



مرنضی گنجایی

دانشیار

پژوهشکده: پوشش های سطح و فناوری های نوین

گروه پژوهشی: نانو فناوری رنگ



سوابق تحصیلی

مقطع تحصیلی	سال اخذ مدرک	رشته و گرایش تحصیلی	دانشگاه
کارشناسی	۱۳۸۳	مهندسی پلیمر (صنایع رنگ و پوشش)	دانشگاه صنعتی امیرکبیر (پلی تکنیک تهران)
کارشناسی ارشد	۱۳۸۵	مهندسی پلیمر (صنایع رنگ و پوشش)	دانشگاه صنعتی امیرکبیر (پلی تکنیک تهران)
دکتری	۱۳۹۰	مهندسی پلیمر (صنایع رنگ و پوشش)	دانشگاه صنعتی امیرکبیر (پلی تکنیک تهران)

اطلاعات استخدامی

محل خدمت	عنوان سمت	نوع استخدام	نوع همکاری	پایه
		رسمی آزمایشی	تمام وقت	

سوابق اجرایی

1395- اکنون: مدیر دفتر نظارت و ارزیابی پژوهشگاه رنگ

1395- اکنون: عضو شورای پژوهشگاه رنگ

1396- اکنون: عضو کارگروه تخصصی نظارت، ارزیابی و تضمین کیفیت موسسات پژوهشی و فناوری عتف

1396- اکنون: عضو شورای رفاهی پژوهشگاه رنگ

1391- 1394: مدیر دبیرخانه و دبیر کانون هماهنگی فناوری رنگ معاونت علمی و فناوری ریاست جمهوری

1393: سرپرست روابط عمومی و امور بین الملل پژوهشگاه رنگ

1388-1389: همکار علمی پروفیسور نوربرت اشتربیک در دانشگاه هامبورگ و مرکز سینکروترون آلمان
DESY () و پژوهشگر همکار پروژه‌های تحقیقاتی اتحادیه‌ی اروپا با نام Nano Tough
1387-1388: مدرس دانشگاه آزاد اسلامی (واحد ماهشهر) رشته‌ی مهندسی پلیمر گرایش رنگ
1387-1385: رئیس بخش رنگ و پلیمر شرکت کالای الکترونیک

موضوعات تدریس تخصصی

- کلوئیدهای رنگی و سطوح مشترک (مقطع دکتری)
- شیمی- فیزیک سطح پیشرفته (مقطع کارشناسی ارشد)

زمینه های تدریس

- شیمی- فیزیک سامانه‌های پراکنده
- آمایش سطحی نانوذرات
- دیسپرسیون ذرات در محمل‌های پلیمری
- چسبندگی
- پوشش‌های نانوکامپوزیتی و ویژگی‌های ویسکوالاستیک
- خواص فیزیکی- مکانیکی پوشش‌ها

کارگاه ها

- پوشش‌های مورد استفاده در خطوط انتقال نفت، گاز و آب و رنگهای صنعتی
- بازرسی فنی پوشش‌های صنعتی

همایش ها و کنفرانس ها

- عضویت در هیات راهبردی پنجمین کنگره بین المللی رنگ و پوشش

مقالات در همایش ها

1. Morteza Ganjaee ,A Novel Hyperbranched Polymer-Modified Clay/Epoxy Nanocomposite: Physical-mechanical Properties Investigation ,The 6th International Color & Coating Congress ,Tehran ,2015/11/10
2. Morteza Ganjaee ,The effect of hyperbranched polymer on the curing behavior of uv curable .inkjet ink ,The 6th International Color & Coating Congress ,2015/11/10
3. Morteza Ganjaee ,Relating Performance and Structure of Advanced Nanocomposites by New

- Methods in Time-resolved X-Ray Scattering ,The Nineteenth International Conference on .Processing and Fabrication of Advanced Materials ,Auckland ,2011/01
- Morteza Ganjaee ,Functional Block Copolymers as Compatibilizers for Nanoclays in .4 .Polypropylene Nanocomposites ,Nordic Polymer Days ,Stockholm ,2011
- Morteza Ganjaee ,High-throughput procedures for the study of structure and its evolution in .5 soft materials with fiber symmetry ,VIII International Conference on X-Ray Investigations of .Polymer Structure XIPS ,Wroclaw ,2010/12
- Morteza Ganjaee ,In-situ monitoring the transient nanostructure of polypropylene/MWCNT .6 nanocomposite under uniaxial load-cycling by SAXS ,VIII International Conference on X-Ray .Investigations of Polymer Structure XIPS ,Wroclaw ,2010/12
- Morteza Ganjaee ,Structure Gradients in injection molded PP and PP with CNT ,NANOTOUGH .7 .F2F-Meeting ,Rome ,2010/10
- Morteza Ganjaee ,Structure evolution of Polypropylene/MWCNT nanocomposites under .8 uniaxial deformation monitored by SAXS ,4th International Conference on "Polymeric Materials" .,Halle ,2010/09
- Morteza Ganjaee ,Nanostructure Evolution of Thermoplastic Polyurethanes Under Uniaxial .9 Deformation Monitored by SAXS ,PPS-26 The Polymer Processing Society 26th Annual Meeting .,Banff ,2010/040

مقالات در نشریات

- S Khamseh , E Alibakhshi , B Ramezanzadeh , MG Sari,A tailored pulsed substrate bias voltage .1 deposited (aC: Nb) thin-film coating on GTD-450 stainless steel: Enhancing mechanical and .corrosion protection characteristics,Chemical Engineering Journal,2021 01 01
- Morteza Ganjaee Sari ,& Bahram Ramezanzadeh,Epoxy composite coating corrosion .2 protection properties reinforcement through the addition of hydroxyl-terminated hyperbranched polyamide non-covalently assembled graphene oxide platforms,Construction and Building .Materials,2020/02/17
- Layaa Ghazi Moradi , Morteza Ganjaee Sari , Bahram Ramezanzadeh,Polyester-amide .3 hyperbranched polymer as an interfacial modifier for graphene oxide nanosheets: Mechanistic .approach in an epoxy nanocomposite coating,Progress in Organic Coatings,2020 5 1
- Developing a Graphite like Carbon: Niobium thin film on GTD-450 stainless steel .4 .substrate,Applied Surface Science,2020 5 1
- Morteza Ganjaee Sari, Mina Abdolmaleki, Mehran Rostami, Bahram Ramezanzadeh,Nanoclay .5 dispersion and colloidal stability improvement in phenol novolac epoxy composite via graphene oxide for the achievement of superior corrosion protection performance,Corrosion Science,2020 .09 06
- Mina Abdolmaleki, Morteza Ganjaee Sari, MehranRostami, Bahram Ramezanzadeh,Graphene .6 oxide nanoflakes as an efficient dispersing agent for nanoclay lamellae in an epoxy-phenolic nanocomposite coating: Mechanistic approach,Composites Science and Technology,Vol. .184,2019/11/10
- Mahsa Saket , Reza Amini , Pooneh Kardar , Morteza Ganjaee,The chemical treatment of the .7 AZ31-Magnesium alloy surface by a high-performance corrosion protective praseodymium (III)- .based film,Materials Chemistry and Physics,2021 02 15
- Maryam Lotfi , Alireza Azizi , Hossein Yari , Morteza Ganjaee Sari,Aminosilane-co-Graphene .8 Oxide/Epoxy nanocomposite coating: An approach towards toughness and viscoelastic .properties enhancement,Progress in Organic Coatings,2021 02 01
- Mohammad Ramezanzadeh , Bahram Ramezanzadeh , Morteza Ganjaee Sari , Mohammad .9 Reza Saeb,Corrosion resistance of epoxy coating on mild steel through polyamidoamine dendrimer-covalently functionalized graphene oxide nanosheets,Journal of Industrial and

- Norbert Stribeck, Ahmad Zeinolebadi, Morteza Ganjaee Sari, Stephan Botta, Katja Jankova, .10
Søren Hvilsted, Aleksey Drozdov, Rasmus Klitkou, Catalina ,& Gabriela Potarniche, Jesper
deClaville Christiansen, Valentina Ermini, Properties and semicrystalline structure evolution of
polypropylene/montmorillonite nanocomposites under mechanical
.load, *Macromolecules*, 2011/12/20
- Morteza Ganjaee Sari, Mohammadreza Shamshiri, Bahram Ramezanzadeh, Fabricating an .11
epoxy composite coating with enhanced corrosion resistance through impregnation of
.functionalized graphene oxide-co-montmorillonite Nanoplatelet, *Corrosion Science*, 2017/12/1
- M Ganjaee Sari, Bahram Ramezanzadeh, Mohammad Shahbazi, Amir Saeid Pakdel, Influence .12
of nanoclay particles modification by polyester-amide hyperbranched polymer on the corrosion
.protective performance of the epoxy nanocomposite, *Corrosion Science*, 2015/3/1
- Morteza Ganjaee Sari, Norbert Stribeck, Siamak Moradian, Ahmad Zeinolebadi, Saeed .13
Bastani, Stephan Botta, Correlation of nanostructural parameters and macromechanical
behaviour of hyperbranched-modified polypropylene using time-resolved small-angle X-ray
.scattering measurements, *Polymer International*, 2013/7/1
- Morteza Ganjaee Sari, Norbert Stribeck, Siamak Moradian, Ahmad Zeinolebadi, Saeed .14
Bastani, Stephan Botta, Ehsan Bakhshandeh, Dynamic mechanical behavior and nanostructure
.morphology of hyperbranched-modified polypropylene blends, *Polymer International*, 2014/2/1
- Ahmad Zeinolebadi, Norbert Stribeck, Morteza Ganjaee-Sari, Nadya Dencheva, Zlatan .15
Denchev, Stephan Botta, Nanostructure evolution mechanisms during slow load-cycling of
oriented HDPE/PA microfibrillar blends as a function of composition, *Macromolecular Materials
& Engineering*, 2012/11/01
- Norbert Stribeck, Ahmad Zeinolebadi, Morteza Ganjaee Sari, Achim Frick, Marzena Mikoszek, .16
Stephan Botta, Structure and Mechanical Properties of an Injection-Molded Thermoplastic
Polyurethane as a Function of Melt Temperature, *Macromolecular Chemistry and
Physics*, 2011/10/17
- Ahmad Zeinolebadi, Norbert Stribeck, Zina Vuluga, Christoph Schloen, Stephan Botta, .17
Morteza Ganjaee Sari, SAXS investigation of structure–property relationship of
polypropylene/montmorillonite composites during load cycling, *Polymers for Advanced
Technologies*, 2013/8/1
- Farbod Mirshahi, Saeed Bastani, Morteza Ganjaee Sari, Studying the effect of hyperbranched .18
polymer modification on the kinetics of curing reactions and physical/mechanical properties of
.UV-curable coatings, *Progress in Organic Coatings*, 2016/1/1
- Morteza Ganjaee Sari, Mohammad Shahbazi, Amir Saeid Pakdel, Developing a Novel .19
Hyperbranched Polymer-Modified PP/Clay Nanocomposite: Characteristics
.Investigation, *Polymer-Plastics Technology and Engineering*, 2014/10/30
- B Ramezanzadeh, M Shamshiri, M Ganjaee Sari, Designing a multi-functionalized clay .20
lamellar-co-graphene oxide nanosheet system: An inventive approach to enhance mechanical
characteristics of the corresponding epoxy-based nanocomposite coating, *Progress in Organic
Coatings*, 2018/3/1
- Morteza Ganjaee Sari, Siamak Moradian, Saeed Bastani, Norbert Stribeck, Modification of poly .21
(propylene) by grafted polyester-amide-based dendritic nanostructures with the aim of improving
.its dyeability, *Journal of Applied Polymer Science*, 2012/5/5
- Sarah Sobhani, Saeed Bastani, Ulf W Gedde, Morteza Ganjaee Sari, Bahram .22
Ramezanzadeh, Network formation and thermal stability enhancement in evolutionary crosslinked
PDMS elastomers with sol-gel-formed silica nanoparticles: Comparativeness between as-
.received ..., *Progress in Organic Coatings*, 2017/12/1
- Morteza Ganjaee Sari, Bahram Ramezanzadeh, Amir Saeid Pakdel, Mohammad Shahbazi, A .23
physico-mechanical investigation of a novel hyperbranched polymer-modified clay/epoxy

- .nanocomposite coating, *Progress in Organic Coatings*, 2016/10/1
- Samane Jafarifard, Saeed Bastani, Atasheh Soleimani, & Gorgani, Morteza Ganjaee Sari, The chemo-rheological behavior of an acrylic based UV-curable inkjet ink: Effect of surface chemistry for hyperbranched polymers, *Progress in Organic Coatings*, 2016/1/1
- Mohammad Reza Derakhshandeh, Mohammad Javad Eshraghi, Mohammad Mahdi Hadavi, Masoumeh Javaheri, Sarah Khamseh, Morteza Ganjaee Sari, Payam Zarrintaj, Mohammad Reza Saeb, Masoud Mozafari, Diamond-like carbon thin films prepared by pulsed-DC PE-CVD for biomedical applications, *Surface Innovations*, 2018/3/21
- Ehsan Bakhshandeh, Sarah Sobhani, Ali Jannesari, Amir Saeid Pakdel, Morteza Ganjaee Sari, Mohammad Reza Saeb, Structure–property relationship in epoxy-silica hybrid nanocomposites: The role of organic solvent in achieving silica domains, *Journal of Vinyl and Additive Technology*, 2015/12/01
- Mohammad Reza Derakhshandeh, Mohammad Javad Eshraghi, Masoumeh Javaheri, Sara Khamseh, Morteza Ganjaee Sari, Payam Zarrintaj, Mohammad Reza Saeb, Masoud Mozafari, Diamond-like carbon-deposited films: a new class of biocorrosion protective coatings, *Surface Innovations*, 2018/5/15
- Samira Ghiyasi, Morteza Ganjaee Sari, Meisam Shabani, Mohsen Hajibeygi, Payam Zarrintaj, Marco Rallini, Luigi Torre, Debora Puglia, Henri Vahabi, Maryam Jouyandeh, Fouad Laoutid, Seyed Mohammad Reza Paran, Mohammad Reza Saeb, Hyperbranched poly (ethyleneimine) physically attached to silica nanoparticles to facilitate curing of epoxy nanocomposite coatings, *Progress in Organic Coatings*, 2018/7/1
- Morteza Ganjaee Sari, Henri Vahabi, Xavier Gabrion, Pascal Laheurte, Payam Zarrintaj, Krzysztof Formela, Mohammad Reza Saeb, An attempt to mechanistically explain the viscoelastic behavior of transparent epoxy/starch-modified ZnO nanocomposite coatings, *Progress in Organic Coatings*, 2018/6/1
- Morteza Ganjaee Sari, Mohammad Reza Saeb, Meisam Shabani, Mahroo Khaleghi, Henri Vahabi, Christelle Vagner, Payam Zarrintaj, Reza Khalili, Seyed Mohammad Reza Paran, Bahram Ramezanzadeh, Masoud Mozafari, Epoxy/starch-modified nano-zinc oxide transparent nanocomposite coatings: a showcase of superior curing behavior, *Progress in Organic Coatings*, 2018/2/1
- M. Ganjaee, M. Saeed Mohseni, Ezeddin Mohajerani, Y. Aghili, Siamak Moradian, Preparation of organically modified hybrid nanocomposites for optical applications, *Journal of Optoelectronics and Advanced Materials*, 2008/03/01
- Hadi Rastin, Mohammad Reza Saeb, Milad Nonahal, Meisam Shabani, Henri Vahabi, Krzysztof Formela, Xavier Gabrion, Farzad Seidi, Payam Zarrintaj, Morteza Ganjaee Sari, Pascal Laheurte, Transparent nanocomposite coatings based on epoxy and layered double hydroxide: nonisothermal cure kinetics and viscoelastic behavior assessments, *Progress in Organic Coatings*, 2017/12/1
- Milad Nonahal, Hadi Rastin, Mohammad Reza Saeb, Morteza Ganjaee Sari, Mojtaba Hamedian Moghadam, Payam Zarrintaj, Bahram Ramezanzadeh, Epoxy/PAMAM dendrimer-modified graphene oxide nanocomposite coatings: Nonisothermal cure kinetics study, *Progress in Organic Coatings*, 2018/1/1
- Elham Yarahmadi, Khadijeh Didehban, Morteza Ganjaee Sari, Mohammad Reza Saeb, Meisam Shabani, Fezzeh Aryanasab, Payam Zarrintaj, Seyed Mohammad Reza Paran, Masoud Mozafari, Marco Rallini, Debora Puglia, Development and curing potential of epoxy/starch-functionalized graphene oxide nanocomposite coatings, *Progress in Organic Coatings*, 2018/6/1
- Layaa Ghazi Morai, Morteza Ganjaee, Bahram Ramezanzadeh, Hyperbranched Polymers-Modified Epoxy-based Nanocomposite Coatings, *Journal of Studies in Color World*, ۲۰۱۷/۱۱/۲۲
- Meysam Roshan, Saeed Bastani, Morteza Ganjaee, Surface modification and characterization of polyester amide hyperbranched polymer with ۳-mercaptopropyl trimethoxysilane from sol-gel

- .method. Journal of Color Science and Technology. ۲۰۱۷/۰۵/۲۲
- ۳۷ Samane Jafarifard, Saeed Bastani, Atasheh Soleimani Gorgani, Morteza Ganjaee Sari. Effect of Hyperbranched Polymers on Curing Behavior of UV Curable Inks in Inkjet Printing. Iranian Journal of Polymer Science and Technology. ۲۰۱۶/۰۸/۲۲
- ۳۸ Saeed Khojasteh, Mohammad Ghofrani, Morteza Ganjaee. The effect of adding zinc oxide nanoparticles on color change and adhesion strength of polyurethane coating on wood surface. Iranian Journal of Wood and Paper Science Research. ۲۰۱۶/۰۲/۲۰
- ۳۹ Samane Jafarifard, Saeed Bastani, Atasheh Soleimani Gorgani, Morteza Ganjaee Sari. Dendritic Polymers: Physical Properties and Their Application in Polymer Blends. Polymerization. ۲۰۱۵/۱۱/۲۲
- ۴۰ Farbod Mirshahi, Saeed Bastani, Morteza Ganjaee. Surface Modification of Polyesteramide-Based Hyperbranched Polymer Using Acrylic Acid and Study of its Impact on the Viscosity of TMPTA. Journal of Color Science & Technology. ۲۰۱۵/۰۲/۲۰
- ۴۱ Samane Jafarifard, Saeed Bastani, Atasheh Soleimani Gorgani, Morteza Ganjaee Sari. A Study on modifying a hyperbranched polymer with hydroxyl end-groups using saturated fatty acid and investigating its effects on the rheological behavior of epoxy di-acrylate oligomers. Journal of Advanced Materials & Novel Coatings. ۲۰۱۴/۰۸/۲۳
- ۴۲ Samane Jafarifard, Saeed Bastani, Atasheh Soleimani Gorgani, Morteza Ganjaee Sari. A Study of Radiation-curable Inks in Ink-jet Printing. Journal of Studies in Color World. ۲۰۱۴/۰۴/۲۱
- ۴۳ Morteza Ganjaee, Siamak Moradian, Saeed Bastani. Dendritic Polymers: Dye-ability Enhancers. Journal of Studies in Color World. ۲۰۱۴/۰۲/۲۰
- ۴۴ Morteza Ganjaee, Mohammad Shahbazi, Amirsaeed Pakdel. Polypropylene Nanocomposite based on Nanoclay and Polyester-amide Hyperbranched Polymer: Development and Characteristics Investigation. Journal of Color Science & Technology. ۲۰۱۴/۰۲/۲۰
- ۴۵ M. Ganjaee, M. Saeed Mohseni, Ezeddin Mohajerani, Y. Aghili, Siamak Moradian. Synthesis and Characterization of Organic-Inorganic Polyacrylate-Silica Nanocomposite. Iranian Journal of Polymer Science and Technology. ۲۰۰۷/۱۱/۰۱
- 46 Ali Ebrahimi Jahromi, Ahmad Arefazar, Omid Moini Jazani, Morteza Ganjaee Sari, Mohammad Reza Saeb, Mohammad Salehi, Taguchi-based analysis of polyamide 6/acrylonitrile-butadiene rubber/nanoclay nanocomposites: The role of processing variables, Journal of Applied Polymer Science, 2013/10/15