Certificate of Appreciation, ACS Publications, 2011

Education Management and Planning, Kişilerarası İletişim ve Beden Dili, Stresle başa çıkma ve Kriz Yönetimi, EYOF, 2011

Education Management and Planning, Metabolomik, Ege Üniversitesi, 2010

Education Management and Planning, Protein Analitiği, Ege Üniversitesi, 2009

Education Management and Planning, Metabolizmanın Regülasyonu ve Metabolik Bozukluklar, Ege Üniversitesi, 2008

Research Areas

Life Sciences, Biochemistry, Enzymology, Molecular Biochemistry, Molecular Biology and Genetics, Chemistry, Biochemistry, Natural Sciences

Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Fen Fakültesi, Kimya, 2014 - 2021

Lecturer PhD, Karadeniz Technical University, Fen Fakültesi, Kimya, 2009 - 2014

Lecturer, Karadeniz Technical University, Fen Fakültesi, Kimya, 2006 - 2009

Academic and Administrative Experience

Vice Dean, Karadeniz Technical University, Fen Fakültesi, Kimya, 2020 - Continues

Deputy Head of Department, Karadeniz Technical University, Fen Fakültesi, Kimya, 2016 - Continues

Courses

BIOCHEMISTRY III, Undergraduate, 2014 - 2015
BİYOKİMYA LAB. II (A), Undergraduate, 2014 - 2015
Temel Kimya I, Undergraduate, 2015 - 2016
BİYOKİMYA III, Undergraduate, 2014 - 2015
BİYOKİMYA LAB. II (B), Undergraduate, 2014 - 2015
Biyokimya Lab. I, Undergraduate, 2015 - 2016
BİTİRME TEZİ, Undergraduate, 2014 - 2015
BİYOKİMYA LAB., Undergraduate, 2014 - 2015

Advising Theses

KOLCUOĞLU Y., MERKAPTO-1,2,4,-TRİAZOL BİLEŞİKLERİNİN ÜREAZ AKTİVİTESİ ÜZERİNE ETKİSİNİN IN VITRO VE IN SLICO OLARAK İNCELENMESİ, Postgraduate, G.ZEHİR(Student), 2018
KOLCUOĞLU Y., YABANI VE YENİLEBİLİR BİR MANTAR OLAN LACTARIUS EUCALYPTI O. K. MILL & R. N. HILTON' DAN POLİFENOL OKSİDAZİN SAFLAŞTIRILMASI VE KARAKTERİZASYONU, Postgraduate, İ.KUYUMCU(Student), 2014

Jury Memberships

Appointment Academic Staff, AKADEMİK KADROYA ATAMA, RTE ÜNİVERSİTESİ, December, 2014

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **The synthesis of novel piperazine-benzodioxole substituted phthalocyanines and investigation of their alpha-amylase and tyrosinase inhibition properties**
DEĞİRMENCİOĞLU İ., Tuncay F., Cakmak U., KOLCUOĞLU Y.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.951, 2021 (Journal Indexed in SCI)
- II. **Synthesis of new 1,2,4-triazole-(thio)semicarbazide hybrid molecules: Their tyrosinase inhibitor activities and molecular docking analysis**
Gultekin E., BEKİRCAN O., KOLCUOĞLU Y., AKDEMİR A.
Archiv der Pharmazie, vol.354, no.8, 2021 (Journal Indexed in SCI)
- III. **Development of Some Properties of a Thermophilic Recombinant Glucose Isomerase by Mutation**
Dokuzparmak Ç., Colak A., Kolcuoglu Y., Akatin M., Ertunga N., Tuncay F.
APPLIED BIOCHEMISTRY AND MICROBIOLOGY, vol.56, no.2, pp.164-172, 2020 (Journal Indexed in SCI)
- IV. **SITE-DIRECTED MUTAGENESIS AND CHARACTERIZATION OF RECOMBINANT PHOSPHOTRIESTERASE HOMOLOGY PROTEIN FROM GEOBACILLUS CALDOXYLOSILYTICUS TK4**
ÖZ TUNCAY F., ÇOLAK A., Akatin M. Y. , KOLCUOĞLU Y., SAĞLAM ERTUNGA N., DOKUZPARMAK Ç.
REVUE ROUMAINE DE CHIMIE, vol.64, no.1, pp.73-82, 2019 (Journal Indexed in SCI)
- V. **Synthesis, biological activities and molecular docking studies of some novel 2,4,5-trisubstituted-1,2,4-triazole-3-one derivatives as potent tyrosinase inhibitors**
Akin S., Demir E., Çolak A., Kolcuoğlu Y., Yıldırım N., Bekircan O.
JOURNAL OF MOLECULAR STRUCTURE, vol.1175, pp.280-286, 2019 (Journal Indexed in SCI)
- VI. **A catecholase from Laccaria laccata a wild edible mushroom and its catalytic efficiency in organic media**
KOLCUOĞLU Y., KUYUMCU I., ÇOLAK A.
JOURNAL OF FOOD BIOCHEMISTRY, vol.42, no.5, 2018 (Journal Indexed in SCI)
- VII. **A Study On Synthesis, Biological Activities and Molecular Modelling of Some Novel Trisubstituted 1,2,4-Triazole Derivatives**
Gultekin E., KOLCUOĞLU Y., AKDEMİR A., Sirin Y., BEKTAŞ H., BEKİRCAN O.

CHEMISTRYSELECT, vol.3, no.31, pp.8813-8818, 2018 (Journal Indexed in SCI)

- VIII. **Nutritional Evaluation of an Outstanding Apple Cultivar, Göbek (i Malus /i i /i i communis /i L.)**
Çolak N., Kolcuoğlu Y., Tarkowski P., Benicka S., Çolak A., Ayaz S., Ayaz F. A.
Journal Of Food And Nutrition Research, vol.5, no.12, pp.874-881, 2017 (Journal Indexed in SCI Expanded)
- IX. **Characterization of polyphenol oxidase during three ripening stages of an eggplant (Solanum melongena L.) fruit: a local type in northeast Anatolia**
Torun H., KOLCUOĞLU Y., AYAZ F. A. , ÇOLAK A., Glew R. H.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.40, no.1, pp.44-50, 2015 (Journal Indexed in SCI)
- X. **Partial purification and biochemical characterization of an extremely thermo- and pH-stable esterase with great substrate affinity**
Ozbek E., KOLCUOĞLU Y., Konak L., ÇOLAK A., Oz F.
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.4, pp.538-546, 2014 (Journal Indexed in SCI)
- XI. **Purification and characterization of an extremely stable glucose isomerase from Geobacillus thermodenitrificans TH2**
KONAK L., KOLCUOĞLU Y., Ozbek E., ÇOLAK A., ERGENOGLU B.
APPLIED BIOCHEMISTRY AND MICROBIOLOGY, vol.50, no.1, pp.25-29, 2014 (Journal Indexed in SCI)
- XII. **Purification and characterization of a pH and heat stable esterase from Geobacillus sp TF17**
Ayna C., KOLCUOĞLU Y., Oz F., ÇOLAK A., ERTUNGA N.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.38, no.3, pp.329-336, 2013 (Journal Indexed in SCI)
- XIII. **Purification and comparative characterization of monophenolase and diphenolase activities from a wild edible mushroom (Macrolepiota gracilentia)**
Kolcuoglu Y.
PROCESS BIOCHEMISTRY, vol.47, no.12, pp.2449-2454, 2012 (Journal Indexed in SCI)
- XIV. **Characterization of a Polyphenol Oxidase Having Monophenolase and Diphenolase Activities from a Wild Edible Mushroom, Russula delica**
Keskin S., Ertunga N., Çolak A., Akatin M. Y. , Özel A., Kolcuoğlu Y.
ASIAN JOURNAL OF CHEMISTRY, vol.24, no.3, pp.1203-1208, 2012 (Journal Indexed in SCI)
- XV. **Cloning, expression and characterization of xylose isomerase from thermophilic Geobacillus caldoxylosilyticus TK4 strain**
FAİZ Ö., ÇOLAK A., KOLCUOĞLU Y., ERTUNGA N. S.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.36, no.1, pp.6-14, 2011 (Journal Indexed in SCI)
- XVI. **Cloning, expression and characterization of highly thermo- and pH-stable maltogenic amylase from a thermophilic bacterium Geobacillus caldoxylosilyticus TK4**
Kolcuoglu Y., ÇOLAK A., FAİZ Ö., BELDÜZ A. O.
PROCESS BIOCHEMISTRY, vol.45, no.6, pp.821-828, 2010 (Journal Indexed in SCI)
- XVII. **AN ESTEROLYTIC ACTIVITY FROM A WILD EDIBLE MUSHROOM, LYCOPERDON PERLATUM**
ÇOLAK A., CAMEDAN Y., FAIZ O., Sesli E., KOLCUOĞLU Y.
JOURNAL OF FOOD BIOCHEMISTRY, vol.33, no.4, pp.482-499, 2009 (Journal Indexed in SCI)
- XVIII. **An esterolytic activity from a wild edible mushroom, Lycoperdon perlatum**
ÇOLAK A., ÜNVER Y., Faiz Ö., SESLİ E., KOLCUOĞLU Y.
JOURNAL OF FOOD BIOCHEMISTRY, vol.33, pp.482-489, 2009 (Journal Indexed in SCI Expanded)
- XIX. **Characterization of polyphenoloxidase (PPO) and total phenolic contents in medlar (Mespilus germanica L.) fruit during ripening and over ripening**
Ayaz F. A. , DEMIRA O., TORUN H., Kolcuoglu Y., COLAK A.
FOOD CHEMISTRY, vol.106, no.1, pp.291-298, 2008 (Journal Indexed in SCI)
- XX. **Comparative characterization of diphenolases from two mulberry fruits (Morus alba L-and Morus nigra L.)**
Colak A., Kolcuoğlu Y., Faiz O., Özen A., Dinçer B.

ASIAN JOURNAL OF CHEMISTRY, vol.19, no.4, pp.2961-2972, 2007 (Journal Indexed in SCI)

XXI. Biochemical composition of some Turkish fungi

Colak A., Kolcuoğlu Y., Sesli E., dalman O.

ASIAN JOURNAL OF CHEMISTRY, vol.19, no.3, pp.2193-2199, 2007 (Journal Indexed in SCI)

XXII. Comparative characterization of monophenolase and diphenolase activities from a wild edible mushroom (*Macrolepiota mastoidea*)

Kolcuoğlu Y., Colak A., Sesli E., Yıldırım M., Sağlam N.

FOOD CHEMISTRY, vol.101, no.2, pp.778-785, 2007 (Journal Indexed in SCI)

Books & Book Chapters

I. Metabolik işlemlerin kontrolü ve metabolizmanın bütünlüğü

KOLCUOĞLU Y., YILDIRIM AKATIN M.

in: Biyokimya II, Ahmet Çolak, Editor, KTÜ Matbaası-Trabzon, Trabzon, pp.307-331, 2016

II. Proteinlerin yıkım ve amino asit metabolizması

KOLCUOĞLU Y.

in: Biyokimya II, Ahmet Çolak, Editor, KTÜ Matbaası-Trabzon, Trabzon, pp.259-278, 2016

Refereed Congress / Symposium Publications in Proceedings

I. Enzymatic Characterization of Maltogenic amylase from *Geobacillus caldoolyolyticus* TK4 Ekspresed in *Escherichia coli*

KOLCUOĞLU Y., ÇOLAK A., Ertunga N. S.

The International Enzyme Engineering Symposium, Aydın, Turkey, vol.1, pp.64

II. Purification and characterization of esterase from a thermophilic bacterium, *Geobacillus* sp. DF20

Ozbek E., KOLCUOĞLU Y., Konak L., ÖZ F., AYNA Ç., ÇOLAK A.

ICEST2011, Aydın, Turkey, vol.1, no.1, pp.58

III. Polyphenol Oxidase (PPO) and Phenolic Characterization of Eggplant (*Solanum melongena* L. 'KADİFE') Fruit Throughout ripening

Torun H., KOLCUOĞLU Y., AYAZ F. A., ÇOLAK A.

The International Enzyme Engineering Symposium, Aydın, Turkey, vol.1, pp.67

IV. Cloning of The L-asparaginase Encoding Gene From A Mesophilic Bacterium

KOLCUOĞLU Y., ÇOLAK A.

2. EBAT CONGRESS, 26 October - 30 November 2019

V. AMYLASE INHIBITION EFFECIENCE OF SOME FLUORINE-CONTAINING 1,2,4-TRIAZOLE-5-ON DERIVATIVES

ÇAKMAK Ü., ÖZ TUNCAY F., KOLCUOĞLU Y., BEKİRCAN O.

2nd International Turkish World Engineering and Science Congress, 7 - 10 November 2019

VI. Calculation of Thermodynamic Parameters Necessary for Thermal Inactivation of Xylanase from Macroalgae Tissue

ÇAKMAK Ü., ÖZ TUNCAY F., KOLCUOĞLU Y., KUTLU ÇALIŞKAN N.

CESCOP 2019, 4 - 06 September 2019

VII. Thermodynamic Parameters for Thermal Inactivation of Alpha-Amylase from Macro Algae Tissue

ÖZ TUNCAY F., ÇAKMAK Ü., KOLCUOĞLU Y., KUTLU ÇALIŞKAN N.

INTERNATIONAL CONFERENCE ON CHEMICAL ENERGY AND SEMICONDUCTOR PHOTOCHEMISTRY, 4 - 06 September 2019

VIII. Investigation of Tyrosinase Activities of Some Thiosemicarbazide Derivatives Containing 1,2,4-Triazole-3-on Ring

GÜLTEKİN E., BEKİRCAN O., KOLCUOĞLU Y.

1. EBAT CONGRESS, 27 - 30 October 2018
- IX. **A study on the Synthesis and Tyrosinase Activities of Some Novel Semicarbazide Analogs**
GÜLTEKİN E., BEKİRCAN O., KOLCUOĞLU Y.
1. EBAT CONGRESS, 27 - 30 October 2018
- X. **Investigation of inhibitor activity on newly synthesized Novel trisubstitue 1,2,4triazole compounds on AChE**
KOLCUOĞLU Y., GÜLTEKİN E., BEKİRCAN O., ŞİRİN Y.
1. Ebat Congress, 27 - 30 October 2018
- XI. **New Mercapto-1,2,4-triazole Compounds as Candidate Molecules for Ulcer Treatment**
ZEHİR KIRKBİR G., KOLCUOĞLU Y., BEKİRCAN O., ÇOLAK A.
1. Ebat Congress, 27 - 30 October 2018
- XII. **Inhibition of Canavalia ensiformis urease with new 1,2,4-triazole compounds**
KOLCUOĞLU Y., GÜLTEKİN E., BEKİRCAN O., AKDEMİR A.
1. EBAT CONGRESS, 27 - 30 October 2018
- XIII. **Metal Ion Requirement and Effect on Mutant GI Activity and Enhancement of pH- and Thermal Stability**
Dokuzparmak Ç., Öz Tuncay F., Çolak A., Kolcuoğlu Y., Yıldırım Akatın M., Sağlam Ertunga N.
EurasianBioChem 2018, Ankara, Turkey, 26 - 27 April 2018, pp.1
- XIV. **Polyamines and phenolic compounds content in the fruit of naturally growing Malus sylvestis L. in Gümüşhane (Turkey)**
Kurt A., ÇOLAK N., ÇOLAK A., KOLCUOĞLU Y., AYAZ F. A.
International Congress on Medicinal and Aromatic Plants, 9 - 11 May 2017
- XV. **Polyamine and phenolic compounds contenr in the fruit of naturally growing Malus sylvestis L. in Gümüşhane Turkey**
KURT a., ÇOLAK N., ÇOLAK A., KOLCUOĞLU Y., AYAZ F. A.
international congress on medicinal and aromatic plants, 9 - 11 May 2017
- XVI. **TERMOFİLİK BİR REKOMBİNANT GLUKOZ İZOMERAZIN BAZI ÖZELLİKLERİNİN MUTASYONLA GELİŞTİRİLMESİ**
AYNA Ç., ÖZ F., ÇOLAK A., KOLCUOĞLU Y.
XXVII. ULUSAL BİYOKİMYA KONGRESİ, Antalya, Turkey, 3 - 06 November 2015, vol.40, pp.313
- XVII. **Investigation of urease inhibition by some 1,2,3 triazol derivatives**
Kalfa A., Ayazoğlu E., YAŞAR A., ÇOLAK A., BEKİRCAN O., KOLCUOĞLU Y.
3rd international Bau-drug desing congres, İstanbul, Turkey, 1 - 03 October 2015, pp.160
- XVIII. **Nutrient content of Malis slyvestris L. (apple), which groww naturally in Gümüşhane**
ÇOLAK N., Günal M., KOLCUOĞLU Y., ÇOLAK A., AYAZ F. A.
International Mesopotamia Agriculture Congress, Diyarbakır, Turkey, 22 - 25 September 2015, pp.201-202
- XIX. **Nutrient content of Malus Slyvestris L apple which grows naturally in Gümüşhane**
ÇOLAK N., Merve G., KOLCUOĞLU Y., ÇOLAK A., AYAZ F. A.
International Mesopotamia Agriculture Congress, Diyarbakır, Turkey, 22 - 25 September 2014
- XX. **Nutrient cotent of Malus slyvestris L. (apple), which grows naturally in Gümüşhane**
ÇOLAK N., KOLCUOĞLU Y., ÇOLAK A., AYAZ F. A., GÜNAL M.
International Mesopotamia Agiculture congress, Diyarbakır, Turkey, 23 - 26 September 2014, pp.201-202
- XXI. **Geobacillus caldxylosilyticus TK4 Suşundan Klonlanan Rekombinant Fosfotriesteraz Homolog Proteininin Mutasyonu ve İzlenmesi**
ÖZ F., YILDIRIM AKATIN M., ÇOLAK A., KOLCUOĞLU Y., SAĞLAM ERTUNGA N.
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011
- XXII. **Termofilik Bir Bakteri Olan Geobacillus sp. TF17 Suşundan Esteraz Enziminin Saflaştırılması ve Karakterizasyonu**
KOLCUOĞLU Y., ÖZ F., ÖZBEK E., KONAK L., AYNA Ç., YILDIRIM AKATIN M., ÇOLAK A.
25. Ulusal Kimya Kongresi-Uluslararası Katılımlı, Erzurum, Turkey, 27 June - 02 July 2011, pp.119
- XXIII. **Purification and characterization of Glucose Isomerase from a thermophilic bacterium Geobacillus**

thermodenitrificans TH2

Konak L., Kolcuoğlu Y., Özbek E., Öz F., Çolak A., Beldüz A. O. , İnan Bektaş K.

ICEST 2011, Aydın, Turkey, 12 May 2011, vol.1, pp.45

- XXIV. **Termofilik Geobacillus caldoxylolyticus TK4 Suşundan Fosfotriesterazın Klonlanması ve Ekspresyonu**
YILDIRIM AKATIN M., KOLCUOĞLU Y., ÇOLAK A., SAĞLAM ERTUNGA N., ÇANAKÇI S.
22. Ulusal Kimya Kongresi, Mağusa, Cyprus (Kkct), 6 - 10 October 2008
- XXV. **Termofilik Geobacillus caldoxylolyticus TK4 Suşundan Maltojenik Amilaz Geninin Klonlanması Mağusa KKTC 2008**
KOLCUOĞLU Y., YILDIRIM AKATIN M., ÇOLAK A., SAĞLAM ERTUNGA N., BELDÜZ A. O.
22. Ulusal Kimya Kongresi, Mağusa, Cyprus (Kkct), 6 - 10 October 2008
- XXVI. **Enzymatic Characterization of a Maltogenic Amylase from Geobacillus caldoxylolyticus TK4 Expressed in Escherichia coli Kuşadası 2008**
KOLCUOĞLU Y., ÇOLAK A., SAĞLAM ERTUNGA N., YILDIRIM AKATIN M.
International Enzyme Engineering Symposium (IEES'08), Aydın, Turkey, 1 - 05 October 2008
- XXVII. **Enzymatic Characterization of a Maltogenic Amylase from Geobacillus caldoxylolyticus TK4 Expressed in Escherichia coli**
KOLCUOĞLU Y., ÇOLAK A., SAĞLAM ERTUNGA N., YILDIRIM AKATIN M.
International Enzyme Engineering Symposium (IEES'08), Aydın, Turkey, 1 - 05 October 2008, pp.1
- XXVIII. **Yabani ve Yenilebilir Bir Mantar Olan Russula delica dan Elde Edilen Ham Özütten Polifenol Oksidaz Enziminin Difenolaz Aktivitesinin Karakterizasyonu**
KESKİN Ş., SAĞLAM ERTUNGA N., ÇOLAK A., YILDIRIM AKATIN M., KOLCUOĞLU Y., SESLİ E.
19. Ulusal Biyoloji Kongresi, Trabzon, Turkey, 23 - 27 June 2008
- XXIX. **Polyphenoloxidase potentials of some wild and edible mushroom species harvested from Trabzon 1 2006**
YILDIRIM AKATIN M., Sahin E., FAİZ Ö., ÇOLAK A., KOLCUOĞLU Y.
31st FEBS Congress, İstanbul, Turkey, 24 - 29 June 2006
- XXX. **Comparative characterization of diphenolases from two mulberry fruits (Morus alba L. and Morus nigra L.)**
KOLCUOĞLU Y., ÇOLAK A., FAİZ Ö., ÖZEL A., SAĞLAM ERTUNGA N., YILDIRIM AKATIN M.
31st FEBS Congress, İstanbul, Turkey, 24 - 29 June 2006, pp.1
- XXXI. **Comparative characterization of diphenolases from two mulberry fruits (Morus alba L. and Morus nigra L.)**
KOLCUOĞLU Y., ÇOLAK A., FAİZ Ö., ÖZEL A., SAĞLAM ERTUNGA N., YILDIRIM AKATIN M.
31st FEBS Congress, İstanbul, Turkey, 24 - 29 June 2006, pp.1
- XXXII. **Polyphenoloxidase potentials of some wild and edible mushroom species harvested from Trabzon**
Yildirim M., Sahin E., Faiz O., Colak A., Kolcuoglu Y.
31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.337-338
- XXXIII. **Yabani ve yenilebilir bir mantar olan Macrolepiota mastoidea dan izole edilen difenolaz aktivitesinin karakterizasyonu Kuşadası 2005**
ÇOLAK A., KOLCUOĞLU Y., SESLİ E., YILDIRIM AKATIN M., ÖZEL A.
19. Ulusal Kimya Kongresi, Aydın, Turkey, 30 September - 04 October 2005
- XXXIV. **Yabani ve yenilebilir bir mantar olan Macrolepiota mastoidea monofenolazının karakterizasyonu**
YILDIRIM AKATIN M., KOLCUOĞLU Y., ÇOLAK A., SESLİ E., SAĞLAM ERTUNGA N.
19. Ulusal Kimya Kongresi, Aydın, Turkey, 30 September - 04 October 2005

Edit Congress and Symposium Activities

1. Euroasia Biochemical Approches & Technologies Congress., Attendee, Antalya, Turkey, 2018

Lab on a Chip, Attendee, Aydın, Turkey, 2011

XXII Ulusal Kimya Kongresi, Attendee, Gazimagusa, Cyprus (Kktc), 2008

The International Enzyme Engineering Symposium, Attendee, Aydın, Turkey, 2008

31st FEBS CONGRESS, Attendee, İstanbul, Turkey, 2006

Citations

Total Citations (WOS):229

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