

Prof. Fatma Bedia Berker

Personal Information

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Biography

F.Bedia Erim (Berker) received his Bachelor's and MSc Degree from Istanbul University in Chemical Engineering and her Ph.D. from Istanbul Technical University in Chemistry. She is full Professor in Istanbul Technical University since 1998. Her research area is Analytical Chemistry: Method development and analysis with capillary electrophoresis; biopolymer applications in controlled drug release and removal of environmental pollutants; development of food coating and wound dressing agents from biopolymers; chemical and physical properties of biopolymer composites. She is the author of 98 SCI articles.

Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1981 - 1985

Post Graduate, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), Turkey 1978 - 1979

Under Graduate, İstanbul Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1974 - 1978

Foreign Languages

English

Research Areas

Food Engineering, Food Science, Food Chemistry, Life Sciences, Biotechnology, Biomaterial, Chemistry, Analytical Chemistry, Separation Methods, Food Analysis, Chromatographic Analysis, Physical Chemistry, Polymers and Their Applications, Composites, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1998 - Continues

Associate Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1990 - 1998

Assistant Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1987 - 1990

Professional Experience

Vice Dean, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1997 - 2000

Deputy Head of Department, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1995 - 1997

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

- I. **Biopolymer-assisted green synthesis of functional cerium oxide nanoparticles**
KAYGUSUZ H., Berker F. B.
CHEMICAL PAPERS, vol.74, no.7, pp.2357-2363, 2020 (Journal Indexed in SCI)
- II. **Antibacterial nano cerium oxide/chitosan/cellulose acetate composite films as potential wound dressing**
Kalaycıoğlu Z., Kahya N., Adımcılar V., Kaygusuz H., Torlak E., Akın-Evingür G., Erim F. B.
EUROPEAN POLYMER JOURNAL, vol.133, 2020 (Journal Indexed in SCI)
- III. **Barium ion cross-linked alginate-carboxymethyl cellulose composites for controlled release of anticancer drug methotrexate**
Kahya N., Gölcü A., Erim F. B.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.54, 2019 (Journal Indexed in SCI)
- IV. **Surfactant modified alginate composite gels for controlled release of protein drug**
Kahya N., Erim F. B.
CARBOHYDRATE POLYMERS, vol.224, 2019 (Journal Indexed in SCI)
- V. **Rosmarinic and carnosic acid contents and correlated antioxidant and antidiabetic activities of 14 Salvia species from Anatolia**
Adımcılar V., Kalaycıoğlu Z., Aydogdu N., Dirmenci T., Kahraman A., Erim F. B.
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.175, 2019 (Journal Indexed in SCI)
- VI. **Development of Anti-Aging and Anticorrosive Nanoceria Dispersed Alkyd Coating for Decorative and Industrial Purposes**
Kizilkonca E., Erim F. B.
COATINGS, vol.9, no.10, 2019 (Journal Indexed in SCI)
- VII. **Nitrate and Nitrites in Foods: Worldwide Regional Distribution in View of Their Risks and Benefits**
Kalaycıoğlu Z., Erim F. B.
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.67, no.26, pp.7205-7222, 2019 (Journal Indexed in SCI)
- VIII. **Evaluation of some Turkish Salvia species by principal component analysis based on their vitamin B2, mineral composition, and antioxidant properties**
Gezek G., Hashemi P., Kalaycıoğlu Z., Kaygusuz H., Sarıoğlu G., Doker S., Dirmenci T., Erim F. B.
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.100, pp.287-293, 2019 (Journal Indexed in SCI)
- IX. **Electrochemical oxidation of curcuminoids: an experimental and computational investigation**
Kalaycıoğlu Z., Karadas N., Çınar M. E., Aysil Ozkan S., Ozer Unal D., Gölcü A., Berker F. B.
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.3, pp.834-853, 2019 (Journal Indexed in SCI)
- X. **alpha-Glucosidase enzyme inhibitory effects and ursolic and oleanolic acid contents of fourteen Anatolian Salvia species**
Kalaycıoğlu Z., Uzaşçı S., Dirmenci T., Erim F. B.
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.155, pp.284-287, 2018 (Journal Indexed in SCI)
- XI. **Aqueous Removal of Sodium Dodecyl Benzene Sulfonate (SDBS) by Crosslinked Chitosan Films**
Kahya N., KAYGUSUZ H., Erim F. B.
JOURNAL OF POLYMERS AND THE ENVIRONMENT, vol.26, no.5, pp.2166-2172, 2018 (Journal Indexed in SCI)
- XII. **A Direct and Sensitive Analysis Method for Biogenic Amines in Dairy Products by Capillary Electrophoresis Coupled with Contactless Conductivity Detection**
Adımcılar V., Öztekin N., Erim F. B.
FOOD ANALYTICAL METHODS, vol.11, no.5, pp.1374-1379, 2018 (Journal Indexed in SCI)
- XIII. **Adsorptive removal kinetics of anionic dye onto chitosan films doped with graphene oxide: An in situ fluorescence monitoring**
Kahya N., BENER S., KAYGUSUZ H., Evingur G. A., Erim F. B.
CHEMICAL ENGINEERING COMMUNICATIONS, vol.205, no.7, pp.881-887, 2018 (Journal Indexed in SCI)
- XIV. **Effect of Anionic Surfactant on Alginate-Chitosan Polyelectrolyte Multilayer Thickness**
Kaygusuz H., Micciulla S., Berker F. B., von Klitzing R.

JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS, vol.55, no.23, pp.1798-1803, 2017 (Journal Indexed in SCI)

- XV. **Antimicrobial cerium ion-chitosan crosslinked alginate biopolymer films: A novel and potential wound dressing**
KAYGUSUZ H., Torlak E., Akm-Evingur G., ÖZEN I., VON KLITZING R., Erim F. B.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.105, pp.1161-1165, 2017 (Journal Indexed in SCI)
- XVI. **Characterization of Turkish honeybee pollens by principal component analysis based on their individual organic acids, sugars, minerals, and antioxidant activities**
Kalaycıoğlu Z., KAYGUSUZ H., Doker S., KOLAYLI S., Erim F. B.
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- XVII. **Antimicrobial and physical properties of chitosan films incorporated with turmeric extract**
Kalaycıoğlu Z., Torlak E., Akin-Evingur G., ÖZEN I., Erim F. B.
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- XVIII. **Total phenolic contents, antioxidant activities, and bioactive ingredients of juices from pomegranate cultivars worldwide**
Kalaycıoğlu Z., Erim F. B.
FOOD CHEMISTRY, vol.221, pp.496-507, 2017 (Journal Indexed in SCI)
- XIX. **Microstructural and optical properties of SiO₂ glasses doped with ZnSe quantum dots and Nd³⁺ ions**
EL BOUKHARI T., KAYGUSUZ H., BILIR G., Erim F. B., Özen G.
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- XX. **Comparison of antioxidant, anticholinesterase, and antidiabetic activities of three curcuminoids isolated from *Curcuma longa* L.**
Kalaycıoğlu Z., Gazioglu I., Erim F. B.
NATURAL PRODUCT RESEARCH, vol.31, pp.2914-2917, 2017 (Journal Indexed in SCI)
- XXI. **Surfactant and metal ion effects on the mechanical properties of alginate hydrogels**
KAYGUSUZ H., Evingur G. A., Pekcan O., von Klitzing R., Erim F. B.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.92, pp.220-224, 2016 (Journal Indexed in SCI)
- XXII. **Methylene blue removal by alginate-clay quasi-cryogel beads**
Uyar G., KAYGUSUZ H., Erim F. B.
REACTIVE & FUNCTIONAL POLYMERS, vol.106, pp.1-7, 2016 (Journal Indexed in SCI)
- XXIII. **Analysis of Vitamin B₂ in Saffron Stigmas (*Crocus sativus* L) by Capillary Electrophoresis Coupled with Laser-Induced Fluorescence Detector**
HASHEMI P., Erim F. B.
FOOD ANALYTICAL METHODS, vol.9, no.8, pp.2395-2399, 2016 (Journal Indexed in SCI)
- XXIV. **Characterization of Anatolian honeys based on minerals, bioactive components and principal component analysis**
KAYGUSUZ H., Tezcan F., Erim F. B., YILDIZ O., Sahin H., Can Z., KOLAYLI S.
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- XXV. **Simultaneous Determination of Nitrate and Nitrite in Fish Products with Improved Sensitivity by Sample Stacking-Capillary Electrophoresis**
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- XXVI. **The sensitive capillary electrophoretic-LIF method for simultaneous determination of curcuminoids in turmeric by enhancing fluorescence intensities of molecules upon inclusion into (2-hydroxypropyl)-beta-cyclodextrin**
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- XXVIII. **Natural alginate biopolymer montmorillonite clay composites for vitamin B2 delivery**
KAYGUSUZ H., UYSAL M., Adımcılar V., Erim F. B.
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- XXX. **Removal of hexavalent chromium from aqueous solution by barium ion cross-linked alginate beads**
UZASCI S., TEZCAN F., Erim F. B.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.11, no.7, pp.1861-1868, 2014 (Journal Indexed in SCI)
- XXXI. **Gelation of PAAm-PVP composites: A fluorescence study**
Evingur G. A. , KAYGUSUZ H., Erim F. B. , Pekcan O.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.28, no.20, 2014 (Journal Indexed in SCI)
- XXXII. **Biopolymer-assisted synthesis of yttrium oxide nanoparticles**
Kaygusuz H., BILIR G., TEZCAN F., ERIM F. B. , OZEN G.
PARTICUOLOGY, vol.14, pp.19-23, 2014 (Journal Indexed in SCI)
- XXXIII. **Enhancement of native fluorescence intensity of berberine by (2-hydroxypropyl)-beta-cyclodextrin in capillary electrophoresis coupled by laser-induced fluorescence detection: Application to quality control of medicinal plants**
Uzaşçı S., Erim F. B.
JOURNAL OF CHROMATOGRAPHY A, vol.1338, pp.184-187, 2014 (Journal Indexed in SCI)
- XXXIV. **Effect of Calcium Ion Concentration on Small Molecule Desorption from Alginate Beads**
Evingur G. A. , KAYGUSUZ H., Erim F. B. , Pekcan O.
JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS, vol.53, no.7, pp.1157-1167, 2014 (Journal Indexed in SCI)
- XXXV. **Cation Effect on Slow Release from Alginate Beads: A Fluorescence Study**
KAYGUSUZ H., Erim F. B. , Pekcan O., Evingur G. A.
JOURNAL OF FLUORESCENCE, vol.24, no.1, pp.161-167, 2014 (Journal Indexed in SCI)
- XXXVI. **Recent analytical approaches to the analysis of biogenic amines in food samples**
Erim F. B.
TRAC-TRENDS IN ANALYTICAL CHEMISTRY, vol.52, pp.239-247, 2013 (Journal Indexed in SCI)
- XXXVII. **Determination of amino acids in pomegranate juices and fingerprint for adulteration with apple juices**
Tezcan F., Uzaşçı S., Uyar G., Öztekin N., Erim F. B.
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- XL. **Biocomposite films based on alginate and organically modified clay**
Tezcan F., GUNISTER E., OZEN G., ERIM F. B.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.50, no.4, pp.1165-1168, 2012 (Journal Indexed in SCI)
- XLI. **Biogenic Amines in Wines and Pomegranate Molasses-A Non-Ionic Micellar Electrokinetic**

Chromatography Assay with Laser-Induced Fluorescence Detection

Uzaşçı S., Başkan S., Erim F. B.

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- XLII. **Monitoring the gelation of polyacrylamide-sodium alginate composite by fluorescence technique**
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- XLIII. **Evaluation of organic acid, saccharide composition and antioxidant properties of some authentic Turkish honeys**
Tezcan F., KOLAYLI S., Ulusoy H. S., Erim F. B.
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- XLIV. **Comparative Study of Chemical and Biochemical Properties of Different Melon Cultivars: Standard, Hybrid, and Grafted Melons**
KOLAYLI S., Kara M., Tezcan F., Erim F. B., Sahin H., ULUSOY E., ALIYAZICIOĞLU R.
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.58, no.17, pp.9764-9769, 2010 (Journal Indexed in SCI)
- XLV. **Raman characterizations and structural properties of the binary TeO₂-WO₃. TeO₂-CdF₂ and ternary TeO₂-CdF₂-WO₃ glasses**
Tatar D., OZEN G., ERIM F. B., Öveçoğlu M. L.
JOURNAL OF RAMAN SPECTROSCOPY, vol.41, no.7, pp.797-807, 2010 (Journal Indexed in SCI)
- XLVI. **Non-ionic micellar electrokinetic chromatography with laser-induced fluorescence: A new method tested with biogenic amines in brined and dry-salted fish**
Baskan S., TEZCAN F., KÖSE S., Öztekin N., ERIM F. B.
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- XLVII. **Determination of NTBC in serum samples from patients with hereditary tyrosinemia type I by capillary electrophoresis**
CANSEVER M. S., AKTUĞLU-ZEYBEK A. C., Erim F. B.
TALANTA, vol.80, no.5, pp.1846-1848, 2010 (Journal Indexed in SCI)
- XLVIII. **Isolation and analysis of bioactive diterpenoids in Salvia species (Salvia chionantha and Salvia kronenburgii) by micellar electrokinetic capillary chromatography**
Öztekin N., Başkan S., KEPEKCI S. E., Erim F. B., TOPCU G.
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.51, no.2, pp.439-442, 2010 (Journal Indexed in SCI)
- XLIX. **Stacking in CE for Analysis of Bromate Flour Additive**
Öztekin N., AYDIN H. M., Erim F. B.
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- L. **Antioxidant activity and total phenolic, organic acid and sugar content in commercial pomegranate juices**
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FOOD CHEMISTRY, vol.115, no.3, pp.873-877, 2009 (Journal Indexed in SCI)
- LI. **On-line stacking techniques for the nonaqueous capillary electrophoretic determination of acrylamide in processed food**
Tezcan F., Erim F. B.
ANALYTICA CHIMICA ACTA, vol.617, pp.196-199, 2008 (Journal Indexed in SCI)
- LII. **NACE for the analysis of acrylamide in food**
Başkan S., Erim F. B.
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- LIII. **Determination of alginate copolymer in pharmaceutical formulations by micellar electrokinetic chromatography**
Oztekin N., Başkan S., Erim F. B.
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- LIV. **Analysis of anthraquinones in Rumex crispus by micellar electrokinetic chromatography**

- Başkan S., DAUT-OZDEMIR A., GÜNAYDIN K., Erim F. B.
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Başkan S., Oztekin N., Erim F. B.
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- LVI. **Effect of cationic surfactant adsorption on the rheological and surface properties of bentonite dispersions**
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- LVII. **CE determination of carbohydrates using a dipeptide as separation electrolyte**
GUEREL A., HIZAL J., OZTEKIN N., Erim F. B.
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- LVIII. **Effect of cetyltrimethylammonium bromide on the migration of polyaromatic hydrocarbons in capillary electrokinetic chromatography**
Belin G. K., Erim F. B., Guelacar F. O.
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OZTEKIN N., Erim F. B.
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- LXI. **Determination of urinary succinylacetone by capillary electrophoresis for the diagnosis of tyrosinemia type I**
CANSEVER M., Erim F. B.
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- LXV. **Direct determination of bromide ions in seawater by capillary zone electrophoresis using polyethyleneimine-coated capillaries**
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- LXIX. **Separation of positional isomers of aromatic anions by capillary electrophoresis using quaternized porphyrazine ion in aqueous solution**
KAVRAN G., AKKUS H., GUL A., Erim F. B.
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- LXX. **Determination of khellin and visnagin in Ammi visnaga fruits by capillary electrophoresis**
GUNAYDIN K., Erim F. B.
JOURNAL OF CHROMATOGRAPHY A, vol.954, pp.291-294, 2002 (Journal Indexed in SCI)
- LXXI. **Separation of polycyclic aromatic hydrocarbons with sodium dodecylbenzenesulfonate in electrokinetic chromatography**
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- LXXII. **Simultaneous determination of nitrite and nitrate in meat products and vegetables by capillary electrophoresis**
OZTEKIN N., NUTKU M., Erim F. B.
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- LXXIII. **Separation and direct UV detection of lanthanides complexed with pyridine-2-carboxylic acid by capillary electrophoresis**
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- LXXV. **Separation and direct UV detection of lanthanides complexed with cupferron by capillary electrophoresis**
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JOURNAL OF CHROMATOGRAPHY A, vol.895, pp.263-268, 2000 (Journal Indexed in SCI)
- LXXVI. **Polyethyleneimine-coated capillary electrophoresis capillaries for the analysis of organic acids with an application to beverages**
NUTKU M., Erim F. B.
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- LXXVII. **Determination of metal ions by capillary electrophoresis using pre-column complexation with 1,10-phenanthroline**
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- LXXVIII. **Formation of phenoxyacetate complexes of rare earth metal cations**
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- LXXIX. **The use of cationic polymer for the separation of inorganic anions by capillary electrophoresis**
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HRC-JOURNAL OF HIGH RESOLUTION CHROMATOGRAPHY, vol.21, no.9, pp.505-508, 1998 (Journal Indexed in SCI)
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ERIM F., Alemdar I.
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- LXXXI. **Vacancy affinity capillary electrophoresis to study competitive protein-drug binding**
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- LXXXIII. **Formation of phenolate complexes of some first-row transition metal cations**
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