

# Zulkifli Ahmad

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2306737/publications.pdf>

Version: 2024-02-01

99  
papers

2,792  
citations

331259

21  
h-index

189595

50  
g-index

101  
all docs

101  
docs citations

101  
times ranked

3887  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plastics in Waveguide Application. , 2022, , 295-315.		2
2	Alignment of silver nanoparticles in polysiloxane crosslink network under direct electric field. Composites Science and Technology, 2021, 203, 108611.	3.8	10
3	Surface roughness effect on optical loss in waveguide using isotropically induced crosslink network of siloxane-polyimide copolymer. Journal of Applied Polymer Science, 2020, 137, 49554.	1.3	5
4	Stretchable Conductive Ink Based on Polysiloxane-Silver Composite and Its Application as a Frequency Reconfigurable Patch Antenna for Wearable Electronics. ACS Applied Materials & Interfaces, 2019, 11, 28033-28042.	4.0	33
5	Crosslink network and phenyl content on the optical, hardness, and thermal aging of PDMS LED encapsulant. Journal of Applied Polymer Science, 2019, 136, 47895.	1.3	11
6	Hybrid Intelligent Modelling of the Viscoelastic Moduli of Coal Fly Ash Based Polymer Gel System for Water Shutoff Treatment in Oil and Gas Wells. Canadian Journal of Chemical Engineering, 2019, 97, 2969-2978.	0.9	20
7	Synthesis of Siloxane-polyimide Copolymer with Low Birefringence and Low Loss for Optical Waveguide. Journal of Physical Science, 2019, 30, 103-113.	0.5	2
8	Thermal and Lithographic Performance of Silsesquioxane with Cycloaliphatic Epoxy-Siloxane Hybrid Spacer for Soft Lithography. Macromolecular Materials and Engineering, 2018, 303, 1700371.	1.7	1
9	Synthesis and functionalization of chitosan built hydrogel with induced hydrophilicity for extended release of sparingly soluble drugs. Journal of Biomaterials Science, Polymer Edition, 2018, 29, 376-396.	1.9	18
10	Synthesis and thermo-chemical stability properties of 4,4'-((1,3,5-triazine-2,4,6-triyl)tris(oxy))trianiline/4,4'-((4-isopropylidene-diphenoxy)bis(phthalic) Tj ITC Q0 0 OrgBT /Over	1.6	4
11	Synthesis and evaluation on pH- and temperature-responsive chitosan-p(MAA-co-NIPAM) hydrogels. International Journal of Biological Macromolecules, 2018, 108, 367-375.	3.6	58
12	Star-shaped self-assembled micelles of block copolymer [chitosan-co-poly(ethylene glycol) methyl ether methacrylate] hydrogel for hydrophobic drug delivery. Polymer Bulletin, 2018, 75, 2243-2264.	1.7	6
13	Effect of chitosan concentration on the properties of PLA/Î²-TCP scaffold produced by combination of solvent casting and salt leaching techniques. Journal of Physics: Conference Series, 2018, 1082, 012073.	0.3	1
14	Interphase volume calculation of polyimide/TiO2 nanofibers nanocomposite based on dielectric constant model and its effect on glass transition. Journal of Materials Science: Materials in Electronics, 2018, 29, 20742-20749.	1.1	7
15	Implementation Polydimethylsiloxane based Stretchable conductive ink (SCI) for printable-stretchable electronic devices towards heterogeneous integration system. , 2018, , .		1
16	Synthesis and physicochemical investigation of chitosan-built hydrogel with induced glucose sensitivity. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 824-834.	1.8	11
17	Performance of fly ash based polymer gels for water reduction in enhanced oil recovery: Gelation kinetics and dynamic rheological studies. Korean Journal of Chemical Engineering, 2017, 34, 1638-1650.	1.2	22
18	Improvement of thermal ageing and transparency of methacrylate based poly(siloxane-silsesquioxane) for optoelectronic application. Journal of Applied Polymer Science, 2017, 134, 45285.	1.3	12

#	ARTICLE	IF	CITATIONS
19	Fabrication of PEDOT:PSS/Graphene Conductive Ink Printed on Flexible Substrate. Solid State Phenomena, 2017, 264, 70-73.	0.3	3
20	The effect of pre- and post-electron beam irradiation on the properties of NR/rCR blends. AIP Conference Proceedings, 2017, , .	0.3	1
21	Modeling the thermal behavior of coal fly ash based polymer gel system for water reduction in oil and gas wells. Journal of Petroleum Science and Engineering, 2017, 157, 430-440.	2.1	21
22	Processibility and Thermo-Mechanical Properties of Epoxy as Reactive Plasticizer of Polyetherimide. Solid State Phenomena, 2017, 264, 228-231.	0.3	0
23	Analysis of an Olympic Scale of a Recurve Bow Riser on the Basis of Malaysian Under 15 and Under 17 Archers. Advances in Intelligent Systems and Computing, 2017, , 131-140.	0.5	0
24	Development of the Wireless Goniometer in Measuring Range of Motion for Lower Extremities. Advanced Science Letters, 2017, 23, 5107-5111.	0.2	0
25	Linear low-density polyethylene-poly(acrylic acid)/(organo-montmorillonite) hydrogel composite as hydrogel electrolytes for zinc-carbon batteries. Journal of Vinyl and Additive Technology, 2016, 22, 279-284.	1.8	4
26	Synthesis and fidelity study of ultraviolet-curable hydrogen silsesquioxane analogue as an elastomeric stamp. RSC Advances, 2016, 6, 81364-81371.	1.7	1
27	Functional properties of chitosan built nanohydrogel with enhanced glucose-sensitivity. International Journal of Biological Macromolecules, 2016, 83, 376-384.	3.6	17
28	Influence of Silanized-Silica and Carbon Black on the Cure and Mechanical Properties of Natural Rubber/Recycled Chloroprene Rubber (NR/rCR) Blends. Advanced Materials Research, 2016, 1133, 191-195.	0.3	1
29	Kinetic investigation and lifetime prediction of Cs-NIPAM-MBA-based thermo-responsive hydrogels. Carbohydrate Polymers, 2016, 136, 1182-1193.	5.1	15
30	Synthesis of carbazole-substituted poly(dimethylsiloxane) and its improved refractive index. Journal of Applied Polymer Science, 2015, 132, .	1.3	3
31	Effect of Curing Temperature on Degree Imidization of Melamine-BPADA Hyperbranched Polyimide Studied by FT-IR. Applied Mechanics and Materials, 2015, 754-755, 251-255.	0.2	1
32	The Development of Macroporous PEG-Based Hydrogel Scaffolds for Tissue Engineering Applications. Materials Science Forum, 2015, 819, 361-366.	0.3	0
33	Thermal properties and kinetic investigation of chitosan-PMAA based dual-responsive hydrogels. Industrial Crops and Products, 2015, 66, 178-187.	2.5	25
34	Classification, processing and application of hydrogels: A review. Materials Science and Engineering C, 2015, 57, 414-433.	3.8	1,022
35	The effects of the SiOSi segment presence in BAPP/BPDA polyimide system on morphology and hardness properties for opto-electronic application. Materials and Design, 2015, 82, 98-105.	3.3	19
36	Synthesis, characterisation and thermal properties of hyperbranched polyimide derived from melamine via emulsion polymerisation. Journal of Thermal Analysis and Calorimetry, 2015, 120, 1785-1798.	2.0	14

#	ARTICLE	IF	CITATIONS
37	Thermal degradation behavior of a flame retardant melamine derivative hyperbranched polyimide with different terminal groups. RSC Advances, 2015, 5, 92664-92676.	1.7	12
38	Synthesis of linear low-density polyethylene-g-poly (acrylic acid)-co-starch/organo-montmorillonite hydrogel composite as an adsorbent for removal of Pb(II) from aqueous solutions. Journal of Environmental Sciences, 2015, 27, 9-20.	3.2	78
39	Synthesis and Thermal Stability of Crosslinked Carbazole-Substituted Poly(Dimethylsiloxane) for Led Encapsulation. Polymers and Polymer Composites, 2014, 22, 625-632.	1.0	3
40	Hydrogel composites based on linear low-density polyethylene-g-poly (acrylic acid)/Kaolin or halloysite nanotubes. Journal of Applied Polymer Science, 2014, 131, .	1.3	19
41	Effect of chronic obstructive pulmonary disease on airflow motion using computational fluid dynamics analysis. , 2014, , .		4
42	Interpenetrating polymer network structured thermosets prepared from epoxidized soybean oil/diglycidyl ether of bisphenol A. Polymer International, 2014, 63, 273-279.	1.6	32
43	Biomechanics Measurements in Archery. Journal of Mechanical Engineering and Sciences, 2014, 6, 762-771.	0.3	16
44	Fatigue and hysteresis behavior of halloysite nanotubes-filled natural rubber (SMR L and ENR 50) nanocomposites. Journal of Applied Polymer Science, 2013, 127, 3047-3052.	1.3	13
45	Utilization of waste polystyrene and starch for superabsorbent composite preparation. Journal of Applied Polymer Science, 2013, 127, 4195-4202.	1.3	24
46	Effect of crosslink density on the refractive index of a polysiloxane network based on 2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane. Polymer International, 2013, 62, 382-389.	1.6	34
47	Starch-Based Hydrogels: Present Status and Applications. International Journal of Polymeric Materials and Polymeric Biomaterials, 2013, 62, 411-420.	1.8	223
48	Characterization of the Microstructure and Mode I Fracture Property of Biodegradable Poly(L-lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Technology and Engineering, 2013, 52, 768-773.	1.9	13
49	Superabsorbent hydrogels prepared from waste polystyrene and linear low-density polyethylene. Journal of Elastomers and Plastics, 2013, 45, 536-550.	0.7	3
50	The effect of partial replacement of carbon black (CB) with halloysite nanotubes (HNTs) on the properties of CB/HNT-filled natural rubber nanocomposites. Journal of Elastomers and Plastics, 2013, 45, 445-455.	0.7	17
51	Preparation and properties of linear low-density polyethylene-g-poly (acrylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td (add)	2.3	76
52	Effect of cross-link density on optoelectronic properties of thermally cured 1,2-epoxy-5-hexene incorporated polysiloxane. Materials & Design, 2013, 47, 416-423.	5.1	22
53	Study on the effect of virgin and recycled chloroprene rubber (vCR and rCR) on the properties of natural rubber/chloroprene rubber (NR/CR) blends. Journal of Polymer Engineering, 2013, 33, 803-811.	0.6	13
54	Evaluation of Cross-Linked Chitosan as Filler for Thermal Properties of Chitosan-Based Biocomposites. Polymer-Plastics Technology and Engineering, 2013, 52, 806-813.	1.9	9

#	ARTICLE	IF	CITATIONS
55	Breakdown Strength Characteristic of RBDPO and Mineral Oil Mixture as an Alternative Insulating Liquid for Transformer. Jurnal Teknologi (Sciences and Engineering), 2013, 64, .	0.3	1
56	Synthesis of Porous Silica via Styrene Natural Rubber Sacrificial Template. Advanced Materials Research, 2012, 626, 823-827.	0.3	1
57	Evaluation of Cross-Linked Chitosan as Filler on Mechanical Properties of Chitosan-Based Bio-Composites. Polymer-Plastics Technology and Engineering, 2012, 51, 333-339.	1.9	7
58	Study on electron beam irradiated (linear low density polyethylene)/(soya powder) blends under outdoor exposure. Journal of Vinyl and Additive Technology, 2012, 18, 241-249.	1.8	10
59	Thermal properties of polyimide system containing silicone segments. Journal of Thermal Analysis and Calorimetry, 2012, 109, 1515-1523.	2.0	19
60	Environmental weathering of (linear low density polyethylene)/(soya powder) blends compatibilized with polyethylene grafted maleic anhydride. Journal of Vinyl and Additive Technology, 2012, 18, 57-64.	1.8	14
61	Thermal properties of 4,4-oxydiphthalic anhydride chitosan filled chitosan bio-composites. Journal of Thermal Analysis and Calorimetry, 2012, 107, 365-376.	2.0	7
62	The effect of electron beam irradiation in presence Of TMPTA as an initiator on tensile properties of linear low density polyethylene/poyl(vinyl alcohol) blends. , 2011, , .		0
63	Curing Characteristics, Mechanical, Thermal, and Morphological Properties of Halloysite Nanotubes (HNTs)-Filled Natural Rubber Nanocomposites. Polymer-Plastics Technology and Engineering, 2011, 50, 681-688.	1.9	27
64	Preparation, Properties and Applications of Chitosan-Based Biocomposites/Blend Materials: A Review. Composite Interfaces, 2011, 18, 449-507.	1.3	51
65	Cross-link network of polydimethylsiloxane via addition and condensation (RTV) mechanisms. Part I: Synthesis and thermal properties. Polymer Degradation and Stability, 2011, 96, 2064-2070.	2.7	38
66	Effects of different pH medium on swelling properties of 1,2,4,5-benzenetetracarboxylic-chitosan-filled chitosan bio-composites. Polymer Bulletin, 2011, 67, 291-320.	1.7	4
67	Effect of PEO-PPO-PEO copolymer on the mechanical and thermal properties and morphological behavior of biodegradable poly (L-lactic acid) (PLLA) and poly (butylene succinate-co-L-lactate) (PBSL) blends. Polymers for Advanced Technologies, 2011, 22, 1786-1793.	1.6	13
68	Mechanical properties of 1,2,4,5-benzene tetra carboxylic chitosan-filled chitosan biocomposites. Journal of Applied Polymer Science, 2011, 121, 111-126.	1.3	5
69	Dependence of the dielectric constant on the fluorine content and porosity of polyimides. Journal of Applied Polymer Science, 2011, 121, 3192-3200.	1.3	19
70	Preparation of polyimide/Al <sub>2</sub> O <sub>3</sub> composite films as improved solid dielectrics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 799-804.	1.7	52
71	Dielectric constant and refractive index of poly (siloxane-imide) block copolymer. Materials & Design, 2011, 32, 3173-3182.	5.1	62
72	The Effect of Bis-(3-triethoxysilylpropyl) Tetrasulphide (Si-69) as a Coupling Agent on Properties of Natural Rubber/Kenaf Fibre Composites. Polymer-Plastics Technology and Engineering, 2011, 50, 893-897.	1.9	19

#	ARTICLE	IF	CITATIONS
73	Preparation and characterization of 1,2,4,5-benzenetetra carboxylic-chitosan. E-Polymers, 2010, 10, .	1.3	7
74	Improvement of microstructures and properties of biodegradable PLLA and PCL blends compatibilized with a triblock copolymer. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6930-6937.	2.6	44
75	Characterization of microstructure and mechanical properties of biodegradable polymer blends of poly(L-lactic acid) and poly(butylene succinate-co-ε-caprolactone) with lysine triisocyanate. Polymer Engineering and Science, 2010, 50, 1485-1491.	1.5	7
76	The Effects of PP-g-MA on the Physical Properties and Morphology of Polypropylene (PP)/Recycled Acrylonitrile Butadiene Rubber (rNBR) Blends. Polymer-Plastics Technology and Engineering, 2010, 49, 1150-1154.	1.9	7
77	Synthesis and characterization of cis-5-norbornene-2,3- dicarboxylic anhydride-chitosan. E-Polymers, 2010, 10, .	1.3	4
78	X-Ray Diffraction Studies of Cross Linked Chitosan With Different Cross Linking Agents For Waste Water Treatment Application. AIP Conference Proceedings, 2010, , .	0.3	33
79	Effect of epoxidized natural rubber on the processing behavior, tensile properties, morphology, and thermal properties of linear low-density polyethylene/soya powder blends. Journal of Vinyl and Additive Technology, 2010, 16, 238-245.	1.8	19
80	Characterization of the mechanical and thermal properties and morphological behavior of biodegradable poly(L-lactide)/poly(ε-caprolactone) and poly(L-lactide)/poly(butylene succinate-co-l-lactate) polymeric blends. Journal of Applied Polymer Science, 2009, 114, 1784-1792.	1.3	116
81	Effects of lysine triisocyanate on the mode I fracture behavior of polymer blend of poly (l-lactic acid) and poly (butylene succinate-co-l-lactate). Journal of Materials Science, 2009, 44, 3006-3009.	1.7	33
82	The compatibilizing effect of epoxy resin (EP) on polypropylene (PP)/recycled acrylonitrile butadiene rubber (NBRr) blends. Polymer Testing, 2009, 28, 363-370.	2.3	44
83	Linear low-density polyethylene/(soya powder) blends containing polyethylene-g-maleic Tj ETQq1 1 0,784314 rgBT /Overlo	1.8	32
84	Preparation and properties of kenaf dust-filled chitosan biocomposites. Composite Interfaces, 2008, 15, 851-866.	1.3	14
85	Fabrication of nanoporous polyimide of low dielectric constant. , 2008, , .		0
86	The Effect of Partial Replacement of Paper Sludge by Commercial Fillers on Natural Rubber Composites. Journal of Reinforced Plastics and Composites, 2008, 27, 1877-1891.	1.6	14
87	Effects of cetyltrimethylammonium maleate on curing characteristics and mechanical properties of polychloroprene rubber. Polymer Testing, 2003, 22, 179-183.	2.3	12
88	Effects of hygrothermally decomposed polyurethane on the curing and mechanical properties of carbon black-filled epoxidized natural rubber vulcanizates. Journal of Applied Polymer Science, 2002, 84, 2265-2276.	1.3	4
89	Comparison of cetyltrimethylammonium maleate and sulphenamide as an accelerator in carbon black filled natural rubber compounds. Polymer Testing, 2001, 20, 607-614.	2.3	7
90	Effects of a quaternary ammonium salt on the properties of carbon-black-filled natural rubber compounds. Polymer International, 2001, 50, 612-618.	1.6	9

#	ARTICLE	IF	CITATIONS
91	Curing Characteristics, Fatigue Life and Morphological Properties of Natural Rubber Nanocomposites with Halloysite Nanotubes (HNTs)/Carbon Black (CB) Hybrid Filler. Key Engineering Materials, 0, 471-472, 957-962.	0.4	2
92	Synthesis and Characterization of Highly Cross-Link Polysiloxane Based on 2,4,6,8- Tetramethyl-2,4,6,8-Tetravinylcyclotetrasiloxane. Advanced Materials Research, 0, 295-297, 2393-2395.	0.3	3
93	Synthesis and Thermal Stability of Cross-Linked Carbazole-Substituted Poly(dimethylsiloxane) for LED Encapsulation. Advanced Materials Research, 0, 747, 733-736.	0.3	2
94	A Low Cost 3D Foot Scanner for Custom-Made Sports Shoes. Applied Mechanics and Materials, 0, 440, 369-372.	0.2	10
95	Surface Modification of Poly(lactic acid) (PLA) via Alkaline Hydrolysis Degradation. Advanced Materials Research, 0, 970, 324-327.	0.3	27
96	Preparation of Linear Low-Density Polyethylene-g-Poly(Acrylic Acid)-Co-Starch Hydrogel. Advanced Materials Research, 0, 1024, 163-166.	0.3	0
97	Poly (Vinyl Alcohol) in Fabrication of PLA Micro- and Nanoparticles Using Emulsion and Solvent Evaporation Technique. Advanced Materials Research, 0, 1024, 296-299.	0.3	6
98	Enhanced Dielectric Properties of Polyimide Matrix Using Modified Electrospun Barium Titanate Nanofibers. Solid State Phenomena, 0, 264, 62-65.	0.3	0
99	Tunneling Percolation Mechanism of Conductivity for PEDOT:PSS in Hydrophilic PDMS Composite for the Fabrication of Highly Sensitive Strain Sensor. Macromolecular Chemistry and Physics, 0, , 2200077.	1.1	3