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931

**Supervised MSc Theses**

#	Thesis title	By	Date
1	Investigation of Particle size and Distribution on the Coalescence and Mechanical Properties	Abolfazl Mirhosseini & Morteza Ebrahimi	October 2021
2	Synthesis of Clay based hybrid Nano-pigment and study of its application in printing ink	Mitra Amiri & Morteza Ebrahimi	January 2021
3	Impermeability Enhancement of Polymer Films by Graphene Derivatives Coatings	Ali Amirabadizadeh & Morteza Ebrahimi	January 2021
4	preparation of hydroxylated polyester/polyisocyanate system for automotive refinish coatings	Lily Niknafs & Morteza Ebrahimi	January 2021
5	Preparation of Microcapsules Containing Phase Change Material and their Usage in Surface Coatings	Atiyeh Adelinia & Morteza Ebrahimi	February 2020
6	Improving printability of XLPE blends	Navid Mostofi Sarkari & Morteza Ebrahimi	June 2019
7	Synthesis of plant oil based acrylate oligomer and using in UV curable formulations	Parisa Najmi & Morteza Ebrahimi	February 2019
8	Preparation and Evaluation of PU-SiO <sub>2</sub> /Isocyanate microcapsule as healing agent	Mahmood Shariatmadar & Morteza Ebrahimi	October 2018
9	Optimization of effective parameters on reactivity o water soluble melamin formaldehyd curable with water-borne polyester dispersions	Ali Zamani Abiyaneh & Morteza Ebrahimi	July 2018

10	synthesis of ethyl silicate resin	Athena Afarideh Elah & Morteza Ebrahimi	February 2018
11	Electrical and mechanical properties of UV curing graphene/urethane acrylate nanocomposites	Behzad Sanati Kouloukhi & Morteza Ebrahimi	September 2017
12	Synthesis of water-reducible melamine-cured polyester-silica nano-composite	Amirali Mostafavi Mousavi & Morteza Ebrahimi	February 2017
13	preparation of PANI-GO nanocomposite and its application in zinc-rich epoxy coating to improve the corrosion resistance	Bahare Miri Ramshe & Morteza Ebrahimi	February 2017
14	investigation of epoxy acrylate/modified silica photocuring kinetic	Mahsa Gholipour & Morteza Ebrahimi	September 2016
15	Improving the mechanical properties of polyester-melamine using spherical nano silica and layered silicate	Salah Alizadeh & Morteza Ebrahimi	February 2015
16	The study of thermal degradation of thermoplastic elastomer polyurethane nanocomposites	Mostafa Gholami & Morteza Ebrahimi	May 2014
17	Synthesis of UV curable acrylated polyester resin containing silica nano particles	Masoud Mikaeili & Morteza Ebrahimi	February 2014
18	Formulating and investigating epoxy intumescent nano coating containing nano SiO <sub>2</sub> and nano LDHs	Elahe Kookhahi & Morteza Ebrahimi	October 2013
19	A study on the effect of cross-linker and monomer composition on the properties of acrylate latex as binder for traffic paints	Azam Alsadat Sardari Zarandi & Morteza Ebrahimi	October 2013
20	Emulsification of modified nitrocellulose with nanosilica	Fatemeh Fallah & Morteza Ebrahimi	October 2013
21	Improvement of thermal resistance and mechanical properties of epoxy resin by nano SiO <sub>2</sub> /expandable graphite	Arezo Mamani & Morteza Ebrahimi	May 2013
22	Synthesis and kinetics study of cycloaliphatic epoxide-acrylate resin and its usage for preparing epoxide-acrylate/nanocomposite	Talaye Jalali & Morteza Ebrahimi	March 2013
23	Modeling , desing and construct of a microreactor for polymerization of acrylate monomers	Hesam Nik Fazan & Morteza Ebrahimi	October 2012
24	Investing the effect of nanoclay & nanosilica on the physical -mechanical properties & corrosion resistance of nano camposite coating based on epoxy vinyl ester resin	Mahdi Beheshti & Morteza Ebrahimi	February 2012
25	Synthesis of side - chain cholesteric liquidcrystal polymers based on acrylic backbone and investigation of the effect of chiral	Mahdi Roohnikan & Morteza Ebrahimi	January 2012
26	preparation of silicone - silica nanocomposite as a fouling release binder	Ebrahim Raesi Nafchi & Morteza Ebrahimi	February 2011
27	Synthesis and characterisation of silyl acrylate resin used in SPC antifouling paints	Emran Seidan & Morteza Ebrahimi	February 2011
28	Preparation of acrylic/alkyd hybrid systems via free emulsifier mini emulsion polymerization	Mohammad Khazaei & Morteza Ebrahimi	July 2009
29	Study the physical and mechanical properties of powder Coating based on epoxy resin nano materials	Mehrdad Sharj Sharifi & Morteza Ebrahimi	February 2009
30	Study the effect of nano fillers on the mechanical properties of fouling release coatings	Hamid Reza Alah Wakil & Morteza Ebrahimi	September 2008

31	KINETIC STUDY OF UV-CURABLE ACRYLATED EPOXIED	Pooneh Kardar & Morteza Ebrahimi	October 2007
32	TOUGHENING OF EPOXY RESINS USING ACRYLIC ELASTOMERIC PHASE	Ehsan Rezazadeh Mafi & Morteza Ebrahimi	March 2007

## Books

#	Title	Author(s)	Publisher country	publication date	version
<b>Portal Records</b>					
1	Waterborne Resins and Coatings (synthesis, formulations and applicaions)a	Morteza Ebrahimi, S.Mahmud Kasiriha, E. Akbarinezhad	Iran (Islamic Republic of)	June 2013	2
2	Poly vinyl chloride: Principles of Science and Technology	Morteza Ebrahimi, Roza Khakbaz	Iran (Islamic Republic of)	December 2010	1
3	Crosslinkable Polyethylene Based Blends and Nanocomposites Chapter 14 : Risks and Limitations Associated with XLPE Nanocomposites and Blends	Navid Mostofi Sarkari, Seyed Mohsen Mohseni, Morteza Ebrahimi	United States	April 2021	1
4	Radiation Curable Coatings: chemistry and technology	Saeed Bastani, Morteza Ebrahimi, Pooneh Karar	Iran (Islamic Republic of)	April 2018	1

## Journal Papers

<b>Portal Records</b>					
1	Sahar Abdollahi Baghban, Morteza Ebrahimi, Manouchehr Khorasani, Shadab Bagheri, "Design of different self-stratifying patterns in a VOC-free light-curable coating containing bio-renewable materials: Study on formulation and processing conditions", PROGRESS IN ORGANIC COATINGS, September 2021 Vol. 161, Num. 106519, Page 1-16, September 2021,				
2	Sahar Abdollahi Baghban, Morteza Ebrahimi, Manouchehr Khorasani, Shadab Bagheri, "Self-stratifying behavior of a novel light-curable coating with gradient hydrophobic properties: Computational and experimental study", PROGRESS IN ORGANIC COATINGS, July 2021 Vol. 159, Num. 106435, Page 1-15, July 2021,				
3	, Farhad Sharif, Morteza Ebrahimi, "Bioinspired pressure-sensitive adhesive: evaluation of the effect of dopamine methacrylamide comonomer as a general property modifier using molecular dynamics simulation", RSC Advances, June 2021 Vol. 11, Num. 6, Page 20557-20569, June 2021,				
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5	Sahar Abdollahi Baghban, Morteza Ebrahimi, Shadab Bagheri, Manouchehr Khorasani, "A highly efficient microwave-assisted synthesis of an LED-curable methacrylated gelatin for bio applications", RSC Advances, April 2021 Vol. 11, Num. 4, Page 14996-15009, April 2021,				

- 6 Hassan Ghermezcheshme, Hesam Makki, Seyed Mohsen Mohseni, Morteza Ebrahimi, "Hydrophilic dangling chain interfacial segregation in polyurethane networks at aqueous interfaces and its underlying mechanisms: molecular dynamics simulations", *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*, November 2020 Vol. 22, Num. 11, Page 26351-26363, November 2020,
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- 8 Atefeh Nejadebrahim, Morteza Ebrahimi, Xavier Allonas, Celine Crotxe-Barghorn, Christian Ley, "Study on Performance and Mechanism of a Three-Component Photoinitiating System Based on Safranin", , July 2020 Vol. 14, Num. 2, Page 153-161, July 2020,
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- 78 Morteza Ebrahimi, M.J. Winterbottom, "The behaviour of on intermeshing twin screw extruder with catalyst immobilised screws as a threephase reactor", , January 1999 Vol. , Num. 48, Page 0-0, January 1999,

## Conference Papers

### Portal Records

- 1 Shokoufeh Karimi, Morteza Ebrahimi, Fatemeh Goharpey, "Kinetic study of an epoxy resin curing process by rheological and DSC analysis ", 1st international conference on rheology, December 2019
- 2 Shaghayegh Fazeli Sani, Manouchehr Khorasani, Morteza Ebrahimi, "Effect of temperature in Bess and carnauba waxes submicron emulsion formation by emulsion inversion point method with mixed nonionic surfactants ", The 7th International color and coating congress (ICCC2017), December 2018
- 3 Amirali Mostafavi Mousavi, Morteza Ebrahimi, Manouchehr Khorasani, Sahar Abdollahi Baghban, "A study on dispersion stability of water reducible acrylic grafted polyester ", The 7th International Color & coating (ICCC2017), December 2018
- 4 S.A. Seyedmehdi, Morteza Ebrahimi, "Fabriation of Superhydrophobic Modified-Polyurethane Coatings for Outdoor Insulators ", The 2nd International Conference of Theoretical and Applied Nanoscience and Nanotechnology (TANN18), June 2018
- 5 Amirali Mostafavi Mousavi, Morteza Ebrahimi, Manouchehr Khorasani, Sahar Abdollahi Baghban, "A study on dispersion stability of water-reducible acrylic-grafted polyester ", The 7th International Color & Coating Congress, December 2017
- 6 Seyyede Farzane Tabatabaee Hosseini, Manouchehr Khorasani, Morteza Ebrahimi, "Waterborne polyurethane dispersion: A review of recent versatile high-performance applications ", The 7th international color and coating congress, December 2017
- 7 Amir Khalajasadi, Morteza Ebrahimi, Seyed Mohsen Mohseni, "Mechanical properties of melamine-urea-formaldehyde microcapsules containing sunlight-curable silicone-based healing agent ", The 7th international color and coating congress, December 2017



- 8 Mahsa Gholipour, Morteza Ebrahimi, Pooneh Kardar, "Investigating on oxygen inhibition effect and uv curing kinetic of epoxy/modified nanosilica nanocomposites ", The 7th international color and coating congress, December 2017
- 9 Shaghayegh Fazeli Sani, Manouchehr Khorasani, Morteza Ebrahimi, "Effect of temperature in bees and carnauba waxes submicron emulsion formation by emulsion inversion point method with mixed nonionic surfactants ", The 7th international color and coating congress, December 2017
- 10 Atefeh Nejadebrahim, Morteza Ebrahimi, "Development a method for enhancing the stability of multi-component photoinitiators: "Nano pigmentation" ", The 7th international color coating congress (ICCC2017), December 2017
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- 12 Mitra Amiri, Morteza Ebrahimi, "A review on preparation of microcapsules using flow-focusing microfluidic device ", The 7th international color and coating congress, December 2017
- 13 Ali Mahmoodigahrouei, Morteza Ebrahimi, "comparison of corrosion resistance of a hybrid dye-clay nanopigment (DCNP) and a conventional organic pigment in epoxy coating ", 4th International conference on Applied Research in Chemistry Science and Biology, October 2017
- 14 Ali Mahmoodigahrouei, Morteza Ebrahimi, "Investigation of morphological and mechanical properties of an epoxy coating containing a hybrid dye-clay nanopigment (DCNP) ", 4th International conference on Applied Research in Chemistry Science and Biology, October 2017
- 15 Seyyede Farzane Tabatabaee Hosseini, Manouchehr Khorasani, Morteza Ebrahimi, "Waterborne Polyurethane: A Review of Recent Advances in Biological Applications ", 12th International Seminar on Polymer Science and Technology, November 2016
- 16 Amirali Mostafavi Mousavi, Morteza Ebrahimi, Manouchehr Khorasani, "Synthesis of water-reducible acrylic-grafted polyester resin: Effect of carboxyl content and pH on dispersion stability ", 12th International Seminar on Polymer Science and Technology, November 2016
- 17 Hossein Yahyaei, Morteza Ebrahimi, Hamed Vakili Tahami, Ehsan Rezazadeh Mafi, Esmail Akbarinezhad, "Synthesis of rubber modified epoxy resin: Corrosion, Abrasion and Thermal resistance studies ", 12th International Seminar on Polymer Science and Technology, November 2016
- 18 Amir Khalajasadi, Morteza Ebrahimi, Seyed Mohsen Mohseni, Sara SabzAvar, "Preparation and characterization of melamine-urea-formaldehyde microcapsules containing methacryloxy propyl ", 12th International Seminar on Polymer Science and Technology, November 2016
- 19 Ehsan Jalali, Morteza Ebrahimi, Reza Gholami, Masoud Mikaeili, "Mechanical properties and curing of unsaturated polyester resin: A comparison between two initiators ", 12th International Seminar on Polymer Science and Technology, November 2016
- 20 Dariush Bahramian, Farhad Sharif, Morteza Ebrahimi, "Design and Evaluation of a Plug Flow Reactor for the Reaction of Epoxy Resins with Acrylic Acid ", 12th International Seminar on Polymer Science and Technology, November 2016
- 21 Morteza Ebrahimi, Mohammad Reza Mohammadzadehattar, Mohsen Mohammadnezhad, "Improving the corrosion resistance of epoxy intumescent coatings by using nano clay ", National conference on the fire protection of bulidings and transportation vehicles, May 2016
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- 24 Mahsa Gholipour, Morteza Ebrahimi, "Solvent effect on nanosilica surface modification by acrylic silane-tertiary amine coupling agent ", 6th International Color and Coating Congress, ICC2015, November 2015








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- 28 Alireza Soleimanifar, Manouchehr Khorasani, Morteza Ebrahimi, "synthesis of water-borne nitro cellulose lacquer using as clear coat in internal automotive leather parts ", International congress on transportation coating, December 2014
- 29 Shamim Roshan, Marziyeh Danesh, Morteza Ebrahimi, Manouchehr Khorasani, "effect of cross link density of acrylic - epoxy thermoset systems on their physical and mechanical properties ", International congress on transportation coating, December 2014
- 30 Alireza Soleimanifar, Manouchehr Khorasani, Morteza Ebrahimi, "Synthesis of Water-borne Nitro Cellulose Lacquer Using as Clear Coat in Internal Automotive Leather Parts ", 4th International Congress on Transportation Coatings, December 2014
- 31 Azam Alsadat Sardari Zarandi, Morteza Ebrahimi, "Improving water-based acrylic traffic paints performance by using crosslinked acrylic core-shell binders ", 4th International Congress on Transportation Coatings, December 2014
- 32 Pooneh Kardar, Morteza Ebrahimi, Saeed Bastani, "curing behavior of TiO<sub>2</sub> pigmented UV-curable epoxy acrylate coatings: effect of temperature and light intensity ", 5th international color and coatings congress (ICC2013, December 2013
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- 34 Azam Alsadat Sardari Zarandi, Morteza Ebrahimi, "Synthesis of crosslinkable emulsion acrylic resins as binder for traffic paints ", 5th international color and coatings congress (ICC2013, December 2013
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- 37 Sepideh Ranji, Kiana Khalili, Morteza Ebrahimi, "Effect of formulation on curing and physical properties of UV curable epoxy acrylate system ", 5th international color and coatings congress (ICC2013, December 2013
- 38 Pooneh Kardar, Morteza Ebrahimi, Saeed Bastani, "curing behavior and mechanical properties of TiO<sub>2</sub> pigmented UV-curable epoxy acrylate coatings: effect of reactive diluents ", 5th international color and coatings congress, ICC2013, December 2013
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- 41 Mohsen Shahrivand, Jaber Nasrollah Gavani, Morteza Ebrahimi, Gity Mir Mohamad Sadeghi, "Modelling and analysis of the Laleh petrochemical plant for the production of low density polyethylene ", 10th International Seminar of Polymer science and Technology (ISPST2012), October 2012
- 42 Hesam Nik Fazan, Farhad Sharif, Morteza Ebrahimi, "Application of microreactors for free radical polymerization of acrylate monomers ", 10th International Seminar of Polymer science and Technology (ISPST2012), October 2012

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- 49 Mahdi Beheshti, Morteza Ebrahimi, "Synthesis and kinetics study of vinyl ester resins in the presence of aniline modified nano clay particles ", 4th international color and coatings congress (ICCC2011, November 2011
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- 55 Hamid Reza Alah Vakil, Morteza Ebrahimi, Ebrahim Raesi Nafchi, "Silicon-silica nano composite as fouling release coatings ", European Coatings Congress, March 2011
- 56 Fatemeh Ferdosian, Morteza Ebrahimi, Ali Jannesari, "Curing linetics of epoxy nanocomposites by isoconversional methods ", European Coatings Congress, March 2011
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- 58 Morteza Ebrahimi,, "Study the effect of reactive diluents on mechanical properties of UV cured urethane acrylate using experimental design ", 3rd international color and coatings congress (ICCC 2009, November 2009
- 59 Morteza Ebrahimi, Ehsan Rezazadeh Mafi, "Epoxy terminated polybutadiene rubber modified epoxy resin as a surface coating resin ", 3ed international color and coatings congress (ICCC 2009, November 2009
- 60 Ghodsieh Mashouf Roudsari, Morteza Ebrahimi, "Study the effect of reactive diluents on mechanical properties of UV cured urethane acrylate using experimental design ", , November 2009
- 61 Ghodsieh Mashouf Roudsari, Morteza Ebrahimi, "Improving the scratch resistance of a UV curable polyurethane acrylate by incorporation of alumina nano particles ", , October 2009

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- 63 Pooneh Karder, Morteza Ebrahimi, Saeid Bastani, Khosro Morady, "Study the effect of type and concentration of multifunctional acrylate monomers on UV cured epoxy acrylate resins " , , November 2007
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- 66 Maryam Ataefard, Siamak Moradian, Seid Mogtaba Mirabedini, Morteza Ebrahimi, Saeed Asiaban, "Modification of surface properties of low density polyethylene by oxygen plasma treatment and corona " , , October 2007
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- 69 Ahmad Karbasi, Siamak Moradian, Morteza Ebrahimi, Saeed Asiaban, "Comparison of different color prediction procedures to color match mass colored polypropylene " , , October 2007
- 70 Morteza Ebrahimi, Pooneh Karder, Saeid Bastani, "Synthesis and kinetics study of UV curable epoxy acrylate resin " , , September 2007
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- 85 Golrokh Heidari Hamedani, Morteza Ebrahimi, S.Reza Ghaffarian Anbaran, "Kinetics Study of Epoxy Vinyl Ester Resin Synthesis ", , November 2006
- 86 S.Mahmud Kasiriha, Morteza Ebrahimi, Manouchehr Khorasani, "The effect of material and process conditions on crosslink density of acrylic-epoxy resins ", , March 2006
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- 88 Morteza Ebrahimi, S.Mahmud Kasiriha, Manouchehr Khorasani, "crosslink density of epoxy cured acrylic resins at different temperatures ", , November 2005
- 89 Akram Ahmadi, Morteza Ebrahimi, S.Mahmud Kasiriha, Manouchehr Khorasani, "PP08 \_ Crosslink Density of Epoxy Cured Acrylic Resins at Different Temperatures ", , November 2005
- 90 Morteza Ebrahimi, Marzieh Nouri, "Investigation of blending composition and processing conditions effect on mechanical and optical properties of LLDPE/LDPE blown films using response surface methodology ", , September 2004
- 91 Morteza Ebrahimi, [en-name N/A], "Effect of process conditions on the impact strength of rotationally molded polyethylene parts ", , September 2004
- 92 Babak Kaffashi, Morteza Ebrahimi, "Superposition of dynamic oscillatory on steady shear flow for an associative polymer solution ", , September 2004
- 93 Naeemeh Shirakbari, Morteza Ebrahimi, S.Mahmud Kasiriha, [en-name N/A], "Effect of surfactant type and concentration on surfactant migration and adhesion of latex film ", , July 2004
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- 95 Saeed Pourmahdian, Amir Arjomand, Fatemeh Sajadii, Morteza Ebrahimi, "Semi \_ continuous emulsion copolymerization of butylacrylate and vinyl acetate: effect of mixed emulsifiers ", , July 2003
- 96 Morteza Ebrahimi, S.Mahmud Kasiriha, Manouchehr Khorasani, "Synthesis of waterborne alkyd resins with high hydrolytic stability ", , June 2003
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- 100 Morteza Ebrahimi, "A Study of Heterogenous Hydrogenation of Polybutadienes ", , March 2000
- 101 Morteza Ebrahimi, "A study of a twin screw extruder with catalyst immobilised screws as a three phase reactor ", , March 2000
- 102 Morteza Ebrahimi, "catalytic hydrogenation of viscous materials in a twin screw extruder with an immobilised palladium catalyst ", , July 1998
- 103 Morteza Ebrahimi, "heterogeneous hydrogenation of poly butadienes in a stirred tank reactor ", , April 1998
- 104 Morteza Ebrahimi, "the behaviour of an intermeshing twin screw extruder with catalyst immobilised screws as a three phase reactor ", , January 1998

## Taught Courses

#	Course title	Description	Headlines	Date
1	Chemical Reactions Engineering	Introduction to chemical reaction engineering and kinetics		Fall 2021
2	Adv. Kinetics & Reactor Design	Improving the capability of students in the field of kinetics and chemical reaction engineering		Fall 2021
3	Surface Coating Resins	Understanding the basic concepts of resin for surface coatings and learning the chemistry, production process and properties of resins		Fall 2021
4	Surface Coating Resins	Understanding the basic concepts of resin for surface coatings and learning the chemistry, production process and properties of resins		Spring 2021
5	Chemical Reactions Engineering	Introduction to chemical reaction engineering and kinetics		Spring 2021
6	Surface Coating Resins	Understanding the basic concepts of resin for surface coatings and learning the chemistry, production process and properties of resins		Fall 2020
7	Chemical Reactions Engineering	Introduction to chemical reaction engineering and kinetics		Fall 2020

### Inventions/Patents

#	Invention title	Reg. number	Country	contributors	Reg. date	Exp. date
1	Improving the scratch resistance of an urethane acrylate resin	66595			2010/09/1	-