

Title	Authors	Volume	Impact Factor	PrintYear	Journal Name
Efficient hydro-finishing of polyalphaolefin based lubricants under mild reaction condition using Pd on ligands decorated halloysite	M. Tabrizi, S. Sadjadi, Gerard Pareras, M. Nekoomanesh-Haghighi, N. Bahri-Laleh, A. Poater	581	7/489	2021	Journal of Colloid and Interface Science
Low density lipoprotein (LDL) apheresis from blood plasma via anti-biofouling tuned membrane incorporated with graphene oxide-modified carrageenan	R. Dehghan, J. Barzin	620	7/183	2021	Journal of Membrane Science
Fabrication of carboxymethyl chitosan/poly(ϵ -caprolactone)/doxorubicin/ nickel ferrite core-shell fibers for controlled release of doxorubicin against breast cancer	M. Abasalta., A. Asefnejad*, M. T. Khorasani, A. Ramazani Saadatabadi	257	7/182	2021	Carbohydrate Polymer
Surface modification of oxidized carbon fibers by grafting bis (triethoxysilylpropyl) tetrasulfide (TESPT) and rubber sizing agent : Application to short carbon fibers/SBR composites	M. Andideh , M. H. R. Ghoreishy *, S. Soltani , F. Abbassi Sourki	141	6/444	2021	Composites Part A
Preparation and characterization of electrospun polyethersulfone polyvinylpyrrolidone-zeolite core-shell composite nanofibers for creatinine adsorption	F.Haghdoust, S. Hajir Bahrami, J.Barzin, A. Ghace	257	5/774	2021	Separation and Purification Technology
Pd on nitrogen rich polymer-halloysite nanocomposite as an environmentally benign and sustainable catalyst for hydrogenation of polyalphaolefin based lubricants	S. Karimi, N. Bahri-Laleh*, G. Pareras, S. Sadjadi, M. Nekoomanesh-Haghighi, A. Poater	97	5/278	2021	Journal of Industrial and Engineering Chemistry
Superhydrophobic cotton fabrics coated by chitosan and titanium dioxide nanoparticles with enhanced antibacterial and UV-protecting properties	M. Raeisi, Y Kazerouni, A Mohammadi, M Hashemi, I Hejazi, J Seyfi, H.A. Khonakdar, S. M. Davachi	171	5/162	2021	International Journal of Biological Macromolecules
Enhanced antimicrobial and full-thickness wound healing efficiency of hydrogels loaded with heparinized ZnO nanoparticles: In vitro and in vivo evaluation	M. T. Khorasani*, A. Joorabloo, H. Adeli, P. Brouki Milan, M. Amoupour	166	5/162	2021	International Journal of Biological Macromolecules
Recent Advances in Biopolymers/carbohydrate Polymers as Effective Corrosion Inhibitive Macromolecules: A Review Study from Experimental and Theoretical Views	M. H. Shahini, B. Ramezanzadeh, H. Eivaz Mohammadloo	325	5/065	2021	Journal of Molecular Liquids
The effect of ionic liquid containing AlCl ₃ catalytic systems on the microstructure and properties of polyalphaolefin based lubricants	M. Tabrizi, N. Bahri-Laleh, S. Sadjadi., M. Nekoomanesh-Haghighi	335	5/065	2021	Journal of Molecular Liquids
Magnetic (poly) ionic liquids: A promising platform for green chemistry	S. Sadjadi	323	5/065	2021	Journal of Molecular Liquids
Statistical optimization of electrochemical conversion of heavy fuel oil to valuable products using response surface methodology	F. Mohammadi,*, Sh. Mokhtari, A. Naderifar	148	4/966	2021	Process Safety and Environmental Protection
A novel two-component self-healing coating comprising vinyl ester resin-filled microcapsules with prolonged anticorrosion performance	E. Adibzadeh, S. M. Mirabedini,* M. Behzadnasab, R. R. Farnood	154	4/469	2021	Progress in organic coatings

Spiropyran-based photoswitchable acrylic nanofibers: A stimuli-responsive substrate for light controlled C6 glioma cells attachment/detachment	K. Karimipour, J. Keyvan Rad, S. Shirvalilou, S. Khoei, A. R. Mahdavian	203	4/389	2021	Colloids and Surfaces B: Biointerfaces
MTX-Loaded Dual Thermoresponsive and pH-Responsive Magnetic Hydrogel Nanocomposite Particles for Combined Controlled Drug Delivery and Hyperthermia Therapy of Cancer	A. Najafipour, A. Gharieh, A. Fassihi, H. Sadeghi-Aliabadi, A. R. Mahdavian	18	4/321	2021	Molecular Pharmaceutics
Rhodamine-based fluorescent polyacrylic nanoparticles: A highly selective and sensitive chemosensor for Fe (II) and Fe (III) cations in water	S. Ghezselfloo, J. Keyvan Rad, M. Hajiali, A. R. Mahdavian	9	4/3	2021	Journal of Environmental Chemical Engineering
Ball-milled Cu ₂ S nanoparticles as an efficient additive for modification of the PVDF ultrafiltration membranes: Application to separation of protein and dyes	A. Karimi, A. Khataee*, A. Ghadimi, V. Vatanpour	9	4/3	2021	Journal of Environmental Chemical Engineering
CO ₂ -, electric potential-, and photo-switchable-hydrophilicity membrane (x-SHM) as an efficient color-changeable tool for oil/water separation	T. Fazel Dehkordi, A. Rezaee Shirin-Abadi*, K. Karimipour, A. R. Mahdavian	212	4/231	2021	Polymer
Magneto-responsive photochromic acrylic copolymer nanoparticles: An investigation into the mutual interactions and photoisomerization kinetics	A. Mouraki, Z. Alinejad, S. Sanjabi, H. Salehi-Mobarakeh, A. R. Mahdavian	218	4/231	2021	Polymer
Cellulose and its derivatives: towards biomedical applications	H. Seddiqi, E. Oliaei. H. Honarkar, J. Jin, L. C. Geonzon, Rommel G. Bacabac, J. Klein-Nulend	28	4/21	2021	Cellulose
Soybean oil-derived non-isocyanate polyurethanes containing azetidinium groups as antibacterial wound dressing membranes	H. Gholami, H. Yeganeh	142	3/862	2021	European Polymer Journal
Influence of Graphene Oxide on Thermally Induced Shape Memory Behavior of PLA/TPU Blends: Correlation with Morphology, Creep Behavior, Crystallinity, and Dynamic Mechanical Properties	F. Azadi, S. H. Jafari,* H. A. Khonakdar, M. Arjmand, U. Wagenknecht, V. Altstädt	306	3/853	2021	Macromol. Mater. Eng.
Improved surface properties in spray-coated PU/TiO ₂ /graphene hybrid nanocomposites through nonsolvent-induced phase separation	S. Mirzadeh, A. Asefnejad, H. A. Khonakdar*, S. H. Jafari	405	3/784	2021	Surface & Coatings Technology
Robust three-dimensionally printed polypropylene/highly sulfonated polysulfone composites for potential applications in fuel cells	M. Mohammadi, Sh. Mehdipour-Ataei	45	3/741	2021	Int J Energy Res
Predicting the tensile strength and elongation at break of PP/graphene/glass fiber/EPDM nanocomposites using response surface methodology	F. Ashenai Ghasemi, M. Nouri Niyaraki, I. Ghasemi, S. Daneshpayeh	28	3/517	2021	MECHANICS OF ADVANCED MATERIALS AND STRUCTURES
A flat-plate spiral-channeled membrane heat exchanger for methane dehumidification: Comparison of kraft paper and thin-film composite membrane	M. Salafi, N. Asasian-Kolur, S. M. Sharifian *, A. Ghadimi	167	3/476	2021	International Journal of Thermal Sciences

Nanocomposite of functionalized halloysite and Ag(0) decorated magnetic carbon dots as a reusable catalyst for reduction of dyes in water	M. Latifi Pour, M. Kazemeini*, S. Sadjadi	152	3/442	2021	Journal of Physics and Chemistry of Solids
Composite of β -cyclodextrin and bentonite clay: a promising support for Pd immobilization and developing a catalyst for hydrogenation of nitroarenes under mild reaction condition	S. Sadjadi *, F. Koohestani	151	3/442	2021	Journal of Physics and Chemistry of Solids
On the properties of nanosilicate-based filled dental adhesives: Synthesis, characterization, and optimized formulation	L. Solhi*, M. Atai, A. Nodehi, M. Imani	119	3/372	2021	Journal of the Mechanical Behavior of Biomedical Materials
Gas permeation properties of highly cross-linked castor oil-based polyurethane membranes synthesized through thiol-yne click polymerization	M. Mansouri, A. Ghadimi, R. Gharibi*, S. Norouzbahari	158	3/333	2021	Reactive and Functional Polymers
Investigation on viscoelastic behavior of virgin EPDM/ reclaimed rubber blends using Generalized Maxwell Model (GMM)	A. Salimi, F. Abbassi-Sourki *, M. Karrabi, M. H. R. Ghoreishy	93	3/275	2021	Polymer Testing
Preparation of novel nano-based films impregnated by potassium permanganate as ethylene scavengers: An optimization study	A. Ebrahimi, M. Z. Khajavi, A. M. Mortazavian, H. Asilian-Mahabadi, S. Rafiee, M. Farhoodi, Sh. Ahmadi	93	3/275	2021	Polymer Testing
An approach for prediction optimum crystallization conditions for formation of beta polypropylene by response surface methodology (RSM)	M. Farahani, Y. Jahani	93	3/275	2021	Polymer Testing
1-Decene oligomerization by new complexes bearing diamine-diphenolates ligands: Effect of ligand structure	A. Hanifpour, N. Bahri-Laleh, M. Nekoomanesh-Haghighi, A. Poater	35	3/14	2021	Appl Organomet Chem.
Determining process-window for manufacturing of continuous carbon fiber-reinforced composite Using 3D-printing	N. Mosleh, A. M. Rezadoust, S. Dariushi	36	3/046	2021	Materials and Manufacturing Processes
The effect of process and structural parameters on the stability, thermo-mechanical and thermal degradation of polymers with hydrocarbon skeleton containing PE, PP, PS, PVC, NR, PBR and SBR	M. Seifali Abbas-Abadi	143	2/731	2021	Journal of Thermal Analysis and Calorimetry
Investigation of the cure kinetics and thermal stability of an epoxy system containing cystamine as curing agent	H. R. Khalafi, M. Ehsani, H. A. Khonakdar	32	2/578	2021	Polymers for Advanced Technologies
Novel blended poly(sulfide sulfone)/poly(ether sulfone) dense membranes for water treatment	S. Babanzadeh, Sh. Mehdipour-Ataei, S. Khodami	32	2/578	2021	Polym Adv Technol.
Fabrication and study of thermal and combustion resistance of DOPO functionalized polyamide reinforced with organo-modified Mg(OH) ₂ nanoparticles	M. Hajibeygi*, N. Habibnejad, M. Shabaniyan, H. A. Khonakdar	70	2/574	2021	Polym Int
Single-phase photo-cross-linkable adhesive synthesized from methacrylic acid-grafted 1-decene/9-decene-1-ol cooligomer	A. Hanifpour, N. Bahri-Laleh, M. Nekoomanesh-Haghighi	138	2/52	2021	J Appl Polym Sci

Enhancement of thermal, morphological, and mechanical properties of compatibilized based on PA6-enriched graphene oxide/EPDM-g-MA/CR: Graphene oxide and EPDM-g-MA compatibilizer role	M. J. Azizli, M. Barghamadi, K. Rezaeeparto, M. Mokhtary, S. Parham, V. Goodarzi, S. Soltani	138	2/52	2021	J Appl Polym Sci
Rheological/thermal properties of poly(ethylene terephthalate) modified by chain extenders of pyromellitic dianhydride and pentaerythritol	S. Dolatshah, Sh. Ahmadi, A. Ershad, H. Jashni	138	2/52	2021	Journal of Applied Polymer Science
Nonlinear stress relaxation of filled rubber compounds: A new theoretical model and experimental investigation	M. H. R. Ghoreishy, F. Abbassi-Sourki	138	2/52	2021	Journal of Applied Polymer Science
Design and modeling of the 2D auxetic metamaterials with hyperelastic properties using topology optimization approach	S. Rezaei, J. Kadkhodapour, R. Hamzehei, B. Taherkhani, A. Pourkamali Anaraki, S. Dariushi	43	2/453	2021	Photonics and Nanostructures - Fundamentals and Applications
Polyethylene glycol fumarate/acrylated-silica nanocomposite: synthesis, characterization and in-vitro evaluation	P. Afrough, N. Bahri-Laleh, A. Hedayati-Moghaddam, S. Tabatabaei, J. Mokhtari-Aliabad, F. Amanizadeh-Fini, S. A. Mirmohammadi	28	2/426	2021	Journal of Polymer Research
Modeling of nonlinear hyper-viscoelastic and stress softening behaviors of acrylonitrile butadiene rubber/ polyvinyl chloride nanocomposites reinforced by nanoclay and graphene	M. Barghamadi, M. H. R. Ghoreishy, M. Karrabi, S. Mohammadin-Gezaz	42	2/265	2021	Polymer Composites
Morphology and mechanical properties of poly (acrylonitrile-butadiene-styrene)/multi-walled carbon nanotubes nanocomposite specimens prepared by fused deposition modeling	M. Razavi-Nouri*, A. M. Rezaoust*, Z. Soheilpour, K. Garoosi, S. R. Ghaffarian	42	2/265	2021	Polymer Composites
Fabrication of a strain sensor based on polymer/silver nanowires nanocomposite for medical applications: Siloxane based versus urethane based nanocomposites	P. Hashemi, M. Mehranpour, I. Ghasemi	42	2/265	2021	Polymer Composites
Unraveling the Effect of Citric Acid on Microstructure, Rheology, and Structural Recovery of Thermoplastic Potato Starch	Z. Javidi, H. Nazockdast,* I. Ghasemi	73	2/226	2021	Starch
Bio-based furan coatings: adhesion, mechanical and thermal properties	R. Marefat Seyedlar, M. Imani, S. M. Mirabedini	78	2/014	2021	Polymer Bulletin
Nanoclay-modified microcapsules as a latent curing agent in epoxy	S. M. Mozaffari, M. H. Beheshty	78	2/014	2021	Polymer Bulletin
The effect of initiator, polyfunctional monomer and polybutene-1 resin on the long chain branching of random polypropylene copolymer via reactive extruder	T. Behboudi, S. M. Davachi, Y. Jahani	60	1/973	2021	Polymer-plastics Technology& Materials
Development of a bubble growth model for natural rubber-based foams	H. Ferasat, M. Fasihi, M. H. R. Ghoreishy, M. Ajorloo	61	1/917	2021	Polymer Engineering and Science
Hydrogel-rice husk biochar composite as an adsorbent for the removal of phenol and PNP from aqueous solutions	M. Sadeghi Afjeh, Gh. Bageri Marandi, M. J. Zohuriaan-Mehr	56	1/718	2021	SEPARATION SCIENCE AND TECHNOLOGY

Functionalization of multi-walled carbon nanotube and its effect on shape memory behavior of nanocomposite based on thermoplastic on shape memory behavior of nanocomposite based on thermoplastic PVC/MWCNT)	M. Ehteramian, I. Ghasemi, H. Azizi, M. Karrabi	30	1/707	2021	Iranian Polymer Journal
Fluxional bis(phenoxy-imine) Zr and Ti catalysts for polymerization	S. Escayola, A. Brotons-Rufes, N. Bahri-Laleh, F. Ragone, L. Cavallo, M. Solà	140	1/498	2021	Theoretical Chemistry Accounts
The Effect of Different Mineral Fillers on Starch/Rice Husk Composite Properties	Y. Einollahi, A. Hemmasi, H. Khademi Eslam, I. Ghasemi, M. Talaiepour	16	1/409	2021	Bioresources
Preparation of itaconic acid bio-based cross-linkers for hydrogels	P. Naderi, K. Kabiri, R. Jahanmardi, M. J. Zohuriaan-Mehr	58	1/349	2021	JOURNAL OF MACROMOLECULAR SCIENCE, PART A: PURE AND APPLIED CHEMISTRY
Preparation of hierarchical H-[B]-ZSM-5 zeolites by a desilication method as a highly selective catalyst for conversion of methanol to propylene	M. S. Beheshti, J. Ahmadpour, M. Behzad, H. Arabi	38	1/027	2021	Brazilian Journal of Chemical Engineering