

## Prof. ALİ USANMAZ

### Personal Information

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### Advising Theses

- USANMAZ A., Degradable mulch films for agricultural purposes, Postgraduate, Z.Sisli(Student), 2012
- USANMAZ A., Synthesis and characterization of hydrogels from allyl methacrylate and acrylamide copolymer, Postgraduate, N.Ayazoğlu(Student), 2011
- USANMAZ A., Degradation of EPDM via gamma irradiation and possible use of EPDM in radioactive waste management, Postgraduate, F.Hacıoğlu(Student), 2010
- USANMAZ A., Preparation and performance analysis of acrylonitrile based nanocomposite membranes for chromium (VI) removal from aqueous solutions, Postgraduate, S.Bozkr(Student), 2010
- USANMAZ A., Living radical polymerization of hydroxyethyl methacrylate and its block copolymerization with poly(dimethyl siloxane) macroazoinitiator, Doctorate, E.Vargün(Student), 2009
- USANMAZ A., Polymerization and characterization of N-vinyl-2-pyrrolidone, Postgraduate, Ş.Altınsoy(Student), 2009
- USANMAZ A., Polymerization and characterization of n-vinylcaprolactam, Postgraduate, S.Kozanoğlu(Student), 2008
- USANMAZ A., Synthesis and characterization of epoxy-acrylate vinyl ester resin and network structure, Doctorate, Ç.Zeytin(Student), 2008
- USANMAZ A., Synthesis and characterization of copolymers of diisocyanates and dialcohol, Doctorate, S.Keskin(Student), 2008
- USANMAZ A., Effect of different compositions rheological and mechanical properties of epdm rubber, Postgraduate, S.Çavdar(Student), 2007
- USANMAZ A., Effect of ionizing radiation on different polymers and possible use of polymers in radioactive (nuclear) waste management, Doctorate, T.Özdemir(Student), 2006
- USANMAZ A., Polymerization and characterization of allyl methacrylate, Postgraduate, T.Vardareli(Student), 2006
- USANMAZ A., Polymerization and polymer characterization of n-vinylcaprolactam, Postgraduate, Ö.Polat(Student), 2005
- USANMAZ A., Polymerization and polymer characterization of acetylenedicarboxylic acid monopotassium salt, Postgraduate, E.Anaçoğlu(Student), 2005
- USANMAZ A., Polymerization and characterization of methylmethacrylate by atom transfer radical polymerization, Postgraduate, B.Aran(Student), 2004
- USANMAZ A., Mechanical and thermal properties of thermotropic liquid crystalline copolyester (tlcp) and its mixtures with poly(ethyleneterephthalate) and denture base poly(methyl methacrylate), Postgraduate, H.Bahar(Student), 2004
- USANMAZ A., Polymerization and characterization of poly(ethyl methacrylate), Postgraduate, L.Bakioğlu(Student), 2003
- USANMAZ A., Effect of carbon black and thermotropic liquid crystalline copolyester on the shear deformation of fibre grade pet, Postgraduate, M.Doğu(Student), 2003
- USANMAZ A., Polymerization and characterization of 2-Hydroxyethyl acrylate, Postgraduate, E.Vargün(Student), 2003
- USANMAZ A., The treatment of prosthetic dental material with hypochlorite, Postgraduate, S.Keskin(Student), 2002
- USANMAZ A., Polymerization and characterization of isobutyl methacrylate, Postgraduate, E.İnci(Student), 2002
- USANMAZ A., Synthesis and characterization of poly(siloxane-urethane) block copolymers., Postgraduate, Ç.Zeytin(Student), 2002
- USANMAZ A., Crystal structure effect in radiation induced solid state polymerization of methacrylamide, Postgraduate, A.Beycar(Student), 2001
- ÖGEL B., USANMAZ A., Electrical properties of polyphenylacetylene-aluminum composite films, Postgraduate, C.Kaya(Student), 2001

USANMAZ A., Polymerization and polymer characterization of acrylate monomers used as denture base materials, Postgraduate, A.Çubuk(Student), 2000

USANMAZ A., Thermal and mechanical properties of ultra high modulus polyethylene fiber reinforced poly(methyl methacrylate) cured by gamma radiation used as a dental base, Postgraduate, T.Şekeroğlu(Student), 2000

USANMAZ A., Solid state polymerization of acetylenedicarboxylic acid induced by irradiation, Postgraduate, E.Altürk(Student), 1999

USANMAZ A., Polymerization and polymer characterization of methyl methacrylate as denture base material using microwave, Postgraduate, J.Ateş(Student), 1999

USANMAZ A., GÜNDÜZ G., Preparation and modification of heat-activated dental base material cured by gamma radiation., Postgraduate, Ö.Eser(Student), 1998

USANMAZ A., Polymerization and polymer characterization of n-butyl acrylate, Postgraduate, T.Erinç(Student), 1998

USANMAZ A., The modifications of polymethacrylate used as denture base material, Postgraduate, F.Türker(Student), 1997

USANMAZ A., Polymerization and polymer characterization of 4-vinylpyridine, Doctorate, H.Özkan(Student), 1997

USANMAZ A., Anionic polymerization of monoisocyanates., Doctorate, N.Nurçin(Student), 1996

USANMAZ A., Crystal structure effect on radiation induced solid-state polymerization of acenaphthylene, Postgraduate, N.Baytar(Student), 1995

USANMAZ A., Radiation effect on polyadenylic acid in aqueous solution, Doctorate, H.Nur(Student), 1993

USANMAZ A., Topotactic polymerization of 3-aminocrotonamide by radiation, Postgraduate, O.Khader(Student), 1993

USANMAZ A., Molecular association properties of polyallylurea (PAU) and polyallylthiourea and electrochemical polymerization of allylthiourea (ATU), Postgraduate, H.Özkan(Student), 1991

USANMAZ A., Polymerization of 4-vinyl-1-cyclohexene, Postgraduate, N.Nurçin(Student), 1991

USANMAZ A., Polymerization of monoisocyanates by pruit-baggett adduct, Doctorate, O.Yılmaz(Student), 1991

USANMAZ A., Polymerization of 1-Ethynyl-1-Cyclohexanol, Postgraduate, N.Kızıllırmak(Student), 1989

USANMAZ A., Polymerization of ethyl acrylate, Postgraduate, A.Nilgün(Student), 1988

USANMAZ A., Polymerization of acrolein, Postgraduate, R.Dursun(Student), 1987

USANMAZ A., Radiation-induced and electro-initiated polymerization of some epoxy monomers., Doctorate, A.M(Student), 1983

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Possible use of bisphenol-a polycarbonate in radioactive waste embedding**  
Hacıoğlu F., ÖZDEMİR T., Kinalır K. G., Usanmaz A.  
PROGRESS IN NUCLEAR ENERGY, vol.90, pp.98-104, 2016 (SCI-Expanded)
- II. **In vitro evaluation of effects of sustained anti-TNF release from MPEG-PCL-MPEG and PCL microspheres on human rheumatoid arthritis synoviocytes**  
Erdemli O., Özen S., Keskin D., Usanmaz A., Batu E. D., Atilla B., Tezcaner A.  
JOURNAL OF BIOMATERIALS APPLICATIONS, vol.29, pp.524-542, 2014 (SCI-Expanded)
- III. **Characteristics and release profiles of MPEG-PCL-MPEG microspheres containing immunoglobulin G**  
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COLLOIDS AND SURFACES B-BIOINTERFACES, vol.117, pp.487-496, 2014 (SCI-Expanded)
- IV. **Effect of LiClO<sub>4</sub> Salt on Dielectric Properties of Acrylonitrile-Methyl Methacrylate and Acrylonitrile-Isobutyl Methacrylate Copolymers**  
VARGÜN E., ABACI U., SANKIR M., Usanmaz A., GÜNEY H. Y.  
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- V. **Possible use of EPDM in radioactive waste disposal: Long term low dose rate and short term high dose rate irradiation in aquatic and atmospheric environment**  
Hacıoğlu F., Ozdemir T., Cavdar S., Usanmaz A.  
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- VI. **Characteristics and release profiles of PEG-PCL-PEG microspheres containing immunoglobulin G**  
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- VII. **High performance chromium (VI) removal from water by polyacrylonitrile-co-poly (2-ethyl hexylacrylate) and polyaniline nanoporous membranes**  
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POLYMER ENGINEERING AND SCIENCE, vol.52, no.8, pp.1613-1620, 2012 (SCI-Expanded)
- VIII. **Residual acrylic monomer content of denture base resins with different fiber systems**  
KÖROĞLU A., Ozdemir T., Pamir A. D., Usanmaz A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.125, no.1, pp.471-476, 2012 (SCI-Expanded)
- IX. **Preparation and characterization of acrylonitrile-ethyl methacrylate copolymers and the effect of LiClO<sub>4</sub> salt on electrical properties of copolymer films**  
VARGÜN E., SANKIR M., Usanmaz A., Kanbur Y., ABACI U., GÜNEY H. Y.  
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- X. **Polymerization of N-Vinylcaprolactam and Characterization of Poly(N-Vinylcaprolactam)**  
Kozanoglu S., Ozdemir T., Usanmaz A.  
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- XI. **Synthesis and surface properties of polydimethylsiloxane-based block copolymers: poly[dimethylsiloxane-block- (ethyl methacrylate)] and poly[dimethylsiloxane-block-(hydroxyethyl methacrylate)]**  
Vargun E., USANMAZ A.  
POLYMER INTERNATIONAL, vol.59, no.12, pp.1586-1597, 2010 (SCI-Expanded)
- XII. **Water Absorption of Two Different Denture Base Resins Reinforced with Dental Fiber Systems**  
Durkan R. K., Ozdemir T., Pamir A. D., USANMAZ A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.117, no.3, pp.1750-1753, 2010 (SCI-Expanded)
- XIII. **Hydroxyl-Terminated Poly(urethane acrylate) as a Soft Liner in Dental Applications: Synthesis and Characterization**  
Keskin S., Usanmaz A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.117, no.1, pp.458-466, 2010 (SCI-Expanded)
- XIV. **Comparative study on mechanical, thermal, viscoelastic and rheological properties of vulcanised EPDM rubber**  
ÇAVDAR Ş., Ozdemir T., Usanmaz A.  
PLASTICS RUBBER AND COMPOSITES, vol.39, no.6, pp.277-282, 2010 (SCI-Expanded)
- XV. **Tailoring the Swelling and Glass-Transition Temperature of Acrylonitrile/Hydroxyethyl Acrylate Copolymers**  
Aran B., SANKIR M., Vargun E., DEMİRCİ SANKIR N., Usanmaz A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.116, no.2, pp.628-635, 2010 (SCI-Expanded)
- XVI. **Synthesis and Characterization of 2-Hydroxyethyl Methacrylate (HEMA) and Methyl Methacrylate (MMA) Copolymer Used as Biomaterial**  
Vargun E., SANKIR M., Aran B., DEMİRCİ SANKIR N., Usanmaz A.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.47, no.3, pp.235-240, 2010 (SCI-Expanded)
- XVII. **Degradation of Poly(2-hydroxyethyl methacrylate) Obtained by Radiation in Aqueous Solution**  
Varguen E., Usanmaz A.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.47, no.9, pp.882-891, 2010 (SCI-Expanded)
- XVIII. **Effect of thermocycling and treatment with monomer on mechanical properties of soft denture liner Molloplast B**  
Can G., Ozdemir T., Usanmaz A.  
INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES, vol.29, no.8, pp.812-814, 2009 (SCI-Expanded)

- XIX. **Use of poly(methyl methacrylate) in radioactive waste management: II. Monte Carlo simulations**  
Ozdemir T., Usanmaz A.  
PROGRESS IN NUCLEAR ENERGY, vol.51, no.8, pp.845-848, 2009 (SCI-Expanded)
- XX. **Monte Carlo simulations of radioactive waste embedded into polymer**  
Ozdemir T., Usanmaz A.  
RADIATION PHYSICS AND CHEMISTRY, vol.78, no.9, pp.800-805, 2009 (SCI-Expanded)
- XXI. **Comparative Study of the Mechanical Properties of Fiber-Reinforced Denture Base Resin**  
KÖROĞLU A., Ozdemir T., Usanmaz A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.113, no.2, pp.716-720, 2009 (SCI-Expanded)
- XXII. **Mechanical, Vulcanetric, and Thermal Properties of the Different 5-ethylidene 2-norbornene Content of Ethylene-Propylene-Diene-Monomer Vulcanized with Different Types and Compositions of Peroxides**  
Cavdar S., Ozdemir T., Usanmaz A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.112, no.4, pp.1891-1896, 2009 (SCI-Expanded)
- XXIII. **Use of poly(methyl methacrylate) in radioactive waste management: I. Radiation stability and degradation**  
Ozdemir T., Usanmaz A.  
PROGRESS IN NUCLEAR ENERGY, vol.51, no.2, pp.240-245, 2009 (SCI-Expanded)
- XXIV. **Solid State Polymerization of N-vinylcaprolactam via Gamma Irradiation and Characterization**  
Usanmaz A., Ozdemir T., POLAT Ö.  
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- XXV. **In vitro Comparison of Autoclave Polymerization on the Transverse Strength of Denture Base Resins**  
Durkan R., ÖZEL M. B., Bagis B., Usanmaz A.  
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- XXVI. **Degradation of poly(bisphenol-a-epichlorohydrin) by gamma irradiation**  
Ozdemir T., Usanmaz A.  
RADIATION PHYSICS AND CHEMISTRY, vol.77, no.6, pp.799-805, 2008 (SCI-Expanded)
- XXVII. **Synthesis and characterization of poly(allyl methacrylate) obtained by free radical initiator**  
Vardareli T. K., Keskin S., Usanmaz A.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.45, no.4, pp.302-311, 2008 (SCI-Expanded)
- XXVIII. **POLY 141-Thermal degradation of poly(2-hydroxyethyl methacrylate) obtained by gamma radiation**  
Varguen E., Usanmaz A.  
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- XXIX. **Degradation of poly(carbonate urethane) by gamma irradiation**  
Ozdemir T., Usanmaz A.  
RADIATION PHYSICS AND CHEMISTRY, vol.76, no.6, pp.1069-1074, 2007 (SCI-Expanded)
- XXX. **Structure-property relation of a soft liner material used in denture applications**  
Dogan O. M., Keskin S., Dogan A., Ataman H., Usanmaz A.  
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- XXXI. **Synthesis and characterization of poly(allyl methacrylate) obtained by gamma-radiation**  
Vardareli T. K., Usanmaz A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.104, no.2, pp.1076-1083, 2007 (SCI-Expanded)
- XXXII. **Flexural and bonding properties of a denture base polymer treated with nitric acid or ultraviolet radiation before relining with Molloplast-b**  
Dogan O. M., Keskin S., Bolayir G., Usanmaz A., Bek B.  
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- XXXIII. **Thermal degradation of poly(allyl methacrylate) by mass spectroscopy and TGA**  
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- XXXIV. **Stereoregular polymerization of methylmethacrylate by atom transfer radical polymerization**  
Aran B., Usanmaz A.  
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- XXXV. **Polymerization of 2-hydroxyethyl acrylate in bulk and solution by chemical initiator and by ATRP method**  
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- XXXVI. **Dynamic mechanical analysis of provisional resin materials reinforced by metal oxides**  
Korkmaz T., Doan A., Usanmaz A.  
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- XXXVII. **Crystal structure effect in radiation induced solid state polymerization of methacrylamide**  
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- XXXVIII. **Thermal and mechanical properties of microwave- and heat-cured poly(methyl methacrylate) used as dental base material**  
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- XXXIX. **X-ray and mass spectral analysis of poly phenylisocyanate obtained by complex base catalyst**  
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- XL. **Dynamic mechanical properties of dental base material reinforced with glass fiber**  
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- XLI. **Mechanical properties of soft liner-poly(methyl methacrylate)-based denture material**  
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- XLII. **Radiation induced solid-state polymerization of acetylenedicarboxylic acid**  
Usanmaz A., Alturk E.  
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- XLIII. **Thermal and dynamic mechanical properties of gamma-ray-cured poly(methyl methacrylate) used as a dental-base material**  
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- XLIV. **Anionic polymerization with complex base. I. Polymerization of phenylisocyanate**  
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- XLV. **Thermal and dynamic mechanical properties of microwave and heat-cured poly(methyl methacrylate) used as dental base material**  
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- XLVI. **Polymerization by bis(ethylxanthato)nickel(II) as an initiator. I. Polymerization of styrene oxide**  
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- XLVII. **Thermal and mechanical properties of poly(methyl methacrylate) used as dental base material**  
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- XLVIII. **Topotactic solid-state polymerization of acenaphthylene by radiation**  
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- XLIX. **Crystal structure effect in radiation-induced solid-state polymerization of acrylamide**  
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- L. **Topotactic solid-state polymerization of 3-aminocrotonamide by radiation**  
Usanmaz A., Melad O.  
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- LI. **POLYMERIZATION OF ALLYLTHIOUREA BY CONSTANT-CURRENT ELECTROLYSIS**  
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- LII. **Mass spectral analysis of poly(3-aminocrotonamide) obtained by radiation induced solid state polymerization**  
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- LIII. **POLYMERIZATION OF MONOISOCYANATES BY THE PRUITT-BAGGETT ADDUCT**  
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- LIV. **POLYMERIZATION OF 4-VINYL-1-CYCLOHEXENE BY RADIATION AND CHEMICAL CATALYSTS**  
CEVIK N., USANMAZ A.  
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- LV. **A MECHANISTIC STUDY ON THE POLYMERIZATION OF N-BUTYL ISOCYANATE BY PRUITT-BAGGETT ADDUCT**  
YILMAZ O., USANMAZ A., ALYURUK K.  
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- LVI. **POLYMERIZATION OF 1-ETHYNYL-1-CYCLOHEXANOL BY RADIATION, ELECTROINITIATION, AND CHEMICAL CATALYSTS**  
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- LVII. **POLYMERIZATION OF NORMAL-BUTYL ISOCYANATE BY PRUITT-BAGGETT ADDUCT**  
YILMAZ O., USANMAZ A., ALYURUK K.  
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- LVIII. **POLYMERIZATION AND DIPOLE-MOMENT OF POLY(ALLYL CYANIDE)**  
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- LIX. **RADIATION-INDUCED AND ELECTROINITIATED POLYMERIZATION OF ALLYLBENZENE**  
SOUSY K., USANMAZ A., ONAL A.  
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- LX. **POLYACROLEIN WITH MICROSPHERICAL STRUCTURE OBTAINED BY RADIATION-INITIATION AND BASE CATALYSIS**  
USANMAZ A., DOGAN R.  
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- LXI. **SYNTHESIS OF A NEW ORTHORHOMBIC METASTABLE FORM OF CDS THROUGH SOLID-STATE**

## REACTIONS

KIZILYALLI M., BILGIN M., USANMAZ A.

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LXII. **POLYMERIZATION OF ALLYL ALCOHOL BY RADIATION TO OBTAIN MICROENCAPSULATED STRUCTURE**

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LXIII. **POLYMERIZATION OF N-VINYLCARBAZOLE INITIATED BY UV-RADIATION**

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LXIV. **CRYSTAL-STRUCTURE EFFECT ON THE POLYMERIZATION OF 3,3-DIMETHYLACRYLIC ACID**

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LXV. **RADIATION-INDUCED SOLID-STATE POLYMERIZATION OF ALLYLTHIOUREA AND CRYSTAL-STRUCTURE EFFECTS**

USANMAZ A., YILMAZ E.

JOURNAL OF MACROMOLECULAR SCIENCE-CHEMISTRY, no.5, pp.479-491, 1987 (SCI-Expanded)

## Supported Projects

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