

# Khaled Mezghani

## List of Publications by Year in descending order

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35  
papers

1,423  
citations

361413

20  
h-index

414414

32  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1407  
citing authors

#	ARTICLE	IF	CITATIONS
1	The $\beta$ -phase of high molecular weight isotactic polypropylene: III. The equilibrium melting point and the phase diagram. <i>Polymer</i> , 1998, 39, 3735-3744.	3.8	176
2	A review of recent developments in carbon capture utilizing oxy-fuel combustion in conventional and ion transport membrane systems. <i>International Journal of Energy Research</i> , 2011, 35, 741-764.	4.5	161
3	The $\beta$ -phase of high molecular weight isotactic polypropylene. II: The morphology of the $\beta$ -form crystallized at 200 MPa. <i>Polymer</i> , 1997, 38, 5725-5733.	3.8	114
4	High speed melt spinning of poly(L-lactic acid) filaments. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 1005-1012.	2.1	108
5	Oxy-fuel combustion technology: current status, applications, and trends. <i>International Journal of Energy Research</i> , 2017, 41, 1670-1708.	4.5	93
6	On the crystallization of $\beta$ -isotactic polypropylene: A high pressure study. <i>Macromolecular Rapid Communications</i> , 1997, 18, 1-7.	3.9	87
7	$\beta$ -Phase in propylene copolymers at atmospheric pressure. <i>Polymer</i> , 1995, 36, 2407-2411.	3.8	81
8	Lamellar Thickening and the Equilibrium Melting Point of Polypropylene. <i>Macromolecules</i> , 1994, 27, 997-1002.	4.8	74
9	Miscibility of hexene-LLDPE and LDPE blends: influence of branch content and composition distribution. <i>Polymer</i> , 2003, 44, 4665-4672.	3.8	67
10	Strain Influence on the Oxygen Electrocatalysis of the (100)-Oriented Epitaxial $\text{La}_{2-x}\text{NiO}_{4+\delta}$ Thin Films at Elevated Temperatures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18789-18795.	3.1	48
11	Synthesis, characterization, and water adsorption properties of a novel multi-walled carbon nanotube/MIL-100(Fe) composite. <i>Dalton Transactions</i> , 2016, 45, 15621-15633.	3.3	39
12	Effect of $\text{COOH}$ Functionalized Carbon Nanotubes on Mechanical, Dynamic Mechanical and Thermal Properties of Polypropylene Nanocomposites. <i>Journal of Thermoplastic Composite Materials</i> , 2012, 25, 333-350.	4.2	36
13	Influence of carbon nanotube (CNT) on the mechanical properties of LLDPE/CNT nanocomposite fibers. <i>Materials Letters</i> , 2011, 65, 3633-3635.	2.6	33
14	Experimental and numerical study of oxygen separation and oxy-combustion characteristics inside a button-cell LNO-ITM reactor. <i>Energy</i> , 2015, 84, 600-611.	8.8	31
15	$\beta$ Disorder in Isotactic Polypropylene Crystallized under High Pressure. <i>Macromolecules</i> , 1996, 29, 795-797.	4.8	29
16	Novel sulfonated poly(ether ether ketone)/phosphonated polysulfone polymer blends for proton conducting membranes. <i>Journal of Materials Research</i> , 2012, 27, 1958-1968.	2.6	25
17	Thermally rearranged polypyrrolone membranes for high-pressure natural gas separation applications. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 51, 262-270.	4.4	24
18	Enhancing Oxygen Permeation of Electronically Short-Circuited Oxygen-Ion Conductors by Decorating with Mixed Ionic-Electronic Conducting Oxides. <i>ECS Electrochemistry Letters</i> , 2013, 2, F77-F81.	1.9	23

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19	Oxygen Permeation from Oxygen Ion-Conducting Membranes Coated with Porous Metals or Mixed Ionic and Electronic Conducting Oxides. <i>Journal of the Electrochemical Society</i> , 2013, 160, E148-E153.	2.9	22
20	Long term environmental effects on physical properties of vinylester composite pipes. <i>Polymer Testing</i> , 2012, 31, 76-82.	4.8	21
21	Application of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> membranes in an oxy-fuel combustion reactor. <i>Journal of Membrane Science</i> , 2016, 518, 254-262.	8.2	19
22	Characteristic of air separation in hollow-fiber polymeric membrane for oxygen enriched air clean combustion applications. <i>Journal of Cleaner Production</i> , 2017, 143, 960-972.	9.3	15
23	Preparation of pH-Indicative and Flame-Retardant Nanocomposite Films for Smart Packaging Applications. <i>Sensors</i> , 2020, 20, 5462.	3.8	13
24	Effect of microstructure and thickness on oxygen permeation of La <sub>2</sub> NiO <sub>4</sub> membranes. <i>Ceramics International</i> , 2016, 42, 666-672.	4.8	12
25	Crystallization Kinetics of Polymers. , 2007, , 625-640.		12
26	Equilibrium Melting Point of Deuterated Polypropylene. <i>Macromolecules</i> , 1994, 27, 6145-6146.	4.8	11
27	Experimental and Numerical Investigation of La <sub>2</sub> NiO <sub>4</sub> Membranes for Oxygen Separation: Geometry Optimization and Model Validation. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015, 137, .	2.3	11
28	Optimizing the Curing Process of Epoxy-Clay Nanocomposites. <i>Key Engineering Materials</i> , 0, 471-472, 415-419.	0.4	10
29	Effect of High Shear Mixing Parameters and Degassing Temperature on the Morphology of Epoxy-Clay Nanocomposites. <i>Advanced Materials Research</i> , 0, 652-654, 159-166.	0.3	10
30	Analysis of dart impact resistance of low-density polyethylene and linear low-density polyethylene blown films via an improved instrumented impact test method. <i>Journal of Plastic Film and Sheeting</i> , 2012, 28, 298-313.	2.2	5
31	Effect of phenol functionalized carbon nanotube on mechanical, dynamic mechanical, and thermal properties of isotactic polypropylene nanocomposites. <i>Polymer Engineering and Science</i> , 2012, 52, 525-531.	3.1	5
32	Synthesis and water sorption properties of a series of exfoliated graphene/MIL-100(Fe) composites. <i>RSC Advances</i> , 2017, 7, 17353-17356.	3.6	3
33	Fatigue Crack Propagation in Weld Zone of CPVC Pipe Fittings at Different Temperatures. <i>Journal of Polymer Engineering</i> , 2001, 21, .	1.4	2
34	High speed melt spinning of poly(L-lactic acid) filaments. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 1005-1012.	2.1	2
35	Effect of Blend Ratio of h-LLDPE and LDPE on Tear Properties of Blown Films. <i>International Polymer Processing</i> , 2012, 27, 392-398.	0.5	1