

M S Al-buriahi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Optical parameters and gamma shielding quality of sodium-borate glasses: The relative contribution of Bi ₂ O ₃ , SrO, and Li ₂ O. <i>Solid State Sciences</i> , 2024, 157, 107711.	3.2	0
2	Optimising the physical, thermal, optical, and gamma-ray shielding features of B ₂ O ₃ -As ₂ O ₃ -Li ₂ O-PbO glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	2.2	0
3	Gamma-ray shielding capability of CoFeTaB amorphous solids using Monte Carlo simulations and Phy ^X /PSD software. <i>Radiation Effects and Defects in Solids</i> , 2023, 178, 808-819.	1.1	1
4	Structural, electrical, and photocatalytic properties of Y-type hexaferrite/carbon dot composite. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	2.2	1
5	Convolutional variational autoencoder-based feature learning for automatic tea clone recognition. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2022, 34, 3332-3342.	4.2	3
6	Effect of Nd ³⁺ ions on radiation attenuation properties of PbF ₂ -TeO ₂ -WO ₃ glass system for shielding applications. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2022, 61, 470-486.	2.0	16
7	Synthesis of Pb ₃ O ₄ -SiO ₂ -ZnO-WO ₃ Glasses and their Fundamental Properties for Gamma Shielding Applications. <i>Silicon</i> , 2022, 14, 5661-5671.	3.3	48
8	A Study of Thermal, and Optical Properties of 22SiO ₂ - 23Bi ₂ O ₃ -37B ₂ O ₃ -13TiO ₂ -(5-x) LiF- x BaO Glasses. <i>Silicon</i> , 2022, 14, 6447-6455.	3.3	37
9	Mechanical and Thermodynamic Characteristics of 22SiO ₂ - 23Bi ₂ O ₃ -37B ₂ O ₃ -13TiO ₂ -(5-x) LiF- x BaO Glasses. <i>Silicon</i> , 2022, 14, 6457-6465.	3.3	48
10	FT-IR and Gamma Shielding Characteristics of 22SiO ₂ - 23Bi ₂ O ₃ -37B ₂ O ₃ -13TiO ₂ -(5-x) LiF- x BaO Glasses. <i>Silicon</i> , 2022, 14, 7043-7051.	3.3	53
11	Study of the radiation attenuation properties of MgO-Al ₂ O ₃ -SiO ₂ -Li ₂ O-Na ₂ O glass system. <i>Journal of the Australian Ceramic Society</i> , 2022, 58, 267-273.	1.9	47
12	The role of PbF ₂ on the gamma-ray photon, charged particles, and neutron shielding prowess of novel lead fluoro bismuth borate glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 1123-1139.	2.2	58
13	Characterization of physicochemical properties of As ₂ Se ₃ -GeTe-AgI chalcogenide glasses for solar cell and IR applications: influence of adding AgI. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 800.	2.2	4
14	A significant role of MoO ₃ on the optical, thermal, and radiation shielding characteristics of B ₂ O ₃ -P ₂ O ₅ -Li ₂ O glasses. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	3.3	90
15	An important role of Ba ²⁺ , Sr ²⁺ , Mg ²⁺ , and Zn ²⁺ in the radiation attenuation performance of CFCBPC bioactive glasses. <i>Journal of the Australian Ceramic Society</i> , 2022, 58, 461-473.	1.9	57
16	Effect of Calcination Temperature on the Structural and Optical Properties of (ZnO) _{0.8} (ZrO ₂) _{0.2} Nanoparticles. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 1755-1765.	3.7	10
17	Drug delivery of carvedilol (cardiovascular drug) using phosphorene as a drug carrier: a DFT study. <i>Journal of Taibah University for Science</i> , 2022, 16, 31-46.	2.6	15
18	Attenuation properties and radiation protection efficiency of Tb ₂ O ₃ -La ₂ O ₃ -P ₂ O ₅ glass system. <i>Journal of the Australian Ceramic Society</i> , 2022, 58, 511-519.	1.9	20

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19	Gamma, neutron, and heavy charged ion shielding properties of Er ³⁺ -doped and Sm ³⁺ -doped zinc borate glasses. Open Chemistry, 2022, 20, 130-145.	2.0	45
20	Silver cluster doped graphyne (GY) with outstanding non-linear optical properties. RSC Advances, 2022, 12, 5466-5482.	3.7	35
21	Non-woven fabric coated with candle soot for water remediation. Journal of the Australian Ceramic Society, 2022, 58, 617-625.	1.9	2
22	Comparison of radiation shielding and elastic properties of germanate tellurite glasses with the addition of Ga ₂ O ₃ . Journal of Taibah University for Science, 2022, 16, 183-192.	2.6	26
23	Enhanced \pm -Mn ₂ O ₃ nanorods synthesized by one-pot hydrothermal route for supercapacitors. Journal of Materials Science: Materials in Electronics, 2022, 33, 11067-11077.	2.2	5
24	Structural, Electronic, Elastic and Magnetic Properties of Ln ₃ QIn (Ln = Ce, Pr and Nd; Q = C and N) anti-perovskites. Journal of Electronic Materials, 2022, 51, 2819-2827.	2.2	6
25	Synthesis, thermal, optical, mechanical and radiation-attenuation characteristics of borate glass system modified by Bi ₂ O ₃ /MgO. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.4	52
26	Sonophotocatalytic Dye Degradation Using rGO@BiVO ₄ Composites. Global Challenges, 2022, 6, .	0.0	18
27	Evaluation of the radiation shielding characteristics of WO ₃ @MoO ₃ @TeO ₂ /Sb ₂ O ₃ glasses. Canadian Metallurgical Quarterly, 2022, 61, 418-428.	1.1	9
28	Rational design of a BiFeWO ₆ nanostructure for supercapacitor applications. Journal of Solid State Electrochemistry, 2022, 26, 1251-1258.	2.6	7
29	Eu ²⁺ /Co substituted Sr-hexaferrites for recording media and microwave devices. Journal of Materials Science: Materials in Electronics, 2022, 33, 12147-12156.	2.2	7
30	First principle study of opto-electronic and thermoelectric properties of Zintl Phase XIn ₂ Z ₂ (X = Ca, Sr) Tj	2.4	12
31	CoFe ₂ O ₄ surface modification with conducting polypyrrole: employed as a highly active electrocatalyst for oxygen evolution reaction. Journal of Materials Science: Materials in Electronics, 2022, 33, 13244-13254.	2.2	10
32	Remarkable non-linear optical properties of gold cluster doped graphyne (GY): A DFT study. Journal of Molecular Graphics and Modelling, 2022, 114, 108204.	2.5	11
33	Single-step hydrothermal synthesis of amine functionalized Ce-MOF for electrochemical water splitting. Journal of Taibah University for Science, 2022, 16, 525-534.	2.6	3
34	Tunable decorated flake interlayers of functionalized graphene oxide for energy storage devices. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.4	5
35	A broad analysis of directly and indirectly ionizing radiation interaction parameters of Pb ₂ -CaF ₂ -Bi ₂ O ₃ -B ₂ O ₃ -Cr ₂ Sb ₂ O ₃ glass system. Physica Scripta, 2022, 97, 075306.	2.5	2
36	P ₂ O ₅ @Pb ₃ O ₄ @ZnO@Li ₂ CO ₃ @CuO glasses and their radiation attenuation properties for shielding applications. Journal of the Australian Ceramic Society, 2022, 58, 1219-1229.	1.9	3

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37	Radiation shielding performance of Co ₂ O ₃ -TeO ₂ -Li ₂ O-ZrO ₂ glass-ceramics. Journal of the Australian Ceramic Society, 2022, 58, 1199-1207.	1.9	8
38	n-Type narrow band gap A ₃ InAs ₃ (A = Sr and Eu) Zintl phase semiconductors for optoelectronic and thermoelectric applications. Journal of Taibah University for Science, 2022, 16, 660-669.	2.6	12
39	Polarizability, Optical Basicity, and Photon Attenuation Properties of Ag ₂ O-MoO ₃ -V ₂ O ₅ -TeO ₂ Glasses: The Role of Silver Oxide. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 1047-1056.	3.7	74
40	Electrical and dielectric properties of meridional and facial Alq ₃ nanorods powders. Journal of Materials Science: Materials in Electronics, 2021, 32, 2075-2087.	2.2	26
41	Effects of AgO addition on the mechanical, optical, and radiation attenuation properties of V ₂ O ₅ /P ₂ O ₅ /B ₂ O ₃ glass system. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.4	12
42	13-93B3 Bioactive glasses containing Ce ³⁺ , Ga ³⁺ and V ⁵⁺ : dose rate and gamma radiation characteristic for medical purposes. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.4	11
43	Radiation attenuation properties of some commercial polymers for advanced shielding applications at low energies. Polymers for Advanced Technologies, 2021, 32, 2386-2396.	3.2	131
44	Fe-based alloys and their shielding properties against directly and indirectly ionizing radiation by using FLUKA simulations. Physica Scripta, 2021, 96, 045303.	2.5	74
45	The Effects of TeO ₂ on Polarizability, Optical Transmission, and Photon/Neutron Attenuation Properties of Boro-Zinc-Tellurite Glasses. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 2331-2338.	3.7	76
46	Structural, optical and nuclear radiation shielding properties of strontium barium borate glasses doped with dysprosium and niobium. Journal of Materials Science: Materials in Electronics, 2021, 32, 8570-8592.	2.2	66
47	Newly developed glasses containing Si/Cd/Li/Gd and their high performance for radiation applications: role of Er ₂ O ₃ . Journal of Materials Science: Materials in Electronics, 2021, 32, 9440-9451.	2.2	58
48	Microhardness and gamma-ray attenuation properties of lead iron phosphate glasses. Journal of Materials Science: Materials in Electronics, 2021, 32, 13906-13916.	2.2	55
49	Role of heavy metal oxides on the radiation attenuation properties of newly developed TBBE-X glasses by computational methods. Physica Scripta, 2021, 96, 075302.	2.5	79
50	Optical, thermal and radiation shielding properties of B ₂ O ₃ -NaF-PbO-BaO-La ₂ O ₃ glasses. Journal of Materials Science: Materials in Electronics, 2021, 32, 26034-26048.	2.2	69
51	Effect of Ag ₂ O/V ₂ O ₅ substitution on the radiation shielding ability of tellurite glass system via XCOM approach and FLUKA simulations. Physica Scripta, 2021, 96, 065308.	2.5	88
52	Structural, Magnetic and Gas Sensing Activity of Pure and Cr Doped In ₂ O ₃ Thin Films Grown by Pulsed Laser Deposition. Coatings, 2021, 11, 588.	2.7	15
53	Ge ₂₀ Se _{80-x} Bix (x = 12) chalcogenide glasses for infrared and gamma sensing applications: structural, optical and gamma attenuation aspects. Journal of Materials Science: Materials in Electronics, 2021, 32, 15509-15522.	2.2	31
54	Effects of MgO addition on the radiation attenuation properties of 45S5 bioglass system at the energies of medical interest: an in silico study. Journal of the Australian Ceramic Society, 2021, 57, 1107-1115.	1.9	43

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55	Erbium (III)- and Terbium (III)-containing silicate-based bioactive glass powders: physical, structural and nuclear radiation shielding characteristics. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.4	27
56	Effects of reducing PbO content on the elastic and radiation attenuation properties of germanate glasses: a new non-toxic candidate for shielding applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 15080-15094.	2.2	11
57	Effects of TeO ₂ and B ₂ O ₃ on photon, neutron, and charged particle transmission properties of Bi ₂ O ₃ -BaO-LiF glass system. <i>Journal of the Australian Ceramic Society</i> , 2021, 57, 1177-1188.	1.9	23
58	Electronegativity and optical basicity of glasses containing Na/Pb/B and their high performance for radiation applications: role of ZrO ₂ nanoparticles. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	26
59	Elastic properties and radiation shielding ability of ZnO-P ₂ O ₅ /B ₂ O ₃ glass system. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 19203-19217.	2.2	25
60	A Significant Role of Tb ₂ O ₃ on the Optical Properties and Radiation Shielding Performance of Ga ₂ O ₃ -B ₂ O ₃ -Al ₂ O ₃ -GeO ₂ Glasses. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 4300-4312.	3.7	9
61	The significant role of CeO ₂ content on the radiation shielding performance of Fe ₂ O ₃ -P ₂ O ₅ glass-ceramics: Geant4 simulations study. <i>Physica Scripta</i> , 2021, 96, 115305.	2.5	11
62	Physical, structural, mechanical, and radiation shielding properties of the PbO-B ₂ O ₃ -Bi ₂ O ₃ -ZnO glass system. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 18994-19009.	2.2	26
63	Influence of WO ₃ incorporation on synthesis, optical, elastic and radiation shielding properties of borosilicate glass system. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	65
64	X- and gamma-rays attenuation properties of DNA nucleobases by using FLUKA simulation code. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	40
65	Enhancement of shielding ability using PbF ₂ in Fe-reinforced bismuth borate glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 23047-23065.	2.2	25
66	Nuclear Radiation Shielding Characteristics of Some Natural Rocks by Using EPICS2017 Library. <i>Materials</i> , 2021, 14, 4669.	3.0	21
67	Polarizability, metallization criterion, and radiation attenuation performance of pure and Ag-doped poly (vinyl alcohol) polymers for advanced shielding applications. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.5	11
68	Synthesis, optical, and radiation attenuation properties of CaF ₂ -TeO ₂ -Na ₂ B ₄ O ₇ -CuO glass system for advanced shielding applications. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	62
69	Effect of Sb ₂ O ₃ addition on radiation attenuation properties of tellurite glasses containing V ₂ O ₅ and Nb ₂ O ₅ . <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.4	49
70	Physical, optical, and ionizing radiation shielding parameters of Al(PO ₃) ₃ -doped PbO-Bi ₂ O ₃ -B ₂ O ₃ glass system. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 27744-27761.	2.2	19
71	Gamma, neutron, and charged-particles shielding properties of tellurite glass system containing Sb ₂ O ₃ and V ₂ O ₅ . <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 28275-28286.	2.2	15
72	SrO Effect on Photon/Particle Radiation Protection Characteristics of SrO-PbO-B ₂ O ₃ Glasses. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 4546-4562.	3.7	8

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73	Structural, thermal, and mechanical characteristics of yttrium lithium borate glasses and glass-ceramics. Journal of Materials Science: Materials in Electronics, 2021, 32, 28065-28075.	2.2	19
74	Optical and gamma-ray absorption features of newly developed P ₂ O ₅ -Ce ₂ O ₃ -La ₂ O ₃ glass system. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.4	21
75	Structural and magnetic properties of erbium substituted spinel ferrites for microwave absorptions. Journal of Taibah University for Science, 2021, 15, 769-780.	2.6	5
76	Synergistic effect of reduced graphene oxide layers wrapped in polyaniline sheets to porous blades for boosted oxygen evolution reaction. Journal of Taibah University for Science, 2021, 15, 960-970.	2.6	8
77	The Evaluation of Structural, Electrical and Magnetic Properties of Samarium substituted Spinel Ferrites. Journal of Taibah University for Science, 2021, 15, 798-804.	2.6	3
78	Study of the influence of MoO ₃ concentration on the chemical structure, physical properties, and radiation absorption prowess of alumino lead borate glasses. Physica Scripta, 2021, 96, 125325.	2.5	4
79	Mass attenuation coefficients, effective atomic numbers and electron densities of some contrast agents for computed tomography. Radiation Physics and Chemistry, 2020, 166, 108507.	2.8	94
80	Oxyfluoro-tellurite-zinc glasses and the nuclear-shielding ability under the substitution of AlF ₃ by ZnO. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.4	89
81	Investigation of barium borate glasses for radiation shielding applications. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.4	169
82	Experimental studies on the gamma photons-shielding competence of TeO ₂ -PbO-BaO-Na ₂ O-B ₂ O ₃ glasses. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.4	59
83	TeO ₂ -TiO ₂ -ZnO glasses: potential use in radiation protection. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.4	4
84	Gamma-ray attenuation properties of some NLO materials: potential use in dosimetry. Radiation and Environmental Biophysics, 2020, 59, 145-150.	1.4	72
85	Influence of ZrO ₂ on gamma shielding properties of lead borate glasses. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.4	68
86	Effect of different modifier oxides on the synthesis, structural, optical, and gamma/beta shielding properties of bismuth lead borate glasses doped with europium. Journal of Materials Science: Materials in Electronics, 2020, 31, 21486-21501.	2.2	62
87	Influence of Er ³⁺ -doped ions on the linear/nonlinear optical characteristics and radiation shielding features of TeO ₂ -ZnO-Er ₂ O ₃ glasses. Journal of Materials Science: Materials in Electronics, 2020, 31, 21431-21443.	2.2	9
88	Effect of lead oxide on the optical properties and radiation shielding efficiency of antimony-sodium-tungsten glasses. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.4	34
89	Nuclear radiation shielding competences of barium-reinforced borosilicate glasses. Emerging Materials Research, 2020, 9, 1131-1144.	0.7	76
90	Gamma-ray/neutron shielding capacity and elastic moduli of MnO-K ₂ O-B ₂ O ₃ glasses co-doped with Er ³⁺ ions. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.4	3

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91	Protection of healthcare workers against transmission of <i>Mycobacterium tuberculosis</i> in hospitals: a review of the evidence. ERJ Open Research, 2020, 6, 00317-2019.	2.7	12
92	Effect of chromium oxide on the physical, optical, and radiation shielding properties of lead sodium borate glasses. Journal of Non-Crystalline Solids, 2020, 544, 120171.	3.2	114
93	Gamma-ray shielding parameters of lithium borotellurite glasses using Geant4 code. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.4	15
94	Bioactive glasses doped with TiO ₂ and their potential use in radiation shielding applications. Ceramics International, 2020, 46, 14721-14732.	4.9	44
95	Effect of TiO ₂ /V ₂ O ₅ substitution on the optical and radiation shielding properties of alkali borate glasses: A Monte Carlo investigation. Ceramics International, 2020, 46, 25671-25677.	4.9	30
96	Photon and electron attenuation parameters of phosphate and borate bioactive glasses by using Geant4 simulations. Ceramics International, 2020, 46, 24435-24442.	4.9	77
97	Comparison of shielding properties of various marble concretes using GEANT4 simulation and experimental data. Journal of the Australian Ceramic Society, 2020, 56, 1127-1133.	1.9	89
98	Estimation of gamma-rays, and fast and the thermal neutrons attenuation characteristics for bismuth tellurite and bismuth boro-tellurite glass systems. Journal of Materials Science, 2020, 55, 5750-5771.	3.7	64
99	B ₂ O ₃ -Bi ₂ O ₃ -TeO ₂ -BaO and TeO ₂ -Bi ₂ O ₃ -BaO glass systems: a comparative assessment of gamma-ray and fast and thermal neutron attenuation aspects. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.4	74
100	MoO ₃ -TeO ₂ glass system for gamma ray shielding applications. Materials Research Express, 2020, 7, 025202.	1.7	69
101	Study on gamma-ray buildup factors of bismuth borate glasses. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.4	108
102	Radiation shielding investigations for selected tellurite-based glasses belonging to the TNW system. Materials Research Express, 2019, 6, 105206.	1.7	101
103	Electronic polarizability, dielectric, and gamma-ray shielding properties of some tellurite-based glasses. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.4	97
104	Investigation of the physical properties and gamma-ray shielding capability of borate glasses containing PbO, Al ₂ O ₃ and Na ₂ O. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.4	78
105	Investigation of photon energy absorption properties for some biomolecules. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	3.4	26
106	New transparent rare earth glasses for radiation protection applications. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.4	71
107	Anticancer activity and mechanism of action of fermented wheat germ extract against ovarian cancer. Journal of Food Biochemistry, 2018, 42, e12688.	2.9	10
108	Studies on mass attenuation coefficients, effective atomic numbers and electron densities for some biomolecules. Radiation Physics and Chemistry, 2018, 153, 86-91.	2.8	104

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109	Production of charged hadrons in muon deep inelastic scattering. Chinese Journal of Physics, 2016, 54, 802-809.	4.0	1
110	Interference between adaptation to double steps and adaptation to rotated feedback in spite of differences in directional selectivity. Experimental Brain Research, 2016, 234, 1491-1504.	1.5	7
111	Otto Dix, The Match Seller 1920. Occupational Medicine, 2014, 64, 148-149.	1.6	1
112	Microstructure, drug binding and cytotoxicity of Pluronic P123â€“aerosol OT mixed micelles. RSC Advances, 2013, 3, 23080.	3.7	37
113	Impact of the mean nodal degree on optical networks. , 2008, , .		0
114	CD10 positivity in breast epithelial neoplasms. Journal of Clinical Pathology, 2006, 60, 958-959.	2.2	6
115	Friction Stir Welding in Pipeline Applications. , 2004, , 1515.		1
116	Oscillations of the critical temperature in superconducting Nb/Ni bilayers. Annalen Der Physik, 2003, 515, 37-50.	2.5	4
117	A Micromechanical and Numerical Model for Effective Thermal Conductivity of Areca Fiber and Coconut Shell Particulate Reinforced Hybrid Composites. International Journal of Computational Materials Science and Engineering, 0, , .	0.6	0