

Saeed M Al-Zahrani

List of Publications by Year in descending order

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126
papers

3,500
citations

136740

32
h-index

182168

51
g-index

127
all docs

127
docs citations

127
times ranked

4311
citing authors

#	ARTICLE	IF	CITATIONS
1	The multiple role of inorganic and organic additives in the degradation of reactive green 12 by UV/chlorine advanced oxidation process. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 835-847.	1.2	9
2	Long Persistent Luminescent HDPE Composites with Strontium Aluminate and Their Phosphorescence, Thermal, Mechanical, and Rheological Characteristics. <i>Materials</i> , 2022, 15, 1142.	1.3	5
3	A Convenient and Simple Ionic Polymer-Metal Composite (IPMC) Actuator Based on a Platinum-Coated Sulfonated Poly(ether ether ketone)-Polyaniline Composite Membrane. <i>Polymers</i> , 2022, 14, 668.	2.0	8
4	Amorphous Poly(ethylene terephthalate) Composites with High-Aspect Ratio Aluminium Nano Platelets. <i>Polymers</i> , 2022, 14, 630.	2.0	3
5	Synthesis and Characterization of Cellulose Triacetate Obtained from Date Palm (<i>Phoenix dactylifera</i>) Tj ETQq1 1 0,784314 rgBT /Overlock 18	1.7	18
6	Nanomechanical and Electrochemical Properties of ZnO-Nanoparticle-Filled Epoxy Coatings. <i>Coatings</i> , 2022, 12, 282.	1.2	9
7	Conductive Plastics from Al Platelets in a PBT-PET Polyester Blend Having Co-Continuous Morphology. <i>Polymers</i> , 2022, 14, 1092.	2.0	4
8	Development and Characterization of PA 450 and PA 3282 Epoxy Coatings as Anti-Corrosion Materials for Offshore Applications. <i>Materials</i> , 2022, 15, 2562.	1.3	6
9	Platinum-coated silicotungstic acid-sulfonated polyvinyl alcohol-polyaniline based hybrid ionic polymer metal composite membrane for bending actuation applications. <i>Scientific Reports</i> , 2022, 12, 4467.	1.6	13
10	Date-Palm-Derived Cellulose Nanocrystals as Reinforcing Agents for Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,382 Td (alcohol)/G	1.9	5
11	Characterization of Thermal, Ionic Conductivity and Electrochemical Properties of Some p-Tosylate Anions-Based Protic Ionic Compounds. <i>Crystals</i> , 2022, 12, 507.	1.0	1
12	Effect of Compatibilizer on the Persistent Luminescence of Polypropylene/Strontium Aluminate Composites. <i>Polymers</i> , 2022, 14, 1711.	2.0	3
13	Development of Bigels Based on Date Palm-Derived Cellulose Nanocrystal-Reinforced Guar Gum Hydrogel and Sesame Oil/Candelilla Wax Oleogel as Delivery Vehicles for Moxifloxacin. <i>Gels</i> , 2022, 8, 330.	2.1	10
14	Sonochemical production of hydrogen: A numerical model applied to the recovery of aqueous methanol waste under oxygen atmosphere. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, e13511.	1.3	14
15	Utilization of polyethylene terephthalate waste as a carbon filler in polypropylene matrix: Investigation of mechanical, rheological, and thermal properties. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50292.	1.3	4
16	Essential Oil-Containing Polysaccharide-Based Edible Films and Coatings for Food Security Applications. <i>Polymers</i> , 2021, 13, 575.	2.0	60
17	Strontium Aluminate-Based Long Afterglow PP Composites: Phosphorescence, Thermal, and Mechanical Characteristics. <i>Polymers</i> , 2021, 13, 1373.	2.0	21
18	Effects of SiO ₂ and ZnO Nanoparticles on Epoxy Coatings and Its Performance Investigation Using Thermal and Nanoindentation Technique. <i>Polymers</i> , 2021, 13, 1490.	2.0	16

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19	Isolation and Characterization of Alpha and Nanocrystalline Cellulose from Date Palm (Phoenix) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.0	41
20	Toward understanding the mechanism of pure CO ₂ quenching sonochemical processes. Journal of Chemical Technology and Biotechnology, 2020, 95, 553-566.	1.6	17
21	Effect of Incorporated ZnO Nanoparticles on the Corrosion Performance of SiO ₂ Nanoparticle-Based Mechanically Robust Epoxy Coatings. Materials, 2020, 13, 3767.	1.3	15
22	Aluminum-Filled Amorphous-PET, a Composite Showing Simultaneous Increase in Modulus and Impact Resistance. Polymers, 2020, 12, 2038.	2.0	18
23	Synthesis, Characterization and Catalytic Evaluation of Chromium Oxide Deposited on Titania-Silica Mesoporous Nanocomposite for the Ethane Dehydrogenation with CO ₂ . Crystals, 2020, 10, 322.	1.0	3
24	Synergetic Impact of Secondary Metal Oxides of Cr-M/MCM41 Catalyst Nanoparticles for Ethane Oxidative Dehydrogenation Using Carbon Dioxide. Crystals, 2020, 10, 7.	1.0	7
25	Dehydrogenation of Ethane to Ethylene by CO ₂ over Highly Dispersed Cr on Large-Pore Mesoporous Silica Catalysts. Catalysts, 2020, 10, 97.	1.6	17
26	Enhancement in Nanomechanical, Thermal, and Abrasion Properties of SiO ₂ Nanoparticle-Modified Epoxy Coatings. Coatings, 2020, 10, 310.	1.2	20
27	Influence of SiO ₂ Content and Exposure Periods on the Anticorrosion Behavior of Epoxy Nanocomposite Coatings. Coatings, 2020, 10, 118.	1.2	30
28	Role of TiO ₂ nanoparticle modification of Cr/MCM41 catalyst to enhance Cr-support interaction for oxidative dehydrogenation of ethane with carbon dioxide. Applied Catalysis A: General, 2019, 584, 117114.	2.2	23
29	Effect of Pyrolysis Temperature on Biochar Microstructural Evolution, Physicochemical Characteristics, and Its Influence on Biochar/Polypropylene Composites. Applied Sciences (Switzerland), 2019, 9, 1149.	1.3	153
30	Synergistic Effect of Ag and ZnO Nanoparticles on Polypyrrole-Incorporated Epoxy/2pack Coatings and Their Corrosion Performances in Chloride Solutions. Coatings, 2019, 9, 287.	1.2	9
31	Effect of nucleating agent incorporation on mechanical, morphological, and rheological properties of in-situ copolymer polypropylene and PPH/POE blends. AIP Conference Proceedings, 2019, , .	0.3	0
32	Synergistic effect of Ag and ZnO nanoparticles on polyaniline incorporated epoxy/2pack coatings for splash zone applications. Journal of Coatings Technology Research, 2019, 16, 835-845.	1.2	11
33	Impact of precursor sequence of addition for one-pot synthesis of Cr-MCM-41 catalyst nanoparticles to enhance ethane oxidative dehydrogenation with carbon dioxide. Ceramics International, 2019, 45, 1125-1134.	2.3	38
34	Enhancing mechanical properties of epoxy/polyaniline coating with addition of ZnO nanoparticles: Nanoindentation characterization. Progress in Organic Coatings, 2018, 119, 109-115.	1.9	48
35	Effect of plasticizer on the electrical, thermal, and morphological properties of carbon black filled poly(propylene). Polymer Composites, 2017, 38, 2472-2479.	2.3	11
36	A green process for simultaneous production of fructose and ethanol via selective fermentation. Journal of Cleaner Production, 2017, 162, 420-426.	4.6	10

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37	Rheological and mechanical properties of polypropylene/calcium carbonate nanocomposites prepared from masterbatch. <i>Journal of Thermoplastic Composite Materials</i> , 2016, 29, 593-622.	2.6	32
38	The influences of elastomer toward degradability of poly (lactic acid). <i>AIP Conference Proceedings</i> , 2016, , .	0.3	2
39	Influence of plasticizers and cryogenic grinding on the highâ€œcoolingâ€œrate solidification behavior of PBT/PET blends. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	7
40	Design and fabrication of a portable and hybrid solar-powered membrane distillation system. <i>Journal of Cleaner Production</i> , 2016, 133, 631-647.	4.6	80
41	Effects of extrusion parameters on tensile strength of polybenzimidazole fiber-reinforced high density polyethylene composites. <i>Journal of Polymer Engineering</i> , 2016, 36, 113-118.	0.6	2
42	Understanding the interaction between biomacromolecules and their influence on forward osmosis process. <i>Desalination</i> , 2016, 385, 12-23.	4.0	11
43	Facile synthesis of epoxy nanocomposite coatings using inorganic nanoparticles for enhanced thermo-mechanical properties: a comparative study. <i>Journal of Coatings Technology Research</i> , 2016, 13, 159-169.	1.2	31
44	Effect of addition of Ag nano powder on mechanical properties of epoxy/polyaminoamide adduct coatings filled with conducting polymer. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
45	Development of ionic and nonâ€œionic natural gumâ€œbased bigels: Prospects for drug delivery application. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	23
46	Characterization of poly(lactic acid)/hydroxyapatite prepared by a solvent-blending technique. <i>Journal of Elastomers and Plastics</i> , 2015, 47, 753-768.	0.7	10
47	Preparation and characterization of poly(lactic acid)/elastomer blends prepared by melt blending technique. <i>Journal of Elastomers and Plastics</i> , 2014, 46, 253-268.	0.7	6
48	Progress in Carbon Fiber and Its Polypropylene- and Polyethylene-Based Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2014, 53, 1845-1860.	1.9	30
49	Assessing learning outcomes in electrical engineering education: A case study from Saudi Arabia. <i>International Journal of Electrical Engineering and Education</i> , 2014, 51, 354-367.	0.4	3
50	A review on electrically conductive polypropylene and polyethylene. <i>Polymer Composites</i> , 2014, 35, 900-914.	2.3	100
51	Production of fructose from highly concentrated date extracts using <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 2014, 36, 531-536.	1.1	12
52	Influence of Natural and Accelerated Weathering on the Mechanical Properties of Low-Density Polyethylene Films. <i>International Journal of Polymer Analysis and Characterization</i> , 2014, 19, 189-203.	0.9	15
53	Portable and integrated solar-driven desalination system using membrane distillation for arid remote areas in Saudi Arabia. <i>Desalination</i> , 2014, 345, 36-49.	4.0	118
54	Multiwall carbon nanotubes filled polypropylene nanocomposites: Rheological and electrical properties. <i>Polymer Engineering and Science</i> , 2014, 54, 1134-1143.	1.5	18

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55	Polypropylene/organoclay nanocomposites prepared using a Laboratory Mixing Extruder (LME): crystallization, thermal stability and dynamic mechanical properties. <i>Journal of Polymer Research</i> , 2014, 21, 1.	1.2	18
56	Impact of intrinsic properties of foulants on membrane performance in osmotic desalination applications. <i>Separation and Purification Technology</i> , 2014, 123, 87-95.	3.9	13
57	Kinetic model-based feed-forward controlled fed-batch fermentation of <i>Lactobacillus rhamnosus</i> for the production of lactic acid from Arabic date juice. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1007-1015.	1.7	22
58	Efficient solvent regeneration of Basolite C300 used in the liquid-phase adsorption of dibenzothiophene. <i>Fuel</i> , 2013, 113, 216-220.	3.4	18
59	Improvements in barrier properties of poly(ethylene terephthalate) films using commercially available high barrier masterbatch additives via melt blend technique. <i>Journal of Plastic Film and Sheeting</i> , 2013, 29, 21-38.	1.3	4
60	Cd ^{1-x} Zn ^x S supported on SBA-16 as photocatalysts for water splitting under visible light: Influence of Zn concentration. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11799-11810.	3.8	21
61	Effect of Sr loading on oxydehydrogenation of propane to propylene over Al ₂ O ₃ -supported V-Mo catalysts. <i>Journal of Energy Chemistry</i> , 2013, 22, 778-782.	7.1	9
62	Thermal regeneration of the metal organic frameworks used in the adsorption of refractory organosulfur compounds from liquid fuels. <i>Fuel</i> , 2013, 105, 459-465.	3.4	23
63	Used lubricating oil regeneration by various solvent extraction techniques. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 536-539.	2.9	66
64	Developments in Shape Memory Polymeric Materials. <i>Polymer-Plastics Technology and Engineering</i> , 2013, 52, 1574-1589.	1.9	26
65	Studies on crystallization kinetics, microstructure and mechanical properties of different short carbon fiber reinforced polypropylene (SCF/PP) composites. <i>Journal of Polymer Research</i> , 2013, 20, 1.	1.2	35
66	<i>In Vitro</i> Biodegradability of Poly(lactic Acid)/Hydroxyapatite Biocomposites Prepared by Solvent-Blending Technique. <i>Advanced Materials Research</i> , 2012, 626, 631-635.	0.3	4
67	Combined organic-inorganic fouling of forward osmosis hollow fiber membranes. <i>Water Research</i> , 2012, 46, 6329-6338.	5.3	83
68	Effects of scaling and cleaning on the performance of forward osmosis hollow fiber membranes. <i>Journal of Membrane Science</i> , 2012, 415-416, 101-108.	4.1	54
69	Cd ^{1-x} Zn ^x S solid solutions supported on ordered mesoporous silica (SBA-15): Structural features and photocatalytic activity under visible light. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9948-9958.	3.8	34
70	Kinetics of oxydehydrogenation of propane over alumina-supported Sr ²⁺ -Mo catalysts. <i>Catalysis Communications</i> , 2012, 26, 98-102.	1.6	18
71	Long term stability of superoxide ion in piperidinium, pyrrolidinium and phosphonium cations-based ionic liquids and its utilization in the destruction of chlorobenzenes. <i>Journal of Electroanalytical Chemistry</i> , 2012, 664, 26-32.	1.9	55
72	The Influences of Elastomer toward Crystallization of Poly(lactic acid). <i>Procedia Chemistry</i> , 2012, 4, 164-171.	0.7	9

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73	Covering Materials Incorporating Radiation-Preventing Techniques to Meet Greenhouse Cooling Challenges in Arid Regions: A Review. Scientific World Journal, The, 2012, 2012, 1-11.	0.8	44
74	Treatment of acidic palm oil for fatty acid methyl esters production. Chemical Papers, 2012, 66, .	1.0	10
75	Crystallization behavior of poly(lactic acid)/elastomer blends. Journal of Polymer Research, 2012, 19, 1.	1.2	22
76	Atomic Force Microscopy, thermal, viscoelastic and mechanical properties of HDPE/CaCO ₃ nanocomposites. Journal of Polymer Research, 2012, 19, 1.	1.2	36
77	Nanoindentation and dynamic mechanical properties of PP/clay nanocomposites. Journal of Polymer Research, 2012, 19, 1.	1.2	25
78	Diesel fuel reforming over catalysts derived from LaCo _{1-x} Ru _x O ₃ perovskites with high Ru loading. International Journal of Hydrogen Energy, 2012, 37, 7056-7066.	3.8	22
79	Generation of superoxide ion in 1-butyl-1-methylpyrrolidinium trifluoroacetate and its application in the destruction of chloroethanes. Journal of Molecular Liquids, 2012, 167, 28-33.	2.3	25
80	Oxidation of propane to propylene over Sr ²⁺ /Mo catalysts: Effects of reaction temperature and space time. Journal of Industrial and Engineering Chemistry, 2012, 18, 1153-1156.	2.9	13
81	Thermotropic poly(azomethine-urethane)s with non linear optical properties: Synthesis and characterization. Polymer Science - Series B, 2012, 54, 342-348.	0.3	6
82	A REVIEW OF THE APPLICATIONS OF NANOCARBON POLYMER COMPOSITES. Nano, 2011, 06, 185-203.	0.5	79
83	Oxidative dehydrogenation of propane to propylene over Al ₂ O ₃ -supported Sr ²⁺ /Mo catalysts. Catalysis Communications, 2011, 14, 107-110.	1.6	17
84	Hydrogen production by reforming of diesel fuel over catalysts derived from LaCo _{1-x} Ru _x O ₃ perovskites: Effect of the partial substitution of Co by Ru (x=0.01-0.1). Journal of Power Sources, 2011, 196, 9087-9095.	4.0	22
85	Ethanesulfonic acid-based esterification of industrial acidic crude palm oil for biodiesel production. Bioresource Technology, 2011, 102, 9564-9570.	4.8	37
86	Catalysts for Hydrogen Production from Heavy Hydrocarbons. ChemCatChem, 2011, 3, 440-457.	1.8	58
87	Viscoelastic, thermal, and morphological analysis of HDPE/EVA/CaCO ₃ ternary blends. Polymer Bulletin, 2011, 67, 1961-1978.	1.7	27
88	Oxidative reforming of diesel fuel over LaCoO ₃ perovskite derived catalysts: Influence of perovskite synthesis method on catalyst properties and performance. Applied Catalysis B: Environmental, 2011, 105, 276-288.	10.8	93
89	An Oxygen-Deficient Perovskite as Selective Catalyst in the Oxidation of Alkyl Benzenes. Angewandte Chemie - International Edition, 2011, 50, 6557-6561.	7.2	51
90	An efficient oxidation of benzylic and alicyclic compounds with water-soluble copper catalysts in t-butyl hydroperoxide at room temperature. Chinese Chemical Letters, 2011, 22, 691-693.	4.8	6

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91	Comparative study of internal batch mixer such as cam, banbury and roller: Numerical simulation and experimental verification. <i>Chemical Engineering Science</i> , 2011, 66, 2502-2511.	1.9	38
92	Effectiveness of metal-organic frameworks for removal of refractory organo-sulfur compound present in liquid fuels. <i>Fuel</i> , 2011, 90, 190-197.	3.4	124
93	High density polyethylene/micro calcium carbonate composites: A study of the morphological, thermal, and viscoelastic properties. <i>Journal of Applied Polymer Science</i> , 2010, 117, 2413-2421.	1.3	61
94	A Direct Process for the Production of High Fructose Syrups from Dates Extracts. <i>International Journal of Food Engineering</i> , 2010, 6, .	0.7	2
95	Liquid-phase oxidation of p-xylene using N-hydroxyimides. <i>Catalysis Communications</i> , 2010, 12, 5-8.	1.6	25
96	A framework for visible-light water splitting. <i>Energy and Environmental Science</i> , 2010, 3, 1865.	15.6	181
97	Photocatalytic Hydrogen Production on Cd _{1-x} Zn _x S Solid Solutions under Visible Light: Influence of Thermal Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 6854-6861.	1.8	45
98	Large-scale synthesis of porous magnetic composites for catalytic applications. <i>Studies in Surface Science and Catalysis</i> , 2010, , 347-350.	1.5	1
99	Performances of new Kieselguhr-supported transition metal oxide catalysts in propane oxydehydrogenation. <i>Catalysis Communications</i> , 2006, 7, 79-85.	1.6	15
100	Low temperature transalkylation of o-diethylbenzene with benzene to ethylbenzene using triflic acid as a catalyst. <i>Chemical Engineering and Processing: Process Intensification</i> , 2005, 44, 841-846.	1.8	12
101	Oxidative dehydrogenation of isobutane on chromium oxide-based catalyst. <i>Chemical Engineering and Processing: Process Intensification</i> , 2005, 44, 835-840.	1.8	21
102	Propane oxidative dehydrogenation on Cs-doped Cr-Mo-Al-O catalyst: kinetics and mechanism. <i>Chemical Engineering Journal</i> , 2004, 103, 59-67.	6.6	15
103	Isobutane oxydehydrogenation on Al ₂ O ₃ -supported transition and rare-earth metal oxides. <i>Journal of Molecular Catalysis A</i> , 2004, 218, 179-186.	4.8	17
104	Title is missing!. <i>Catalysis Letters</i> , 2003, 87, 121-132.	1.4	14
105	Activities of ³ -Al ₂ O ₃ -Supported Metal Oxide Catalysts in Propane Oxidative Dehydrogenation. <i>Catalysis Letters</i> , 2003, 85, 57-67.	1.4	14
106	Alumina-supported chromium-based mixed-oxide catalysts in oxidative dehydrogenation of isobutane to isobutene. <i>Chemical Engineering and Processing: Process Intensification</i> , 2003, 42, 817-823.	1.8	25
107	Catalytic cracking of gas oils in electromagnetic fields: reactor design and performance. <i>Fuel Processing Technology</i> , 2003, 80, 169-182.	3.7	34
108	Selection of optimum chromium oxide-based catalysts for propane oxidehydrogenation. <i>Catalysis Today</i> , 2003, 81, 507-516.	2.2	28

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109	Oxidative dehydrogenation of propane over supported chromium-molybdenum oxides catalysts. <i>Catalysis Communications</i> , 2003, 4, 579-584.	1.6	25
110	Transalkylation and isomerization of ortho-diethylbenzene with benzene using trifluoromethanesulphonic acid catalyst: kinetic analysis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2002, 41, 321-327.	1.8	10
111	A method of predicting effective solvent extraction parameters for recycling of used lubricating oils. <i>Chemical Engineering and Processing: Process Intensification</i> , 2002, 41, 765-769.	1.8	52
112	Title is missing!. <i>Catalysis Letters</i> , 2002, 78, 331-337.	1.4	2
113	Catalytic Performance of Chromium Oxide Supported on Al ₂ O ₃ in Oxidative Dehydrogenation of Isobutane to Isobutene. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 781-784.	1.8	45
114	Keggin-type polyoxotungstate as a catalyst in oxidative dehydrogenation of propane. <i>Journal of Molecular Catalysis A</i> , 2001, 175, 259-265.	4.8	9
115	Low temperature hydrocracking of n-heptane over Ni-supported catalysts: study of global kinetics. <i>Applied Catalysis A: General</i> , 2001, 219, 131-140.	2.2	13
116	Modelling and simulation of 1,2-dichloroethane production by ethylene oxychlorination in fluidized-bed reactor. <i>Chemical Engineering Science</i> , 2001, 56, 621-626.	1.9	10
117	Propane Oxidative Dehydrogenation over Metal Pyrophosphates Catalysts. <i>Catalysis Letters</i> , 2001, 74, 145-148.	1.4	15
118	Oxidative dehydrogenation of isobutane over pyrophosphates catalytic systems. <i>Catalysis Letters</i> , 2000, 69, 65-70.	1.4	33
119	Propane Oxidative Dehydrogenation over Alumina-Supported Metal Oxides. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 4070-4074.	1.8	20
120	Utilization of Polyethylene and Paraffin Waxes as Controlled Delivery Systems for Different Fertilizers. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 367-371.	1.8	96
121	Controlled-release of fertilizers: modelling and simulation. <i>International Journal of Engineering Science</i> , 1999, 37, 1299-1307.	2.7	67
122	A general model for the viscosity of waxy oils. <i>Chemical Engineering and Processing: Process Intensification</i> , 1998, 37, 433-437.	1.8	46
123	Optimization and Control of Industrial Gas-Phase Ethylene Polymerization Reactors. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 3414-3423.	1.8	25
124	A generalized rheological model for shear thinning fluids. <i>Journal of Petroleum Science and Engineering</i> , 1997, 17, 211-215.	2.1	49
125	The effects of gas composition and process conditions on the oxidative coupling of methane over Li/MgO catalyst. <i>Studies in Surface Science and Catalysis</i> , 1996, , 383-396.	1.5	2
126	Effects of carbon dioxide during oxidative coupling of methane over lithium/magnesia: mechanisms and models. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 251-258.	1.8	23