Vahid Haddadi-asl

List of Publications by Year in Descending Order

119 papers	3,029 citations	36 h-index	47 g-index
122 ext. papers	3,315 ext. citations	3.3 avg, IF	5.71 L-index

#	Paper	IF	Citations
119	Preparation of intelligent magnetic halloysite nanotubes/polyurethane nanocomposites: The role of nanotube modification on the shape recovery rate. *Materials Research Bulletin*, **2021**, 147, 111653	5.1	1
118	Robust antimicrobial photodynamic therapy with curcumin-poly (lactic-co-glycolic acid) nanoparticles against COVID-19: A preliminary in vitro study in Vero cell line as a model. *Photodiagnosis and Photodynamic Therapy*, **2021**, 34, 102286	3.5	12
117	Step-by-step design of poly (ε-caprolactone) /chitosan/Melilotus officinalis extract electrospun nanofibers for wound dressing applications. *International Journal of Biological Macromolecules*, **2021**, 180, 36-50	7.9	13
116	Preparation of polyurethane composites reinforced with halloysite and carbon nanotubes. *Polymer Composites*, **2021**, 42, 450-461	3	7
115	Effect of porogenic solvent in synthesis of mesoporous and microporous molecularly imprinted polymer based on magnetic halloysite nanotubes. *Materials Today Communications*, **2021**, 26, 101780	2.5	2
114	Magnetic halloysite-based molecularly imprinted polymer for specific recognition of sunset yellow in dyes mixture. *Polymers for Advanced Technologies*, **2021**, 32, 803-814	3.2	9
113	Efficient Photocatalytic Degradation of Gaseous Benzene and Toluene over Novel Hybrid PIL@TiO2/m-GO Composites. *Catalysts*, **2021**, 11, 126	4	4
112	Halloysite-reinforced thermoplastic polyurethane nanocomposites: Physico-mechanical, rheological, and thermal investigations. *Polymer Composites*, **2020**, 41, 3260-3270	3	10
111	An innovative and eco-friendly modality for synthesis of highly fluorinated graphene by an acidic ionic liquid: Making of an efficacious vehicle for anti-cancer drug delivery. *Applied Surface Science*, **2020**, 515, 146071	6.7	19
110	Switch segment and halloysite nanotube role in the phase separation behavior of shape-memory thermoplastic polyurethane. *Polymer Composites*, **2020**, 41, 2625-2633	3	9
109	Shear bond strength, adhesive remnant index, and anti-biofilm effects of a photoexcited modified orthodontic adhesive containing curcumin doped poly lactic-co-glycolic acid nanoparticles: An ex-vivo biofilm model of S. mutans on the enamel slab bonded brackets. *Photodiagnosis and Photodynamic Therapy*, **2020**, 30, 101674	3.5	18
108	Synthesis of magnetic nanoparticles-decorated halloysite nanotubes/poly([2-(acryloyloxy)ethyl]trimethylammonium chloride) hybrid nanoparticles for removal of Sunset Yellow from water. *Journal of Polymer Research*, **2020**, 27, 1	2.7	10
107	Nitrogen and phosphorous doped graphene quantum dots: Excellent flame retardants and smoke suppressants for polyacrylonitrile nanocomposites. *Journal of Hazardous Materials*, **2020**, 381, 121013	12.8	47
106	Rheological investigation of carbon-based hybrid polyurethane nanocomposites with continuous networks. *Iranian Polymer Journal (English Edition)*, **2019**, 28, 801-811	2.3	2
105	Synthesis of novel functionalized graphene oxide with incorporation pyrimidine group including cobalt-iodine bonds their nanocomposites with p-type conductive polymer as excellent pseudocapacitor electrode materials. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 18439-18451	2.1	8
104	Surfactant-assisted-water-exposed versus surfactant-aqueous-solution-exposed electrospinning of novel super hydrophilic Polycaprolactone-based fibers: Cell culture studies. *Journal of Biomedical Materials Research - Part A*, **2019**, 107, 1204-1212	5.4	1
103	Stimuli-responsive DOX release behavior of cross-linked poly(acrylic acid) nanoparticles. *E-Polymers* , **2019**, 19, 203-214	2.7	17

102	How the soft segment arrangement influences the microphase separation kinetics and mechanical properties of polyurethane block polymers. *Materials Research Express*, **2019**, 6, 085311	1.7	7
101	A simple and versatile method to tailor physicochemical properties of thermoplastic polyurethane elastomers by using novel mixed soft segments. *Materials Research Express*, **2019**, 6, 065314	1.7	9
100	Micro-phase separation kinetics of polyurethane nanocomposites with neural network. *Polymer Composites*, **2019**, 40, 3904-3913	3	8
99	Sericin grafted multifunctional curcumin loaded fluorinated graphene oxide nanomedicines with charge switching properties for effective cancer cell targeting. *International Journal of Pharmaceutics*, **2019**, 572, 118791	6.5	13
98	A novel investigation on micro-phase separation of thermoplastic polyurethanes: simulation, theoretical, and experimental approaches. *Iranian Polymer Journal (English Edition)*, **2019**, 28, 237-250	2.3	15
97	Role of sequence of feeding on the properties of polyurethane nanocomposite containing halloysite nanotubes. *Designed Monomers and Polymers*, **2019**, 22, 199-212	3.1	5
96	Surfactant-assisted-water-exposed versus surfactant-aqueous-solution-exposed electrospinning of novel super hydrophilic polycaprolactone based fibers: Analysis of drug release behavior. *Journal of Biomedical Materials Research - Part A*, **2019**, 107, 597-609	5.4	6
95	Effect of nanofiller content and confined crystallization on the microphase separation kinetics of polyurethane nanocomposites. *Polymer Composites*, **2019**, 40, E422	3	23
94	Synthesis of pH-responsive magnetic yolk□shell nanoparticles: A comparison between conventional etching and new deswelling approaches. *Applied Organometallic Chemistry*, **2018**, 32, e4272	3.1	18
93	Synthesis of dual temperature - and pH-responsive yolk-shell nanoparticles by conventional etching and new deswelling approaches: DOX release behavior. *Colloids and Surfaces B: Biointerfaces*, **2018**, 165, 1-8	6	37
92	Fabrication and characterization of polymer-ceramic nanocomposites containing drug loaded modified halloysite nanotubes. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 1276-1287	5.4	14
91	Preparation of hydrophilic blood compatible polypropylene/pluronics F127 films. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 652-662	5.4	2
90	N,N'-methylenebis(acrylamide)-crosslinked poly(acrylic acid) particles as doxorubicin carriers: A comparison between release behavior of physically loaded drug and conjugated drug via acid-labile hydrazone linkage. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 342-348	5.4	40
89	Synthesis of dual thermo- and pH-sensitive poly(N-isopropylacrylamide-co-acrylic acid)-grafted cellulose nanocrystals by reversible addition-fragmentation chain transfer polymerization. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 231-243	5.4	33
88	Development and characterization of electrosprayed nanoparticles for encapsulation of Curcumin. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 285-292	5.4	19
87	Formulation of micro-phase separation kinetics of polyurethane nanocomposites. *Polymers for Advanced Technologies*, **2018**, 29, 2909-2916	3.2	15
86	Grafting of pH-sensitive poly (N,N-dimethylaminoethyl methacrylate-co-2-hydroxyethyl methacrylate) onto HNTS via surface-initiated atom transfer radical polymerization for controllable drug release. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2017**, 66, 123-131	3	55
85	Surfactant-assisted water exposed electrospinning of novel super hydrophilic polycaprolactone based fibers. *Artificial Cells, Nanomedicine and Biotechnology*, **2017**, 45, 871-880	6.1	6

84	Fabrication and characterization of polymer□ceramic nanocomposites containing pluronic F127 immobilized on hydroxyapatite nanoparticles. *RSC Advances*, **2016**, 6, 80564-80575	3.7	20
83	Facile fabrication of novel polycaprolactone-based electrospun fibers using in-process water exposure. *International Journal of Polymer Analysis and Characterization*, **2016**, 21, 636-646	1.7	8
82	Fabrication and characterization of hydrophilic poly(□caprolactone)/pluronic P123 electrospun fibers. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	36
81	Carboxylic acid functionalization of halloysite nanotubes for sustained release of diphenhydramine hydrochloride. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	27
80	Kinetic study of styrene atom transfer radical polymerization from hydroxyl groups of graphene nanoplatelets: Heterogeneities in chains and graft densities. *Polymer Engineering and Science*, **2015**, 55, 1720-1732	2.3	40
79	Synthesis of pH-sensitive poly (N,N-dimethylaminoethyl methacrylate)-grafted halloysite nanotubes for adsorption and controlled release of DPH and DS drugs. *Polymer*, **2015**, 65, 143-153	3.9	91
78	Confinement effect of graphene nanoplatelets on atom transfer radical polymerization of styrene: grafting through hydroxyl groups. *Iranian Polymer Journal (English Edition)*, **2015**, 24, 51-62	2.3	38
77	Grafting poly (methyl methacrylate) from azo-functionalized graphene nanolayers via reverse atom transfer radical polymerization. *Colloid and Polymer Science*, **2015**, 293, 735-750	2.4	42
76	Nanofibers of poly (hydroxyethyl methacrylate)-grafted halloysite nanotubes and polycaprolactone by combination of RAFT polymerization and electrospinning. *Journal of Polymer Research*, **2015**, 22, 1	2.7	18
75	Ion-exchange polymer nanofibers for enhanced osteogenic differentiation of stem cells and ectopic bone formation. *ACS Applied Materials & Interfaces*, **2014**, 6, 72-82	9.5	25
74	In-plane functionalizing graphene nanolayers with polystyrene by atom transfer radical polymerization: Grafting from hydroxyl groups. *Polymer Composites*, **2014**, 35, 386-395	3	41
73	Reverse atom transfer radical polymerization of methyl methacrylate in the presence of Azo-functionalized carbon nanotubes: a grafting from approach. *Colloid and Polymer Science*, **2014**, 292, 2971-2981	2.4	56
72	Polystyrene-grafted graphene nanoplatelets with various graft densities by atom transfer radical polymerization from the edge carboxyl groups. *RSC Advances*, **2014**, 4, 24439-24452	3.7	63
71	Nanocrystalline cellulose grafted random copolymers of N-isopropylacrylamide and acrylic acid synthesized by RAFT polymerization: effect of different acrylic acid contents on LCST behavior. *RSC Advances*, **2014**, 4, 31428-31442	3.7	101
70	Edge-functionalized graphene nanoplatelets with polystyrene by atom transfer radical polymerization: grafting through carboxyl groups. *Polymer International*, **2014**, 63, 1912-1923	3.3	46
69	INTRODUCTION OF A DOUBLE BOND CONTAINING MODIFIER ON THE SURFACE OF MCM-41 NANOPARTICLES: APPLICATION FOR SR&NI ATRP OF STYRENE. *Nano*, **2014**, 09, 1450023	1.1	9
68	Furfuryl alcohol functionalized graphene nanosheets for synthesis of high carbon yield novolak composites. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	37
67	A kinetics study on the in situ reversible addition□fragmentation chain transfer and free radical polymerization of styrene in presence of silica aerogel nanoporous particles. *Designed Monomers and Polymers*, **2014**, 17, 245-254	3.1	22

66	In situ atom transfer radical polymerization of styrene to in-plane functionalize graphene nanolayers: grafting through hydroxyl groups. *Journal of Polymer Research*, **2014**, 21, 1	2.7	49
65	Direct synthesis of polymer-grafted inorganic hybrids via reversible chain transfer catalyzed polymerization. *Iranian Polymer Journal (English Edition)*, **2013**, 22, 757-766	2.3	2
64	Grafting through approach for synthesis of polystyrene/silica aerogel nanocomposites by in situ reversible addition-fragmentation chain transfer polymerization. *Journal of Sol-Gel Science and Technology*, **2013**, 66, 337-344	2.3	41
63	INVESTIGATING THE EFFECT OF MCM-41 NANOPARTICLES ON THE KINETICS OF ATOM TRANSFER RADICAL POLYMERIZATION OF STYRENE. *Nano*, **2013**, 08, 1350018	1.1	8
62	Kinetic investigation of the reversible addition-fragmentation chain transfer polymerization of 1,3-butadiene. *Journal of Polymer Research*, **2013**, 20, 1	2.7	17
61	In situ atom transfer radical polymerization of styrene in the presence of nanoporous silica aerogel: Kinetic study and investigation of thermal properties. *Journal of Polymer Research*, **2013**, 20, 1	2.7	28
60	Effect of Nanoclay on Styrene and Butyl Acrylate AGET ATRP in Miniemulsion: Study of Nucleation Type, Kinetics, and Polymerization Control. *International Journal of Chemical Kinetics*, **2013**, 45, 221-235	1.4	13
59	Synthesis of hybrid free and nanoporous silica aerogel-anchored polystyrene chains via in situ atom transfer radical polymerization. *Polymer Composites*, **2013**, 34, 1648-1654	3	23
58	Effect of Loading and Surface Modification of Nanoparticles on the Properties of PMMA/Silica Nanocomposites Prepared via In-Situ Free Radical Polymerization. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2013**, 62, 336-344	3	18
57	Well-defined nanofiberous polystyrene nanocomposites with twofold chains by ATRP. *Polymer Science - Series B*, **2012**, 54, 153-160	0.8	12
56	Evaluation of the confinement effect of nanoclay on the kinetics of styrene atom transfer radical polymerization. *Journal of Applied Polymer Science*, **2012**, 123, 409-417	2.9	39
55	Synthesis of clay-dispersed poly(styrene-co-methyl methacrylate) nanocomposite via miniemulsion atom transfer radical polymerization: A reverse approach. *Journal of Applied Polymer Science*, **2012**, 124, 2278-2286	2.9	37
54	Kinetic study of in situ normal and AGET atom transfer radical copolymerization of n-Butyl acrylate and styrene: Effect of nanoclay loading and catalyst concentration. *International Journal of Chemical Kinetics*, **2012**, 44, 789-799	1.4	4
53	Properties of matrix-grafted multi-walled carbon nanotube/poly(methyl methacrylate) nanocomposites synthesized by in situ reversible addition-fragmentation chain transfer polymerization. *Journal of the Iranian Chemical Society*, **2012**, 9, 877-887	2	32
52	Cellular infiltration on nanofibrous scaffolds using a modified electrospinning technique. *Biochemical and Biophysical Research Communications*, **2012**, 423, 50-4	3.4	44
51	Study of kinetics and properties of polystyrene/silica nanocomposites prepared via in situ free radical and reversible addition-fragmentation chain transfer polymerizations. *Scientia Iranica*, **2012**, 19, 2004-2011	1.5	24
50	EFFECT OF CARBON NANOTUBES ON THE KINETICS OF IN SITU POLYMERIZATION OF METHYL METHACRYLATE. *Nano*, **2012**, 07, 1250003	1.1	18
49	Effect of different modified nanoclays on the kinetics of preparation and properties of polymer-based nanocomposites. *Journal of Polymer Research*, **2012**, 19, 1	2.7	34

48	Properties of PMMA/Carbon nanotubes nanocomposites prepared by grafting through method. *Polymer Composites*, **2012**, 33, 215-224	3	45
47	In Situ Controlled Radical Polymerization: A Review on Synthesis of Well-defined Nanocomposites. *Polymer Reviews*, **2012**, 52, 142-188	14	87
46	Matrix-grafted multiwalled carbon nanotubes/poly(methyl methacrylate) nanocomposites synthesized by in situ RAFT polymerization: A kinetic study. *International Journal of Chemical Kinetics*, **2012**, 44, 555-569	1.4	48
45	Nanoclay-encapsulated polystyrene microspheres by reverse atom transfer radical polymerization. *Polymer Composites*, **2012**, 33, 990-998	3	25
44	Use of clay-anchored reactive modifier for the synthesis of poly (styrene-co-butyl acrylate)/clay nanocomposite via in situ AGET ATRP. *Journal of Polymer Research*, **2012**, 19, 1	2.7	39
43	A study on the properties of PMMA/silica nanocomposites prepared via RAFT polymerization. *Journal of Polymer Research*, **2012**, 19, 1	2.7	44
42	Encapsulation of organomodified montmorillonite with PMMA via in situ SR&NI ATRP in miniemulsion. *Journal of Polymer Research*, **2012**, 19, 1	2.7	32
41	Modeling of precipitation polymerization II: calculation of macroradicals concentrations in the continuous and dispersed phases. *Polymer Bulletin*, **2012**, 68, 1603-1621	2.4	1
40	Polystyrene–organoclay nanocomposites produced by in situ activators regenerated by electron transfer for atom transfer radical polymerization. *Journal of Polymer Engineering*, **2012**, 32, 235-243	1.4	11
39	Effect of silica nanoparticle loading and surface modification on the kinetics of RAFT polymerization. *Journal of Polymer Engineering*, **2012**, 32,	1.4	18
38	Synthesis of well-defined clay encapsulated poly(styrene-co-butyl acrylate) nanocomposite latexes via reverse atom transfer radical polymerization in miniemulsion. *Journal of Polymer Engineering*, **2012**, 32,	1.4	12
37	Enhanced infiltration and biomineralization of stem cells on collagen-grafted three-dimensional nanofibers. *Tissue Engineering - Part A*, **2011**, 17, 1209-18	3.9	42
36	Investigating the effect of pristine and modified silica nanoparticles on the kinetics of methyl methacrylate polymerization. *Chemical Engineering Journal*, **2011**, 174, 368-375	14.7	37
35	An exhaustive study of chain-length-dependent and diffusion-controlled free radical and atom-transfer radical polymerization of styrene. *Journal of Polymer Research*, **2011**, 18, 1539-1555	2.7	10
34	Synthesis and characterization of poly(styrene-co-butyl acrylate)/clay nanocomposite latexes in miniemulsion by AGET ATRP. *Polymer Composites*, **2011**, 32, 967-975	3	32
33	Synthesis and characterization of exfoliated poly(styrene-co-methyl methacrylate) nanocomposite via miniemulsion atom transfer radical polymerization: an activators generated by electron transfer approach. *Polymer Composites*, **2011**, 32, 1979-1987	3	31
32	A simulation of kinetics and chain length distribution of styrene FRP and ATRP: Chain-length-dependent termination. *Advances in Polymer Technology*, **2011**, 30, 257-268	1.9	14
31	Preparation of tailor-made polystyrene nanocomposite with mixed clay-anchored and free chains via atom transfer radical polymerization. *AICHE Journal*, **2011**, 57, 1873-1881	3.6	48

30	Preparation of nanoclay-dispersed polystyrene nanofibers via atom transfer radical polymerization and electrospinning. *Journal of Applied Polymer Science*, **2011**, 120, 1431-1438	2.9	38
29	Nanofiber-based polyelectrolytes as novel membranes for fuel cell applications. *Journal of Membrane Science*, **2011**, 368, 233-240	9.6	115
28	Accelerated epidermal regeneration and improved dermal reconstruction achieved by polyethersulfone nanofibers. *Tissue Engineering - Part A*, **2010**, 16, 3527-36	3.9	60
27	Simulation of styrene free radical polymerization over bi-functional initiators using Monte Carlo simulation method and comparison with mono-functional initiators. *Polymer Science - Series B*, **2010** , 52, 184-192	0.8	7
26	A comprehensive Monte Carlo simulation of styrene atom transfer radical polymerization. *Chinese Journal of Polymer Science (English Edition)*, **2010**, 28, 483-497	3.5	28
25	Effect of chemical components of emulsion polymerization in aqueous media on Na-MMT nanostructure by XRD analysis. *Journal of Polymer Research*, **2010**, 17, 309-313	2.7	7
24	Synthesis and characterization of clay dispersed polystyrene nanocomposite via atom transfer radical polymerization. *Polymer Composites*, **2010**, 31, 1829-1837	3	46
23	Application of Monte Carlo simulation method to polymerization kinetics over Ziegler Natta catalysts. *International Journal of Chemical Kinetics*, **2009**, 41, 45-56	1.4	15
22	Dynamic mechanical study of epoxy, epoxy/glass, and glass/epoxy/wood hybrid composites aged in various media. *Polymer Composites*, **2009**, 30, 1761-1770	3	3
21	Improved infiltration of stem cells on electrospun nanofibers. *Biochemical and Biophysical Research Communications*, **2009**, 382, 129-33	3.4	82
20	In vitro differentiation of human cord blood-derived unrestricted somatic stem cells into hepatocyte-like cells on poly(epsilon-caprolactone) nanofiber scaffolds. *Cells Tissues Organs*, **2009**, 190, 135-49	2.1	71
19	Application of the Monte Carlo simulation method to the Investigation of the effect of chain-length-dependent bimolecular termination on ATRP. *E-Polymers*, **2009**, 9,	2.7	4
18	Synthesis and Characterization of a New Semi-Aliphatic Poly(amide-imide) and Evaluation of the Effect of Reaction Conditions. *Designed Monomers and Polymers*, **2008**, 11, 223-234	3.1	4
17	Investigation of Ethylene Polymerization Kinetics over Ziegler-Natta Catalysts: Employing Moment Equation Modeling to Study the Effect of Different Active Centers on Homopolymerization Kinetics. *E-Polymers*, **2008**, 8,	2.7	1
16	Application of the Monte Carlo simulation method to the investigation of peculiar free-radical copolymerization reactions: Systems with both reactivity ratios greater than unity (rA > 1 and rB > 1). *Journal of Applied Polymer Science*, **2007**, 106, 4138-4147	2.9	15
15	Modeling of Precipitation Polymerization I: The Method of Finite Molecular Weight Moments. *E-Polymers*, **2007**, 7,	2.7	2
14	Nanofibrous poly(epsilon-caprolactone)/poly(vinyl alcohol)/chitosan hybrid scaffolds for bone tissue engineering using mesenchymal stem cells. *International Journal of Artificial Organs*, **2007**, 30, 204-11	1.9	61
13	Electrical and Mechanical Properties of Conducive Carbon Black/Polyolefin Composites Mixed With Carbon Fiber. *Journal of ASTM International*, **2006**, 3, 100431		3

12	Comprehensive Study of Free Radical Copolymerization Using a Monte Carlo Simulation Method, 1. *Macromolecular Theory and Simulations*, **2005**, 14, 325-336	1.5	29
11	Bioadhesion and biocompatibility evaluations of gelatin and polyacrylic acid as a crosslinked hydrogel in vitro. *Journal of Biomaterials Science, Polymer Edition*, **2004**, 15, 1019-31	3.5	21
10	Processing Effects on Electrical Conductivity and Mechanical Properties of Particulate Composite **2004**, 72-77		
9	Radiation graft modification of ethylene-propylene rubber II. Effect on water uptake, wettability and biocompatibility. *Radiation Physics and Chemistry*, **1996**, 47, 907-912	2.5	13
8	Preparation and evaluation of electrocatalytic oxide coatings on conductive carbon-polymer composite substrates for use as dimensionally stable anodes. *Journal of Applied Electrochemistry*, **1996**, 26, 1117	2.6	14
7	Conductive carbon-polypropylene composite electrodes for vanadium redox battery. *Journal of Applied Electrochemistry*, **1995**, 25, 29	2.6	50
6	Radiation graft modification of ethylene-propylene rubber I. Effect of additives. *Radiation Physics and Chemistry*, **1995**, 45, 191-198	2.5	22
5	Carbon polymer composite electrodes for redox cells. *Journal of Applied Polymer Science*, **1995**, 57, 1455-1463	2.9	45
4	Radiation graft modification of ethylene-propylene rubber I Effect of monomer and substrate structure. *Radiation Physics and Chemistry*, **1994**, 44, 385-393	2.5	15
3	Effect of chain extender length and molecular architecture on phase separation and rheological properties of ether-based polyurethanes. *Polymer Bulletin*,1	2.4	2
2	Molecular dynamics simulation, synthesis and characterization of polyurethane block polymers containing PTHF/PCL mixture as a soft segment. *Polymer Bulletin*,1	2.4	1
1	A review on microphase separation measurement techniques for polyurethanes. *Journal of Plastic Film and Sheeting*,875608792210889	2.4	1