Saeed M Al-Zahrani

List of Publications by Year in descending order

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#	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. Environmental Technology (United Kingdom), 2022, 43, 835-847.	2.2	9
2	Long Persistent Luminescent HDPE Composites with Strontium Aluminate and Their Phosphorescence, Thermal, Mechanical, and Rheological Characteristics. Materials, 2022, 15, 1142.	2.9	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. Polymers, 2022, 14, 668.	4.5	8
4	Amorphous Poly(ethylene terephthalate) Composites with High-Aspect Ratio Aluminium Nano Platelets. Polymers, 2022, 14, 630.	4.5	3
5	Synthesis and Characterization of Cellulose Triacetate Obtained from Date Palm (Phoenix dactylifera) Tj ETQq1 1	0.784314	l rgBT /Overld
6	Nanomechanical and Electrochemical Properties of ZnO-Nanoparticle-Filled Epoxy Coatings. Coatings, 2022, 12, 282.	2.6	9
7	Conductive Plastics from Al Platelets in a PBT-PET Polyester Blend Having Co-Continuous Morphology. Polymers, 2022, 14, 1092.	4.5	4
8	Development and Characterization of PA 450 and PA 3282 Epoxy Coatings as Anti-Corrosion Materials for Offshore Applications. Materials, 2022, 15, 2562.	2.9	6
9	Platinum-coated silicotungstic acid-sulfonated polyvinyl alcohol-polyaniline based hybrid ionic polymer metal composite membrane for bending actuation applications. Scientific Reports, 2022, 12, 4467.	3.3	13
10	Date-Palm-Derived Cellulose Nanocrystals as Reinforcing Agents for Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 T	f 50 382 To 4.1	d (alcohol)/G
11	Characterization of Thermal, Ionic Conductivity and Electrochemical Properties of Some p-Tosylate Anions-Based Protic Ionic Compounds. Crystals, 2022, 12, 507.	2.2	1
12	Effect of Compatibilizer on the Persistent Luminescence of Polypropylene/Strontium Aluminate Composites. Polymers, 2022, 14, 1711.	4.5	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. Gels, 2022, 8, 330.	4.5	10
14	Sonochemical production of hydrogen: A numerical model applied to the recovery of aqueous methanol waste under o <scp>xygenâ€argon</scp> atmosphere. Environmental Progress and Sustainable Energy, 2021, 40, e13511.	2.3	14
15	Utilization of polyethylene terephthalate waste as a carbon filler in polypropylene matrix: Investigation of mechanical, rheological, and thermal properties. Journal of Applied Polymer Science, 2021, 138, 50292.	2.6	4
16	Essential Oil-Containing Polysaccharide-Based Edible Films and Coatings for Food Security Applications. Polymers, 2021, 13, 575.	4.5	60
17	Strontium Aluminate-Based Long Afterglow PP Composites: Phosphorescence, Thermal, and Mechanical Characteristics. Polymers, 2021, 13, 1373.	4.5	21
18	Effects of SiO2 and ZnO Nanoparticles on Epoxy Coatings and Its Performance Investigation Using Thermal and Nanoindentation Technique. Polymers, 2021, 13, 1490.	4.5	16

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19	Isolation and Characterization of Alpha and Nanocrystalline Cellulose from Date Palm (Phoenix) Tj ETQq1 1 0.78	4314 rgBT 4.5	Overlock 10 41
20	Toward understanding the mechanism of pure CO ₂ â€quenching sonochemical processes. Journal of Chemical Technology and Biotechnology, 2020, 95, 553-566.	3.2	17
21	Effect of Incorporated ZnO Nanoparticles on the Corrosion Performance of SiO2 Nanoparticle-Based Mechanically Robust Epoxy Coatings. Materials, 2020, 13, 3767.	2.9	15
22	Aluminum-Filled Amorphous-PET, a Composite Showing Simultaneous Increase in Modulus and Impact Resistance. Polymers, 2020, 12, 2038.	4.5	18
23	Synthesis, Characterization and Catalytic Evaluation of Chromium Oxide Deposited on Titania–Silica Mesoporous Nanocomposite for the Ethane Dehydrogenation with CO2. Crystals, 2020, 10, 322.	2.2	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.	2.2	7
25	Dehydrogenation of Ethane to Ethylene by CO2 over Highly Dispersed Cr on Large-Pore Mesoporous Silica Catalysts. Catalysts, 2020, 10, 97.	3.5	17
26	Enhancement in Nanomechanical, Thermal, and Abrasion Properties of SiO2 Nanoparticle-Modified Epoxy Coatings. Coatings, 2020, 10, 310.	2.6	20
27	Influence of SiO2 Content and Exposure Periods on the Anticorrosion Behavior of Epoxy Nanocomposite Coatings. Coatings, 2020, 10, 118.	2.6	30
28	Role of TiO2 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.	4.3	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.	2.5	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.	2.6	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, , .	0.4	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.	2.5	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.	4.8	38
34	Enhancing mechanical properties of epoxy/polyaniline coating with addition of ZnO nanoparticles: Nanoindentation characterization. Progress in Organic Coatings, 2018, 119, 109-115.	3.9	48
35	Effect of plasticizer on the electrical, thermal, and morphological properties of carbon black filled poly(propylene). Polymer Composites, 2017, 38, 2472-2479.	4.6	11
36	A green process for simultaneous production of fructose and ethanol via selective fermentation. Journal of Cleaner Production, 2017, 162, 420-426.	9.3	10

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37	Rheological and mechanical properties of polypropylene/calcium carbonate nanocomposites prepared from masterbatch. Journal of Thermoplastic Composite Materials, 2016, 29, 593-622.	4.2	32
38	The influences of elastomer toward degradability of poly (lactic acid). AIP Conference Proceedings, 2016, , .	0.4	2
39	Influence of plasticizers and cryogenic grinding on the highâ€coolingâ€rate solidification behavior of PBT/PET blends. Journal of Applied Polymer Science, 2016, 133, .	2.6	7
40	Design and fabrication of a portable and hybrid solar-powered membrane distillation system. Journal of Cleaner Production, 2016, 133, 631-647.	9.3	80
41	Effects of extrusion parameters on tensile strength of polybenzimidazole fiber-reinforced high density polyethylene composites. Journal of Polymer Engineering, 2016, 36, 113-118.	1.4	2
42	Understanding the interaction between biomacromolecules and their influence on forward osmosis process. Desalination, 2016, 385, 12-23.	8.2	11
43	Facile synthesis of epoxy nanocomposite coatings using inorganic nanoparticles for enhanced thermo-mechanical properties: a comparative study. Journal of Coatings Technology Research, 2016, 13, 159-169.	2.5	31
44	Effect of addition of Ag nano powder on mechanical properties of epoxy/polyaminoamide adduct coatings filled with conducting polymer. AIP Conference Proceedings, 2015, , .	0.4	1
45	Development of ionic and nonâ€ionic natural gumâ€based bigels: Prospects for drug delivery application. Journal of Applied Polymer Science, 2015, 132, .	2.6	23
46	Characterization of poly(lactic acid)/hydroxyapatite prepared by a solvent-blending technique. Journal of Elastomers and Plastics, 2015, 47, 753-768.	1.5	10
47	Preparation and characterization of poly(lactic acid)/elastomer blends prepared by melt blending technique. Journal of Elastomers and Plastics, 2014, 46, 253-268.	1.5	6
48	Progress in Carbon Fiber and Its Polypropylene- and Polyethylene-Based Composites. Polymer-Plastics Technology and Engineering, 2014, 53, 1845-1860.	1.9	30
49	Assessing learning outcomes in electrical engineering education: A case study from Saudi Arabia. International Journal of Electrical Engineering and Education, 2014, 51, 354-367.	0.8	3
50	A review on electrically conductive polypropylene and polyethylene. Polymer Composites, 2014, 35, 900-914.	4.6	100
51	Production of fructose from highly concentrated date extracts using Saccharomyces cerevisiae. Biotechnology Letters, 2014, 36, 531-536.	2.2	12
52	Influence of Natural and Accelerated Weathering on the Mechanical Properties of Low-Density Polyethylene Films. International Journal of Polymer Analysis and Characterization, 2014, 19, 189-203.	1.9	15
53	Portable and integrated solar-driven desalination system using membrane distillation for arid remote areas in Saudi Arabia. Desalination, 2014, 345, 36-49.	8.2	118
54	Multiwall carbon nanotubes filled polypropylene nanocomposites: Rheological and electrical properties. Polymer Engineering and Science, 2014, 54, 1134-1143.	3.1	18

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55	Polypropylene/organoclay nanocomposites prepared using a Laboratory Mixing Extruder (LME): crystallization, thermal stability and dynamic mechanical properties. Journal of Polymer Research, 2014, 21, 1.	2.4	18
56	Impact of intrinsic properties of foulants on membrane performance in osmotic desalination applications. Separation and Purification Technology, 2014, 123, 87-95.	7.9	13
57	Kinetic model-based feed-forward controlled fed-batch fermentation of Lactobacillus rhamnosus for the production of lactic acid from Arabic date juice. Bioprocess and Biosystems Engineering, 2014, 37, 1007-1015.	3.4	22
58	Efficient solvent regeneration of Basolite C300 used in the liquid-phase adsorption of dibenzothiophene. Fuel, 2013, 113, 216-220.	6.4	18
59	Improvements in barrier properties of poly(ethylene terephthalate) films using commercially available high barrier masterbatch additives via melt blend technique. Journal of Plastic Film and Sheeting, 2013, 29, 21-38.	2.2	4
60	Cd1â^'xZnxS supported on SBA-16 as photocatalysts for water splitting under visible light: Influence of Zn concentration. International Journal of Hydrogen Energy, 2013, 38, 11799-11810.	7.1	21
61	Effect of Sr loading on oxydehydrogenation of propane to propylene over Al2O3-supported V-Mo catalysts. Journal of Energy Chemistry, 2013, 22, 778-782.	12.9	9
62	Thermal regeneration of the metal organic frameworks used in the adsorption of refractory organosulfur compounds from liquid fuels. Fuel, 2013, 105, 459-465.	6.4	23
63	Used lubricating oil regeneration by various solvent extraction techniques. Journal of Industrial and Engineering Chemistry, 2013, 19, 536-539.	5.8	66
64	Developments in Shape Memory Polymeric Materials. Polymer-Plastics Technology and Engineering, 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. Journal of Polymer Research, 2013, 20, 1.	2.4	35
66	<i>In Vitro</i> Biodegradability of Poly(lactic Acid)/Hydroxyapatite Biocomposites Prepared by Solvent-Blending Technique. Advanced Materials Research, 2012, 626, 631-635.	0.3	4
67	Combined organic–inorganic fouling of forward osmosis hollow fiber membranes. Water Research, 2012, 46, 6329-6338.	11.3	83
68	Effects of scaling and cleaning on the performance of forward osmosis hollow fiber membranes. Journal of Membrane Science, 2012, 415-416, 101-108.	8.2	54
69	Cd1â ^{°°} xZnxS solid solutions supported on ordered mesoporous silica (SBA-15): Structural features and photocatalytic activity under visible light. International Journal of Hydrogen Energy, 2012, 37, 9948-9958.	7.1	34
70	Kinetics of oxidehydrogenation of propane over alumina-supported Sr–V–Mo catalysts. Catalysis Communications, 2012, 26, 98-102.	3.3	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. Journal of Electroanalytical Chemistry, 2012, 664, 26-32.	3.8	55
72	The Influences of Elastomer toward Crystallization of Poly(lactic acid). Procedia Chemistry, 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.	2.1	44
74	Treatment of acidic palm oil for fatty acid methyl esters production. Chemical Papers, 2012, 66, .	2.2	10
75	Crystallization behavior of poly(lactic acid)/elastomer blends. Journal of Polymer Research, 2012, 19, 1.	2.4	22
76	Atomic Force Microscopy, thermal, viscoelastic and mechanical properties of HDPE/CaCO3 nanocomposites. Journal of Polymer Research, 2012, 19, 1.	2.4	36
77	Nanoindentation and dynamic mechanical properties of PP/clay nanocomposites. Journal of Polymer Research, 2012, 19, 1.	2.4	25
78	Diesel fuel reforming over catalysts derived from LaCo1â^'xRuxO3 perovskites with high Ru loading. International Journal of Hydrogen Energy, 2012, 37, 7056-7066.	7.1	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.	4.9	25
80	Oxidehydrogenation of propane to propylene over Sr–V–Mo catalysts: Effects of reaction temperature and space time. Journal of Industrial and Engineering Chemistry, 2012, 18, 1153-1156.	5.8	13
81	Thermotropic poly(azomethine-urethane)s with non linear optical properties: Synthesis and characterization. Polymer Science - Series B, 2012, 54, 342-348.	0.8	6
82	A REVIEW OF THE APPLICATIONS OF NANOCARBON POLYMER COMPOSITES. Nano, 2011, 06, 185-203.	1.0	79
83	Oxidative dehydrogenation of propane to propylene over Al2O3-supported Sr–V–Mo catalysts. Catalysis Communications, 2011, 14, 107-110.	3.3	17
84	Hydrogen production by reforming of diesel fuel over catalysts derived from LaCo1â^'xRuxO3 perovskites: Effect of the partial substitution of Co by Ru (x=0.01–0.1). Journal of Power Sources, 2011, 196, 9087-9095.	7.8	22
85	Ethanesulfonic acid-based esterification of industrial acidic crude palm oil for biodiesel production. Bioresource Technology, 2011, 102, 9564-9570.	9.6	37
86	Catalysts for Hydrogen Production from Heavy Hydrocarbons. ChemCatChem, 2011, 3, 440-457.	3.7	58
87	Viscoelastic, thermal, and morphological analysis of HDPE/EVA/CaCO3 ternary blends. Polymer Bulletin, 2011, 67, 1961-1978.	3.3	27
88	Oxidative reforming of diesel fuel over LaCoO3 perovskite derived catalysts: Influence of perovskite synthesis method on catalyst properties and performance. Applied Catalysis B: Environmental, 2011, 105, 276-288.	20.2	93
89	An Oxygenâ€Deficient Perovskite as Selective Catalyst in the Oxidation of Alkyl Benzenes. Angewandte Chemie - International Edition, 2011, 50, 6557-6561.	13.8	51
90	An efficient oxidation of benzylic and alicylic compounds with water-soluble copper catalysts in t-butyl hydroperoxide at room temperature. Chinese Chemical Letters, 2011, 22, 691-693.	9.0	6

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91	Comparative study of internal batch mixer such as cam, banbury and roller: Numerical simulation and experimental verification. Chemical Engineering Science, 2011, 66, 2502-2511.	3.8	38
92	Effectiveness of metal–organic frameworks for removal of refractory organo-sulfur compound present in liquid fuels. Fuel, 2011, 90, 190-197.	6.4	124
93	High density polyethylene/micro calcium carbonate composites: A study of the morphological, thermal, and viscoelastic properties. Journal of Applied Polymer Science, 2010, 117, 2413-2421.	2.6	61
94	A Direct Process for the Production of High Fructose Syrups from Dates Extracts. International Journal of Food Engineering, 2010, 6, .	1.5	2
95	Liquid-phase oxidation of p-xylene using N-hydroxyimides. Catalysis Communications, 2010, 12, 5-8.	3.3	25
96	A framework for visible-light water splitting. Energy and Environmental Science, 2010, 3, 1865.	30.8	181
97	Photocatalytic Hydrogen Production on Cd _{1â^'<i>x</i>} Zn _{<i>x</i>} S Solid Solutions under Visible Light: Influence of Thermal Treatment. Industrial & Engineering Chemistry Research, 2010, 49, 6854-6861.	3.7	45
98	Large-scale synthesis of porous magnetic composites for catalytic applications. Studies in Surface Science and Catalysis, 2010, , 347-350.	1.5	1
99	Performances of new Kieselguhr-supported transition metal oxide catalysts in propane oxydehydrogenation. Catalysis Communications, 2006, 7, 79-85.	3.3	15
100	Low temperature transalkylation of o-diethylbenzene with benzene to ethylbenzene using triflic acid as a catalyst. Chemical Engineering and Processing: Process Intensification, 2005, 44, 841-846.	3.6	12
101	Oxidative dehydrogenation of isobutane on chromium oxide-based catalyst. Chemical Engineering and Processing: Process Intensification, 2005, 44, 835-840.	3.6	21
102	Propane oxidative dehydrogenation on Cs-doped Cr-Mo-Al-O catalyst: kinetics and mechanism. Chemical Engineering Journal, 2004, 103, 59-67.	12.7	15
103	Isobutane oxydehydrogenation on Al2O3-supported transition and rare-earth metal oxides. Journal of Molecular Catalysis A, 2004, 218, 179-186.	4.8	17
104	Title is missing!. Catalysis Letters, 2003, 87, 121-132.	2.6	14
105	Activities of Î ³ -Al2O3-Supported Metal Oxide Catalysts in Propane Oxidative Dehydrogenation. Catalysis Letters, 2003, 85, 57-67.	2.6	14
106	Alumina-supported chromium-based mixed-oxide catalysts in oxidative dehydrogenation of isobutane to isobutene. Chemical Engineering and Processing: Process Intensification, 2003, 42, 817-823.	3.6	25
107	Catalytic cracking of gas oils in electromagnetic fields: reactor design and performance. Fuel Processing Technology, 2003, 80, 169-182.	7.2	34
108	Selection of optimum chromium oxide-based catalysts for propane oxidehydrogenation. Catalysis Today, 2003, 81, 507-516.	4.4	28

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109	Oxidative dehydrogenation of propane over supported chromium–molybdenum oxides catalysts. Catalysis Communications, 2003, 4, 579-584.	3.3	25
110	Transalkylation and isomerization of ortho-diethylbenzene with benzene using trifluoromethanesulphonic acid catalyst: kinetic analysis. Chemical Engineering and Processing: Process Intensification, 2002, 41, 321-327.	3.6	10
111	A method of predicting effective solvent extraction parameters for recycling of used lubricating oils. Chemical Engineering and Processing: Process Intensification, 2002, 41, 765-769.	3.6	52
112	Title is missing!. Catalysis Letters, 2002, 78, 331-337.	2.6	2
113	Catalytic Performance of Chromium Oxide Supported on Al2O3in Oxidative Dehydrogenation of Isobutane to Isobutene. Industrial & Engineering Chemistry Research, 2001, 40, 781-784.	3.7	45
114	Keggin-type polyoxotungstate as a catalyst in oxidative dehydrogenation of propane. Journal of Molecular Catalysis A, 2001, 175, 259-265.	4.8	9
115	Low temperature hydrocracking of n-heptane over Ni-supported catalysts: study of global kinetics. Applied Catalysis A: General, 2001, 219, 131-140.	4.3	13
116	Modelling and simulation of 1,2-dichloroethane production by ethylene oxychlorination in fluidized-bed reactor. Chemical Engineering Science, 2001, 56, 621-626.	3.8	10
117	Propane Oxidative Dehydrogenation over Metal Pyrophosphates Catalysts. Catalysis Letters, 2001, 74, 145-148.	2.6	15
118	Oxidative dehydrogenation of isobutane over pyrophosphates catalytic systems. Catalysis Letters, 2000, 69, 65-70.	2.6	33
119	Propane Oxidative Dehydrogenation over Alumina-Supported Metal Oxides. Industrial & Engineering Chemistry Research, 2000, 39, 4070-4074.	3.7	20
120	Utilization of Polyethylene and Paraffin Waxes as Controlled Delivery Systems for Different Fertilizers. Industrial & Engineering Chemistry Research, 2000, 39, 367-371.	3.7	96
121	Controlled-release of fertilizers: modelling and simulation. International Journal of Engineering Science, 1999, 37, 1299-1307.	5.0	67
122	A general model for the viscosity of waxy oils. Chemical Engineering and Processing: Process Intensification, 1998, 37, 433-437.	3.6	46
123	Optimization and Control of Industrial Gas-Phase Ethylene Polymerization Reactors. Industrial & Engineering Chemistry Research, 1998, 37, 3414-3423.	3.7	25
124	A generalized rheological model for shear thinning fluids. Journal of Petroleum Science and Engineering, 1997, 17, 211-215.	4.2	49
125	The effects of gas composition and process conditions on the oxidative coupling of methane over Li/MgO catalyst. Studies in Surface Science and Catalysis, 1996, , 383-396.	1.5	2
126	Effects of carbon dioxide during oxidative coupling of methane over lithium/magnesia: mechanisms and models. Industrial & Engineering Chemistry Research, 1994, 33, 251-258.	3.7	23