

Zulkifly abbas

List of Publications by Year in descending order

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123
papers

1,783
citations

331259

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344852

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124
times ranked

1726
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical characterization of briquettes produced from paper pulp and <i>Mesua ferrea</i> mixtures. <i>Biofuels</i> , 2022, 13, 333-340.	1.4	13
2	Effect of microstructure on complex permittivity and microwave absorption properties of recycled Fe_2O_3 nanopowder prepared by high-energy ball milling technique. <i>Materials Express</i> , 2022, 12, 319-326.	0.2	1
3	Structural, magnetic and microwave absorption properties of $\text{BiFe}_{1-x}\text{Y}_x\text{O}_3$ ceramics synthesized by modified thermal treatment method. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 5831-5848.	1.1	0
4	Effects of Particle Size on the Dielectric, Mechanical, and Thermal Properties of Recycled Borosilicate Glass-Filled PTFE Microwave Substrates. <i>Polymers</i> , 2021, 13, 2449.	2.0	4
5	Effects of Recycled Fe_2O_3 Nanofiller on the Structural, Thermal, Mechanical, Dielectric, and Magnetic Properties of PTFE Matrix. <i>Polymers</i> , 2021, 13, 2332.	2.0	8
6	Structural, Electromagnetic and Microwave Properties of Magnetite Extracted from Mill Scale Waste via Conventional Ball Milling and Mechanical Alloying Techniques. <i>Materials</i> , 2021, 14, 7075.	1.3	8
7	Influence of different BFO filler content on microwave absorption performances in BiFeO_3 /epoxy resin composites. <i>Ceramics International</i> , 2020, 46, 737-746.	2.3	45
8	Recent advances in the development OF Fe_3O_4 -BASED microwave absorbing materials. <i>Ceramics International</i> , 2020, 46, 1249-1268.	2.3	101
9	An acceleration of microwave-assisted transesterification of palm oil-based methyl ester into trimethylolpropane ester. <i>Scientific Reports</i> , 2020, 10, 19652.	1.6	14
10	Oil Palm Fresh Fruit Bunches Maturity Prediction by Using Optical Spectrometer. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 540, 012085.	0.2	3
11	A Review of Oil Palm Fruit Ripeness Monitoring Using Microwave Techniques in Malaysia. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 767, 012007.	0.3	4
12	Effect of iterative reconstruction algorithm levels on noise index and figure-of-merit in CT pulmonary angiography examinations. <i>Journal of X-Ray Science and Technology</i> , 2020, 28, 893-903.	0.7	3
13	The Effect of MWCNTs Filler on the Absorbing Properties of OPEFB/PLA Composites Using Microstrip Line at Microwave Frequency. <i>Materials</i> , 2020, 13, 4581.	1.3	5
14	Complex Permittivity and Electromagnetic Interference Shielding Effectiveness of OPEFB Fiber-Polylactic Acid Filled with Reduced Graphene Oxide. <i>Materials</i> , 2020, 13, 4602.	1.3	7
15	Computational and Experimental Approaches for Determining Scattering Parameters of OPEFB/PLA Composites to Calculate the Absorption and Attenuation Values at Microwave Frequencies. <i>Polymers</i> , 2020, 12, 1919.	2.0	2
16	Association of Radiation Doses and Cancer Risks from CT Pulmonary Angiography Examinations in Relation to Body Diameter. <i>Diagnostics</i> , 2020, 10, 681.	1.3	14
17	Experimental and computational study on epoxy resin reinforced with micro-sized OPEFB using rectangular waveguide and finite element method. <i>IET Microwaves, Antennas and Propagation</i> , 2020, 14, 752-758.	0.7	9
18	Complex permittivity and power loss characteristics of Fe_2O_3 /polycaprolactone (PCL) nanocomposites: effect of recycled Fe_2O_3 nanofiller. <i>Heliyon</i> , 2020, 6, e05595.	1.4	12

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19	Kinetics and thermodynamics of synthesis of palm oil-based trimethylolpropane triester using microwave irradiation. <i>Journal of Saudi Chemical Society</i> , 2020, 24, 552-566.	2.4	11
20	Application of support vector regression and artificial neural network for prediction of specific heat capacity of aqueous nanofluids of copper oxide. <i>Solar Energy</i> , 2020, 197, 485-490.	2.9	42
21	Facile preparation and enhanced electromagnetic wave absorption properties of Fe ₃ O ₄ @PVDF nanocomposite. <i>Journal of Materials Research and Technology</i> , 2020, 9, 2513-2521.	2.6	19
22	MONITORING THE DIELECTRIC PROPERTIES AND PROPAGATION CONDITIONS OF MORTAR FOR MODERN WIRELESS MOBILE NETWORKS. <i>Progress in Electromagnetics Research Letters</i> , 2020, 89, 91-97.	0.4	5
23	Single- and Double-Layer Microwave Absorbers of Cobalt Ferrite and Graphite Composite at Gigahertz Frequency. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 935-943.	0.8	9
24	The Effects of SLS on Structural and Complex Permittivity of SLS-HDPE Composites. <i>Advances in Polymer Technology</i> , 2019, 2019, 1-7.	0.8	4
25	Development of a predictive model for estimating the specific heat capacity of metallic oxides/ethylene glycol-based nanofluids using support vector regression. <i>Heliyon</i> , 2019, 5, e01882.	1.4	22
26	Investigation of the Broadband Microwave Absorption of Citric Acid Coated Fe ₃ O ₄ /PVDF Composite Using Finite Element Method. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3877.	1.3	36
27	Complex Permittivity and Microwave Absorption Properties of OPEFB Fiber- <i>Polycaprolactone</i> Composites Filled with Recycled Hematite (\pm -Fe ₂ O ₃) Nanoparticles. <i>Polymers</i> , 2019, 11, 918.	2.0	10
28	Enhancement of Complex Permittivity and Attenuation Properties of Recycled Hematite (\pm -Fe ₂ O ₃) Using Nanoparticles Prepared via Ball Milling Technique. <i>Materials</i> , 2019, 12, 1696.	1.3	10
29	Chemically Reduced Graphene Oxide-Reinforced Poly(Lactic Acid)/Poly(Ethylene Glycol) Nanocomposites: Preparation, Characterization, and Applications in Electromagnetic Interference Shielding. <i>Polymers</i> , 2019, 11, 661.	2.0	25
30	Synthesis, thermal, dielectric, and microwave reflection loss properties of nickel oxide filler with natural fiber-reinforced polymer composite. <i>Journal of Applied Polymer Science</i> , 2019, 136, 46998.	1.3	10
31	Optimum design of a microstrip ring resonator sensor to determine the moisture content in oil palm fruits and seeds. <i>BioResources</i> , 2019, 14, 1819-1837.	0.5	6
32	Influence of sintering temperature on the structural, electrical and microwave properties of yttrium iron garnet (YIG). <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8390-8401.	1.1	20
33	Dependence of magnetic and microwave loss on evolving microstructure in yttrium iron garnet. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8688-8700.	1.1	10
34	Effect of untreated fiber loading on the thermal, mechanical, dielectric, and microwave absorption properties of polycaprolactone reinforced with oil palm empty fruit bunch biocomposites. <i>Polymer Composites</i> , 2018, 39, E1778.	2.3	15
35	S-band five-port ring reflectometer-probe system for <i>in vitro</i> breast tumor detection. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018, 28, e21198.	0.8	6
36	Ultra-wideband and Off-optimised Five-Port Reflectometer using Power Splitters. , 2018, , .		0

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37	Numerical solution for systems of second-ordered singular integral equations and their physics representation. AIP Conference Proceedings, 2018, , .	0.3	0
38	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
39	Controlling the Properties of OPEFB/PLA Polymer Composite by Using Fe ₂ O ₃ for Microwave Applications. Fibers and Polymers, 2018, 19, 1513-1521.	1.1	14
40	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
41	Effects of crystalline phase formation of multiferroic BiFeO ₃ on microwave absorption characteristics. Journal of Materials Science: Materials in Electronics, 2018, 29, 13229-13240.	1.1	11
42	Quantification of calcium using localized normalization on laser-induced breakdown spectroscopy data. AIP Conference Proceedings, 2017, , .	0.3	1
43	Development of five port reflectometer for reflection based sensing system. AIP Conference Proceedings, 2017, , .	0.3	3
44	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
45	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
46	Low Cost and Simple Procedure to Determine Water Turbidity with Image Processing. , 2017, , .		8
47	Dielectric spectroscopy technique for carbohydrate characterization of fragrant rice, brown rice and white rice. , 2017, , .		1
48	Macroscopic characterization of materials using microwave measurement methods " A survey. , 2017, , .		8
49	Improvement of Dielectric, Magnetic and Thermal Properties of OPEFB Fibre"Polycaprolactone Composite by Adding Ni"Zn Ferrite. Polymers, 2017, 9, 12.	2.0	33
50	Microwave Dielectric Properties of Four Types of Rhizomes from Zingiberaceae Family. Journal of Physical Science, 2017, 28, 15-26.	0.5	6
51	Determination of ethanol concentration of ethanol/water mixture solutions with open ended coaxial method. , 2016, , .		0
52	Permittivity Properties of Nickel Zinc Ferrite-Oil Palm Empty Fruit Bunch-Polycaprolactone Composite. Procedia Chemistry, 2016, 19, 603-610.	0.7	8
53	Magnetic and Dielectric Properties of Polymer-Coated Ni _{0.5} Co _{0.3} Cu _{0.2} Fe ₂ O ₄ Nanostructures. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2171-2177.	0.8	7
54	Dielectric Behavior of OPEFB Reinforced Polycaprolactone Composites at X-Band Frequency. International Polymer Processing, 2016, 31, 18-25.	0.3	5

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55	Recent developments of smart electromagnetic absorbers based polymer-composites at gigahertz frequencies. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 405, 197-208.	1.0	148
56	Analysis on Monopole Antenna for Moisture Determination in Oil Palm Fruit Using Finite Difference Method. <i>Journal of Electrical Engineering and Technology</i> , 2016, 11, 1754-1762.	1.2	1
57	Dielectric Characterization of Oil Palm Fiber Reinforced Polycaprolactone-nickel Oxide Composite at Microwave Frequency. <i>Procedia Environmental Sciences</i> , 2015, 30, 273-278.	1.3	14
58	Effect of ZnO-PCL Nanocomposite Thickness on Attenuation in a Rectangular Waveguide at Microwave Frequency using FEM. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2015, 49, 112-118.	0.4	3
59	The Effect of ZnO Nanoparticle Filler on the Attenuation of ZnO/PCL Nanocomposites Using Microstrip Line at Microwave Frequency. <i>International Polymer Processing</i> , 2015, 30, 227-232.	0.3	6
60	A simple rectangular microstrip technique for determination of moisture content in Hevea rubber latex. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
61	Development of a Symmetric Ring Junction as a Four-Port Reflectometer for Complex Reflection Coefficient Measurements. <i>Radioengineering</i> , 2015, 24, 906-911.	0.3	2
62	Characterization of $\text{Ni}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ and Permittivity of Solid Material of NiO , ZnO , Fe_2O_3 , and $\text{Ni}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ at Microwave Frequency Using Open Ended Coaxial Probe. <i>International Journal of Microwave Science and Technology</i> , 2015, 2015, 1-8.	0.6	10
63	Reduction of Electromagnetic Interference Using ZnO-PCL Nanocomposites at Microwave Frequency. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-7.	1.0	8
64	Structural, magnetic and dielectric properties of magnesium doped nickel ferrite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2015, 650, 116-122.	2.8	140
65	Influence of indium substitution and microstructure changes on the magnetic properties evolution of $\text{Y}_3\text{Fe}_5\text{xIn}_x\text{O}_{12}$ ($x=0.0\text{--}0.4$). <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 3596-3609.	1.1	12
66	Theoretical and Numerical Approaches for Determining the Reflection and Transmission Coefficients of OPEFB-PCL Composites at X-Band Frequencies. <i>PLoS ONE</i> , 2015, 10, e0140505.	1.1	14
67	MICROWAVE CHARACTERIZATION OF BIO-COMPOSITES MATERIALS BASED FINITE ELEMENT AND NICHOLSON-ROSS-WEIR METHODS. <i>Malaysian Journal of Science</i> , 2015, 34, 180-184.	0.2	1
68	Intercomparison of Methods for Determination of Resonant Frequency Shift of a Microstrip Patch Antenna Loaded with Hevea Rubber Latex. <i>Journal of Sensors</i> , 2014, 2014, 1-9.	0.6	10
69	Non-destructive Dielectric Measurements and Calibration for Thin Materials Using Waveguide-Coaxial Adaptors. <i>Measurement Science Review</i> , 2014, 14, 16-24.	0.6	10
70	Dielectric Behaviour of $\text{Zn/Al-NO}_3\text{LDHs}$ Filled with Polyvinyl Chloride Composite at Low Microwave Frequencies. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-6.	1.0	12
71	Effect of Material Thickness on Attenuation (dB) of PTFE Using Finite Element Method at X-Band Frequency. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-5.	1.0	4
72	Study of Dual Open Ended Coaxial Sensor System for Calculation of Phase Using Two Magnitudes. <i>IEEE Sensors Journal</i> , 2014, 14, 129-134.	2.4	9

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73	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. <i>Wireless Personal Communications</i> , 2013, 71, 2197-2213.	1.8	2
74	Precise Moisture Monitoring for Various Soil Types Using Handheld Microwave-Sensor Meter. <i>IEEE Sensors Journal</i> , 2013, 13, 2563-2570.	2.4	29
75	A Small and Slim Coaxial Probe for Single Rice Grain Moisture Sensing. <i>Sensors</i> , 2013, 13, 3652-3663.	2.1	28
76	New Developed Formula to Calculate the Permittivity of Ferrite-Polymer Composite. <i>Key Engineering Materials</i> , 2013, 553, 53-58.	0.4	1
77	AMPLITUDE-ONLY MEASUREMENTS OF A DUAL OPEN ENDED COAXIAL SENSOR SYSTEM FOR DETERMINATION OF COMPLEX PERMITTIVITY OF MATERIALS. <i>Progress in Electromagnetics Research M</i> , 2013, 28, 27-39.	0.5	6
78	A Simple Insulated Monopole Sensor Technique for Determination of Moisture Content in Hevea Rubber Latex. <i>Measurement Science Review</i> , 2012, 12, .	0.6	9
79	Microwave characterization of lanthanum iron garnet-filled PVDF-polymer composite using rectangular waveguide at X-band frequency. <i>Journal of Composite Materials</i> , 2012, 46, 1497-1501.	1.2	9
80	Fringing Field Correction of Admittance Model for Open-Ended Coaxial Sensor. <i>IEEE Sensors Journal</i> , 2012, 12, 1468-1469.	2.4	5
81	Application of Rational Second Kind Chebyshev Functions for System of Integrodifferential Equations on Semi-Infinite Intervals. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-11.	0.4	5
82	Reflection and Transmission Coefficient of Yttrium Iron Garnet Filled Polyvinylidene Fluoride Composite Using Rectangular Waveguide at Microwave Frequencies. <i>International Journal of Molecular Sciences</i> , 2012, 13, 8540-8548.	1.8	16
83	Determination Reflection and Transmission Coefficients of Lanthanum Iron Garnet Filled PVDF-Polymer Nanocomposite Using Finite Element Method Modeling at Microwave Frequencies. <i>Journal of Nano Research</i> , 2012, 21, 151-157.	0.8	2
84	Modeling of Coaxial Slot Waveguides Using Analytical and Numerical Approaches: Revisited. <i>International Journal of Antennas and Propagation</i> , 2012, 2012, 1-12.	0.7	0
85	Determination of complex permittivity and permeability of lanthanum iron garnet filled PVDF-polymer composite using rectangular waveguide and Nicholson's "Weir (NRW) method at X-band frequencies. <i>Measurement: Journal of the International Measurement Confederation</i> , 2012, 45, 1621-1625.	2.5	19
86	A Simple Procedure to Determine Complex Permittivity of Moist Materials Using Standard Commercial Coaxial Sensor. <i>Measurement Science Review</i> , 2011, 11, .	0.6	11
87	Determination of Moisture Content in Mortar at Near Relaxation Frequency 17 GHz. <i>Measurement Science Review</i> , 2011, 11, .	0.6	9
88	Transmission wave modelling and calibration in cavity of open-ended rectangular waveguide. , 2011, , .		1
89	MAGNETIC AND DIELECTRIC PROPERTIES OF POLYCRYSTALLINE $\text{Co}_{0.5}\text{Ni}_{0.5}\text{Fe}_2\text{O}_4$ MATERIALS PREPARED USING MECHANICALLY ALLOYED NANOPARTICLE. <i>International Journal of Modern Physics B</i> , 2011, 25, 1225-1233.	1.0	2
90	Determination of Moisture Content in Oil Palm Fruits Using a Five-Port Reflectometer. <i>Sensors</i> , 2011, 11, 4073-4085.	2.1	31

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91	Application of Microwave Moisture Sensor for Determination of Oil Palm Fruit Ripeness. Measurement Science Review, 2010, 10, .	0.6	34
92	In situ measurements of complex permittivity and moisture content in oil palm fruits. EPJ Applied Physics, 2010, 49, 31201.	0.3	12
93	X-ray diffraction studies on crystallite size evolution of CoFe ₂ O ₄ nanoparticles prepared using mechanical alloying and sintering. Applied Surface Science, 2010, 256, 3122-3127.	3.1	103
94	Sintering temperature dependence of room temperature magnetic and dielectric properties of Co _{0.5} Zn _{0.5} Fe ₂ O ₄ prepared using mechanically alloyed nanoparticles. Journal of Magnetism and Magnetic Materials, 2010, 322, 686-691.	1.0	63
95	Application of bandpass filter as a sensor for rice characterization. , 2010, , .		3
96	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
97	Portable Microwave Instrumentation System for Determination of Moisture Content in Oil Palm Fruits. Japanese Journal of Applied Physics, 2009, 48, 120219.	0.8	1
98	New construction of wavelets base on floor function. Applied Mathematics and Computation, 2009, 210, 473-478.	1.4	1
99	Analytical and Numerical Analysis of Fringing Field at Aperture Open-Ended Waveguides. , 2008, , .		1
100	RDWG technique of determination of moisture content in Oil Palm Fruits. EPJ Applied Physics, 2007, 40, 207-210.	0.3	10
101	Dual-Frequency Microwave Moisture Sensor Based on Circular Microstrip Antenna. IEEE Sensors Journal, 2007, 7, 1749-1756.	2.4	27
102	Dual frequency microstrip antenna sensor for water content measurements independent of temperature variation. Measurement Science and Technology, 2007, 18, 1054-1060.	1.4	11
103	Dielectric permittivity of nickel ferrites at microwave frequencies 1 MHz to 1.8 GHz. Ionics, 2007, 13, 219-222.	1.2	14
104	Development of Planar Microwave Moisture Sensors for Hevea Rubber Latex and Oil Palm Fruits. , 2006, , .		6
105	Parallel implementation for HSLO(3)-FDTD with message passing interface on Distributed Memory Architecture. , 2006, , .		0
106	New approach of solving time-domain free space wave propagation. , 2006, , .		0
107	Title is missing!. ScienceAsia, 2006, 32, 047.	0.2	1
108	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

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109	Thermal-wave interferometry of gas-liquid applied to a thermal-wave resonator cavity technique. Review of Scientific Instruments, 2005, 76, 074901.	0.6	3
110	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
111	An improvement in speed of FDTD processing time for free space wave propagation. , 2005, , .		0
112	Magneto-resistance studies of metallic granular and ceramic thin films for microsensor applications. , 2004, , .		0
113	Magneto-resistance effect of Cu/Cu-Co hybrid multilayer films. , 2004, , .		0
114	Complex permittivity measurements at Ka-Band using rectangular dielectric waveguide. IEEE Transactions on Instrumentation and Measurement, 2001, 50, 1334-1342.	2.4	61
115	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
116	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
117	A Microstrip Sensor for Determination of Harvesting Time for Oil Palm Fruits (Tenera: Elaeis Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.4	18
118	Further extensions to rectangular dielectric waveguide technique for dielectric measurements. , 0, , .		2
119	The HSLO(3)-FDTD With Direct-Domain and Temporary-Domain Approaches On Infinite Space Wave Propagation. , 0, , .		4
120	Preparation of Samarium Iron Garnet Nanoparticles via Modified Conventional Mixing Oxides Method. Journal of Nano Research, 0, 29, 59-64.	0.8	7
121	Estimating the Permeability of Ferrite-Polymer Composite via a Numerical Optimization Method. Defect and Diffusion Forum, 0, 354, 25-31.	0.4	0
122	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
123	A Study of Multiferroic BiFeO ₃ /Epoxy Resin Composite as Potential Coating Materials for Microwave Absorption. Solid State Phenomena, 0, 307, 20-25.	0.3	2