

## Prof. Ata Utku AKÇIL

### Personal Information

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### Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Müden Mühendisliği (Cevher Hazırlama), Turkey Continues

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Cevher Hazırlama (YI) (Tezli), Turkey Continues

Undergraduate, Dokuz Eylul University, Mühendislik-Mimarlık Fakültesi, Maden Mühendisliği, Turkey Continues

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Recovery of Gold from Izmir - Karsiyaka (Arapdagı) Epithermal Deposits, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Maden Mühendisliği Cevher Hazırlama , 1999

Postgraduate, Production Technology and Beneficiation of Ulexite Ores by Calcination - Classification Method, Dokuz Eylul University, Institute Of Science, 1994

### Research Areas

Mining Engineering and Technology, Ore-Dressing, Chemical-Biological Winning Techniques and Mineral Processing, Engineering and Technology

### Academic Titles / Tasks

Professor, Suleyman Demirel University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2010 - Continues

Associate Professor, Suleyman Demirel University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2005 - 2010

Assistant Professor, Suleyman Demirel University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 1999 - 2005

Research Assistant, Suleyman Demirel University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 1992 - 1999

Research Assistant, Akdeniz University, Faculty Of Engineering, 1992 - 1992

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

- I. **Biotechnological Avenues in Mineral Processing: Fundamentals, Applications and Advances in Bioleaching and Bio-beneficiation**  
MISHRA S., PANDA S., Akcil A., Dembele S.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, 2022 (Journal Indexed in SCI)
- II. **Technological trends, emerging applications and metallurgical strategies in antimony recovery from stibnite**  
Dembele S., Akcil A., PANDA S.  
MINERALS ENGINEERING, vol.175, 2022 (Journal Indexed in SCI)
- III. **A Review on Chemical versus Microbial Leaching of Electronic Wastes with Emphasis on Base Metals Dissolution**  
MISHRA S., PANDA S., Akcil A., Dembele S., AĞCASULU İ.  
MINERALS, vol.11, no.11, 2021 (Journal Indexed in SCI)
- IV. **Rare Earth Element Preconcentration from Various Primary and Secondary Sources by Polymeric Ion Exchange Resins**  
Rychkov V., Kirillov E., Kirillov S., Bunkov G., Botalov M., Semenishchev V., Smyshlyaev D., Malyshev A., Taukin A., Akcil A.  
SEPARATION AND PURIFICATION REVIEWS, 2021 (Journal Indexed in SCI)
- V. **Biotechnological trends and market impact on the recovery of rare earth elements from bauxite residue (red mud) - A review**  
PANDA S., Costa R. B. , Shah S. S. , MISHRA S., Bevilaqua D., Akcil A.  
RESOURCES CONSERVATION AND RECYCLING, vol.171, 2021 (Journal Indexed in SCI)
- VI. **Hydrometallurgical recycling strategies for recovery of rare earth elements from consumer electronic scraps: a review**  
Akcil A., Ibrahim Y. A. , Meshram P., PANDA S., Abhilash A.  
Journal of Chemical Technology and Biotechnology, vol.96, no.7, pp.1785-1797, 2021 (Journal Indexed in SCI)
- VII. **A novel approach based on solvent displacement crystallisation for iron removal and copper recovery from solutions of semi-pilot scale bioleaching of WPCBs**  
Erust C., Akcil A., TUNCUK A., DEVECİ H., YAZICI E. Y. , PANDA S.  
JOURNAL OF CLEANER PRODUCTION, vol.294, 2021 (Journal Indexed in SCI)
- VIII. **Securing supplies of technology critical metals: Resource recycling and waste management**  
PANDA S., Akcil A.  
WASTE MANAGEMENT, vol.123, pp.48-51, 2021 (Journal Indexed in SCI)
- IX. **Techno-economic Analysis of Boric Acid Production from Colemanite Mineral and Sulfuric Acid**  
GÖNEN M., Rodene D. D. , PANDA S., Akcil A.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, 2021 (Journal Indexed in SCI)
- X. **COVID-19 disruptions to tech-metals supply are a wake-up call Comment**  
Akcil A., Sun Z., PANDA S.  
NATURE, vol.587, no.7834, pp.365-367, 2020 (Journal Indexed in SCI)
- XI. **Red mud valorization an industrial waste circular economy challenge; review over processes and their chemistry**  
Swain B., Akcil A., Lee J.  
CRITICAL REVIEWS IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 2020 (Journal Indexed in SCI)
- XII. **Intensified acidophilic bioleaching of multi-metals from waste printed circuit boards (WPCBs) of spent mobile phones**  
Erust C., Akcil A. U. , TUNCUK A., PANDA S.  
Journal of Chemical Technology and Biotechnology, vol.95, no.8, pp.2272-2285, 2020 (Journal Indexed in SCI Expanded)
- XIII. **A Multi-stage Process for Recovery of Neodymium (Nd) and Dysprosium (Dy) from Spent Hard Disc Drives (HDDs)**  
Erust C., Akcil A. U. , Tuncuk A., Deveci H., Yazici E. Y.  
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- XIV. **Valorization of waste LCD and recovery of critical raw material for circular economy: A review**  
Akçil A. U. , AĞCASULU İ., SWAIN B.  
Resources, Conservation and Recycling, vol.149, pp.622-637, 2019 (Journal Indexed in SCI)
- XV. **Acidophilic bioleaching: A Review on the Process and Effect of Organic-inorganic Reagents and Materials on its Efficiency**  
JAFARI M., ABDOLLAHI H., SHAFAEI S. Z. , GHARABAGHI M., JAFARI H., Akçil A. U. , PANDA S.  
Mineral Processing and Extractive Metallurgy Review, vol.40, no.2, pp.87-107, 2019 (Journal Indexed in SCI)
- XVI. **Environmentally sustainable acid mine drainage remediation: Research developments with a focus on waste/by-products**  
Moodley I., Sheridan C. M. , Kappelmeyer U., AKÇİL A. U.  
MINERALS ENGINEERING, vol.126, pp.207-220, 2018 (Journal Indexed in SCI)
- XVII. **Effect of Span-80 and ultrasonication on biodesulphurization of lignite by Rhodococcus erythropolis: Lab to semi-pilot scale tests**  
MISHRA S., Akçil A. U. , PANDA S., TUNCUK A.  
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- XVIII. **Laboratory and Semipilot Bioreactor Feasibility Tests for Desulphurization of Turkish Lignite using Leptospirillum ferriphilum**  
MISHRA S., Akçil A. U. , PANDA S., AĞCASULU İ.  
ENERGY & FUELS, vol.32, no.3, pp.2869-2877, 2018 (Journal Indexed in SCI)
- XIX. **Biodesulphurization of Turkish lignite by Leptospirillum ferriphilum: Effect of ferrous iron, Span-80 and ultrasonication**  
MISHRA S., Akçil A., PANDA S., Ernst C.  
HYDROMETALLURGY, vol.176, pp.166-175, 2018 (Journal Indexed in SCI)
- XX. **A novel bioreactor system for simultaneous multi-metal leaching from industrial pyrite ash: Effect of agitation and sulphur dosage**  
PANDA S., Akçil A., MISHRA S., ERUST C.  
JOURNAL OF HAZARDOUS MATERIALS, vol.342, pp.454-463, 2018 (Journal Indexed in SCI)
- XXI. **Overview On Extraction and Separation of Rare Earth Elements from Red Mud: Focus on Scandium**  
Akçil A. U. , AKHMADIYEVA N., Abdulvaliyev R., Abhilash A., MESHRAM P.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.39, no.3, pp.145-151, 2018 (Journal Indexed in SCI)
- XXII. **Recovery of rare earth metals (REMs) from primary raw material: sulphatization-leaching-precipitation-extraction**  
KARSHIGINA Z., ABISHEVA Z., BOCHEVSKAYA Y., Akçil A. U. , SARGELOVA E., SUKUROV B., SİLACHYOV I.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.39, no.5, pp.319-338, 2018 (Journal Indexed in SCI)
- XXIII. **Recovery of rare earth metals as critical raw materials from phosphorus slag of long-term storage**  
ABISHEVA Z. S. , KARSHIGINA Z. B. , BOCHEVSKAYA Y. G. , Akçil A. U. , SARGELOVA E. A. , KVYATKOVSKAYA M. N. , SİLACHYOV I. Y.  
HYDROMETALLURGY, vol.173, pp.271-282, 2017 (Journal Indexed in SCI)
- XXIV. **Purification of Ammonium Perrhenate Solutions from Potassium by Ion Exchange**  
ZAGORODNYAYA A., ABISHEVA Z., SADYKANOVA S., SHARIPOVA A., Akçil A. U.  
Mineral Processing and Extractive Metallurgy Review, vol.38, no.5, pp.284-291, 2017 (Journal Indexed in SCI)
- XXV. **Synergistic effect of biogenic Fe<sup>3+</sup> coupled to S degrees oxidation on simultaneous bioleaching of Cu, Co, Zn and As from hazardous Pyrite Ash Waste**  
PANDA S., Akçil A. U. , MISHRA S., ERUST C.  
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- XXVI. **Sulphur-oxidising bacteria isolated from deep caves improve the removal of arsenic from contaminated harbour sediments**  
BEOLCHINI F., FONTI V., OZDEMIROGLU S., Akçil A. U. , DELL'ANNO A.  
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- XXVII. **Metal Recovery from Bottom Ash of an Incineration Plant: Laboratory Reactor Tests**  
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- XXVIII. **An integrated biological approach for treatment of cyanidation wastewater**  
MEKUTO L., NTWAMPE S. K. O., Akcil A. U.  
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- XXIX. **Biodegradation of dibenzothiophene and its application in the production of clean coal**  
MISHRA S., PRADHAN N., PANDA S., Akcil A. U.  
FUEL PROCESSING TECHNOLOGY, vol.152, pp.325-342, 2016 (Journal Indexed in SCI)
- XXX. **Combined oxidative leaching and electrowinning process for mercury recovery from spent fluorescent lamps**  
Ozgur C., Coskun S., Akcil A. U., BEYHAN M., Uncu I. S., Civelekoglu G.  
WASTE MANAGEMENT, vol.57, pp.215-219, 2016 (Journal Indexed in SCI)
- XXXI. **WEEE: Booming for sustainable recycling**  
Akci A. U.  
WASTE MANAGEMENT, vol.57, pp.1-2, 2016 (Journal Indexed in SCI)
- XXXII. **Iron removal in production of purified quartz by hydrometallurgical process**  
TUNCUK A., Akcil A.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.153, pp.44-50, 2016 (Journal Indexed in SCI)
- XXXIII. **A greener approach for resource recycling: Manganese bioleaching**  
GHOSH S., MOHANTY S., AKÇİL A. U., SUKLA L. B., DAS A. P.  
CHEMOSPHERE, vol.154, pp.628-639, 2016 (Journal Indexed in SCI)
- XXXIV. **Recovery of vanadium from spent catalysts of sulfuric acid plant by using inorganic and organic acids: Laboratory and semi-pilot tests**  
ERUST C., Akcil A. U., BEDELOVA Z., ANARBKOV K., BAIKONUROVA A., TUNCUK A.  
WASTE MANAGEMENT, vol.49, pp.455-461, 2016 (Journal Indexed in SCI)
- XXXV. **BIO-MECHANICAL LEACHING OF URANIUM FROM LOW GRADE BLACK SHALE**  
ANJUM F., BUKHARI S. A., SHAHID M., Akcil A. U., TAHIR A., JAAFAR H. Z. E., ZIA-UL-HAQ M., SAMOTA I.  
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.14, no.12, pp.2939-2946, 2015 (Journal Indexed in SCI)
- XXXVI. **Regularities of Rhenium and Uranium Sorption from Mixed Solutions with Weakly Basic Anion Exchange Resin**  
ZAGORODNYAYA A., ABISHEVA Z., SHARIPOVA A., SADYKANOVA S., Akcil A. U.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.36, no.6, pp.391-398, 2015 (Journal Indexed in SCI)
- XXXVII. **Thermodynamic and kinetic of iodine-iodide leaching in gold hydrometallurgy**  
KONYRATBEKOVA S. S., BAIKONUROVA A., USSOLTSEVA G. A., ERUST C., AKÇİL A. U.  
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- XXXVIII. **Acidic Leaching with Chlorate as Oxidizing Agent to Extract Mo and Re from Molybdenite Flotation Concentrate in a Copper Plant**  
ABDOLLAHI H., NOAPARAST M., SHAFAEI S. Z., MANAFI Z., ERUST C., Akcil A. U.  
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- XXXIX. **Sequential bioreduction-bioleaching and bioreduction-chemical leaching hybrid tests for enhanced copper recovery from a concentrator ball mill reject sample**  
PANDA S., ESTHER J., BHOTRA T., PRADHAN N., SUKLA L. B., MISHRA B. K., Akcil A. U.  
HYDROMETALLURGY, vol.157, pp.171-177, 2015 (Journal Indexed in SCI)
- XL. **Gallium and vanadium extraction from red mud of Turkish alumina refinery plant: Hydrogarnet process**  
Abdulvaliyev R. A., AKÇİL A. U., Gladyshev S. V., Tastanov E. A., Beisembekova K. O., Akhmadiyeva N. K., DEVECİ

- H.  
HYDROMETALLURGY, vol.157, pp.72-77, 2015 (Journal Indexed in SCI)
- XLII. **Direct cyanidation and roasting combination of a semi-refractory massive sulfide ore**  
ABDOLLAHI H., KARIMI P., AMINI A., AKÇİL A. U.  
MINERALS & METALLURGICAL PROCESSING, vol.32, no.3, pp.161-169, 2015 (Journal Indexed in SCI)
- XLIII. **Recovery of rare earth metals and precipitated silicon dioxide from phosphorus slag**  
KARSHIGINA Z., ABISHEVA Z., BOCHEVSKAYA Y., Akcil A. U. , SARGELOVA E.  
MINERALS ENGINEERING, vol.77, pp.159-166, 2015 (Journal Indexed in SCI)
- XLIV. **Non-cyanide Leaching Processes in Gold Hydrometallurgy and Iodine-Iodide Applications: A Review**  
KONYRATBEKOVA S. S. , BAIKONUROVA A., Akcil A. U.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.36, no.3, pp.198-212, 2015 (Journal Indexed in SCI)
- XLV. **Recovery of vanadium and gallium from solid waste by-products of Bayer process**  
GLADYSHEV S. V. , AKÇİL A. U. , ABDULVALIYEV R. A. , TASTANOV E. A. , BEISEMBEKOVA K. O. , TEMIROVA S. S. , DEVECİ H.  
MINERALS ENGINEERING, vol.74, pp.91-98, 2015 (Journal Indexed in SCI)
- XLVI. **Reductive dissolution by waste newspaper for enhanced meso-acidophilic bioleaching of copper from low grade chalcopyrite: A new concept of biohydrometallurgy**  
PANDA S., BISWAL A., MISHRA S., PANDA P. K. , PRADHAN N., MOHAPATRA U., SUKLA L. B. , MISHRA B. K. , Akcil A. U.  
HYDROMETALLURGY, vol.153, pp.98-105, 2015 (Journal Indexed in SCI)
- XLVII. **Microbial Dissolution of Zn-Pb Sulfide Minerals Using Mesophilic Iron and Sulfur-Oxidizing Acidophiles**  
GHASSA S., BORUOMAND Z., MORADIAN M., ABDOLLAHI H., Akcil A. U.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.36, no.2, pp.112-122, 2015 (Journal Indexed in SCI)
- XLVIII. **A review of approaches and techniques used in aquatic contaminated sediments: metal removal and stabilization by chemical and biotechnological processes**  
Akcil A. U. , ERUST C., OZDEMIROGLU S., FONTI V., BEOLCHINI F.  
JOURNAL OF CLEANER PRODUCTION, vol.86, pp.24-36, 2015 (Journal Indexed in SCI)
- XLIX. **Bioleaching of high grade Zn-Pb bearing ore by mixed moderate thermophilic microorganisms**  
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SEPARATION AND PURIFICATION TECHNOLOGY, vol.136, pp.241-249, 2014 (Journal Indexed in SCI)
- L. **REMOVAL OF IRON FROM QUARTZ ORE USING DIFFERENT ACIDS: A LABORATORY-SCALE REACTOR STUDY**  
TUNCUK A., AKÇİL A. U.  
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.35, no.4, pp.217-228, 2014 (Journal Indexed in SCI)
- L. **Separation of hafnium and zirconium using TBP modified ferromagnetic nanoparticles: Effects of acid and metals concentrations**  
ALIAKBARI M., SABERYAN K., NOAPARAST M., ABDOLLAHI H., Akcil A. U.  
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- LI. **Experimental process analysis and mathematical modeling for selective gold leaching from slag through wet chlorination**  
OLTEANU A. F. , DOBRE T., PANTURU E., RADU A. D. , Akcil A. U.  
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- LII. **Kinetic study of gallium electrochemical reduction in alkaline solution**  
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- LIII. **Cyanide and removal options from effluents in gold mining and metallurgical processes**  
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- MINERALS ENGINEERING, pp.13-29, 2013 (Journal Indexed in SCI)
- LIV. **Biohydrometallurgy in Turkish gold mining: First shake flask and bioreactor studies**  
ÇİFTÇİ H., AKÇİL A. U.  
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- LV. **Factorial experiments for iron removal from kaolin by using single and two-step leaching with sulfuric acid**  
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- LVI. **Biohydrometallurgy techniques of low grade ores: A review on black shale**  
ANJUM F., SHAHID M., Akcil A. U.  
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- LVII. **Aqueous metal recovery techniques from e-scrap: Hydrometallurgy in recycling**  
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- LVIII. **Effect of biooxidation conditions on cyanide consumption and gold recovery from a refractory gold concentrate**  
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- LX. **A New Global Approach of Cyanide Management: International Cyanide Management Code for the Manufacture, Transport, and Use of Cyanide in the Production of Gold**  
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- LXI. **Metal extraction from spent sulfuric acid catalyst through alkaline and acidic leaching**  
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- LXII. **A review of technologies for the recovery of metals from spent alkaline and zinc-carbon batteries**  
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- LXIII. **Reductive leaching of manganese and zinc from spent alkaline and zinc-carbon batteries in acidic media**  
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- LXIV. **Biodegradation of cyanide containing effluents by Scenedesmus obliquus**  
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- LXV. **Coal-Gold Agglomeration: An Alternative Separation Process in Gold Recovery**  
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- LXVI. **Role and contribution of pure and mixed cultures of mesophiles in bioleaching of a pyritic chalcopyrite concentrate**  
Akci A. U. , Ciftci H., DEVECİ H.  
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- LXVII. **Untitled**  
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- LXVIII. **Acid Mine Drainage (AMD): causes, treatment and case studies**  
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- LXIX. **Managing cyanide: health, safety and risk management practices at Turkey's Ovacik gold-silver mine**  
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- LXX. **Re: "Coal-oil assisted flotation for the gold recovery" by Sen, S., Seyrankaya, A., Cilingir, Y., 2005. Minerals Engineering 18 (11), 1086-1092.**  
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- LXXI. **Heterogeneous catalytic degradation of cyanide using copper-impregnated pumice and hydrogen peroxide**  
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- LXXII. **Destruction of cyanide by hydrogen peroxide, in tailings slurries from low bearing sulphidic gold ores**  
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- LXXIII. **Bioleaching of complex zinc sulphides using mesophilic and thermophilic bacteria: comparative importance of pH and iron**  
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- LXXIV. **Potential bioleaching developments towards commercial reality: Turkish metal mining's future**  
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- LXXV. **Microbial detoxification of cyanide solutions: a new biotechnological approach using algae**  
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- LXXVI. **Metals recovery from multimetal sulphide concentrates (CuFeS<sub>2</sub>-PbS-ZnS): combination of thermal process and pressure leaching**  
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- LXXXI. **First application of cyanidation process in Turkish gold mining and its environmental impacts**  
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