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h-index (Scopus):

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Citations (Scopus):

623

Supervised MSc Theses

#	Thesis title	By	Date
1	Preparation of blends based on PE100/UHMWPE and study on microstructure and tribological properties	Ali Salehi & Azam Jalali Arani	March 2022
2	bitman modification though using of ethylene -propylene diene monomer and polyphosphoric acid :investigation of rheological properties	Nilofar Abedini Nezhad & Azam Jalali Arani	September 2021
3	Preparation and morphology of PLA/Silicon rubber/Nanosilica nanocomposite; Effect of morphology and nanoparticle localization on the mechanical properties and shape memory	Farnoosh Rahimnejad & Azam Jalali Arani	August 2021
4	effect of calcium stearate on rheology and mechanical properties of polyethylene	Ali Talebi & Azam Jalali Arani	July 2021
5	Investigation of Mechanical Properties and Solvent Resistance in NBR / SBR / Nanoclay Nanocomposite in the Presence of a Non-Layered Filler	Ehsan Talebi & Azam Jalali Arani	February 2021
6	Preparation of NR/organoclay nanocomposite in the presence of calcium carbonate and carbon black; Study on mechanical properties, permeability and adhesion to rubber coated fabric	Mohammad Reza Saberi Bidgoli & Azam Jalali Arani	January 2021
7	the effect of using silica/titanium oxide nanoparticle on the mechanical prperties and UV stability of silicon rubber	Alireza Khani & Azam Jalali Arani	October 2020
8	Investigation of morphology and mechanical properties of melt blended (poly lacticacid/acrylic rubber); Effect of dynamic vulcanization	Nassim Soltanpour & Azam Jalali Arani	February 2020
9	preparation and study on the mechanical properties and flame resistance of (silicone rubber / nanosilica / ATH) electrical insulator nanocomposite	Azin Goudarzi & Azam Jalali Arani	July 2019

10	preparation and study on the mechanical properties and Electrical conductivity of (silicone rubber/ graphene) nanocomposite : Effect of crosslinking density	Hamidreza Heidary & Azam Jalali Arani	February 2019
11	Investigation of mechanical properties and impermeability of (Chlorobutyl rubber/Carbon black/nanocomposite prepared by the melt mixing method organoclay)	Matin Khamseh Kojuri & Azam Jalali Arani	January 2019
12	Investigation of Microstructure of (polypropylene/ethylene vinyl acetate) in presence of micro and nano particles of calcium carbonate prepared by the melt mixing method	Hamed Nasre Esfahani & Azam Jalali Arani	July 2018
13	Study on the Morphology Of (Poly Lactic Acid)/Silicone Rubber) blends and the Effect of Nano -Silica on It	Yasaman Yasoubi & Azam Jalali Arani	October 2017
14	Study on the effect (natural rubber/organoclay) on mechanical behavior of poly lactic acid	Sara Alibabaie & Azam Jalali Arani	November 2016
15	study the effect of nanoparticles in microstructure and morphology of polypropylene/poly butadiene nanocomposite	Mahsa Shalbafzadeh & Azam Jalali Arani	September 2016
16	The Effect of Nanoclay on Morphology of Dynamically Vulcanized Thermoplastic Elastomers based on PP/SBR	Nazanin Kolahi & Azam Jalali Arani	July 2014
17	The effect of nanoclay on dynamic vulcanization and dynamic - mechanical properties of thermoplastic elastomers based on PP/SBR	Babak Ahmadi & Azam Jalali Arani	February 2014
18	The study of preparation and characterization of elastomeric nanocomposite	Bahnaz Shol & Azam Jalali Arani	October 2013
19	Radiation curing effects on dynamic - mechanical properties of SBR/EPDM compound containing nanoclay	Aida Shoushtari Zadeh Naseri & Azam Jalali Arani	October 2013
20	The effects of waste rubber powder an dispersion of nanoclay, strength and abrasion of NR/organoclay compounds	Mahsa Nematollahi & Azam Jalali Arani	October 2012
21	The effects of an vulcanization behavior and performance of acrylic rubber	Omidreza Khanmohammadi & Azam Jalali Arani	October 2012
22	Using of (recycled rubber/ nanoclay) in bitumen and rheological study of the mixture	Farzad Ramezani & Azam Jalali Arani	February 2012
23	Investigation of bitumen modification through using of (butadiene rubber/ nanolayered sicate) and rheology study	Samaneh Amirkhani & Azam Jalali Arani	October 2011
24	the effects nanoclay on morphology of (SBR/NBR)blend	Ali Reza Monfared & Azam Jalali Arani	October 2011
25	the effects of preparation method(solution and melt mixing) on dispersion of organoclay and investigation of dynamic mechanical properties inBR/organoclay nanocomposite	Hoofar Sadadi & Azam Jalali Arani	February 2011
26	using of silicone carbide in polybutadiene rubber based compound and its effect on abrasion and thermal poperties	Amir Pasha Kharazi & Azam Jalali Arani	February 2011
27	The effect of rubber powder upon behavior and properties of PE in comparison of similar TPE	Majid Rezaee Abadchi & Azam Jalali Arani	December 2008
28	The effects of organoclay upon abrasion resistance of elastomeric compounds based on NR/BR	Mahdi Mehrabi Kooshki & Azam Jalali Arani	October 2008
29	STUDY OF PARAMETERS AFFECTING MICROSTRUCTURE AND MECHANICAL PROPERTIES OF (SBR/PVC/NANOCLAY) COMPOSIT	Babak Asadifard & Azam Jalali Arani	March 2008

30	THE EFFECTS OF NETWORK STRUCTURE UPON HEAT BUILDUP OF COMPOUND	Abdolreza Firozi & Azam Jalali Arani	October 2007
31	THE EFFECTS OF NETWORK STRUCTURE UPON ELASTIC MODULUS OF SBR COMPOUND	Mehdi Mohseni & Azam Jalali Arani	October 2007

Books

#	Title	Author(s)	Publisher country	publication date	version
Portal Records					
1	Plastics – Determination of charpy impact properties- Part 2: Instrumented impact test	Masis Akbarian, Azizeh Javadi, , Azam Jalali Arani, ,	Iran (Islamic Republic of)	March 2016	1
2	Rubber Processing: An Introduction	Azam Jalali Arani, Majid Rezaee Abadchi	Iran (Islamic Republic of)	December 2015	2
3	An Introduction to Rubber Processing	Azam Jalali Arani, Majid Rezaeiabadchi	Iran (Islamic Republic of)	December 2011	1
4	Plastics-Thermoplastic materials – Determination of Vicat softening temperature (VST)	Masis Akbarian, Azizeh Javadi, Mahshid Bastani, Azam Jalali Arani, Tahereh Samaei Yekta, , Zeinab Ghadamali, Gity Mir Mohamad Sadeghi	Iran (Islamic Republic of)	August 2017	1
5	Plastics Determination of charpy impact properties- Part 1: Non-Instrumented impact test	Masis Akbarian, Azizeh Javadi, Mahshid Bastani, Azam Jalali Arani, Tahereh Samaei Yekta, Atefeh Alimadadi, Zeinab Ghadamali, Gity Mir Mohamad Sadeghi	Iran (Islamic Republic of)	August 2017	1
6	Plastics – Determination of creep behaviour Part 2: Flexural creep by three- point loading	Masis Akbarian, Azizeh Javadi, Mahshid Bastani, Azam Jalali Arani, Tahereh Samaei Yekta, Atefeh Alimadadi, Zeinab Ghadamali, Gity Mir Mohamad Sadeghi	Iran (Islamic Republic of)	August 2017	1

Journal Papers

Portal Records

- 1 Azam Jalali Arani, Ahmad Zarei, "The effect of sulfur curing systems on vulcanization, network structure, nanoclay dispersion and performance properties of (butadiene rubber/natural rubber/nanoclay) nanocomposites", , January 2021 Vol. 25, Num. 100, Page 29-37, January 2021,
- 2 Masoud Dadras Chamachayi, Azam Jalali Arani, Joaquín Martínez Urreaga, "A Comparison of the Effect of Silk Fibroin Nanoparticles and Microfibers on the Reprocessing and Biodegradability of PLA/PCL Blends", JOURNAL OF POLYMERS AND THE ENVIRONMENT, January 2021 Vol. 29, Num. 2, Page 1-13, January 2021,
- 3 Mahsa Nematollahi, Azam Jalali Arani, Karim Golzar, Hamid Modarress, "Investigation of nanoparticle–polymer interaction in bio-based nanosilica-filled PLA/NR nanocomposites: molecular dynamics simulation", JOURNAL OF MOLECULAR MODELING, August 2020 Vol. 26, Num. 230, Page 1-20, August 2020,

- 4 Masoud Dadras Chamachayi, Azam Jalali Arani, J. Mart?Nez Urreaga, "The effect of silk fibroin nanoparticles on the morphology, rheology, dynamic mechanical properties, and toughness of poly(lactic acid)/poly(ε-caprolactone) nanocomposite", *JOURNAL OF APPLIED POLYMER SCIENCE*, March 2020 Vol. 0, Num. 0, Page 1-15, March 2020,
- 5 Freddy R. Beltr?N, Gerald Gaspar, Masoud Dadras Chamachayi, Azam Jalali Arani, Antonio A Lozano-Pérez, José L Cenís, M.U. De La Orden, E. Pérez, J. Mart?Nez Urreaga, "Influence of addition of organic fillers on the properties of mechanically recycled PLA", *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*, February 2020 Vol. 0, Num. 0, Page 1-14, February 2020,
- 6 Masoud Dadras Chamachayi, Azam Jalali Arani, F.R. Beltr?N, M.U. De La Orden, J. Mart?Nez Urreaga, "Biodegradable Nanocomposites Developed from PLA/PCL Blends and Silk Fibroin Nanoparticles: Study on the Microstructure, Thermal Behavior, Crystallinity and Performance", *JOURNAL OF POLYMERS AND THE ENVIRONMENT*, February 2020 Vol. 0, Num. 0, Page 1-13, February 2020,
- 7 Mahsa Nematollahi, Azam Jalali Arani, Hamid Modarress, "Effect of nanoparticle localization on the rheology, morphology and toughness of nanocomposites based on poly(lactic acid)/natural rubber/nanosilica", *POLYMER INTERNATIONAL*, January 2019 Vol. 68, Num. 4, Page 779-787, January 2019,
- 8 Mahsa Nematollahi, Azam Jalali Arani, Hamid Modarress, "High-performance bio-based poly(lactic acid)/natural rubber/epoxidized natural rubber blends: effect of epoxidized natural rubber on microstructure, toughness and static and dynamic mechanical properties", *POLYMER INTERNATIONAL*, November 2018 Vol. 0, Num. 0, Page 1-8, November 2018,
- 9 Mahdi Mehrabi Kooshki, Azam Jalali Arani, "Preparation of binary and hybrid epoxy nanocomposites containing graphene oxide and rubber nanoparticles: Fracture toughness and mechanical properties", *JOURNAL OF APPLIED POLYMER SCIENCE*, August 2018 Vol. 0, Num. 0, Page 1-9, August 2018,
- 10 Mahdis Hesami, Azam Jalali Arani, "Morphology Development via Static Crosslinking of (Polylactic Acid/Acrylic Rubber) as an Immiscible Polymer Blend", *MACROMOLECULAR MATERIALS AND ENGINEERING*, March 2018 Vol. 303, Num. 3, Page 1-8, March 2018,
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- 12 Hasan Ryazi, Azam Jalali Arani, Faramarz Afshar Taromi, "In situ synthesis of silica/polyacrylate nanocomposite particles simultaneously bearing carboxylate and sulfonate functionalities via soap-free seeded emulsion polymerization", *MATERIALS CHEMISTRY AND PHYSICS*, January 2018 Vol. 207, Num. 0, Page 470-478, January 2018,
- 13 Azin Paydayesh, Atemeh Pashaei Soorbaghi, Ahmad Arefazar, Azam Jalali Arani, "Electrical Conductivity of Graphene Filled PLA/PMMA Blends: Experimental Investigation and Modeling", *POLYMER COMPOSITES*, January 2018 Vol. -, Num. 0, Page 0-0, January 2018,
- 14 Hasti Bizhani, Vahid Nayyeri, Aliasghar Katbab, Azam Jalali Arani, Hossein Nazokdast, "Double percolated MWCNTs loaded PC/SAN nanocomposites as an absorbing electromagnetic shield", *EUROPEAN POLYMER JOURNAL*, January 2018 Vol. 0, Num. 0, Page 1-39, January 2018,
- 15 Amir Pasha Kharazi, Azam Jalali Arani, "Preparation of Silicon Carbide Nanoparticle/Butadiene Rubber/Silane Nanocomposites; Structural, Mechanical, Tribological and Thermal Properties", *JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS*, September 2017 Vol. 0, Num. 0, Page 1-13, September 2017,
- 16 Mahdis Hesami, Azam Jalali Arani, "Cold crystallization behavior of poly(lactic acid) in its blend with acrylic rubber; the effect of acrylic rubber content", *POLYMER INTERNATIONAL*, July 2017 Vol. 66, Num. 11, Page 1564-1571, July 2017,
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- 18 Ahmad Zarei, Azam Jalali Arani, "The relationship of vulcanization and structural characteristics-dispersion of organoclay-mechanical properties in (butadiene rubber/natural rubber) based nanocomposite", *ADVANCES IN POLYMER TECHNOLOGY*, February 2017 Vol. -, Num. 0, Page 0-0, February 2017,
- 19 Mahsa Nematollahi, Azam Jalali Arani, Karim Golzar, "Prediction of (Natural Rubber/Nanoclay) Nanocomposite properties via Artificial Neural Network (ANN)", *POLYMER*, December 2016 Vol. 21, Num. 83, Page 6-12, December 2016,

- 20 Azin Paydayesh, Ahmad Arefazar, Azam Jalali Arani, "A morphological study on the migration and selective localization of graphene in the PLA/PMMA blends", JOURNAL OF APPLIED POLYMER SCIENCE, August 2016 Vol. 5, Num. 1, Page 1-12, August 2016,
- 21 Aida Shoushtari Zadeh Naseri, Azam Jalali Arani, "Study on the morphology, static and dynamic mechanical properties of (styrene butadiene rubber/ethylene propylene diene monomer/organoclay) nanocomposites vulcanized by the gamma radiation", JOURNAL OF APPLIED POLYMER SCIENCE, July 2016 Vol. 133, Num. 25, Page 0-0, July 2016,
- 22 Mahsa Nematollahi, Azam Jalali Arani, Karim Golzar, "Experimental Study of Mechanical and Rheological Properties and Abrasion of Natural Rubber/Organo clay Nanocomposites, Prepared by Melt Mixing Method", , July 2016 Vol. 20, Num. 81, Page 4-13, July 2016,
- 23 Azin Paydayesh, Ahmad Arefazar, Azam Jalali Arani, "A Change of phase Morphology in poly lactic acid / methyl methacrylate Blends induced by Graphene nano sheets", JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS, December 2015 Vol. 54, Num. 12, Page 1466-1478, December 2015,
- 24 Azin Paydayesh, Ahmad Arefazar, Azam Jalali Arani, "Investigation the effect of Graphene on The Morphology, Mechanical and Thermal properties of PLA/PMMA Blends", Ciencia E Natura, December 2015 Vol. 37, Num. 1, Page 15-22, December 2015,
- 25 Hedayatollah Sadeghighari, Azam Jalali Arani, "Nanocomposites based on natural rubber, organoclay and nano-calcium carbonate: Study on the structure, cure behavior, static and dynamic-mechanical properties", APPLIED CLAY SCIENCE, November 2015 Vol. 119, Num. 0, Page 348-357, November 2015,
- 26 Azin Paydayesh, Ahmad Arefazar, Azam Jalali Arani, "A Change of Phase Morphology in Poly Lactic Acid/Poly Methyl Methacrylate Blends Induced by Graphene Nano Sheets", JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS, September 2015 Vol. 54, Num. 0, Page 1466-1478, September 2015,
- 27 Majid Rezaeiabadchi, Azam Jalali Arani, "Synergistic effects of nano-scale polybutadiene rubber powder (PBRP) and nanoclay on the structure, dynamic mechanical and thermal properties of polypropylene (PP)", IRANIAN POLYMER JOURNAL, August 2015 Vol. 24, Num. 0, Page 805-813, August 2015,
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- 29 Aida Shoushtari Zadeh Naseri, Azam Jalali Arani, "A comparison between the effects of gamma radiation and sulfur cure system on the microstructure and crosslink network of (styrene butadiene rubber/ethylene propylene diene monomer) blends in presence of nanoclay", RADIATION PHYSICS AND CHEMISTRY, June 2015 Vol. 115, Num. 0, Page 68-74, June 2015,
- 30 Ali Reza Monfared, Azam Jalali Arani, "Morphology and rheology of (styrene-butadiene rubber/acrylonitrile-butadiene rubber) blends filled with organoclay: The effect of nanoparticle localization", APPLIED CLAY SCIENCE, April 2015 Vol. 108, Num. 0, Page 1-11, April 2015,
- 31 Mohammad Mahdi Abolhasani, Minoo Naebe, Azam Jalali Arani, Qipeng Guo, "CRYSTALLINE STRUCTURES AND ? ? AND ? POLYMORPHS TRANSFORMATION INDUCED BY NANOCLAY IN PVDF-BASED NANOCOMPOSITE", NANO, September 2014 Vol. 9, Num. 6, Page 1-8, September 2014,
- 32 Mahsa Nematollahi, Azam Jalali Arani, Karim Golzar, "Organoclay maleated natural rubber nanocomposite. Prediction of abrasion and mechanical properties by artificial neural network and adaptive neuro-fuzzy inference", APPLIED CLAY SCIENCE, August 2014 Vol. 97-98, Num. 0, Page 187-199, August 2014,
- 33 Mahsa Nematollahi, Azam Jalali Arani, Karim Golzar, "Studying the Effect of Compatibilizer on Structure and Mechanical Properties of The Nanocomposites Based on Natural Rubber/Nanoclay", , June 2014 Vol. 18, Num. 73, Page 11-20, June 2014,
- 34 Mohammad Mahdi Abolhasani, Minoo Naebe, Azam Jalali Arani, Qipeng Guo, "Influence of Miscibility Phenomenon on Crystalline Polymorph Transition in Poly(Vinylidene Fluoride)/Acrylic Rubber/Clay Nanocomposite Hybrid", PLOS ONE, February 2014 Vol. 9, Num. 2, Page 0-0, February 2014,
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- 36 Mahsa Nematollahi, Azam Jalali Arani, "The use of waste rubber in natural rubber in the presence of maleic anhydride-grafted natural rubber (MA-g-NR): study on curing, rheology, morphology, and properties of the blend", JOURNAL OF POLYMER ENGINEERING, December 2013 Vol. -, Num. 0, Page 1-8, December 2013,
- 37 Ali Reza Monfared, Azam Jalali Arani, Naser Mohammadi, "The Effect of Epoxidized Natural Rubber and Two Kinds of Organoclay upon Molecular Interaction, Structure and Mechanical Properties of (Styrene-Butadiene Rubber/Acrylonitrile-Butadiene Rubber/Organoclay) Nanocomposites", JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS, December 2013 Vol. -, Num. 0, Page 0-0, December 2013,
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- 39 Mohammadmahdi Abolhasani, Azam Jalali Arani, Hossein Nazokdast, Qipeng Guo, "Poly(vinylidene fluoride)-acrylic rubber partially miscible blends: Crystallization within conjugated phases induce dual lamellar crystalline structure", POLYMER, August 2013 Vol. 54, Num. 17, Page 4686-4701, August 2013,
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- 42 Mohammadmahdi Abolhasani, Qipeng Guo, Azam Jalali Arani, Hossein Nazokdast, "Poly(vinylidene fluoride)-Acrylic Rubber Partially Miscible Blends: Phase Behavior and Its Effects on the Mechanical Properties", JOURNAL OF APPLIED POLYMER SCIENCE, April 2013 Vol. 130, Num. 2, Page 1247-1258, April 2013,
- 43 Mahsa Nematollahi, Azam Jalali Arani, Karim Golzar, "Employing waste rubber powder in polymeric matrices and its compatibilization methods", , December 2012 Vol. 17, Num. 67, Page 54-63, December 2012,
- 44 Karim Golzar, Azam Jalali Arani, Mahsa Nematollahi, "Statistical investigation on physical-mechanical properties of base and polymer modified bitumen using Artificial Neural Network", CONSTRUCTION AND BUILDING MATERIALS, October 2012 Vol. 37, Num. 0, Page 822-831, October 2012,
- 45 Hedayatollah Sadeghighari, Azam Jalali Arani, Zahra Shakori, "Molecular Diffusion of Toluene through CaCO₃ Filled Natural Rubber Composites", , July 2012 Vol. 25, Num. 2, Page 137-150, July 2012,
- 46 Hedayatollah Sadeghighari, Azam Jalali Arani, "Natural Rubber Nanocomposites Reinforced by Layered Silicates up to Now; a Review on Vulcanization Characteristics", , June 2012 Vol. 16, Num. 65, Page 12-20, June 2012,
- 47 Abbas Kebritchi, Azam Jalali Arani, Sayed Hasan Firoozifar, "Pyrolysis carbon black: Bitumen Properties Modifier", , June 2011 Vol. 15, Num. 61, Page 96-100, June 2011,
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- 50 Morteza Sadat Shirazi, Azam Jalali Arani, "Processing and performance of Compounds based on emulsion/solution SBRs", Tire Technology International, November 2010 Vol. 0, Num. 0, Page 54-55, November 2010,
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- 67 Azam Jalali Arani, [en-name N/A], "Continuous vulcanization of extruded compounds", , November 1992 Vol. , Num. 2, Page 0-0, November 1992,

Conference Papers

Portal Records

- 1 Azam Jalali Arani, Mohammad Reza Saberi Bidgoli, "The Effect of Silane on the Curing Characteristics and Mechanical Properties and of Natural rubber/Nanoclay/Calcium Carbonate Nanocomposite ", The Biennial International Conference on Experimental Solid Mechanics, February 2020
- 2 Nassim Soltanpour, Azam Jalali Arani, "Vulcanization of acrylic rubber containing chlorine cure sites through the soap-sulfur system,investigation of curing characteristics ", 1st international conference on rheology, December 2019
- 3 Masoud Dadras Chamachayi, Azam Jalali Arani, J. Mart?Nez Urreaga, "The Effect of Silk Fibroin Nanoparticle on the Rheology and Morphology of PLA/PCL Blend ", 1st International Conference on Rheology, December 2019

- 4 Masoud Dadras Chamachayi, F.R. Beltr?N, Azam Jalali Arani, E. Pérez, M.U. De La Orden, J. Mart?Nez Urreaga, " (Utilization of organic nanofillers from renewable resources in the recycling of poly(lactic acid " , 7TH INTERNATIONAL CONFERENCE ON SUSTAINABLE SOLID WASTE MANAGEMENT, June 2019
- 5 Hamidreza Heidary, Azam Jalali Arani, "Relationship between curing characteristics and mechanical properties of HTV silicone rubber ", 13th International Seminar on Polymer Science and Technology (ispst, November 2018
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- 7 Mahdi Mehrabi Kooshki, Azam Jalali Arani, "Effect of graphene oxide on the dynamic mechanical properties and crosslink density of epoxy-based nanocomposites ", 13th International Seminar on Polymer Science and Technology (ispst), November 2018
- 8 Mahsa Nematollahi, Azam Jalali Arani, Hamid Modarress, "Effect of ENR as a compatibilizer on rubber droplet size in bio-based PLA/NR blend ", 13th International Seminar on Polymer Science and Technology (ispst), November 2018
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Journals Editorial Board

#	Magazine Title	Date of Cooperation & Explanations
1	Iranian Rubber Magazine	2005-now

Taught Courses

#	Course title	Description	Headlines	Date
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1	The Measurement of Engineering Quantities	The aim of this course is to provide the students with the basic knowledge of measuring and applying instrumentation in industries and researches		Spring 2022
2	Production & Processing of Polymer Nano-Composites	Introduction of components, manufacturing methods and process of polymer nanocomposites with emphasis on elastomer and thermoplastic elastomer processing		Fall 2021
3	The Measurement of Engineering Quantities	The aim of this course is to provide the students with the basic knowledge of measuring and applying instrumentation in industries and researches		Fall 2021

Inventions/Patents

#	Invention title	Reg. number	Country	contributers	Reg. date	Exp. date
1	Preparation of elastomeric nanoparicles by gamma irradiation	86999			2015/10/1	2035/05/1
2	Pyrolysis of recycled rubber	64442			2010/05/1	-
3	preparation of thermplastic elastower baseb on (polyethglene/ groundtire rulber) by reaotiye mixing.	38709757			2008/12/1	2028/12/1
4	preparation of dyhamicaly yulcanized they moplastic elastomer based on IID p E /NR/ G t R	38709430			2008/11/1	2028/11/1
5	preparation of NR/BR/ organoclay nanocommposite to use in truch tire tread compoud.	38707016			2008/09/1	2028/09/1