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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAC-1524-2021

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü,, Metalurji Mühendisliği Anabilim Dalı, Turkey 1992 - 1999

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (YI) (Tezli), Turkey 1989 - 1992

Undergraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey 1985 - 1989

Foreign Languages

German

Dissertations

Postgraduate, Bakır rafinasyon fırınlarında curuf bileşiminin refrakter korozyonuna etkisi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (YI) (Tezli), 1992

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Chemical and Electrochemical Properties, Nanomaterials, Production Metallurgy, Non-Ferrous Alloy Production, Electrometallurgy, Recycling Processes, Hydrometallurgy, Powder Metallurgy, Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 2010 - Continues

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 2007 - 2013

Advising Theses

Gürmen S., Demir (Fe) katkılı manyetik jel üretimi ve atık NdFeB esaslı çözeltilerden neodimyum (Nd) geri kazanımı, Postgraduate, E.UYSAL(Student), 2023

Gürmen S., Karahan B. D., DEVELOPMENT OF IRON-RICH ANODE MATERIALS FOR LITHIUM-ION BATTERY TECHNOLOGY FROM LOCAL FeCr ALLOYS, Postgraduate, M.FERYAT(Student), 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Recycling of NdFeB magnets: Model supported iron minimization via in-situ hydrolysis during leaching and hematite precipitation in an autoclave**
Emil-Kaya E., Kaya O., Stopic S., Gürmen S., Friedrich B.
Hydrometallurgy, vol.222, 2023 (SCI-Expanded)
- II. **Development of hydrogen reduction method for La-Fe-Si materials from oxalate precursors**
Ateş S., Karaağaç Ö., Köçkar H., Gürmen S.
CANADIAN METALLURGICAL QUARTERLY, vol.1, no.1, pp.1, 2023 (SCI-Expanded)
- III. **Comparison of production of mixed rare earth oxide (Nd/Pr oxide) powders by different precipitation agents from NdFeB magnets' water leaching**
Emil E., Uysal E., Gürmen S.
CANADIAN METALLURGICAL QUARTERLY, vol.1, no.1, pp.1, 2023 (SCI-Expanded)
- IV. **Pulse ultrasonication leaching approach for selective Li leaching from spent LFP cathode material**
Uysal E., Yeşiltepe Özçelik D., Gürmen S.
CANADIAN METALLURGICAL QUARTERLY, vol.1, no.1, pp.1, 2023 (SCI-Expanded)
- V. **Nd Recovery from Wastewater with Magnetic Calcium Alginate ((1,4)- β -d-Mannuronic Acid and α -L-Guluronic Acid) Hydrogels**
Uysal E., Emil E., Yeşiltepe Özçelik D., Gürmen S.
ACS OMEGA, vol.1, no.1, pp.1-17, 2023 (SCI-Expanded)
- VI. **The production of pH indicator Ca and Cu alginate ((1,4)- β -d-mannuronic acid and α -l-guluronic acid) cryogels containing anthocyanin obtained via red cabbage extraction for monitoring chicken fillet freshness**
Dikmetaş D. N., Uysal E., Karbancıoğlu Güler H. F., Gürmen S.
International Journal of Biological Macromolecules, vol.231, 2023 (SCI-Expanded)
- VII. **Recycling of NdFeB magnets employing oxidation, selective leaching, and iron precipitation in an autoclave**
Emil-Kaya E., Polat B., Stopic S., Gürmen S., Friedrich B.
RSC Advances, vol.13, no.2, pp.1320-1332, 2023 (SCI-Expanded)
- VIII. **Hydrometallurgical recycling of waste NdFeB magnets: design of experiment, optimisation of low concentrations of sulphuric acid leaching and process analysis**
Uysal E., Al S., Emil-Kaya E., Stopic S., Gürmen S., Friedrich B.
CANADIAN METALLURGICAL QUARTERLY, vol.62, no.1, pp.107-118, 2023 (SCI-Expanded)
- IX. **Porous, columnar shaped iron rich oxide synthesis for lithium-ion batteries from metallurgical grade, domestic, high carbon ferro-chromium alloys**
Gülcan M. F., Karahan B. D., Gürmen S.
Journal of Alloys and Compounds, vol.922, 2022 (SCI-Expanded)
- X. **Production of rare earth element oxide powders by solution combustion: a new approach for recycling of NdFeB magnets**
Emil-Kaya E., Stopic S., Gürmen S., Friedrich B.

RSC ADVANCES, vol.12, no.48, pp.31478-31488, 2022 (SCI-Expanded)

- XI. **Recovery of Rare Earth Elements from Spent NdFeB-Magnets: Separation of Iron through Reductive Smelting of the Oxidized Material (Second Part)**
Chung H., Stopic S., Emil-Kaya E., Gürmen S., Friedrich B.
METALS, vol.12, no.10, 2022 (SCI-Expanded)
- XII. **Recovery of Rare Earth Elements through Spent NdFeB Magnet Oxidation (First Part)**
Stopic S., Polat B., Chung H., Emil-Kaya E., Smiljanic S., Gürmen S., Friedrich B.
METALS, vol.12, no.9, 2022 (SCI-Expanded)
- XIII. **Synthesis of calcium, copper and iron alginate hydrogels doped with Ag nanoparticles produced by chemical reduction method**
Uysal E., Ateş S., Safaltın Ş., Dikmetaş D. N., Devocioğlu D., Karbancıoğlu Güler H. F., Gürmen S.
MATERIALS CHEMISTRY AND PHYSICS, vol.281, 2022 (SCI-Expanded)
- XIV. **Synthesis, structural and magnetic characterization of spherical high entropy alloy CoCuFeNi particles by hydrogen reduction assisted ultrasonic spray pyrolysis**
Kucukelyas B., Safaltın Ş., Sam E. D., Gürmen S.
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.113, pp.306-315, 2022 (SCI-Expanded)
- XV. **Mixed Oxides NiO/ZnO/Al₂O₃ Synthesized in a Single Step via Ultrasonic Spray Pyrolysis (USP) Method**
Yeşiltepe Özçelik D., Ebin B., Stopic S., Gürmen S., Friedrich B.
METALS, vol.12, pp.73, 2022 (SCI-Expanded)
- XVI. **Performance comparison of FeNiCo, FeNiCu and FeNiCoCu alloy particles as catalyst material for polymer electrolyte membrane fuel cells**
Ateş S., Tari D., Safaltın Ş., Kucukelyas B., Yeşiltepe Özçelik D., Gürmen S.
REACTION KINETICS MECHANISMS AND CATALYSIS, vol.134, no.2, pp.811-822, 2021 (SCI-Expanded)
- XVII. **One Step Production of Silver-Copper (AgCu) Nanoparticles**
Koroglu M., Ebin B., Stopic S., Gürmen S., Friedrich B.
METALS, vol.11, no.9, 2021 (SCI-Expanded)
- XVIII. **NdFeB Magnets Recycling Process: An Alternative Method to Produce Mixed Rare Earth Oxide from Scrap NdFeB Magnets**
Kaya E. E., Kaya O., Stopic S., Gürmen S., Friedrich B.
METALS, vol.11, no.5, 2021 (SCI-Expanded)
- XIX. **Leaching of iron and chromium from an indigenous ferro chromium alloy via a rotary evaporator: optimum conditions determination and kinetic analysis**
Gulcan M. F., Karahan B. D., Gürmen S.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.9, no.6, pp.14103-14115, 2020 (SCI-Expanded)
- XX. **Molecular dynamics simulation of size, temperature, heating and cooling rates on structural formation of Ag-Cu-Ni ternary nanoparticles (Ag-34-Cu-33-Ni-33)**
Safaltın Ş., Gürmen S.
COMPUTATIONAL MATERIALS SCIENCE, vol.183, 2020 (SCI-Expanded)
- XXI. **Novel Strategy for One-Step Production of Attenuated Ag-Containing AgCu/ZnO Antibacterial-Antifungal Nanocomposite Particles**
Cakmak T., Kaya E. E., Kucuk D., Ebin B., BALCI O., Gürmen S.
POWDER METALLURGY AND METAL CERAMICS, vol.59, pp.261-270, 2020 (SCI-Expanded)
- XXII. **Fabrication and characterization of Yb-doped Y₂O₃ powders and thin films**
Kaya E. E., Unal F., Kazmanli K., Gürmen S.
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.111, no.7, pp.559-566, 2020 (SCI-Expanded)
- XXIII. **Recovery of Diamond and Cobalt Powder from Polycrystalline Drawing Die Blanks via Ultrasound-Assisted Leaching Process-Part 1: Process Design and Efficiencies**
Kiessling F., Stopic S., Gürmen S., Friedrich B.
METALS, vol.10, no.6, 2020 (SCI-Expanded)

- XXIV. **Recovery of Diamond and Cobalt Powders from Polycrystalline Drawing Die Blanks via Ultrasound Assisted Leaching Process-Part 2: Kinetics and Mechanisms**
Kiessling F., Stopic S., Gürmen S., Friedrich B.
METALS, vol.10, no.6, 2020 (SCI-Expanded)
- XXV. **New Proposal for Size and Size-Distribution Evaluation of Nanoparticles Synthesized via Ultrasonic Spray Pyrolysis Using Search Algorithm Based on Image-Processing Technique**
Kaya E. E., Kaya O., Alkan G., Gürmen S., Stopic S., Friedrich B.
MATERIALS, vol.13, no.1, 2020 (SCI-Expanded)
- XXVI. **A straightforward approach for the synthesis of nanostructured Y2O3 particles: Synthesis, morphology, microstructure and crystal imperfection**
Kaya E. E., Gürmen S.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.115, 2020 (SCI-Expanded)
- XXVII. **Oxidative degradation of Bisphenol A by carbocatalytic activation of persulfate and peroxymonosulfate with reduced graphene oxide**
Olmez-Hanci T., Arslan-Alaton I., Gürmen S., GAFARLI I., Khoei S., Safaltın Ş., Yesiltepe Ozcelik D.
Journal of Hazardous Materials, vol.360, pp.141-149, 2018 (SCI-Expanded)
- XXVIII. **Tuning the Morphology of ZnO Nanostructures with the Ultrasonic Spray Pyrolysis Process**
Emil E., Alkan G., Gürmen S., Rudolf R., Jenko D., Friedrich B.
METALS, vol.8, no.8, 2018 (SCI-Expanded)
- XXIX. **Estimation of yttrium oxide microstructural parameters using the Williamson-Hall analysis**
EMİL E., Gürmen S.
MATERIALS SCIENCE AND TECHNOLOGY, vol.34, no.13, pp.1549-1557, 2018 (SCI-Expanded)
- XXX. **Synthesis, structural and magnetic characterization of soft magnetic nanocrystalline ternary FeNiCo particles**
Toparli C., Ebin B., Gürmen S.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.423, pp.133-139, 2017 (SCI-Expanded)
- XXXI. **Synthesis structural and magnetic characterization of soft magnetic nanocrystalline ternary FeNiCo particles**
Toparli Ç., Ebin B., Gürmen S.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.423, pp.133-139, 2017 (SCI-Expanded)
- XXXII. **Single Step Production of Nanostructured Copper Nickel CuNi and Copper Nickel Indium CuNiIn Alloy Particles**
Apaydın R. O., Ebin B., Gürmen S.
Metallurgical and Materials Transactions A, vol.47, no.7, pp.3744-3752, 2016 (SCI-Expanded)
- XXXIII. **Preparation and electrochemical properties of nanocrystalline LiBxMn2 xO4 cathode particles for Li ion batteries by ultrasonic spray pyrolysis method**
Burçak E., Göran L., Gürmen S.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.620, pp.399-406, 2015 (SCI-Expanded)
- XXXIV. **Comparison of 4 V and 3 V electrochemical properties of nanocrystalline LiMn2O4 cathode particles in lithium ion batteries prepared by ultrasonic spray pyrolysis**
Ebin B., BATTAGLIA V., Gürmen S.
CERAMICS INTERNATIONAL, vol.40, no.5, pp.7029-7035, 2014 (SCI-Expanded)
- XXXV. **Photocatalytic studies of Ag/ZnO nanocomposite particles produced via ultrasonic spray pyrolysis method**
Dermenci K. B., GENÇ B., EBİN B., OLMEZ-HANCI T., Gürmen S.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.586, pp.267-273, 2014 (SCI-Expanded)
- XXXVI. **Preparation and electrochemical properties of spinel LiFexCuyMn1.2O4 by ultrasonic spray pyrolysis**
Ebin B., Gürmen S., Lindbergh G.
CERAMICS INTERNATIONAL, vol.40, no.1, pp.1019-1027, 2014 (SCI-Expanded)
- XXXVII. **Reduction and characterizations of iron particles: influence of reduction parameters**

- Karaagac O., Kockar H., EBIN B., Gürmen S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.24, no.7, pp.2602-2609, 2013 (SCI-Expanded)
- XXXVIII. **Simple preparation of CuO nanoparticles and submicron spheres via ultrasonic spray pyrolysis (USP)**
Ebin B., Gencer O., Gürmen S.
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.104, no.2, pp.199-206, 2013 (SCI-Expanded)
- XXXIX. **Production of nanocrystalline silver particles by hydrogen reduction of silver nitrate aerosol droplets**
Ebin B., Yazıcı E., Gürmen S.
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.23, no.3, pp.841-848, 2013 (SCI-Expanded)
- XL. **Preparation and magnetic characterization of Fe metal oxide nanocomposite particles by means of hydrogen reduction assisted ultrasonic spray pyrolysis USP HR**
Ebin B., Toparli Ç., KAZMANLI M. K., Gürmen S.
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.104, no.5, pp.483-488, 2013 (SCI-Expanded)
- XLI. **Electrochemical properties of nanocrystalline $\text{LiCuxMn}_{2-x}\text{O}_4$ ($x=0.2-0.6$) particles prepared by ultrasonic spray pyrolysis method**
Ebin B., Gürmen S., Lindbergh G.
MATERIALS CHEMISTRY AND PHYSICS, vol.136, pp.424-430, 2012 (SCI-Expanded)
- XLII. **Electrochemical properties of nanocrystalline $\text{LiFexMn}_{2-x}\text{O}_4$ ($x=0.2-1.0$) cathode particles prepared by ultrasonic spray pyrolysis method**
EBIN B., Gürmen S., Arslan C., Lindbergh G.
ELECTROCHIMICA ACTA, vol.76, pp.368-374, 2012 (SCI-Expanded)
- XLIII. **Production and characterization of ZnO nanoparticles and porous particles by ultrasonic spray pyrolysis using a zinc nitrate precursor**
Ebin B., ARIG E., ÖZKAL B., Gürmen S.
INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS, vol.19, no.7, pp.651-656, 2012 (SCI-Expanded)
- XLIV. **Production and characterization of the wrinkled pea-like ZnO Particles by ultrasonic spray pyrolysis method using zinc acetate precursor**
Ebin B., Arig E., Özkal B., Gürmen S.
Metall, vol.65, no.12, pp.578-582, 2011 (SCI-Expanded)
- XLV. **Synthesis and Characterization of Nickel Particles by Hydrogen Reduction Assisted Ultrasonic Spray Pyrolysis USP HR Method**
Ebin B., Gürmen S.
KONA POWDER AND PARTICLE JOURNAL, vol.0, no.29, pp.134-140, 2011 (SCI-Expanded)
- XLVI. **Production and characterization of the nanostructured hollow iron oxide spheres and nanoparticles by aerosol route**
Gürmen S., EBIN B.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.492, pp.585-589, 2010 (SCI-Expanded)
- XLVII. **Synthesis of nano-crystalline spherical cobalt-iron (Co-Fe) alloy particles by ultrasonic spray pyrolysis and hydrogen reduction**
Gürmen S., GUVEN A., EBIN B., STOPIC S., FRIEDRICH B.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.481, pp.600-604, 2009 (SCI-Expanded)
- XLVIII. **Nanocrystalline spherical iron-nickel (Fe-Ni) alloy particles prepared by ultrasonic spray pyrolysis and hydrogen reduction (USP-HR)**
Gürmen S., EBIN B., STOPIC S., FRIEDRICH B.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.480, no.2, pp.529-533, 2009 (SCI-Expanded)
- XLIX. **Synthesis of nanosized spherical cobalt powder by ultrasonic spray pyrolysis**
Guermen S., STOPIC S., FRIEDRICH B.
MATERIALS RESEARCH BULLETIN, vol.41, no.10, pp.1882-1890, 2006 (SCI-Expanded)

- L. **The behavior of organic components in copper recovery from electroless plating bath effluents using 3D electrode systems**
Orhan G., GURMEN S., Timur S. İ.
JOURNAL OF HAZARDOUS MATERIALS, vol.112, no.3, pp.261-267, 2004 (SCI-Expanded)
- LI. **Studies on leaching of massive rich copper ore in acidic ferric sulfate solutions**
Arslan F., BULUT G., KANGAL M. O., PEREK K. T., GUL A., Gurmen S.
SCANDINAVIAN JOURNAL OF METALLURGY, vol.33, no.1, pp.6-14, 2004 (SCI-Expanded)
- LII. **A laboratory-scale investigation of alkaline zinc electrowinning**
Gurmen S., EMRE M.
MINERALS ENGINEERING, vol.16, no.6, pp.559-562, 2003 (SCI-Expanded)
- LIII. **Tungsten powder production from scheelite concentrates**
GÜRMEŒ S., Timur S. İ., ORHAN G.
METALS, vol.57, no.12, pp.789-793, 2003 (SCI-Expanded)
- LIV. **Gewinnung von Kupfer und Zink aus Fällprodukten**
GURMEN S., TIMUR S. İ., Duman İ.
METALL, vol.1, pp.40-44, 2003 (SCI-Expanded)
- LV. **Production of pure tungsten oxide from scheelite concentrates**
Gurmen S., Timur S. İ., Arslan C., Duman İ.
SCANDINAVIAN JOURNAL OF METALLURGY, vol.31, no.3, pp.221-228, 2002 (SCI-Expanded)
- LVI. **Extraction of copper and zinc from precipitates**
GÜRMEŒ S., Timur S. İ., DUMAN İ.
METALS, vol.57, pp.40-44, 2002 (SCI-Expanded)
- LVII. **Acidic leaching of scheelite concentrate and production of hetero-poly-tungstate salt**
Gurmen S., Timur S. İ., Arslan C., Duman İ.
HYDROMETALLURGY, vol.51, no.2, pp.227-238, 1999 (SCI-Expanded)

Articles Published in Other Journals

- I. **Lab-scale chromium electrowinning in a diaphragm-type cell: effect of anode material and the head between the catholyte and anolyte levels (Δh)**
Arslan C., Gürmen S., Arslan F., Elçin G. A. O.
SCIREA Journal of Metallurgical Engineering, vol.5, no.1, pp.1-14, 2022 (Peer-Reviewed Journal)
- II. **NiO/ZnO Nanokompozit Partiküllerinin Sol-Jel Tekniđi İle Üretimi**
YEŞİLTEPE D., GÜRMEŒ S.
Gazi Mühendislik Bilimleri Dergisi, vol.4, no.1, pp.9-15, 2018 (Peer-Reviewed Journal)
- III. **FeNiCoCu Yüksek Entropi Alaşım Nano Partiküllerin Aeresol Tekniđi İle Üretimi**
KÜÇÜKELYAS B., SAFALTIN Ş., GÜRMEŒ S.
Metalurji Dergisi, 2017 (Non Peer-Reviewed Journal)
- IV. **Ni/ZnO ve NiO/ZnO Nanokompozit Partiküllerinin Üretimi: Ultrasonik Sprey Piroiliz (USP) Tekniđi**
YEŞİLTEPE D., GÜRMEŒ S.
Metalurji Dergisi, 2016 (Peer-Reviewed Journal)
- V. **DEMİR GRUBU (FeNiCo) ALAŞIM NANO PARTİKÜLLERİNİN YAKIT HÜCRELERİNDE KULLANIMINA YÖNELİK ELEKTROT TASARIMI VE MODELLEME ÇALIŞMALARI**
Safaltın Ş., Küçükelyas B., İslamođlu M., Toparlı Ç., Gürmen S.
Metalurji Dergisi, no.176, pp.26-32, 2015 (Non Peer-Reviewed Journal)
- VI. **Antibakteriyel ve Antifungal Özellikte Gümüş İçeriđi Azaltılmış Bakır (Cu)Gümüş (Ag)/Çinkooksit (ZnO) Nanokompozit Partiküllerinin Üretimi ve Karakterizasyonu**
Çakmak T., EMİL E., Ebin B., BALCI O., GÜRMEŒ S.
Metalurji Dergisi, 2015 (Peer-Reviewed Journal)
- VII. **Antibakteriyel Nanokristalin Gümüş Partiküllerinin Ultrasonik Sprey Piroiliz (USP) Tekniđi**

Kullanılarak Üretimi ve Karakterizasyonu

GÜRME S., Ebin B., ÖZKAL B.

Metalurji Dergisi, 2009 (Peer-Reviewed Journal)

- VIII. **Nanopartiküller ve Üretim Yöntemleri – 2 (Nanoyapılı Demir ve Bakır Partiküllerinin Ultrasonik Sprey Piroliz ve Hidrojen Redüksiyonu Yöntemi ile Üretimi)**
GÜRME S., Ebin B.
Metalurji Dergisi, 2008 (Peer-Reviewed Journal)
- IX. **Nanopartiküller ve Üretim Yöntemleri – 1**
GÜRME S., Ebin B.
Metalurji Dergisi, 2008 (Peer-Reviewed Journal)
- X. **Recovery of Nano-Sized Cobalt Powder from Cemented Carbide Scrap**
GÜRME S.
Turkish J. Eng. Env. Sci., vol.29, pp.343-350, 2005 (Peer-Reviewed Journal)
- XI. **Copper refining electrolysis at high current densities**
Gürmen S., Orhan G., Arslan C., Timur S.
Bulletin of the Technical University of Istanbul, vol.54, no.2, pp.40-44, 2004 (Scopus)
- XII. **Baskı Devrelerin Geri Kazanımı**
Emre M., GURMEN S., TIMUR S. İ., Duman İ.
meta dünyası, 1999 (Peer-Reviewed Journal)
- XIII. **Elektronik Hurdaların Değerlendirilmesinde Yeni Bir Proses**
GURMEN S., Duman İ.
metal dünyası, no.65, pp.70-72, 1998 (Peer-Reviewed Journal)
- XIV. **Elektronik Hurdaların Hazırlanmasında Yeni Bir Proses**
GÜRME S., DUMAN İ.
Metal Dünyası, 1998 (Peer-Reviewed Journal)
- XV. **İkincil Demir-Dışı Hammaddelerin Değerlendirilmesi**
GURMEN S., Duman İ.
metal dünyası, pp.54-56, 1998 (Peer-Reviewed Journal)
- XVI. **Einwirkung der Schlackenzusammensetzung auf das Korrosionsverhalten der feuerfesten Steine in den Kupferraffinationsöfen**
GURMEN S., Duman İ.
Keramische Zeitschrift, no.49, pp.14-18, 1997 (Peer-Reviewed Journal)
- XVII. **Norddeutsche Affineri Üzerine Genel Bir Bakış**
GURMEN S., Duman İ.
Metal Dünyası, no.37, pp.69-74, 1996 (Peer-Reviewed Journal)
- XVIII. **Norddeutsche Affinerie Üzerine Genel Bir Bakış**
GÜRME S., DUMAN İ.
Metal Dünyası, 1996 (Peer-Reviewed Journal)
- XIX. **Alüminyum Hurdalarının Geri Kazanılması**
ÜNLÜ N., GÜRME S., ALTIŞOĞLU A., ERUSLU M. N.
Metalurji, pp.74-78, 1994 (Peer-Reviewed Journal)
- XX. **Sementit Karbür Esaslı Malzemelerin Toz Metalurjisi ile Üretimi**
GÜRME S., Öveçoğlu M. L.
Metal Dünyası, 1993 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Nanotechnology: Synthesis and characterization of Nanocrystalline Nickel/Zinc Oxide Particles By Ultrasonic Spray Pyrolysis**
Koç İ., Ebin B., GÜRME S.

in: Processing and Properties of Advanced Ceramics and Composites V: Ceramic Transactions, Bansal, N.P., Singh, J.P., Ko, S., Castro, R., Pickrell, G., Manjooran, N.J., Nair, M. ve Singh, G., Editor, John Wiley and Sons Inc., pp.239-246, 2013

II. Nanotechnology: Iron–Nickel–Cobalt (Fe–Ni–Co) Alloy Particles Prepared by Ultrasonic Spray Pyrolysis and Hydrogen Reduction (USP-HR) Method

Toparlı Ç., Ebin B., GÜRMEEN S.

in: Processing and Properties of Advanced Ceramics and Composites V: Ceramic Transactions, Bansal, N. P., Singh, J. P., Ko, S., Castro, R., Pickrell, G., Manjooran, N. J., Nair, M. ve Singh, G., Editor, John Wiley and Sons Inc., pp.247-255, 2013

Refereed Congress / Symposium Publications in Proceedings

- I. **Comparison of Methods to Produce Rare Earth Oxide from Scrap NdFeB Magnets**
Emil E., Stopic S., Gürmen S., Freidrich B.
Materials Science and Engineering Congress (MSE2022), Darmstadt, Germany, 27 - 29 September 2022, pp.1
- II. **Pyrometallurgical Recovery of Rare Earth Elements from oxidized spent NdFeB-magnets via Carbothermic Reduction**
Chung H., Stopic S., Emil E., Gürmen S., Freidrich B.
International solvent extraction conference- ISEC 2022, Gothenburg, Sweden, 26 - 30 September 2022, pp.1
- III. **EFFECT OF CALCINATION TEMPERATURE ON $MgAl_2O_4$ NANOPARTICLES PRODUCTION BY SOL-GEL METHOD**
Yeşiltepe Özçelik D., Gürmen S.
21 International Metallurgy and Materials Congress, İstanbul, Turkey, 6 - 08 October 2022, pp.653
- IV. **IRON REMOVAL FROM NDFEB WASTE MAGNET SOLUTIONS USING SODIUM ALGINATE SOLUTION**
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- CV. Preparation of Silver Nanoparticles from Ultrasonic Spray Pyrolysis of Aqueous Silver Nitrate Solution**
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- CVII. Effect of Mechanical Alloying on the Sintering Behavior of WC-Co Hardmetal System**
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- CVIII. Preparation of Nanostructured Iron Particles via Ultrasonic Spray Pyrolysis and Hydrogen Reduction**
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- CIX. Preparation and characterization of magnetic cobalt nanoparticles synthesized by ultrasonic spray pyrolysis of cobalt chloride precursor**
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- CX. Synthesis of Nanosized Nickel powder by USP**
Ebin B., GÜRME S.
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- CXV. Preparation and characterization of cobalt and silver nanoparticles synthesized by ultrasonic spray pyrolysis**
GÜRME S., Stopic S., Friedrich B.
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- CXVI. Synthesis of Fe, Co and Ni powders via ultrasonic spray pyrolysis and hydrogen reduction method**
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- CXXII. Production of nano-sized cobalt powder via ultrasonic spray pyrolysis (USP) hydrogen reduction method and chracterization**
GÜRME S., ÖZKAL B.
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Kahveci Karıncaoğlu D., SİRKECİ C. B., YAVUZ E., Devocioğlu D., Gürmen S., Karbancıoğlu Güler H. F., DEMİRÖZ A., Uysal E., EKMEKÇİ H., DEMİR M., et al, Project Supported by Higher Education Institutions, Endüstriyel Portakal Suyu Atıklarından Geri Kazanılan Biyoaktif Maddelerin Hidrojel ve Nanolif Temelli Yara Örtülerinde Kullanılabilirliğinin Araştırılması, 2022 -

Continues

Gürmen S., Yeşiltepe Özçelik D., Project Supported by Higher Education Institutions, Spinel Yapılı Nanokompozit Tozların Üretimi ve Karakterizasyonu, 2022 - Continues

Gürmen S., TUBITAK Project, Lityum İyon Pil Teknolojisine Yönelik Eğik Açılı Elektronik Demeti Buharlaştırma Yöntemiyle Dereceli Olarak Bileşimi Değişen Gözenekli Şekilli CuSi İnce Film Anotların Üretimi Ve Karakterizasyonu, 2014 - Continues

Gürmen S., TÜBİTAK International Multi-Cooperation Project, Sustainable Recovery of Rare Earth Elements (Nd, Dy,Pr) from spent NdFeB magnets, 2021 - 2023

Karahan B. D. P., Gürmen S., TUBITAK Project, Development of Metal Doped Fe₂O₃-Cr₂O₃ Composite Powders Decorated with Al₂O₃ from Domestic Fe-Cr Alloys as Anode Materials for Lithium-Ion Batteries, 2019 - 2021

Gürmen S., TUBITAK Project, Soğutma Sektörüne Yönelik LaFeSi Temelli Manyetokalorik Malzeme Üretimi, 2019 - 2020

Gürmen S., Safaltın Ş., Project Supported by Higher Education Institutions, Moleküler Dinamik Simülasyon MDS Yöntemi İle AgCuNi Üçlü Alaşım Partiküllerinin Faz Davranışlarının ve Yapısal Özelliklerinin İncelenmesi, 2018 - 2019

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Gürmen S., Project Supported by Higher Education Institutions, Preparation of Zinc Oxide Nanostructures From Zinc Sulfate and Zinc Nitrate Precursor, 2009 - 2018

Gürmen S., Project Supported by Higher Education Institutions, Sementit Karbür Hurdalardan Asidik Liç Yöntemiyle Mikronaltı Kobalt Tozu Geri Kazanımı, 2005 - 2018

Gürmen S., Project Supported by Higher Education Institutions, Yakıt Hücresi Elektrotları için Elektrokatalist Metalik Nanopartiküllerin Tasarımı ve Matematiksel Modellemesi, 2016 - 2017

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Gürmen S., Project Supported by Higher Education Institutions, CuAg/ZnO Nanokompozit Partiküllerinin Üretimi, 2015 - 2016

Gürmen S., TUBITAK Project, Antifungal Ve Antibakteriyel Özellikte Bakır Gümüş Çinko Oksit CuAg ZnO Nanokompozit Partiküllerinin Üretimi Ve Tekstil Endüstrisinde Katma Değerli Ürün Eldesinde Kullanımı, 2014 - 2016

Gürmen S., Project Supported by Higher Education Institutions, Nikelalüminat Nanopartiküllerinin Üretimi, 2014 - 2015

Gürmen S., Project Supported by Higher Education Institutions, Lityum İyon Pilleri için Nano yapı ve Yüksek Kapasiteli Katot Malzemelerinin Aerosol Tekniği İle Üretimi, 2013 - 2014

Gürmen S., Project Supported by Higher Education Institutions, Ni/ZnO Nanokompozit Partiküllerinin Ultrasonik Sprey Piroliz Tekniği ile Üretimi, 2013 - 2013

Gürmen S., Project Supported by Higher Education Institutions, FeNiCo Alaşım Nano Partiküllerinin Ultrasonik Sprey Piroliz Ve Hidrojen Redüksiyonu Tekniği İle Üretimi, 2013 - 2013

Gürmen S., Project Supported by Higher Education Institutions, Bakır-İndiyum (CuIn) Nano Partiküllerinin Ultrasonik Sprey Piroliz (USP) ve Hidrojen Redüksiyonu (HR) Yöntemi ile Üretilmesi ve Karakterizasyonu, 2013 - 2013

Gürmen S., Project Supported by Higher Education Institutions, Nano Yapıda PbO Üretimi ve Karakterizasyonu, 2012 - 2013

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Gürmen S., Project Supported by Higher Education Institutions, Ag/ZnO Nanokompozit Partiküllerinin Üretimi ve Tekstil Endüstrisi Atık Sularında Kullanımı, 2012 - 2012

Gürmen S., Project Supported by Higher Education Institutions, Lityum İyon Piller için Metal Oksit Esaslı Nanopartiküllerin Üretimi, 2009 - 2011

Gürmen S., Project Supported by Higher Education Institutions, Nano Yapıda Çinko Oksit Partiküllerin Üretimi ve Karakterizasyonu, 2009 - 2010

Gürmen S., Project Supported by Higher Education Institutions, Ultrasonik Sprey Piroliz Tekniği İle Gümüş ve Günüşoksit Nanopartiküllerinin Üretimi, 2008 - 2009

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Gürmen S., Project Supported by Higher Education Institutions, EAF Baca Tozlarından Çinko Geri Kazanım ve Proses Optimizasyonu, 2002 - 2005

Metrics

Publication: 223

Citation (WoS): 431

Citation (Scopus): 843

H-Index (WoS): 12

H-Index (Scopus): 16

Non Academic Experience

IME / RWTH Aachen Üniversitesi

IME RWTH Aachen University

IME / RWTH Aachen University