Hassan Arabi

List of Publications by Year
in descending order

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67	1,024	471509	501196
papers	citations	17	28
		h-index	g-index

67	67	67	1055
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Moving up and down the Titanium Oxidation State in Zieglerâ"Natta Catalysis. Macromolecules, 2011, 44, 778-783.	4.8	91
2	Thermal and morphological studies on novel PCM microcapsules containing n-hexadecane as the core in a flexible shell. Applied Energy, 2017, 190, 612-622.	10.1	89
3	Effect of low-pressure O2 and Ar plasma treatments on the wettability and morphology of biaxial-oriented polypropylene (BOPP) film. Progress in Organic Coatings, 2007, 60, 105-111.	3.9	69
4	Time Marching Algorithm for Predicting the Linear Rheology of Monodisperse Comb Polymer Melts. Macromolecules, 2011, 44, 647-659.	4.8	56
5	Modification of H-[B]-ZSM-5 zeolite for methanol to propylene (MTP) conversion: Investigation of extrusion and steaming treatments on physicochemical characteristics and catalytic performance. Microporous and Mesoporous Materials, 2020, 291, 109699.	4.4	42
6	Zieglerâ€Natta/Metallocene Hybrid Catalyst for Ethylene Polymerization. Macromolecular Reaction Engineering, 2007, 1, 604-610.	1.5	35
7	Copolymerization of ethylene/Î±â€olefins using bis(2â€phenylindenyl)zirconium dichloride metallocene catalyst: structural study of comonomer distribution. Polymer International, 2010, 59, 1258-1265.	3.1	33
8	Preparation of acrylic PCM microcapsules with dual responsivity to temperature and magnetic field changes. European Polymer Journal, 2018, 101, 18-28.	5.4	32
9	Microencapsulation of allopurinol by solvent evaporation and controlled release investigation of drugs. Journal of Microencapsulation, 1996, 13, 527-535.	2.8	26
10	Activation of Ziegler-Natta catalysts by organohalide promoters: A combined experimental and density functional theory study. Journal of Applied Polymer Science, 2012, 123, 2526-2533.	2.6	26
11	New soluble, thermally stable poly(amideâ€"imide)s containing cardo anthraquinone unit. European Polymer Journal, 2006, 42, 2343-2351.	5.4	25
12	Surface modification of bagasse fibers by silane coupling agents through microwave oven and its effects on physical, mechanical, and rheological properties of PP bagasse fiber composite. Polymer Composites, 2007, 28, 713-721.	4.6	25
13	Modeling of Slurry Polymerization of Ethylene Using a Soluble Cp₂ZrCl₂/MAO Catalytic System. Macromolecular Theory and Simulations, 2007, 16, 557-565.	1.4	22
14	Ethylene Homoâ€and Copolymerization Using a Bisâ€IndZrCl₂ Metallocene Catalyst: Structural Composition Distribution of the Copolymer. Macromolecular Reaction Engineering, 2009, 3, 263-270.	1.5	21
15	Enhanced thermo-oxidative stability through covalent attachment of hindered phenolic antioxidant on surface functionalized polypropylene. Polymer, 2018, 138, 41-48.	3.8	21
16	Polymerization of propylene with Zieglerâ€"Natta catalyst: optimization of operating conditions by response surface methodology (RSM). Polymer Bulletin, 2011, 67, 1393-1411.	3.3	20
17	Comparative study of copolymerization and terpolymerization of ethylene/propylene/diene monomers using metallocene catalyst. Journal of Applied Polymer Science, 2011, 122, 1838-1846.	2.6	19
18	Effect of branching characteristics of ethylene/1-butene copolymers on melt flow index. Polymer Testing, 2006, 25, 28-33.	4.8	17

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19	From molecular weight distribution to linear viscoelastic properties and back again: application to some commercial high-density polyethylenes. Iranian Polymer Journal (English Edition), 2012, 21, 403-413.	2.4	17
20	New Approach in Modeling of Metalloceneâ€Catalyzed Olefin Polymerization Using Artificial Neural Networks. Macromolecular Theory and Simulations, 2009, 18, 195-200.	1.4	15
21	Terpolymerization of Ethylene/Propylene/Diene Monomers Using (2â€PhInd)₂ZrCl₂ Metallocene Catalysts. Macromolecular Reaction Engineering, 2010, 4, 707-714.	1.5	15
22	Synthesis and microstructural study of stereoblock elastomeric polypropylenes from metallocene catalyst (2â€PhInd)₂ZrCl₂ activated with cocatalyst mixtures. Journal of Polymer Science Part A, 2013, 51, 724-731.	2.3	15
23	A Simplified Comprehensive Kinetic Scheme for Modeling of Ethylene/1â€butene Copolymerization Using Zieglerâ€Natta Catalysts. Macromolecular Reaction Engineering, 2010, 4, 135-144.	1.5	14
24	Preparation of ethyl cellulose microcapsules containing perphenazine and polymeric perphenazine based on acryloyl chloride for physical and chemical studies of drug release control. Polymer International, 1998, 47, 413-418.	3.1	13
25	Covalent immobilization of phenolic antioxidant on Ethylene copolymers: An efficient approach toward enhanced long-term stabilization of polypropylene. Polymer, 2016, 104, 31-39.	3.8	13
26	Insights into the chemical composition and thermo-oxidative stability of novel polyethylene copolymers containing ancillary phenolic antioxidant groups as non-migrating polyolefin stabilizer. Polymer Degradation and Stability, 2017, 142, 139-149.	5.8	13
27	Novel phenolic antioxidant-functionalized dendritic polyethylene: Synthesis by tailor-made nickel(II) Î±-diimine-catalyzed copolymerization and its characteristics as non-releasing additive. Reactive and Functional Polymers, 2017, 111, 68-78.	4.1	13
28	Towards the design of a mixture of diether and succinate as an internal donor in a MgCl₂-supported Zieglerâ€“Natta catalyst. New Journal of Chemistry, 2020, 44, 15758-15768.	2.8	13
29	Preparation of ethylene/Î±-olefins copolymers using (2-RInd)2ZrCl2/MCM-41 (R:Ph,H) catalyst, microstructural study. Journal of Thermal Analysis and Calorimetry, 2014, 116, 417-426.	3.6	12
30	Effect of fragment size distribution on reaction rate and molecular weight distribution in heterogeneous olefin polymerization. Iranian Polymer Journal (English Edition), 2015, 24, 437-448.	2.4	12
31	Preparation and Assessment of Phase Morphology, Rheological Properties, and Thermal Behavior of Low-Density Polyethylene/Polyhexene-1 Blends. Polymer-Plastics Technology and Engineering, 2018, 57, 757-765.	1.9	12
32	In Vitro and in Vivo Hemocompatibility Evaluation of Graphite Coated Polyester Vascular Grafts. International Journal of Artificial Organs, 2004, 27, 691-698.	1.4	11
33	Indirect Synthesis of Bis(2â€PhInd)ZrCl₂ Metallocene Catalyst, Kinetic Study and Modeling of Ethylene Polymerization. Chemical Engineering and Technology, 2011, 34, 249-256.	1.5	10
34	Synthesis and structural characterization of a nickel(II) precatalyst bearing a Î²â€triketimine ligand and study of its ethylene polymerization performance using response surface methods. Journal of Polymer Science Part A, 2013, 51, 1520-1532.	2.3	10
35	Silyl diol ester as a new selectivity control agent in MgCl₂-supported Zieglerâ€“Natta systems for propylene polymerization: catalyst structure and polymer properties. RSC Advances, 2019, 9, 7420-7431.	3.6	10
36	Organic Versus Inorganic Supports for Metallocenes: The Influence of Rigidity on the Homogeneity of the Polyolefin Microstructure and Properties. Macromolecules, 2021, 54, 2667-2680.	4.8	10

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37	Study of triisobutylaluminum as cocatalyst and processing parameters on ethylene polymerization performance of Î±-diimine nickel(II) complex by response surface method. Polymer Bulletin, 2013, 70, 2765-2781.	3.3	9
38	A systematic study of Nickel (II) Î±-diimine complex performance on ethylene polymerization: influence of cocatalyst nature. Polymer Bulletin, 2015, 72, 2471-2488.	3.3	9
39	Mixing of hindered amine-grafted polyolefin elastomers with LDPE to enhance its long-term weathering and photo-stability. Polymer Degradation and Stability, 2022, 198, 109882.	5.8	9
40	Copolymerization of ethylene/5â€ethylideneâ€2â€norbornene with bis (2â€phenylindenyl) zirconium dichloride catalyst: I. Optimization of the operating conditions by response surface methodology. Journal of Applied Polymer Science, 2013, 129, 3047-3053.	2.6	8
41	Ethylene polymerization to branched thermoplastic elastomers through proper activation of heterogeneous nickel (II) Î±-diimine complex and thermal drawing process. Polymer, 2019, 179, 121660.	3.8	8
42	Synthesis, characterization, rheological and thermal behavior of metallocene ethyleneâ€‰â^'â€‰norbornene copolymers with low norbornene content using pentafluorophenol modified methylaluminoxane. Polymer International, 2015, 64, 900-906.	3.1	7
43	Effect of the matrix modification technique (MMT) on the composition, microstructure, morphology, interfacial interaction and mechanical properties of polypropylene reactor alloys. RSC Advances, 2015, 5, 107445-107454.	3.6	7
44	Hydrothermal synthesis of H-ZSM-5 catalysts employing the mixed template method and their application in the conversion of methanol to light olefins. Reaction Kinetics, Mechanisms and Catalysis, 2020, 130, 493-518.	1.7	7
45	Pd on ligand-decorated chitosan as an efficient catalyst for hydrofinishing polyalphaoleï¬ns: Experimental and computational studies. Journal of Physics and Chemistry of Solids, 2022, 164, 110611.	4.0	6
46	Kinetic modeling of slurry propylene polymerization using a heterogeneous multi-site type Zieglerâ€“Natta catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2012, 105, 345-359.	1.7	5
47	Characterization of MAOâ€Modified Silicas for Ethylene Polymerization. Journal of Applied Polymer Science, 2013, 130, 4568-4575.	2.6	5
48	A low-symmetry nickel(II) Î±-diimine complex for homopolymerization of ethylene: study of interactive effects of polymerization parameters. Journal of Coordination Chemistry, 2015, 68, 2601-2619.	2.2	5
49	Polyolefin elastomer grafted unsaturated hindered phenol esters: synthesis and antioxidant behavior. Designed Monomers and Polymers, 2016, 19, 569-576.	1.6	5
50	Bulk copolymerization of 1,3,5-trioxane and 1,3-dioxolane in presence of phosphotungstic acid catalyst and tetrahydrofuran as retarder: crystallinity and thermal properties. Designed Monomers and Polymers, 2016, 19, 361-368.	1.6	5
51	Synthesis of Stereoblock Elastomeric Poly(propylene)s Using a (2â€PhInd)₂ZrCl₂ Metallocene Catalyst in the Presence of Coâ€Catalyst Mixtures: Study of Activity and Molecular Weight. Macromolecular Reaction Engineering, 2012, 6, 523-529.	1.5	4
52	The Influence of Copolymerization Condition on Rheology, Morphology and Thermal Behavior of Polypropylene Heterophasic Copolymers. Journal of Macromolecular Science - Pure and Applied Chemistry, 2015, 52, 532-539.	2.2	4
53	Studying the effects of SiO₂ specifications and properties of (SiO₂/MgCl₂/TEOS/TiCl₄/AlEt₃) catalyst system on kinetic behavior and hydrogen responsibility of ethylene slurry polymerization. Journal of Applied Polymer Science, 2010, 118, 2216-2224.	2.6	3
54	Effect of Polyethylene Molecular Architecture on the Dynamic Viscoelastic Behavior of Polyethylene/Polyhexene-1 Blends and Its Correlation with Morphology. Polymer-Plastics Technology and Materials, 2019, 58, 560-572.	1.3	3

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55	Molecular-level insights into adsorption of a novel silyl ester donor on essential MgCl2 facets of supported Zieglerâ€“Natta catalysts. Journal of Physics and Chemistry of Solids, 2021, 159, 110249.	4.0	3
56	One-pot synthesis of symmetrical and unsymmetrical Î±-diimine Nickel complexes in comparison with two-pot synthesis method for ethylene polymerization. Journal of Polymer Research, 2022, 29, .	2.4	3
57	The effect of SiO₂ porosity on activity profiles and comonomer incorporation in slurry ethylene/buteneâ€1 polymerization by (SiO₂/MgCl₂/TEOS/TiCl₄) catalyst system. Journal of Applied Polymer Science, 2012, 124, 5145-5153.	2.6	2
58	Effects of chemical structure of phenolic antioxidants on Zieglerâ€“Natta catalyst performance during propylene polymerization. Iranian Polymer Journal (English Edition), 2014, 23, 847-854.	2.4	2
59	Emulsion Based Nanoarchitectonics for Styreneâ€“Butyl Acrylate Copolymerization upon Pickering Mechanism. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 864-874.	3.7	2
60	Study on propylene polymerization in the presence of phenolic antioxidant (Irganox 1076) and characterization of stabilized polymers. Journal of Vinyl and Additive Technology, 2015, 21, 285-289.	3.4	1
61	Effect of phenolic, phosphite, lactone, and their mixtures of antioxidants on Ziegler-Natta catalyst performance during propylene polymerization. Journal of Vinyl and Additive Technology, 2015, 21, 299-304.	3.4	1
62	Comparison of the effect of ethylene and hexene-1 co-monomers on the composition, microstructure, rheology, thermal and mechanical behaviour of randomized polypropylene hetero-phasic block co-polymers. RSC Advances, 2016, 6, 104438-104450.	3.6	1
63	Parallel reactions in polymerization of ethylene/methyl methacrylate by late-transition-metal catalysts (Î±-diimine nickel). Iranian Polymer Journal (English Edition), 2021, 30, 843.	2.4	1
64	Propylene polymerization with MgCl2/Mixed-IDs/TiCl4 system in the presence of different external donor structures. Journal of Polymer Research, 2021, 28, 1.	2.4	1
65	El discurso xenÃ³fobo en el Ã¡mbito polÃ±tico y su impacto social. Entramado, 2020, 16, 166-175.	0.3	1
66	A comment on â€œPreparation of nano-polyethylene fibers using TiCl4/MCM-41 catalytic systemâ€• Catalysis Communications, 2009, 10, 859-860.	3.3	0
67	Trimethylolpropane trimethacrylate functionalized polypropylene/polyhexene-1 blend with enhanced melt strength. Polymer-Plastics Technology and Materials, 2020, 59, 555-571.	1.3	0