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### Supervised MSc Theses

#	Thesis title	By	Date
1	Preparation of cell imprinted silicon substrated surface grafted by RGD amino-acid via plasma treatment : evaluation of cell adhesion and stem cell's differentiation to osteoblast cells	Sara Mohebi & Aliasghar Katbab	March 2022
2	Preparation of electroactive scaffold with potential for bone tissue engineering , based on PCL /TPU/ BaTiO3 /Nano cellulose	Hamta Kordbacheh & Aliasghar Katbab	February 2022
3	Study of microstructure and it's effect on processability and properties of hybridized of Nano composites based on PLA/PU/NANO calcium carbonate prepared by dynamic cure	Parisa Mirzaei & Aliasghar Katbab	October 2021
4	Effect of nano silica on determining friction resistance of tread tire	Masoumeh Kalantari & Aliasghar Katbab	October 2021
5	Double-phasd nanostructure foam based on polyurethane/RTV silicon/CNT az thermo-mechanical sensor: role of network elasticity	Siroos Eghbali Nia & Aliasghar Katbab	February 2020
6	Micromorphology-shape memory correlation in dynamically vulcanized thermoplastic elastomers based on PLA/NBR : Effect of phase ratio	Parmida Sadt Rasouli & Aliasghar Katbab	February 2020
7	The Relationship Between Microstructure and Electrical of Dynamically vulcanized Nanocomposite System Based on PLA / PU / GR	Maryam Ameri & Aliasghar Katbab	February 2020
8	Dynamically vulcanized biodegradable thermoplastic elastomer based on PLA/poly chloroprene rubber: micromorphology-mechanic	Zahra Shahroodi & Aliasghar Katbab	January 2020
9	Study of effective parameters in microstructure formation in PVDF/Graphene/CNT hybrid nanocomposite and its effect on the electrical properties of the system	Ali Naderi & Aliasghar Katbab	February 2019

10	Preparation of electrical conductive nano structured foam based on EVA/CNT : effects of the foam structural parameters upon dielectric propertice and EMW energy dissipatio	Amin Nazri & Aliasghar Katbab	February 2019
11	Preparation of conductive nanocomposites as electromagnetic interference shielding material in the X-band based on TPU/ nanographite/ Ferroelectric filler.	Shabnam Mousavi Fatmesari & Aliasghar Katbab	February 2019
12	Preparation of nanostructured foam as acoustic wave absorber based on EVA/EPDM/nanographite	Parvane Masoudi & Aliasghar Katbab	February 2019
13	effect of CNT surface treatment up on electrical percolation and piezoresistive behaviour of SEBS thermoplastic elastomer nanocomposite	Parisa Montazeri & Aliasghar Katbab	February 2019
14	Preparation of TPU/CNT nanocomposites: Effect of Hard / Soft segment ratio upon dielectric properties, conductivity threshold and shape memory behavior	Negar Tavakoli & Aliasghar Katbab	February 2019
15	English:Effect of CNT surface functionalization upon restructurization of SR/CNT nano composite with piezoresistive behaviour	Niloofer Esbati & Aliasghar Katbab	July 2018
16	surface modification of cell patternized nanocomposite styrene /nano hydroxy apatite (SR/nHP) by plasma grafting of Hyaluronic acid (HA): evaluation of cartilage cell differentiation	Maryam Gholami Arjangi & Aliasghar Katbab	February 2018
17	fabricating of PMMA/ CdSe quantum dots from electrospinning- investigating of optical behavior	Hadisehsadat Mousavi & Aliasghar Katbab	February 2018
18	study on the effects of surface elasticity and stiffness of smart substrates based on PDMS upon cell differentiation and bone regeneration	Khorshid Kamgouyan & Aliasghar Katbab	February 2017
19	Preparation of nanocomposite based on TPU/CNT via melt reactive mixing :Study of piezoresistive behavior and re-structurization	Elahe Hejazi & Aliasghar Katbab	September 2016
20	Flow induced nano Graphene orientation and its effects on crystallization and electrical and thermal conductivity in PVDF/Graphene nano composite	Milad Kamkar & Aliasghar Katbab	July 2016
21	Electrical/conductive nano composite based on foamed polyurethane/silicon rubber/and blend of carbon black and nano graphite to used for electromagnetic wave absorption	Javad Jeddi & Aliasghar Katbab	February 2014
22	The role of modulus and viscoelastic behavior of PP/EPDM/nano-hydroxyapatite nanocomposite thermoplastic elastomer in cell compatibility and skeletal stem cell differentiation	Sara Sedighi & Aliasghar Katbab	October 2013
23	Preparation of injectable hydrogel based on partially hydrolized poly acryl/amide and hydroxyl apatite for regeneration of cartilage defects : correlation between the gel viscoelasticity and cell comp	Newsha Koushki & Aliasghar Katbab	October 2013
24	Effect of degree of vulcanization and network elasticity upon electrical conduction percolation threshold of nanocomposites based on EPDM	Maryam Hatami & Aliasghar Katbab	February 2013
25	Study the role interfacial compatibilizer and processing parameters on micromorphology development and mechanical properties of PP/EPDM TPO materials reinforced by SiO2	Sonia Mokhtari Dizaji & Aliasghar Katbab	February 2013
26	The role of percentage of ACN and melt elasticity of acrylonitrile butadiene rubber on microstructure and gas barrier properties of NBR/CLAY nanocomposits	Azadeh Saadati Banafsheh Dargh & Aliasghar Katbab	October 2012
27	The study of synergistic effect of nano clay/nano tio2 hybrid upon antibacterial activity and permeability of photo-degradabile film grade lDpe nanocomposites	Seyede Maryam Alizadeh & Aliasghar Katbab	October 2012

28	Preparation of pressure sensitive electrically conductive nanocomposites based on thermoplastic vulcanizate(TPV)and hybride of nanographite/nanoclay and application a designed sensor	Azam Nasr Esfahani & Aliasghar Katbab	November 2011
29	relationship between the microstructure and rate of crack growth under dynamic ozone	Ali Mozaffari & Aliasghar Katbab	September 2011
30	The rolo of microstructure and viscoelastic behaviour on time dependency of piezoresistivity of silicone rubber nano graphite based nanocomposites	Ali Alikhani & Aliasghar Katbab	September 2011
31	preparation and study the thermal and tribologic properties of thermoplastic olefine (TPO) nanocomposite based on PP/EODM and nanodiamond	Fatemeh Hejazi Jahromi & Aliasghar Katbab	February 2011
32	Effect of clay/NR Nano Microstructure upon Viscoelastic behavior , Fatigue and Abrasion in Vulcanized Networks	Parisa Khoshnoud & Aliasghar Katbab	February 2011
33	experimental and theoretical study of orientation of organoclay plattelet in film process	Behzad Nazari Nasrabad & Aliasghar Katbab	January 2011
34	Investigation of Thermal and Electrical Properties of diamondoids Using Manybody Methods to Put to Use Polymer-Matrixes	Amir Rostami & Aliasghar Katbab	September 2010
35	Micro structure/permeability corelation in nano composite based on hdpe/pa/nano graphite compatibilized with epdm-g-mah	Abolfazl Akbari Ahmadabadi & Aliasghar Katbab	September 2009
36	Surface modification of silica nanopaticles and preparation silca / SBR nanocomposites	Saedeh Kazemi & Aliasghar Katbab	February 2009
37	Effects of Microstructure on Surface Wettability and Properties of PP/E PDM/CLay nanocomposite compatibilized with EVA	Ramin Yousefzadeh Tabasi & Aliasghar Katbab	February 2009
38	PREPARATION OF BIODEGRADABLE POLYMER NANOCOMPOSITE BASED ON PLA/PCL/MMT NANOCLAY, AND STRUCTURE-PROPERTY CORRELATION	Sadaf Shafiei Sabet & Aliasghar Katbab	October 2007

## Books

#	Title	Author(s)	Publisher country	publication date	version
<b>Portal Records</b>					
1	Elastomeric nanocomposite foams with improved properties for extreme conditions/ chapter6 elastomeric nanocomposite foams with improved properties for extreme conditions	Hasti Bizhani, Aliasghar Katbab, Raquel Verdejo	Spain	August 2019	1
2	Science and Engineering of Elastomers (Lastic)	Aliasghar Katbab	Iran (Islamic Republic of)	April 2019	1

## Journal Papers

Portal Records

- 1 Mina Shabani Samghabadi, Akbar Karkhaneh, Aliasghar Katbab, "Synthesis and characterization of electroconductive hydrogels based on oxidized alginate and polypyrrole-grafted gelatin as tissue scaffolds", *SOFT MATTER*, August 2021 Vol. 17, Num. 37, Page 8465-8473, August 2021,
- 2 Hasti Bizhani, Aliasghar Katbab, Emil Lopez-Hernandez, Jose Miguel Miranda, Miguel A Lopez-Manchado, Raquel Verdejo, "Preparation and Characterization of Highly Elastic Foams with Enhanced Electromagnetic Wave Absorption Based on Ethylene-Propylene-Diene-Monomer Rubber Filled with Barium Titanate/Multiwall Carbon Nanotube Hybrid", *Polymers-OPEN*, October 2020 Vol. 12, Num. 10, Page 2278-2293, October 2020,
- 3 Hasti Bizhani, Aliasghar Katbab, Emil Lopez-Hernandez, Jose Miguel Miranda, Raquel Verdejo, "Highly Deformable Porous Electromagnetic Wave Absorber Based on Ethylene-Propylene-Diene Monomer/Multiwall Carbon Nanotube Nanocomposites", *Polymers-OPEN*, April 2020 Vol. 12, Num. 4, Page 858-871, April 2020,
- 4 Javad Jeddi, Aliasghar Katbab, "The Electrical Conductivity and EMI Shielding Properties of Polyurethane Foam/Silicone rubber/ Carbon Black / Nano Graphite Hybrid composites", *POLYMER COMPOSITES*, October 2018 Vol. 39, Num. 10, Page 3452-3460, October 2018,
- 5 Ali Hosseinpour, Rasool Naseri, Sina Ghiassinejad, Milad Mehranpour, Aliasghar Katbab, Hossein Nazokdast, "Improving the electrical conductivity of ethylene 1-octene copolymer/cyclic olefin copolymer immiscible blends by interfacial localization of MWCNTs", *POLYMER ENGINEERING AND SCIENCE*, October 2018 Vol. 59, Num. 3, Page 447-456, October 2018,
- 6 Rezvan Soltani Shahyordi, Bianka M. D. Puscher, Aliasghar Katbab, Ievgen Levchuk, Negar Kazerouni, Nicola Gasparini, Nadia Camaioni, Andres Osvet, Miroslaw Batentschuk, "Improved Charge Carrier Dynamics in Polymer/Perovskite Nanocrystal Based Hybrid Ternary Solar Cells", *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*, September 2018 Vol. 20, Num. 9, Page 23674-23683, September 2018,
- 7 Fatemeh Pouladzadeh, Aliasghar Katbab, Nooshin Haghighipour, Elahe Kashi, "Carbon nanotube loaded electrospun scaffolds based on thermoplastic urethane (TPU) with enhanced proliferation and neural differentiation of rat mesenchymal stem cells: The role of state of electrical conductivity", *EUROPEAN POLYMER JOURNAL*, August 2018 Vol. 105, Num. 1, Page 286-296, August 2018,
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- 9 Mahshid Maroufkhani, Aliasghar Katbab, Jinwen Zhang, "Manipulation of the properties of PLA nanocomposites by controlling the distribution of nanoclay via varying the acrylonitrile content in NBR rubber", *POLYMER TESTING*, December 2017 Vol. 65, Num. 0, Page 313-321, December 2017,
- 10 Khorshid Kamgouyan, Aliasghar Katbab, Morteza Mahmoudi, Esben Thormann, Saeed Zajforoushan Moghaddam, Lida Moradi, Shahin Bonakdar, "An engineered cell-imprinted substrate directs osteogenic differentiation in stem cells", *Biomaterials Science*, November 2017 Vol. 6, Num. 189, Page 189-199, November 2017,
- 11 Sina Ghiassinejad, Behnaz Ranjbar Davijani, Aliasghar Katbab, Hossein Nazokdast, "Structural recovery mechanism after shear induced orientation of multiwalled carbon nanotube in polypropylene matrix", *POLYMER TESTING*, September 2017 Vol. 63, Num. 0, Page 475-483, September 2017,
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- 124 Aliasghar Katbab, "Isocyanate- terminated urethane prepolymer as bioadhesive base material synthesis and characterization ", , March 2001
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- 126 Nasrin Sheikh, Aliasghar Katbab, Hamid Mirzadeh, "Synthesis and evaluation of reactive urethane prepolymer as bioadhesive ", , September 2000
- 127 Aliasghar Katbab, Farhang Abbasi, Akbar Shojaei Soghorloo, "Effect of thermelastc parameter of Polymer\_Based composit friction materials on their themomechanical behavior ", , May 2000
- 128 Farhang Abbasi, Hamid Mirzadeh, Aliasghar Katbab, "Self Curving of Electrode Array by Polymer Surface Modification ", , May 2000
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- 130 Fatemeh Goharpey, Aliasghar Katbab, Hossein Nazokdast, "Mechanism of morphology development in dynamically cured EPDM/PP TEPS(I) effects of state of cure(S.O.C) ", , March 2000

- 131 Hamid Mirzadeh, Aliasghar Katbab, Mahnaz Alee Kolougani, "Effect of network structural density on swelling behavior and performance of anionic hydrogels based on acrylic acid monomer ", , March 2000
- 132 Fatemeh Goharpey, Aliasghar Katbab, Faramarz Afshar Taromi, "Effect of curing system on morphology and mechanical properties of dynamically cured EPDM/PP thermoplastic Elastomer (TPES) ", , March 2000
- 133 [en-name N/A], Aliasghar Katbab, Faramarz Afshar Taromi, "Effect of network structure density on swelling behavior and performance of anionic hydrogels based on acrylic acid / monomer ", , January 2000
- 134 Aliasghar Katbab, Hossein Nazokdast, Saeed Bazgir, "Study on morphology Development rheology and dynamic properties carbon black reinforced dynamically cured FPDM/PP thermoplastic Elastomer ", , January 2000
- 135 Azam Jalali Arani, Aliasghar Katbab, "Preparation and characterization of thermoplastic elastomers based on LLDPE / SR prepared through dynamic-graft copolymerization; The effect of structural parameters of polyethylene ", , March 1999
- 136 Aliasghar Katbab, "laser crafting of HEMA and NVP onto EPR(11) ", , March 1994
- 137 Aliasghar Katbab, "Induced graft copolymerization of methyl methacrylate (MMA) onto EPDM rubber improved oil resistivity ", , March 1994
- 138 Hamid Mirzadeh, Aliasghar Katbab, [en-name N/A], ".Laser Induced Surface Grafting of AAm, HEMA and NVP onto PDMS ", ,

## Taught Courses

#	Course title	Description	Headlines	Date
1	Elastomer Eng.	1. The Science and Technology of Rubber (James E. Mark)		Spring 2022
2	Characterizations & Applications of Polymer Nano-Materials	1. Introduction To a. Nanotechnology and Nanostructured materials. b. Nanocomposite polymers. c. Uniqueness and multifunctional features of nanostructured materials and polymer nanocomposites systems.		Spring 2022
3	Polymer Characterization Methods	Characterization of polymer systems		Fall 2021
4	Elastomer Eng.	1. The Science and Technology of Rubber (James E. Mark)		Fall 2021
5	Characterizations & Applications of Polymer Nano-Materials	1. Introduction To a. Nanotechnology and Nanostructured materials. b. Nanocomposite polymers. c. Uniqueness and multifunctional features of nanostructured materials and polymer nanocomposites systems.		Spring 2021
6	Elastomer Eng.	1. The Science and Technology of Rubber (James E. Mark)		Spring 2021
7	Advanced Characterization of Polymers	5-5		Spring 2021

## Inventions/Patents



#	Invention title	Reg. number	Country contributors	Reg. date	Exp. date
1	manufacturing of car brake pads with radaced noise generation and tempratare sensitive byusing thermo p/lastic elastomeis tpe	38412099		2006/02/1	2026/02/1