



# UJICY

Energy-Earth-  
Environment-Engineering

*Uzbekistan-Japan  
International Conference on*  
**Energy-Earth-Environment  
Engineering**



**17-18**  
**November**

Uzbekistan, Tashkent - 2022

17-18 November

Uzbekistan, Tashkent - 2022

## TOPICS:

- Renewable energy & Energy Conversion
- Environmental Technologies
- Earth Resources Engineering

## ORGANIZERS:



## SCOPE

**The Uzbekistan-Japan International Conference «Energy-Earth-Environment- Engineering»** will be held on 17-18 November 2022 in Uzbekistan Japan Innovation Center of Youth, Tashkent, Uzbekistan.

This Conference will offer researchers from around the world who have interests in interdisciplinary research in energy, earth, environmental engineering. It would like to facilitate interactions between researchers from industry, national laboratories and academia for the future international collaborators.

The following topics and related ones are invited:

- Renewable energy & Energy Conversion
- Environmental Technologies
- Earth Resources Engineering

## GENERAL INFORMATION

**Official Language: English.**

The science program committee will schedule both oral and poster sessions in hybrid form including a "live" in-person event with a "virtual" online component.

**Local Organizing Committee**

Nargiza Amirova, Yukinori Yanagida, Zukhra Kadirova, Nodir Turakhodjaev,  
Sokhibjon Matkarimov, Shakhlo Daminova, Zikrilla Alimov

<b>CONTENT</b>	
<b>4E: Energy</b>	<b>5</b>
<b>Ryuichi Nakano, Akira Yamaguchi, Kayano Sunada, Takeshi Nagai, Akiyo Nakano, Yuki Suzuki, Hisakazu Yano, Hitoshi Ishiguro, Masahiro Miyauchi</b> Inactivation of SARS-CoV-2 Viruses by Indoor-Light-Sensitive TiO <sub>2</sub> -based Photocatalyst .....	5
<b>Toshihisa Ueda</b> Combustion in Boundary Layer .....	6
<b>Mirabbos Hojamberdiev</b> BaTaO <sub>2</sub> N: From Materials Synthesis to Heterogenous Water Oxidation Performance .....	7
<b>A.O. Imamova, M.N. Bobonazarova</b> Renewable energy sources as a measure to prevent the depletion of the ozone layer.....	8
<b>D.T.Toshpulatov, D.R.Hamdamova, Sh.Magdiev, A.M.Nasimov, Kh.Sh.Tashpulatov</b> Synthesis of [Co(bpy)(SCN) <sub>4</sub> ] <sup>2+</sup> complex for dye sensitized solar cell application.....	9
<b>F.F. Turg'unov, N.A. Ismatullayev</b> Shaxta suvlaridan oqilona foydalanishda energiya samaradorligi.....	10
<b>F.Q. Kholmuminov, F.Sh. Suyunova</b> Green engineering and energy conversion efficiency.....	11
<b>M.D. Pecherskaya, Kh.T. Butanova, S.A. Ibodullaev, O.N. Ruzimuradov, Sh.I. Mamatkulov</b> Modeling and performance analysis of solid oxide fuel cell. ....	12
<b>S.G. Shokirova, F. Sh. Suyunova</b> Conversion of Solar Energy into Electrical Energy .....	13
<b>S.Z. Khudayberganova, F.Sh. Suyunova</b> Hydrogen: The most ubiquitous energy source is finally having its moment.....	14
<b>Ш.А. Бегимкулова, Ш.Э. Мирзаев, О.Н. Рўзимуродов, А.М. Насимов</b> Li ион батареялар учун LiMn <sub>2</sub> O <sub>4</sub> шпинельнинг золь-гель синтези.....	15
<b>4E: Earth</b>	<b>16</b>
<b>Hideki Shimada, Takashi Sasaoka, Akihiro Hamanaka, Naung Naung</b> Effect of Previous Mined-out Activities on Redevelopment of Underground Gold Mine in Myanmar.....	16
<b>Hiroyuki Kosukegawa, Hikari Fujii, Satoshi Tanaka</b> Development of equipment for measuring soil thermal conductivity.....	20
<b>Rino Ikeda, Hikari Fujii, Hiroyuki Kosukegawa, Retsu Harada</b> Field test and development of numerical models of horizontal ground heat exchangers for ground source heat pump systems.....	21
<b>Sherzod Allaev, Mamoru Kikumoto</b> Mechanical behavior and breakage of pumice volcanic sand under high pressures.....	22
<b>Siyuan Yang</b> Study on the molecular structure and applied function of starches in mineral flotation.....	23
<b>K. Sanakulov, J.N. Narzullaev, O.U. Fuzaylov, H.I. Hamidov</b> Studying the behavior of gold-containing minerals during roasting of KEMIX tailings.....	24
<b>A.K. Kalonov</b> NGMK GMZ-3da sorbsiya jarayoniga beriladigan biokek sifatini oshirish.....	25
<b>A.M. Muzafarov, G.M. Allaberganova, Zh.T. Nazarov, U.U. Sharafutdinov</b> Determination of radium in samples taken from radioactive waste tailing facility. ....	26
<b>S.T. Matkarimov, A.M. Sainazarov</b> Improvement of technology for processing sulfide copper concentrates in flash smelting furnaces.....	27

<b>F.I. Salomova, D.S. Xakimova</b> Maktab o'quvchilarining kun tartibini gigienik baholash natijalari.....	71
<b>F.Sh. Suyunova, S.Z. Khudayberganova</b> Carbon capture, utilization, and storage: Making decarbonization possible across all sectors.....	72
<b>G. Babojonova, A. Inkhanova, S. Botirov, D. Bekchanov, M. Mukhamediev</b> Polyvinylchloride modification, properties and applications for environmental protection.....	73
<b>F.I. Salomova, T.A. Bobomuratov, N.O. Akhmadaliyeva, A.O. Imamova</b> Hygienic assessment of the impact of household waste on human health.....	74
<b>N.B.Uralov, Kh.Kh. Turayev, A.T. Djahilov, Kh.R. Tillayev</b> Separation of iodine ions in saline water on the basis of urotropine.....	75
<b>F.I. Salomova, T.A. Bobomuratov, N.O. Akhmadaliyeva, A.O. Imamova</b> Problems of atmospheric air pollution in the Republic of Uzbekistan and the ways of their solution.....	76
<b>S.A. Shammatov</b> Mis elektroliti tarkibidan temir yordamida mis kukunlarini ajratib olish.....	77
<b>F.I. Salomova, T.A. Bobomuratov, N.O. Akhmadaliyeva, A.O. Imamova, O.A. Niyozova</b> Formation of the principles of a healthy lifestyle in preschool children.....	78
<b>Sh, Muhammetdjanova, A. Mamanazarov, F. Farmanov, M. Karako'ziyeva</b> Po'lat eritish shlaklarini tiklash muxitda qayta ishlab, temir asosli birikmalarni ajratib olish texnologiyasini tadqiq etish.....	79
<b>Sh.P.Nurullayev, Z.S.Alixonova, D.B.Saidmirzayeva, I.Ro'zmatov</b> Adsorbsiya usulida oqava suvlarni tozalashni nazariy asoslari.....	80
<b>F.I. Salomova, M.X. Mirrahimova, X.A. Sadullayeva, Sh.R. Kobiljonova</b> Prediction and prevention of food allergies in children.....	81
<b>Б.А. Холназаров, Х.Х. Тураев, А.Т. Джалилов</b> Синтез биоразлагаемого суперабсорбирующего гидрогеля.....	82
<b>Г.А. Турдиева, Н.Н. Фатуллаев, А.Я. Акрамов, Г.К. Холикова, У.М. Мардонов, Б.Ш. Ганиев</b> Изучение растворимости плохо растворимых солей под действием нитрата мочевины.....	83
<b>Г.Ф.Шеркўзиева, Ф.И.Саломова</b> Сув объектлари муаммоларини ечишда ретроспектив тахлилларнинг ахамияти.....	84
<b>Д.К. Мурадова, К.М. Муродов, Н.К. Мухаммадиев</b> Каталитический синтез пентадецилонитрила из пентадецилового спирта и аммиака.....	85
<b>К.Х. Рашидова, Х.И. Акбаров, О.Ж. Акбарова</b> Эффективность двухкомпонентных ингибиторов коррозии на основе полиэлектролитов....	86
<b>Н.С. Муминова, Э. Абдурахманов, Н.К. Абдуллаев</b> Разработка полупроводниковых сенсоров и мониторинг фтористого водорода в газовой среде.....	87
<b>Х.Г. Сидикова, Д.Ж. Тошпулатова</b> Исследование некоторых характеристик термokatалитического сенсора метана (природного газа).....	88
<b>F.I. Salomova, M.X. Mirrahimova, Sh.R. Kobiljonova, A.O. Imamova</b> The role of the barrier function of the gastrointestinal tract and intestinal microbiota in the development of food allergies in children.....	89
<b>Ф.И. Саломова, Г.Ф. Шеркўзиева, Х.А. Садуллаева, Н.О. Ахмадалиева</b> Ўзбекистонда атмосфера хавосининг ифлосланиши.....	90
<b>Ҳ.Ф. Сидикова, С.Ф. Пардабоева</b> Атмосферадаги СО таркибини кузатиш усуллари ва қурилмалари.....	91

## Formation of the principles of a healthy lifestyle in preschool children

F.I. Salomova, T.A. Bobomuratov, N.O. Akhmadaliyeva, A.O. Imamova, O.A. Niyozova

*Tashkent Medical Academy, Tashkent, Uzbekistan*

[doctorimamova@gmail.com](mailto:doctorimamova@gmail.com)

In the modern world, the role of the family and the role of preschool and school institutions in the formation of a healthy lifestyle for children and the development of a comprehensively developed personality are increasing. It is known that a person spends most of his life in the family. Indeed, in childhood, the child's lifestyle is shaped by the lifestyle of his parents and friends.

The need to form a culture of health is reflected in the studies of domestic and foreign scientists, which confirm that human health is only 7-8% dependent on the success of treatment and 50% on lifestyle. In modern times, the community of valeological and pedagogical sciences has vast experience in the formation of a healthy lifestyle for a person (G.K. Zaitsev, Yu.F. Zmanovsky, V.V. Kolbanov, L.G. Tatarnikova, etc.), the experience of educating the necessary knowledge, skills and abilities of preschoolers in organizing a healthy lifestyle (V.G. Alyamovskaya, K.L. Kazakovtseva, M.L. Lazarev, L.G. Tatarnikova, etc.), experience in the formation of health (T.N. Doronova, V.T. Kudryavtsev).

In modern science, there are few studies on the problem of forming ideas about a healthy lifestyle and the formation of a culture of a healthy lifestyle among preschoolers (N.G. Bykova, L.G. Kasyanova, M.V. Melicheva, O.S. Schneider, etc.)

According to medical research, the percentage of preschoolers with health problems is increasing every year. One of the reasons for this is the sedentary lifestyle of preschoolers, as well as the reluctance to engage in physical education and sports. The imbalance of different types of activities of children, the violation of the regime of the educational process negatively affects the health and performance of the child. Risk factors that worsen the health of children and adolescents include: bad habits, poor quality food, malnutrition; disordered daily routine; learning overload and other needs begin in childhood.

The problem of protecting and promoting health in recent years has become the subject of special studies. The object of the study is the process of interaction between the family, preschool and school institutions in the formation of a healthy lifestyle for children.

Factors affecting the state of health: 20% - heredity, 20% - ecology, 10% - health development, 50% - lifestyle.

Healthy lifestyle of a child: basic principles. In the issue of a healthy lifestyle for a child, the task of parents and teachers implies three main areas:

- creation of optimal external conditions (food, clothing, suitable furniture, etc.);
- drawing up a harmonious regime of work and rest;
- education of correct ideas about a healthy lifestyle and its importance, as well as the

formation of a healthy stereotype of behavior. A healthy lifestyle is made up of many components, and each component is important in its own way.

Thus, the formation of ideas about a healthy lifestyle of the younger generation is the task of all educational organizations. Programs have been developed for each age category, the purpose of which is to preserve and strengthen the physical, psychological and spiritual health of the child, to accustom him to the rules of hygiene and self-service. The whole life of a child in a preschool institution should be aimed at maintaining and strengthening health.