

# Omar S Dahham

## List of Publications by Year in descending order

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111  
papers

666  
citations

623734

14  
h-index

677142

22  
g-index

111  
all docs

111  
docs citations

111  
times ranked

315  
citing authors

#	ARTICLE	IF	CITATIONS
1	A structural study of epoxidized natural rubber (ENR $\approx$ 50) ring opening under mild acidic condition. Journal of Applied Polymer Science, 2016, 133, .	2.6	50
2	Synthesis and structural studies of an epoxidized natural rubber/titania (ENR-50/TiO <sub>2</sub> ) hybrid under mild acid conditions. Polymer Testing, 2018, 65, 10-20.	4.8	47
3	NMR study of ring opening reaction of epoxidized natural rubber in presence of potassium hydroxide/isopropanol solution. Polymer Testing, 2017, 59, 55-66.	4.8	44
4	Zinc Oxide Nano Particles Integrated Kenaf/Unsaturated Polyester BioComposite. Journal of Renewable Materials, 2019, 7, 967-982.	2.2	40
5	Insight on the structural aspect of ENR-50/TiO <sub>2</sub> hybrid in KOH/C <sub>3</sub> H <sub>8</sub> O medium revealed by NMR spectroscopy. Arabian Journal of Chemistry, 2020, 13, 2400-2413.	4.9	36
6	The Weathering Effect in Natural Environment on KenafBast Filled Unsaturated Polyester Composite and Integration of Nano Zinc particle for Water Repellent. Micro and Nanosystems, 2017, 9, .	0.6	34
7	Characterization and properties of low-linear-density polyethylene/Typha latifoliacomposites. International Journal of Polymer Analysis and Characterization, 2016, 21, 590-598.	1.9	32
8	Studies on Tensile Properties of Compatibilized and Uncompatibilized Low-Density Polyethylene/Jackfruit Seed Flour (LDPE/JFSF) Blends at Different JFSF Content. Solid State Phenomena, 0, 264, 120-123.	0.3	29
9	Thermal properties of ethyl vinyl acetate (EVA)/montmorillonite (MMT) nanocomposites for biomedical applications. MATEC Web of Conferences, 2016, 78, 01074.	0.2	28
10	The Influences NaOH Treatment on Polypropylene/<i>Cyperus Odoratus</i> (PP/CY) Composites: Tensile and Morphology. Journal of Physics: Conference Series, 2018, 1019, 012057.	0.4	27
11	Slow Release Material from Epoxidized Natural Rubber and Rice Husk Composites for Agriculture Applications. Journal of Physics: Conference Series, 2018, 1019, 012063.	0.4	24
12	The influence of Rice Husk Fiber on The Properties of Epoxidized Natural Rubber/Rice Husk Compounds. MATEC Web of Conferences, 2016, 78, 01075.	0.2	21
13	Chemical and Hydrophobic Properties of PLA/HNTs-ZrO <sub>2</sub> Bionanocomposites. Journal of Physics: Conference Series, 2018, 1019, 012065.	0.4	21
14	Fabrication and characterization of zinc oxide nanoparticle-treated kenaf polymer composites for weather resistance based on a solar UV radiation. BioResources, 2018, 13, 6480-6496.	1.0	21
15	Robust interface on ENR-50/TiO <sub>2</sub> nanohybrid material based sol-gel technique: Insights into synthesis, characterization and applications in optical. Arabian Journal of Chemistry, 2020, 13, 6568-6579.	4.9	18
16	Effect of alkaline treatment on mechanical properties of HDPE/PKS composites. AIP Conference Proceedings, 2018, , .	0.4	17
17	The Effects of Trans- Polyoctylene Rubber (TOR) as a Compatibilizer on The Properties of Epoxidized Natural Rubber/Recycled Silicone Catheter (ENR-25/rSC) Vulcanizate. MATEC Web of Conferences, 2016, 78, 01076.	0.2	16
18	PID Temperature Control of Demineralized Water Tank. IOP Conference Series: Materials Science and Engineering, 0, 454, 012031.	0.6	9

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19	The Effects of Tensile Properties of PLA/HNTs-ZrO <sub>2</sub> Bionanocomposites. Journal of Physics: Conference Series, 2018, 1019, 012066.	0.4	9
20	Characterization of quicklime as raw material to hydrated lime: Effect of temperature on its characteristics. AIP Conference Proceedings, 2018, , .	0.4	9
21	Thermal properties of PLA/HNTs composites: Effect of different halloysite nanotube. AIP Conference Proceedings, 2018, , .	0.4	8
22	&lt;i>In Vitro</i> Mechanical Properties of Metallocene Linear Low Density Polyethylene (mLLDPE) Nanocomposites Incorporating Montmorillonite (MMT). Applied Mechanics and Materials, 0, 754-755, 24-28.	0.2	7
23	An Introduction to Thermal Bridge Assessment and Mould Risk at Dampness Surface for Heritage Building. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012185.	0.6	7
24	Physical properties of plasticized PLA/HNTs bionanocomposites: effects of plasticizer type and content. IOP Conference Series: Materials Science and Engineering, 2019, 557, 012067.	0.6	7
25	Effect of chemical treatment on mechanical and physical properties of non-woven kenaf fiber mat reinforced polypropylene biocomposites. , 2020, , .		6
26	Calculation of the band structure parameter in silicon nanowires using first principle analytical method. AIP Conference Proceedings, 2017, , .	0.4	5
27	The Effects of Wood Sawdust Loading on Tensile and Physical Properties of Up/Pf/Wsd Composites. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012193.	0.6	5
28	The Influences of Zirconium Dioxide on ENR-25/ZrO <sub>2</sub> Composites: FTIR and TGA Analysis. Journal of Physics: Conference Series, 2018, 1019, 012055.	0.4	5
29	Cure Characteristics, Tensile and Physical Properties of Recycled Natural Rubber Latex Glove (NRL-G) Filled Acrylonitrile Butadiene Rubber. Applied Mechanics and Materials, 2015, 754-755, 693-697.	0.2	4
30	Studies on characteristic of glycerol-kenaf pellet via fluidization drying process toward energy produced. AIP Conference Proceedings, 2020, , .	0.4	4
31	Copper alloy reinforced by graphene by powder metallurgy technique. AIP Conference Proceedings, 2020, , .	0.4	4
32	Physical and Barrier Properties of Polylactic Acid/Halloysite Nanotubes-Titanium Dioxide Nanocomposites. Materials Science Forum, 0, 1021, 280-289.	0.3	4
33	Tensile and Physical Properties of Unsaturated Polyester/Potash Feldspar Composites: The Effect of Potash Feldspar Loading. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012192.	0.6	3
34	Preparation, characterization and application of alumina nanoparticles with multiple active component for oxidation desulfurization. AIP Conference Proceedings, 2018, , .	0.4	3
35	Recycled Natural Rubber Latex Gloves Filled Chloroprene Rubber: Effects of Compatibilizers. Journal of Physics: Conference Series, 2018, 1019, 012067.	0.4	3
36	Lattices parameter dependent on effective atomic interactive coefficient in nanostructure. AIP Conference Proceedings, 2017, , .	0.4	2

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37	Influence of weathering effect in natural environment on thermal properties hybrid kenaf blast/glass fibre and unsaturated polyester composite. Journal of Physics: Conference Series, 2017, 908, 012004.	0.4	2
38	Synthesis of zinc oxide thin films prepared by sol-gel for specific bioactivity. AIP Conference Proceedings, 2017, , .	0.4	2
39	Synthesis, Characterization, and Study of Antibacterial Activity of Some New Formazan Dyes Derivatives, Derived from 2-Mercapto Benzoxazole. IOP Conference Series: Materials Science and Engineering, 0, 454, 012015.	0.6	2
40	Effects of Sodium Hydroxide Treatment on LLDPE/DS Composites: Tensile Properties and Morphology. Journal of Physics: Conference Series, 2018, 1019, 012061.	0.4	2
41	Green Curb - An Alternative Method to Produce Road Curb Using Old Tire. IOP Conference Series: Materials Science and Engineering, 0, 454, 012187.	0.6	2
42	Amino-propyltriethoxysilane Modified Heavy Metal Sensor Based on Silicon Nanowire Arrays. IOP Conference Series: Materials Science and Engineering, 0, 454, 012080.	0.6	2
43	Common Defect of Colonial Buildings in Malaysia. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012186.	0.6	2
44	Design, Fabrication and Characterization of silicon Nanostructures for Lead (Pb+) ion detection. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012181.	0.6	2
45	The Effects Of Phthalic Anhydride On R-Hdpe / Eva / Cff Composites: Tensile And Physical Properties. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012191.	0.6	2
46	Effects of Date Seeds Size and Loading on Properties of Linear Low-Density Polyethylene/Date Seeds Powder Composites. Journal of Physics: Conference Series, 2018, 1019, 012060.	0.4	2
47	Effect of kenaf fibre Mat layers and Zinc Oxide Nanoparticle Concentration on the Mechanical and Thermal Properties of ZnONPs/kenaf/polyester Composites. IOP Conference Series: Materials Science and Engineering, 0, 454, 012079.	0.6	2
48	Studies of ENR-25/TiO <sub>2</sub> Composites for Electronic Materials Packaging Applications. Journal of Physics: Conference Series, 2018, 1019, 012054.	0.4	2
49	The Effects of Different Rice Husk Loading and Size on The Properties of Standard Malaysian Rubber / Rice Husk Composites. Journal of Physics: Conference Series, 2018, 1019, 012091.	0.4	2
50	Modification of Polylactic Acid/ Halloysite Bionanocomposites Using Electron Beam Radiation: Physical, Barrier and Thermal Properties. Materials Science Forum, 0, 1002, 57-65.	0.3	2
51	Characterization and coagulation performance of poly ferric silicate sulfate from rice husk ash. AIP Conference Proceedings, 2020, , .	0.4	2
52	Impact strength of LDPE/RH composites for industrial injection moulded parts. AIP Conference Proceedings, 2020, , .	0.4	2
53	Determination of moisture content on kenaf via fluidization systems. AIP Conference Proceedings, 2020, , .	0.4	2
54	Flexural properties of rice husk (Oryza sativa) reinforced low density polyethylene composites for industrial injection moulded parts. AIP Conference Proceedings, 2020, , .	0.4	2

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55	Polylactic Acid/Halloysite Nanotubes-Titanium Dioxide Nanocomposites: Antibacterial and Mechanical Properties. <i>Materials Science Forum</i> , 0, 1021, 270-279.	0.3	2
56	The Effects of Trans-Polyoctylene Rubber (TOR) on the Properties of Acrylonitrile Butadiene Rubber/Recycled Natural Latex Gloves (NBR/NRL-G) Compounds. <i>Applied Mechanics and Materials</i> , 2015, 815, 59-63.	0.2	1
57	The weathering effect in natural environment on kenaf blast and unsaturated polyester composite. <i>Journal of Physics: Conference Series</i> , 2017, 908, 012003.	0.4	1
58	Cure Characteristics and Physical Properties of SMR L/EPDM Blends: Effects of Blend Ratios. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 454, 012188.	0.6	1
59	Effect of Kenaf Fibre Layers on Mechanical and Thermal Properties of Kenaf/Unsaturated Polyester Composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 454, 012091.	0.6	1
60	The Influences of Chicken Feather Loading on Tensile and Physical Properties of R-Hdpe/Eva/Cff Composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 454, 012190.	0.6	1
61	Mechanical and physical properties of HDPE/PKS composites: Effects of filler content and size of PKS fillers. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
62	Functionalization of Si Nanowire Surfaces to Create Interactive Mechanism for Heavy Metals Detection Application. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 454, 012180.	0.6	1
63	The Effect of Cyperus Odoratus Size and Loading on the Properties of Polypropylene/Cyperus Odoratus (PP/CY) Composites. <i>Journal of Physics: Conference Series</i> , 2018, 1019, 012056.	0.4	1
64	Use of Struktol as a compatibilizer for SMR L/EPDM blends: Cure characteristics and physical properties. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
65	Effect of micro-silica fume and fly ash as a partial replacement of cement on fresh and early strength properties of concrete. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
66	A slow release fertilizer from urea and rice straw coated by ENR-50 for agricultural application. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
67	The challenges in conservation practices in Malaysia: A study in UNESCO heritage site, Georgetown, Penang, Malaysia. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
68	Identification of timber material defect using VIA on selected traditional Malay house: Case study on Tuan Hj Hashim Itam (Kerani) historical house at Penang, Malaysia. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
69	Flexural and morphology properties of rHDPE/BF composites: Effect of surface modification of bamboo filler by NaOH treatment. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
70	The effects of ionic liquid (ILs) as additive on recycled high-density polyethylene reinforced bamboo filler composites. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
71	The effectiveness of highway information modeling in Kuala Perlis - Changlun Roadway. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
72	Tensile and Morphology Properties of PLA/MMT-TiO <sub>2</sub> Bionanocomposites. <i>Defect and Diffusion Forum</i> , 2020, 398, 131-135.	0.4	1

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73	PLA/MMT-TiO <sub>2</sub> Bionanocomposites: Chemical Structure and Surface Wettability. Defect and Diffusion Forum, 2020, 398, 136-139.	0.4	1
74	Flexural and impact properties of rHDPE/BF composites in presence of ionic liquid (ILs). AIP Conference Proceedings, 2020, , .	0.4	1
75	Lab-on-chip components for molecular detection. AIP Conference Proceedings, 2017, , .	0.4	0
76	Drug carrier in cancer therapy: A simulation study based on magnetic carrier substances. AIP Conference Proceedings, 2017, , .	0.4	0
77	Fabrication of microfluidic integrated biosensor. AIP Conference Proceedings, 2017, , .	0.4	0
78	Curing characteristics tensile and physical properties of rice straw filled standard Malaysian rubber. Journal of Physics: Conference Series, 2017, 908, 012071.	0.4	0
79	Recycled Natural Rubber Latex Gloves Filled CR Rubber: The Effects of Filler Size and loading. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012189.	0.6	0
80	Sawdust Flour Reinforced Epoxidized Natural Rubber: Effect Of Trans-Polyoctylene Rubber on Curing Characteristics and Tensile Properties. Journal of Physics: Conference Series, 2018, 1019, 012090.	0.4	0
81	Modelling Simulation of Organic and Inorganic Interaction Based on First Principle Calculation. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012090.	0.6	0
82	Arsenic ion Detection via Electron Chemical Reaction Mechanism Based on Interdigitated Electrode (IDE). IOP Conference Series: Materials Science and Engineering, 2018, 454, 012183.	0.6	0
83	Modification of halloysite filler with phosphonium based deep eutectic solvents for PLA/HNTs composites. AIP Conference Proceedings, 2018, , .	0.4	0
84	Mercaptopropyltriethoxysilane (MPTES) Concentration Effect on Selectivity and Electrical Response of Nanostructure. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012184.	0.6	0
85	The effects of different content and size of date seeds filler on thermal properties of LLDPE/date seeds (DS) composites. AIP Conference Proceedings, 2018, , .	0.4	0
86	Study of fillers treatment using NaOH on the thermal properties of LLDPE/date seeds (DS) composites. AIP Conference Proceedings, 2018, , .	0.4	0
87	Study of gas holdup for bubble column at three phases. AIP Conference Proceedings, 2018, , .	0.4	0
88	The Effect of Epoxidized Natural Rubber as A Compatibilizer on the Properties of Standard Malaysian Rubber/Ethylene Propylene Diene Monomer Blends. Journal of Physics: Conference Series, 2018, 1019, 012068.	0.4	0
89	The Effects of SMR L Content on the Properties of ENR-25 / RSC Compounds. Journal of Physics: Conference Series, 2018, 1019, 012058.	0.4	0
90	New Slow Release Fertilizer from ENR-50/RH/Urea Composites: Effect of Sodium Chloride Concentration. Journal of Physics: Conference Series, 2018, 1019, 012062.	0.4	0

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91	The effects of different bamboo filler loading on HDPE/BF composites and rHDPE/BF composites: Flexural and morphology. AIP Conference Proceedings, 2020, , .	0.4	0
92	Tailoring Polylactic Acid Properties for Packaging Applications: Effects of Coâ€Addition of Halloysite Nanotubes and Selected Plasticizers. Materials Science Forum, 0, 1002, 47-56.	0.3	0
93	UV-visible performance of urea beads coated with banana peels bioplastic and epoxidized natural rubber. AIP Conference Proceedings, 2020, , .	0.4	0
94	Preparation coated of urea beads from banana peel bioplastic and epoxidized natural rubber 50. AIP Conference Proceedings, 2020, , .	0.4	0
95	The influences of soil burial assessment on linear low-density polyethylene/Cyperus odoratus biocomposite. AIP Conference Proceedings, 2020, , .	0.4	0
96	The effects of electron beam irradiation on LLDPE/CY biocomposites: Tensile and morphology properties. AIP Conference Proceedings, 2020, , .	0.4	0
97	The sustainability of recycled concrete as green material solution. AIP Conference Proceedings, 2020, , .	0.4	0
98	Effects of sodium hydroxide treatment on date seeds reinforced LLDPE composites: FTIR and gel content analyses. AIP Conference Proceedings, 2020, , .	0.4	0
99	Mechanical and physical properties of non-woven kenaf fibre mat reinforced polypropylene composites prepared by compression molding. , 2020, , .		0
100	Bioprotein optimization from spent mushroom substrate for fish feed application. AIP Conference Proceedings, 2020, , .	0.4	0
101	Surface modification of bamboo filler by acid treatment on flexural and morphology rHDPE/BF composites. AIP Conference Proceedings, 2020, , .	0.4	0
102	Current method on spalling repair work in ages building. AIP Conference Proceedings, 2020, , .	0.4	0
103	The effects on different date seeds loading and size of LLDPE/Date seeds composites: Flexural properties and impact strength. AIP Conference Proceedings, 2020, , .	0.4	0
104	FTIR and gel content analyses of LLDPE/Date seeds composites. AIP Conference Proceedings, 2020, , .	0.4	0
105	Dielectric properties of Nephelium Lappaceum tropical wood. AIP Conference Proceedings, 2020, , .	0.4	0
106	Mechanical properties of rice husk (Oryza sativa) reinforced low density polyethylene composites for industrial injection moulded parts. , 2020, , .		0
107	The influence of trans-polyoctylene rubber on the linear low-density polyethylene/acrylonitrile butadiene rubber/kenaf composites. AIP Conference Proceedings, 2020, , .	0.4	0
108	The study of monosodium glutamate application as a cross linker in tissue scaffold application. AIP Conference Proceedings, 2020, , .	0.4	0

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109	The influence of alkali treatment on date seeds powder reinforced LLDPE composites: Flexural properties and impact strength. AIP Conference Proceedings, 2020, , .	0.4	0
110	Application of coal bottom ash as raw material for concrete brick in housing construction. AIP Conference Proceedings, 2020, , .	0.4	0
111	The effect of titanium dioxide to enhance physical properties of coconut shell reinforced unsaturated polyester composites. AIP Conference Proceedings, 2020, , .	0.4	0