Zulkifly abbas

List of Publications by Year
in descending order

123	1,783	331259 21	344852 36
papers	citations	h-index	g-index

124	124	124	1726
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent developments of smart electromagnetic absorbers based polymer-composites at gigahertz frequencies. Journal of Magnetism and Magnetic Materials, 2016, 405, 197-208.	1.0	148
2	Structural, magnetic and dielectric properties of magnesium doped nickel ferrite nanoparticles. Journal of Alloys and Compounds, 2015, 650, 116-122.	2.8	140
3	X-ray diffraction studies on crystallite size evolution of CoFe2O4 nanoparticles prepared using mechanical alloying and sintering. Applied Surface Science, 2010, 256, 3122-3127.	3.1	103
4	Recent advances in the development OF Fe3O4-BASED microwave absorbing materials. Ceramics International, 2020, 46, 1249-1268.	2.3	101
5	Sintering temperature dependence of room temperature magnetic and dielectric properties of Co0.5Zn0.5Fe2O4 prepared using mechanically alloyed nanoparticles. Journal of Magnetism and Magnetic Materials, 2010, 322, 686-691.	1.0	63
6	Complex permittivity measurements at Ka-Band using rectangular dielectric waveguide. IEEE Transactions on Instrumentation and Measurement, 2001, 50, 1334-1342.	2.4	61
7	A rectangular dielectric waveguide technique for determination of permittivity of materials at W-band. IEEE Transactions on Microwave Theory and Techniques, 1998, 46, 2011-2015.	2.9	53
8	Complex permittivity and moisture measurements of oil palm fruits using an open-ended coaxial sensor. IEEE Sensors Journal, 2005, 5, 1281-1287.	2.4	50
9	Influence of different BFO filler content on microwave absorption performances in BiFeO3/epoxy resin composites. Ceramics International, 2020, 46, 737-746.	2.3	45
10	Application of support vector regression and artificial neural network for prediction of specific heat capacity of aqueous nanofluids of copper oxide. Solar Energy, 2020, 197, 485-490.	2.9	42
11	Preparation of a Chemically Reduced Graphene Oxide Reinforced Epoxy Resin Polymer as a Composite for Electromagnetic Interference Shielding and Microwave-Absorbing Applications. Polymers, 2018, 10, 1180.	2.0	36
12	Investigation of the Broadband Microwave Absorption of Citric Acid Coated Fe3O4/PVDF Composite Using Finite Element Method. Applied Sciences (Switzerland), 2019, 9, 3877.	1.3	36
13	Application of Microwave Moisture Sensor for Determination of Oil Palm Fruit Ripeness. Measurement Science Review, 2010, 10, .	0.6	34
14	Improvement of Dielectric, Magnetic and Thermal Properties of OPEFB Fibreâ€“Polycaprolactone Composite by Adding Niâ€“Zn Ferrite. Polymers, 2017, 9, 12.	2.0	33
15	Determination of Moisture Content in Oil Palm Fruits Using a Five-Port Reflectometer. Sensors, 2011, 11, 4073-4085.	2.1	31
16	Precise Moisture Monitoring for Various Soil Types Using Handheld Microwave-Sensor Meter. IEEE Sensors Journal, 2013, 13, 2563-2570.	2.4	29
17	A Small and Slim Coaxial Probe for Single Rice Grain Moisture Sensing. Sensors, 2013, 13, 3652-3663.	2.1	28
18	Dual-Frequency Microwave Moisture Sensor Based on Circular Microstrip Antenna. IEEE Sensors Journal, 2007, 7, 1749-1756.	2.4	27

#	ARTICLE	IF	CITATIONS
19	Chemically Reduced Graphene Oxide-Reinforced Poly(Lactic Acid)/Poly(Ethylene Glycol) Nanocomposites: Preparation, Characterization, and Applications in Electromagnetic Interference Shielding. Polymers, 2019, 11, 661.	2.0	25
20	Microwave absorption properties of single- and double-layer coatings based on strontium hexaferrite and graphite nanocomposite. Journal of Materials Science: Materials in Electronics, 2018, 29, 14031-14045.	1.1	22
21	Development of a predictive model for estimating the specific heat capacity of metallic oxides/ethylene glycol-based nanofluids using support vector regression. Heliyon, 2019, 5, e01882.	1.4	22
22	Influence of sintering temperature on the structural, electrical and microwave properties of yttrium iron garnet (YIG). Journal of Materials Science: Materials in Electronics, 2018, 29, 8390-8401.	1.1	20
23	Determination of complex permittivity and permeability of lanthanum iron garnet filled PVDF-polymer composite using rectangular waveguide and Nicholsonâ€"Rossâ€"Weir (NRW) method at X-band frequencies. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1621-1625.	2.5	19
24	Facile preparation and enhanced electromagnetic wave absorption properties of Fe3O4 @PVDF nanocomposite. Journal of Materials Research and Technology, 2020, 9, 2513-2521.	2.6	19
25	A Microstrip Sensor for Determination of Harvesting Time for Oil Palm Fruits (Tenera: Elaeis) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.4	18
26	Reflection and Transmission Coefficient of Yttrium Iron Garnet Filled Polyvinylidene Fluoride Composite Using Rectangular Waveguide at Microwave Frequencies. International Journal of Molecular Sciences, 2012, 13, 8540-8548.	1.8	16
27	Effect of untreated fiber loading on the thermal, mechanical, dielectric, and microwave absorption properties of polycaprolactone reinforced with oil palm empty fruit bunch biocomposites. Polymer Composites, 2018, 39, E1778.	2.3	15
28	Dielectric permittivity of nickel ferrites at microwave frequencies 1 MHz to 1.8 GHz. Ionics, 2007, 13, 219-222.	1.2	14
29	Dielectric Characterization of Oil Palm Fiber Reinforced Polycaprolactone-nickel Oxide Composite at Microwave Frequency. Procedia Environmental Sciences, 2015, 30, 273-278.	1.3	14
30	Controlling the Properties of OPEFB/PLA Polymer Composite by Using Fe2O3 for Microwave Applications. Fibers and Polymers, 2018, 19, 1513-1521.	1.1	14
31	An acceleration of microwave-assisted transesterification of palm oil-based methyl ester into trimethylolpropane ester. Scientific Reports, 2020, 10, 19652.	1.6	14
32	Association of Radiation Doses and Cancer Risks from CT Pulmonary Angiography Examinations in Relation to Body Diameter. Diagnostics, 2020, 10, 681.	1.3	14
33	Theoretical and Numerical Approaches for Determining the Reflection and Transmission Coefficients of OPEFB-PCL Composites at X-Band Frequencies. PLoS ONE, 2015, 10, e0140505.	1.1	14
34	Physical characterization of briquettes produced from paper pulp and Mesua ferrea mixtures. Biofuels, 2022, 13, 333-340.	1.4	13
35	In situ measurements of complex permittivity and moisture content in oil palm fruits. EPJ Applied Physics, 2010, 49, 31201.	0.3	12
36	Dielectric Behaviour of Zn/Al-NO₃LDHs Filled with Polyvinyl Chloride Composite at Low Microwave Frequencies. Advances in Materials Science and Engineering, 2014, 2014, 1-6.	1.0	12

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37	Influence of indium substitution and microstructure changes on the magnetic properties evolution of Y3Fe5â^'xInxO12 (xÂ=Â0.0â€“0.4). Journal of Materials Science: Materials in Electronics, 2015, 26, 3596-3609.	1.1	12
38	Complex permittivity and power loss characteristics of Î±-Fe2O3/polycaprolactone (PCL) nanocomposites: effect of recycled Î±-Fe2O3 nanofiller. Heliyon, 2020, 6, e05595.	1.4	12
39	Dual frequency microstrip antenna sensor for water content measurements independent of temperature variation. Measurement Science and Technology, 2007, 18, 1054-1060.	1.4	11
40	A Simple Procedure to Determine Complex Permittivity of Moist Materials Using Standard Commercial Coaxial Sensor. Measurement Science Review, 2011, 11, .	0.6	11
41	Effects of crystalline phase formation of multiferroic BiFeO3 on microwave absorption characteristics. Journal of Materials Science: Materials in Electronics, 2018, 29, 13229-13240.	1.1	11
42	Kinetics and thermodynamics of synthesis of palm oil-based trimethylolpropane triester using microwave irradiation. Journal of Saudi Chemical Society, 2020, 24, 552-566.	2.4	11
43	RDWG technique of determination of moisture content in Oil Palm Fruits. EPJ Applied Physics, 2007, 40, 207-210.	0.3	10
44	Intercomparison of Methods for Determination of Resonant Frequency Shift of a Microstrip Patch Antenna Loaded with Hevea Rubber Latex. Journal of Sensors, 2014, 2014, 1-9.	0.6	10
45	Non-destructive Dielectric Measurements and Calibration for Thin Materials Using Waveguide-Coaxial Adaptors. Measurement Science Review, 2014, 14, 16-24.	0.6	10
46	Characterization of Ni_xZn_{1â^'x}Fe₂O₄ and Permittivity of Solid Material of NiO, ZnO, Fe₂O₃, and Ni_xZn_{1â^'x}Fe₂O₄ at Microwave Frequency Using Open Ended Coaxial Probe. International Journal of Microwave Science and Technology, 2015, 2015, 1-8.	0.6	10
47	Dependence of magnetic and microwave loss on evolving microstructure in yttrium iron garnet. Journal of Materials Science: Materials in Electronics, 2018, 29, 8688-8700.	1.1	10
48	Complex Permittivity and Microwave Absorption Properties of OPEFB Fiberâ€“Polycaprolactone Composites Filled with Recycled Hematite (Î±-Fe2O3) Nanoparticles. Polymers, 2019, 11, 918.	2.0	10
49	Enhancement of Complex Permittivity and Attenuation Properties of Recycled Hematite (Î±-Fe2O3) Using Nanoparticles Prepared via Ball Milling Technique. Materials, 2019, 12, 1696.	1.3	10
50	Synthesis, thermal, dielectric, and microwave reflection loss properties of nickel oxide filler with natural fiberâ€reinforced polymer composite. Journal of Applied Polymer Science, 2019, 136, 46998.	1.3	10
51	Determination of Moisture Content in Mortar at Near Relaxation Frequency 17 GHz. Measurement Science Review, 2011, 11, .	0.6	9
52	A Simple Insulated Monopole Sensor Technique for Determination of Moisture Content in Hevea Rubber Latex. Measurement Science Review, 2012, 12, .	0.6	9
53	Microwave characterization of lanthanum iron garnet-filled PVDF-polymer composite using rectangular waveguide at X-band frequency. Journal of Composite Materials, 2012, 46, 1497-1501.	1.2	9
54	Study of Dual Open Ended Coaxial Sensor System for Calculation of Phase Using Two Magnitudes. IEEE Sensors Journal, 2014, 14, 129-134.	2.4	9

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55	Single- and Double-Layer Microwave Absorbers of Cobalt Ferrite and Graphite Composite at Gigahertz Frequency. Journal of Superconductivity and Novel Magnetism, 2019, 32, 935-943.	0.8	9
56	Experimental and computational study on epoxy resin reinforced with microâ€sized OPEFB using rectangular waveguide and finite element method. IET Microwaves, Antennas and Propagation, 2020, 14, 752-758.	0.7	9
57	Determination of the dielectric constant of materials from effective refractive index measurements. IEEE Transactions on Instrumentation and Measurement, 1998, 47, 148-152.	2.4	8
58	Reduction of Electromagnetic Interference Using ZnO-PCL Nanocomposites at Microwave Frequency. Advances in Materials Science and Engineering, 2015, 2015, 1-7.	1.0	8
59	Permittivity Properties of Nickel Zinc Ferrite-Oil Palm Empty Fruit Bunch-Polycaprolactone Composite. Procedia Chemistry, 2016, 19, 603-610.	0.7	8
60	Simple preparation and characterization of bismuth ferrites nanoparticles by thermal treatment method. Journal of Materials Science: Materials in Electronics, 2017, 28, 17932-17938.	1.1	8
61	Low Cost and Simple Procedure to Determine Water Turbidity with Image Processing. , 2017, , .		8
62	Macroscopic characterization of materials using microwave measurement methods â€" A survey. , 2017, , .		8
63	Effects of Recycled Fe2O3 Nanofiller on the Structural, Thermal, Mechanical, Dielectric, and Magnetic Properties of PTFE Matrix. Polymers, 2021, 13, 2332.	2.0	8
64	Structural, Electromagnetic and Microwave Properties of Magnetite Extracted from Mill Scale Waste via Conventional Ball Milling and Mechanical Alloying Techniques. Materials, 2021, 14, 7075.	1.3	8
65	Fast and Accurate Technique for Determination of Moisture Content in Oil Palm Fruits using Open-Ended Coaxial Sensor. Japanese Journal of Applied Physics, 2005, 44, 5272-5274.	0.8	7
66	Preparation of Samarium Iron Garnet Nanoparticles via Modified Conventional Mixing Oxides Method. Journal of Nano Research, 0, 29, 59-64.	0.8	7
67	Magnetic and Dielectric Properties of Polymer-Coated Ni0.5Co0.3Cu0.2Fe2O4 Nanostructures. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2171-2177.	0.8	7
68	Complex Permittivity and Electromagnetic Interference Shielding Effectiveness of OPEFB Fiber-Polylactic Acid Filled with Reduced Graphene Oxide. Materials, 2020, 13, 4602.	1.3	7
69	Development of Planar Microwave Moisture Sensors for Hevea Rubber Latex and Oil Palm Fruits. , 2006, , .		6
70	AMPLITUDE-ONLY MEASUREMENTS OF A DUAL OPEN ENDED COAXIAL SENSOR SYSTEM FOR DETERMINATION OF COMPLEX PERMITTIVITY OF MATERIALS. Progress in Electromagnetics Research M, 2013, 28, 27-39.	0.5	6
71	The Effect of ZnO Nanoparticle Filler on the Attenuation of ZnO/PCL Nanocomposites Using Microstrip Line at Microwave Frequency. International Polymer Processing, 2015, 30, 227-232.	0.3	6
72	S-band five-port ring reflectometer-probe system for in vitro breast tumor detection. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21198.	0.8	6

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73	Optimum design of a microstrip ring resonator sensor to determine the moisture content in oil palm fruits and seeds. BioResources, 2019, 14, 1819-1837.	0.5	6
74	Microwave Dielectric Properties of Four Types of Rhizomes from Zingiberaceace Family. Journal of Physical Science, 2017, 28, 15-26.	0.5	6
75	Fringing Field Correction of Admittance Model for Open-Ended Coaxial Sensor. IEEE Sensors Journal, 2012, 12, 1468-1469.	2.4	5
76	Application of Rational Second Kind Chebyshev Functions for System of Integrodifferential Equations on Semi-Infinite Intervals. Journal of Applied Mathematics, 2012, 2012, 1-11.	0.4	5
77	Dielectric Behavior of OPEFB Reinforced Polycaprolactone Composites at X-Band Frequency. International Polymer Processing, 2016, 31, 18-25.	0.3	5
78	Compositional and frequency dependent-magnetic and microwave characteristics of indium substituted yttrium iron garnet. Journal of Materials Science: Materials in Electronics, 2017, 28, 3029-3041.	1.1	5
79	The Effect of MWCNTs Filler on the Absorbing Properties of OPEFB/PLA Composites Using Microstrip Line at Microwave Frequency. Materials, 2020, 13, 4581.	1.3	5
80	MONITORING THE DIELECTRIC PROPERTIES AND PROPAGATION CONDITIONS OF MORTAR FOR MODERN WIRELESS MOBILE NETWORKS. Progress in Electromagnetics Research Letters, 2020, 89, 91-97.	0.4	5
81	The HSLO(3)-FDTD With Direct-Domain and Temporary-Domain Approaches On Infinite Space Wave Propagation. , 0, , .		4
82	Effect of Material Thickness on Attenuation (dB) of PTFE Using Finite Element Method at X-Band Frequency. Advances in Materials Science and Engineering, 2014, 2014, 1-5.	1.0	4
83	The Effects of SLS on Structural and Complex Permittivity of SLS-HDPE Composites. Advances in Polymer Technology, 2019, 2019, 1-7.	0.8	4
84	A Review of Oil Palm Fruit Ripeness Monitoring Using Microwave Techniques in Malaysia. IOP Conference Series: Materials Science and Engineering, 2020, 767, 012007.	0.3	4
85	Effects of Particle Size on the Dielectric, Mechanical, and Thermal Properties of Recycled Borosilicate Glass-Filled PTFE Microwave Substrates. Polymers, 2021, 13, 2449.	2.0	4
86	Thermal-wave interferometry of gas-liquid applied to a thermal-wave resonator cavity technique. Review of Scientific Instruments, 2005, 76, 074901.	0.6	3
87	Application of bandpass filter as a sensor for rice characterization. , 2010, , .		3
88	Effect of ZnO-PCL Nanocomposite Thickness on Attenuation in a Rectangular Waveguide at Microwave Frequency using FEM. Journal of Microwave Power and Electromagnetic Energy, 2015, 49, 112-118.	0.4	3
89	Development of five port reflectometer for reflection based sensing system. AIP Conference Proceedings, 2017, , .	0.3	3
90	Oil Palm Fresh Fruit Bunches Maturity Prediction by Using Optical Spectrometer. IOP Conference Series: Earth and Environmental Science, 2020, 540, 012085.	0.2	3

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91	Effect of iterative reconstruction algorithm levels on noise index and figure-of-merit in CT pulmonary angiography examinations. Journal of X-Ray Science and Technology, 2020, 28, 893-903.	0.7	3
92	Further extensions to rectangular dielectric waveguide technique for dielectric measurements. , 0, , .		2
93	Improved Formulation for Admittance of Thin and Short Monopole Driving From Coaxial Line Into Dissipative Media. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 1246-1249.	2.4	2
94	MAGNETIC AND DIELECTRIC PROPERTIES OF POLYCRYSTALLINE Co_{0.5}Ni_{0.5}Fe₂O₄ MATERIALS PREPARED USING MECHANICALLY ALLOYED NANOPARTICLE. International Journal of Modern Physics B, 2011, 25, 1225-1233.	1.0	2
95	Determination Reflection and Transmission Coefficients of Lanthanum Iron Garnet Filled PVDF-Polymer Nanocomposite Using Finite Element Method Modeling at Microwave Frequencies. Journal of Nano Research, 2012, 21, 151-157.	0.8	2
96	Comparative Study Between Measurement and Predictions Using Geometrical Optics and Uniform Theory of Diffraction for Case of Non-Line-of-Sight (NLOS) in Indoor Environment. Wireless Personal Communications, 2013, 71, 2197-2213.	1.8	2
97	Development of a Symmetric Ring Junction as a Four-Port Reflectometer for Complex Reflection Coefficient Measurements. Radioengineering, 2015, 24, 906-911.	0.3	2
98	A Study of Multiferroic BiFeO₃/Epoxy Resin Composite as Potential Coating Materials for Microwave Absorption. Solid State Phenomena, 0, 307, 20-25.	0.3	2
99	Computational and Experimental Approaches for Determining Scattering Parameters of OPEFB/PLA Composites to Calculate the Absorption and Attenuation Values at Microwave Frequencies. Polymers, 2020, 12, 1919.	2.0	2
100	Analytical and Numerical Analysis of Fringing Field at Aperture Open-Ended Waveguides. , 2008, , .		1
101	Portable Microwave Instrumentation System for Determination of Moisture Content in Oil Palm Fruits. Japanese Journal of Applied Physics, 2009, 48, 120219.	0.8	1
102	New construction of wavelets base on floor function. Applied Mathematics and Computation, 2009, 210, 473-478.	1.4	1
103	Transmission wave modelling and calibration in cavity of open-ended rectangular waveguide. , 2011, , .		1
104	New Developed Formula to Calculate the Permittivity of Ferrite-Polymer Composite. Key Engineering Materials, 2013, 553, 53-58.	0.4	1
105	Quantification of calcium using localized normalization on laser-induced breakdown spectroscopy data. AIP Conference Proceedings, 2017, , .	0.3	1
106	Dielectric spectroscopy technique for carbohydrate characterization of fragrant rice, brown rice and white rice. , 2017, , .		1
107	Title is missing!. ScienceAsia, 2006, 32, 047.	0.2	1
108	Analysis on Monopole Antenna for Moisture Determination in Oil Palm Fruit Using Finite Difference Method. Journal of Electrical Engineering and Technology, 2016, 11, 1754-1762.	1.2	1

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109	MICROWAVE CHARACTERIZATION OF BIO-COMPOSITES MATERIALS BASED FINITE ELEMENT AND NICHOLSONâ€“ROSSâ€“WEIR METHODS. Malaysian Journal of Science, 2015, 34, 180-184.	0.2	1
110	Effect of microstructure on complex permittivity and microwave absorption properties of recycled Î±-Fe₂O₃ nanopowder prepared by high-energy ball milling technique. Materials Express, 2022, 12, 319-326.	0.2	1
111	Magnetoresistance studies of metallic granular and ceramic thin films for microsensor applications. , 2004, , .		0
112	Magnetoresistance effect of Cu/Cu-Co hybrid multilayer films. , 2004, , .		0
113	An improvement in speed of FDTD processing time for free space wave propagation. , 2005, , .		0
114	Parallel implementation for HSLO(3)-FDTD with message passing interface on Distributed Memory Architecture. , 2006, , .		0
115	New approach of solving time-domain free space wave propagation. , 2006, , .		0
116	Modeling of Coaxial Slot Waveguides Using Analytical and Numerical Approaches: Revisited. International Journal of Antennas and Propagation, 2012, 2012, 1-12.	0.7	0
117	Estimating the Permeability of Ferrite-Polymer Composite via a Numerical Optimization Method. Defect and Diffusion Forum, 0, 354, 25-31.	0.4	0
118	S-Parameters of Bismuth Iron Garnet (BIG) Filled Polyvinylidene Fluoride Composite Using Rectangular Waveguide Method. Advanced Materials Research, 0, 1024, 15-18.	0.3	0
119	A simple rectangular microstrip technique for determination of moisture content in Hevea rubber latex. AIP Conference Proceedings, 2015, , .	0.3	0
120	Determination of ethanol concentration of ethanol/water mixture solutions with open ended coaxial method. , 2016, , .		0
121	Ultra-wideband and Off-optimised Five-Port Reflectometer using Power Splitters. , 2018, , .		0
122	Numerical solution for systems of second-ordered singular integral equations and their physics representation. AIP Conference Proceedings, 2018, , .	0.3	0
123	Structural, magnetic and microwave absorption properties of BiFe1â^'xYxO3 ceramics synthesized by modified thermal treatment method. Journal of Materials Science: Materials in Electronics, 2021, 32, 5831-5848.	1.1	0