

# Naeimeh Bahri-Laleh

## List of Publications by Year in descending order

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88  
papers

1,941  
citations

257450

24  
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315739

38  
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89  
all docs

89  
docs citations

89  
times ranked

1024  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational modeling of heterogeneous Ziegler-Natta catalysts for olefins polymerization. <i>Progress in Polymer Science</i> , 2018, 84, 89-114.	24.7	120
2	Moving up and down the Titanium Oxidation State in Ziegler-Natta Catalysis. <i>Macromolecules</i> , 2011, 44, 778-783.	4.8	91
3	Effective removal of toxic metal ions from aqueous solutions: 2-Bifunctional magnetic nanocomposite base on novel reactive PGMA-MAN copolymer@Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017, 490, 727-746.	9.4	72
4	Pd immobilized on dendrimer decorated halloysite clay: Computational and experimental study on the effect of dendrimer generation, Pd valance and incorporation of terminal functionality on the catalytic activity. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 421-432.	9.4	72
5	Study of the effect of the ligand structure on the catalytic activity of Pd@ ligand decorated halloysite: Combination of experimental and computational studies. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4891.	3.5	57
6	Efficient hydro-finishing of polyalphaolefin based lubricants under mild reaction condition using Pd on ligands decorated halloysite. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 939-953.	9.4	56
7	Rationalizing current strategies to protect N-heterocyclic carbene-based ruthenium catalysts active in olefin metathesis from C-H (de)activation. <i>Chemical Communications</i> , 2011, 47, 6674.	4.1	52
8	Pd on nitrogen rich polymer-halloysite nanocomposite as an environmentally benign and sustainable catalyst for hydrogenation of polyalphaolefin based lubricants. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 97, 441-451.	5.8	47
9	A DFT study on the effect of hydrogen in ethylene and propylene polymerization using a Ti-based heterogeneous Ziegler-Natta catalyst. <i>Journal of Organometallic Chemistry</i> , 2012, 719, 74-79.	1.8	45
10	Comparison of one-step and two-step methods of polyimidization and substitution effect in the synthesis of new poly(ester-imide)s with bulky pendent group. <i>Polymer Degradation and Stability</i> , 2006, 91, 2622-2631.	5.8	42
11	Coordinative chain transfer polymerization of 1-decene in the presence of a Ti-based diamine bis(phenolate) catalyst: a sustainable approach to produce low viscosity PAOs. <i>Green Chemistry</i> , 2020, 22, 4617-4626.	9.0	41
12	How Well Can DFT Reproduce Key Interactions in Ziegler-Natta Systems?. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1980-1989.	2.2	40
13	Interaction of different poisons with MgCl <sub>2</sub> /TiCl <sub>4</sub> based Ziegler-Natta catalysts. <i>Applied Surface Science</i> , 2016, 379, 395-401.	6.1	40
14	Exploring the mechanism of Grignard metathesis polymerization of 3-alkylthiophenes. <i>Dalton Transactions</i> , 2014, 43, 15143-15150.	3.3	38
15	Interaction of common cocatalysts in Ziegler-Natta-catalyzed olefin polymerization. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5333.	3.5	38
16	Combined experimental and computational study on the role of ionic liquid containing ligand in the catalytic performance of halloysite-based hydrogenation catalyst. <i>Journal of Molecular Liquids</i> , 2021, 331, 115740.	4.9	35
17	Highly efficient FeCl <sub>3</sub> doped Mg(OEt) <sub>2</sub> /TiCl <sub>4</sub> -based Ziegler-Natta catalysts for ethylene polymerization. <i>Designed Monomers and Polymers</i> , 2015, 18, 599-610.	1.6	34
18	The intriguing modeling of <i>cis</i> -selectivity in ruthenium-catalyzed olefin metathesis. <i>Beilstein Journal of Organic Chemistry</i> , 2011, 7, 40-45.	2.2	31

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19	Synthesis of highly isotactic poly 1-hexene using Fe-doped Mg(OEt) <sub>2</sub> /TiCl <sub>4</sub> /ED Ziegler-Natta catalytic system. <i>Designed Monomers and Polymers</i> , 2016, 19, 394-405.	1.6	31
20	1-Decene oligomerization by new complexes bearing diamine-diphenolates ligands: Effect of ligand structure. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6227.	3.5	29
21	Study on unsaturated structure and tacticity of poly1-hexene and new copolymer of 1-hexene/5-hexene-1-ol prepared by metallocene catalyst. <i>Journal of Organometallic Chemistry</i> , 2016, 819, 103-108.	1.8	28
22	pH-Responsive Gelation in Metallo-Supramolecular Polymers Based on the Protic Pyridinedicarboxamide Ligand. <i>Chemistry of Materials</i> , 2022, 34, 6155-6169.	6.7	27
23	Activation of Ziegler-Natta catalysts by organohalide promoters: A combined experimental and density functional theory study. <i>Journal of Applied Polymer Science</i> , 2012, 123, 2526-2533.	2.6	26
24	In-situ photocrosslinkable nanohybrid elastomer based on polybutadiene/polyhedral oligomeric silsesquioxane. <i>Materials Science and Engineering C</i> , 2016, 68, 530-539.	7.3	26
25	New soluble, thermally stable poly(amide-imide)s containing cardo anthraquinone unit. <i>European Polymer Journal</i> , 2006, 42, 2343-2351.	5.4	25
26	Poly1-hexene: New impact modifier in HIPS technology. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	25
27	Synthesis and characterization of poly1-hexene/silica nanocomposites. <i>Polymer Testing</i> , 2017, 61, 27-34.	4.8	24
28	Rationalizing chain microstructure in the poly $\alpha$ -olefins synthesized by cationic AlCl <sub>3</sub> /H <sub>2</sub> O catalytic system. <i>International Journal of Polymer Analysis and Characterization</i> , 2019, 24, 556-570.	1.9	24
29	Preparation and properties of enhanced nanocomposites based on PLA/PC blends reinforced with silica nanoparticles. <i>Polymers for Advanced Technologies</i> , 2020, 31, 566-573.	3.2	24
30	Cu-functionalized halloysite nanoclay as an efficient heterogeneous catalyst for promoting click reactions: Combination of experimental and computational chemistry. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4283.	3.5	23
31	Silica-grafted poly1-hexene: A new approach to prepare polyethylene/silica nanocomposites. <i>Polymer Composites</i> , 2019, 40, 1053-1060.	4.6	23
32	Cu@amine-functionalized halloysite as an efficient heterogeneous catalyst for promoting A3 coupling reaction under ultrasonic irradiation: a combination of experimental and DFT simulation. <i>Journal of Porous Materials</i> , 2018, 25, 821-833.	2.6	22
33	Group IV diamine bis(phenolate) catalysts for 1-decene oligomerization. <i>Molecular Catalysis</i> , 2020, 493, 111047.	2.0	22
34	Microwave Absorption Properties of Polyaniline/Carbonyl Iron Composites. <i>Silicon</i> , 2018, 10, 1337-1343.	3.3	21
35	Halloysite nanoclay decorated with 2-amino pyrimidine functionalized poly glycidyl methacrylate: An efficient support for the immobilization of Pd nanoparticles. <i>Journal of Solid State Chemistry</i> , 2019, 271, 59-66.	2.9	21
36	Highly efficient supported AlCl <sub>3</sub> -based cationic catalysts to produce poly $\alpha$ -olefin oil base stocks. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49018.	2.6	21

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37	Molecular modelling aided catalyst design for PAO oils hydrofinishing. Journal of Molecular Liquids, 2022, 352, 118675.	4.9	21
38	Radar Absorption Properties of Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> /PANI/epoxy Nanocomposites. Journal of the Chinese Chemical Society, 2015, 62, 826-831.	1.4	20
39	Effect of halocarbon promoters on polyethylene properties using MgCl <sub>2</sub> (ethoxide) Tj ETQq1 1 0.784314 rgBT /Overlock Science, 2010, 117, 1780-1786.	2.6	19
40	The effects of solvent and initiator on anionic ring opening polymerization of $\epsilon$ -caprolactone: synthesis and characterization. Polymer International, 2014, 63, 479-485.	3.1	19
41	Pd immobilization on the multi-amine functionalized halloysite as an efficient catalyst for hydrogenation reaction: An experimental and computational study. Applied Clay Science, 2020, 192, 105645.	5.2	19
42	Exploring cocatalyst type effect on the Ziegler-Natta catalyzed ethylene polymerizations: experimental and DFT studies. Journal of Polymer Research, 2022, 29, .	2.4	19
43	New high impact polystyrene: Use of poly(1-hexene) and poly(1-hexene-co-hexadiene) as impact modifiers. Polymers for Advanced Technologies, 2018, 29, 1603-1612.	3.2	18
44	Effect of metal type on the metallocene-catalyzed oligomerization of 1-hexene and 1-octene to produce poly( $\alpha$ -olefin)-based synthetic lubricants. Applied Organometallic Chemistry, 2020, 34, e5338.	3.5	18
45	Polybutadiene/polyhedral oligomeric silsesquioxane nanohybrid: investigation of various reactants in polyesterification reaction. Polymer International, 2016, 65, 516-525.	3.1	17
46	Effect of Water on the Supported Ziegler-Natta Catalysts: Optimization of the Operating Conditions by Response Surface Methodology. Catalysis Letters, 2015, 145, 1186-1195.	2.6	16
47	Effect of support hydrophobicity of halloysite-based catalysts on the poly( $\alpha$ -olefin) hydrofinishing performance. Applied Organometallic Chemistry, 2022, 36, .	3.5	16
48	Structure-property relations in heat resistant polyesters with built-in ether and imide units. European Polymer Journal, 2006, 42, 2646-2654.	5.4	15
49	Synthesis and characterization of Ni(II) complexes bearing of 2-(1H-benzimidazol-2-yl)phenol derivatives as highly active catalysts for ethylene oligomerization. Applied Organometallic Chemistry, 2018, 32, e4015.	3.5	15
50	Different behaviors of metallocene and Ziegler-Natta catalysts in ethylene/1,5-hexadiene copolymerization. Polymer International, 2019, 68, 94-101.	3.1	15
51	The effect of ionic liquid containing AlCl <sub>3</sub> catalytic systems on the microstructure and properties of poly( $\alpha$ -olefin) based lubricants. Journal of Molecular Liquids, 2021, 335, 116299.	4.9	15
52	Sulfonated Magnetic Nanocomposite Based on Reactive PGMA-MAN Copolymer@Fe <sub>3</sub> O <sub>4</sub> Nanoparticles: Effective Removal of Cu(II) Ions from Aqueous Solutions. International Journal of Polymer Science, 2016, 2016, 1-15.	2.7	14
53	Effects of monomer length on $\alpha$ -olefins polymerization using a conventional Ziegler-Natta catalyst. Advances in Polymer Technology, 2018, 37, 2588-2596.	1.7	14
54	Production of poly( $\alpha$ -olefin)-based lubricants using new (poly)ionic liquid /AlCl <sub>3</sub> catalysts as environmentally friendly alternatives to commercial AlCl <sub>3</sub> route. Applied Catalysis A: General, 2021, 623, 118274.	4.3	14

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55	Microstructural study on low viscosity poly(1-olefin) oils synthesized via AlCl <sub>3</sub> /H <sub>2</sub> O cationic system in the present of xylene and heptane solvents. <i>Fuel</i> , 2021, 302, 121111.	6.4	14
56	Palladated chitosan-halloysite bead as an efficient catalyst for hydrogenation of lubricants. <i>Materials Chemistry and Physics</i> , 2022, 278, 125506.	4.0	14
57	Exploring Basic Components Effect on the Catalytic Efficiency of Chevron-Phillips Catalyst in Ethylene Trimerization. <i>Catalysts</i> , 2018, 8, 224.	3.5	13
58	Oligomerization of higher 1-olefins to poly(1-olefins). <i>Iranian Polymer Journal (English Edition)</i> , 2022, 31, 107-126.	2.4	13
59	A reactive copolymer based on Glycidylmethacrylate and Maleic Anhydride: 1-synthesis, characterization and monomer reactivity ratios. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	12
60	Experimental and DFT study on titanium-based half-sandwich metallocene catalysts and their application for production of 1-hexene from ethylene. <i>Molecular Catalysis</i> , 2021, 509, 111636.	2.0	12
61	Synthesis and evaluation of a new three-metallic high-performance Ziegler-Natta catalyst for ethylene polymerization: experimental and computational studies. <i>Polymer Bulletin</i> , 2022, 79, 7265-7280.	3.3	12
62	Synthesis of highly spherical Ziegler-Natta catalyst by employing Span 80 as an emulsifier suitable for UHMWPE production. <i>Polymer Bulletin</i> , 2023, 80, 1625-1639.	3.3	11
63	Effects of acid-treatment of halloysite on the characteristics and catalytic performance of palladated halloysite in lubricants hydrogenation reaction. <i>Inorganic Chemistry Communication</i> , 2022, 140, 109438.	3.9	11
64	Structure-Property Relationships of Soluble Poly(ester-urea)s containing Naphthyl Groups. <i>High Performance Polymers</i> , 2007, 19, 283-295.	1.8	10
65	Preparation and characterization of thermally stable poly(amide-urea)s functionalized with anthraquinone chromophore. <i>Polymers for Advanced Technologies</i> , 2008, 19, 291-298.	3.2	10
66	Cu@Sulfur-functionalized halloysite nanoclay: a novel recyclable catalyst for the ultrasonic-assisted synthesis of propargylamines: a combination of experimental and DFT simulation. <i>Research on Chemical Intermediates</i> , 2018, 44, 6351-6368.	2.7	10
67	Regio, stereo and chemoselectivity of 2nd generation Grubbs ruthenium-catalyzed olefin metathesis. <i>Catalysis Today</i> , 2020, 388-389, 394-394.	4.4	10
68	H <sub>2</sub> effect in Chevron-Phillips ethylene trimerization catalytic system: an experimental and theoretical investigation. <i>Polymer Bulletin</i> , 2018, 75, 3555-3565.	3.3	8
69	Preparation of novel, liquid, solvent-free, polyolefin-based adhesives. <i>Polymers for Advanced Technologies</i> , 2020, 31, 922-931.	3.2	8
70	Single-phase photocrosslinkable adhesive synthesized from methacrylic acid-grafted 1-decene/9-decene-cooligomer. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49654.	2.6	7
71	Cobalt complexes based on 2-(1H-benzimidazol-2-yl)-phenol derivatives: preparation, spectral studies, DFT calculations and catalytic behavior toward ethylene oligomerization. <i>Journal of Coordination Chemistry</i> , 2017, 70, 1800-1814.	2.2	6
72	Methacrylate-functionalized POSS as an efficient adhesion promoter in olefin-based adhesives. <i>Polymer Engineering and Science</i> , 2020, 60, 2991-3000.	3.1	6

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73	Preparation and Properties of Enhanced Bio-Based PLA/PA6/Graphene Nanocomposites in the Presence of an Ester-“Amide Exchange Catalyst. <i>Journal of Polymers and the Environment</i> , 2021, 29, 2302-2309.	5.0	6
74	Pd on ligand-decorated chitosan as an efficient catalyst for hydrofinishing polyalphaolefins: Experimental and computational studies. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 164, 110611.	4.0	6
75	Effects of the molecular weight and C=C functionality of poly 1-hexene on the properties of poly 1-hexene-based high impact polystyrene. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47169.	2.6	5
76	New less-toxic halloysite-supported ionic liquid/AlCl <sub>3</sub> oligomerization catalysts: a comparative study on the effects of various ionic liquids on the properties of polyalphaolefins. <i>Molecular Catalysis</i> , 2021, 509, 111648.	2.0	5
77	Preparation, characterization, DFT calculations and ethylene oligomerization studies of iron(II) complexes bearing 2-(1H-benzimidazol-2-yl)-phenol derivatives. <i>Journal of Coordination Chemistry</i> , 2018, 71, 1180-1192.	2.2	4
78	Electrical and Electromagnetic Properties of CNT/Polymer Composites. , 2018, , 233-258.		4
79	Poly(furfuryl alcohol) bioresin-modified LY5210 epoxy thermosets. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	4
80	Evaluation of GS-loaded poly1-hexene as a new elastomeric drug release system. <i>International Journal of Polymer Analysis and Characterization</i> , 2019, 24, 709-720.	1.9	4
81	Preparation of an enhanced nanohybrid alloy based on polylactic acid/polycarbonate/nanosilica. <i>Plastics, Rubber and Composites</i> , 2020, 49, 263-270.	2.0	4
82	Effect of different chain transfer agents in the coordinative chain transfer oligomerization of dec-1-ene. <i>Journal of Molecular Structure</i> , 2022, 1263, 133157.	3.6	4
83	Dual-task composite of halloysite and ionic liquid for the synthesis and hydrogenation of polyalphaolefins. <i>Research on Chemical Intermediates</i> , 2022, 48, 3171-3188.	2.7	4
84	Curing, mechanical, thermomechanical and rheological properties of new poly(1-hexene-co-hexadiene) rubber. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	2
85	Polyethylene glycol fumarate/acrylated-silica nanocomposite: synthesis, characterization and in-vitro evaluation. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	2
86	Fluxional bis(phenoxy-imine) Zr and Ti catalysts for polymerization. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1.	1.4	2
87	Effect of Catalyst Type on the Copolymerization of Styrene/1-Hexene and Exploring of Their Structural and Thermal Properties. <i>Polymer Science - Series B</i> , 2019, 61, 762-770.	0.8	1
88	Copolymerization of Styrene and 1-Hexene via Ziegler-Natta and Atom Transfer Radical Polymerization Methods. , 2020, , 593-596.		0