

# FULL PUBLICATION LIST

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### Summary

- Journal Publications: 200
- Conference Papers: 163
- Edited Books/Proceedings/Book Chapters: 17
- Other Academic Publications (including newspaper articles, popular scientific articles etc): 38
- h-Index (Google Scholar): 49
- Total Citation (Google Scholar): 9968

### 1 Journal Publications

- (200) Lina Syazwana binti Kamaruzzaman; Yingxin Goh; Zi Ming Chang; A S Md Abdul Haseeb, "*Interfacial Reactions in Electrodeposited Cu-Bi-Sn Multilayers*", J Mater Sci: Mat in Electronics, Accepted, 2023 [WoS-indexed]
- (199) Muhammad Nasir Bashir, ASMA Haseeb, Sumsun Naher, Muhammad Mahmood Ali, Mohamed Bashir Ali Bashir, Asad A Zaidi, Muhammad Jamshaid, Iqra Javed, "*Effects of Cobalt Nanoparticle on Microstructure of Sn58Bi Solder Joint*", Journal of Materials Science: Materials in Electronics, 34(4) (2023) 248 [WoS-indexed]
- (198) B Naureen, BC Ang, F Muhamad, A Haseeb, WJ Basirun, "*Kappa-Carrageenan Modified Polyurethane Foam Scaffolds for Skeletal Muscle Tissue Engineering*", Journal of Polymers and the Environment, 31 (2023) 2653–2667 [WoS-indexed]
- (197) YC Wong, YH Wong, BC Ang, AA Baharuddin, A Haseeb, "*Effects of Polymerization Oxidants on the Fabrication of Electrospun PPy/WO<sub>3</sub> Composites*", Journal of Materials Science: Materials in Electronics, 34(1) (2023) 33 [WoS-indexed]
- (196) Ee Lynn Lee, Yi Sing Goh, A. S. M. A. Haseeb, Yew Hoong Wong, Mohd Faizul Mohd Sabri & Boon Yew Low, "*Electrochemical Migration in Electronic Materials: Factors Affecting the Mechanism and Recent Strategies for Inhibition*", Journal of the Electrochemical Society, 170 (2023) 021505 [WoS-indexed]
- (195) Yi Sing Goh, A. S. M. A. Haseeb, Wan Jeffrey Basirun, Yew Hoong Wong, Mohd Faizul Mohd Sabri, Boon Yew Low, "*Effects of Concentration of Adipic Acid on the Electrochemical Migration of Tin for Printed Circuit Board Assembly*", Journal of Electronic Materials, 52 (2023) 2236–2249 [WoS-indexed]
- (194) M Nasir Bashir, Hafiz Muhammad Saad, Muhammad Rizwan, Sedat Bingol, Iftikhar Ahmed Channa, Mustabshirha Gul, ASMA Haseeb, Sumsun Naher, "*Effect of Cobalt Nanoparticles on Mechanical Properties of Sn-58Bi Solder Joint*", Journal of Materials Science: Materials in Electronics, 33(28) (2022) 22573-22579 [WoS-indexed]
- (193) M Nasir Bashir, Hafiz Muhammad Saad, Muhammad Rizwan, MM Quazi, Muhammad Mahmood Ali, Arslan Ahmed, Asad A Zaidi, Manzoore Elahi M Soudagar, ASMA Haseeb, Sumsun Naher, "*Effects of Tin Particles Addition on Structural and Mechanical Properties of Eutectic Sn–58Bi Solder Joint*", Journal of Materials Science: Materials in Electronics 33(28) (2022) 22499-22507 [WoS-indexed]
- (192) Golnoush Zamiri; A. S. M. A. Haseeb, Priyanka Jagadish; Mohammad Khalid, Ing Kong, Syam Krishnan, "*Three-Dimensional Graphene-TiO<sub>2</sub>-SnO<sub>2</sub> Ternary Nanocomposite for High-Performance Asymmetric Supercapacitor*", ACS Omega, 7(48) 43981–43991 (2022) [WoS-indexed]
- (191) Mahmood Md Arifat, ASMA Haseeb, Shaifulazuar Rozali, Dermot Brabazon, BMA Rahman, Ken TV Grattan, Sumsun Naher, "*Synthesis of ZnO and CuO Nanowires by Thermal Oxidation on Metallic Substrates*", Key Engineering Materials 926 (2022) 1703-1712
- (190) D. Zhou, A.S.M.A. Haseeb, A. Andriyana, "*Mechanical Performance of Advanced Multicomponent Lead-Free Solder Alloy under Thermal Aging*", Materials Today Communications 33 (2022) 104430 [WoS-indexed]
- (189) Muhammad Nasir Bashir, A.S.M.A Haseeb, Saif Wakeel, Muhammad Ali Khan, M.M. Quazi, Niaz Bahadur Khan, Arslan Ahmed, Manzoore Elahi M Soudagar, "*Effect of Ni and Co Nanoparticle Doped Flux on Microstructure of SAC305 Solder Matrix*", Journal of Materials Science: Materials in Electronics (JMSE), 33 (2022) 20106–20120 [WoS-indexed]

- (188) S. Wakeel, A. S. M. A. Haseeb, M. A. Amalina and K. L. Hoon, “*Effects of Commercial No-Clean Flux on Reliability of Fine Pitch Flip-Chip Package with Solder Bumps and Copper Pillars*”, IEEE Transactions on Components, Packaging and Manufacturing Technology, 12(1) (2022) 155-167 [WoS-indexed]
- (187) S. Wakeel, A. S. M. A. Haseeb, M. A. Amalina and K. L. Hoon, “*Investigation into Chemistry and Performance of No-Clean Flux in Fine Pitch Flip-Chip Package*,” IEEE Transactions on Components, Packaging and Manufacturing Technology, 12 (2022) 155-167 [WoS-indexed]
- (186) Muhammad Nasir Bashir and A. S. M. A. Haseeb, ‘*Grain Size Stability of Interfacial Intermetallic Compound in Ni and Co Nanoparticle Doped SAC305 Solder Joints under Electromigration*’, Journal of Materials Science: Materials in Electronics, 33 (2022)14240–14248 [WoS-indexed]
- (185) NAA Hussein, HF Hawari, WY Hoong, A Haseeb, “*Preparation and Sensing Characterization of Hybrid Iron Oxide/Polyaniline/Reduced Graphene Oxide at Room Temperature*”, International Journal of Chemical and Biochemical Sciences, 20 (2021) 90-95
- (184) Golnoush Zamiri, A.S. M. A. Haseeb, Syam G. Krishnan, Arshid Numan, Priyanka Jagadish, Mohammad Khalid, ‘*Ternary Nanocomposite Cathodes Based on 3D Graphene-Ag Nanoparticle-Polyaniline for Hybrid Electrochemical Energy Device*’, Synthetic Metals, 282 (2021) 116932 [WoS-indexed]
- (183) M. M. Arafat, B. Dinan, A. S. M. A. Haseeb, S. A. Akbar, B. M. A. Rahman, S. Rozali, S. Naher, ‘*Growth of 1D TiO<sub>2</sub> Nanostructures on Ti Substrates Incorporated with Residual Stress through Humid Oxidation and their Characterizations*’, Nanotechnology, 32(47) (2021) 17. doi: 10.1088/1361-6528/ac1d77 [WoS-indexed]
- (182) E L Lee, A. S. M. A. Haseeb, W J Basirun, Y H Wong, M F M Sabri, B Y Low, ‘*In-situ Study of Electrochemical Migration of Tin in the Presence of Bromide Ion*’, Nature Scientific Reports 11 (1) (2021) 1-15 [WoS-indexed]
- (181) Aainaa Aqilah Baharuddin, Bee Chin Ang, A.S.M.A.Haseeb, Yew Hoong Wong, ‘*Improvement of N-ZnO Chemiresistive Gas Sensor toward Lower Detection Limit of Acetone and Ethanol at Low Operating Temperature*’, Materials Letters, 303 (2021) 130562 [WoS-indexed]
- (180) Bushra Naureen, A. S. M. A. Haseeb, W. J. Basirun, Farina Muhamad, ‘*Synthesis and Degradation of 3D Biodegradable Polyurethane Foam Scaffolds based on Poly (Propylene Fumarate) and Poly[(R)-3-Hydroxybutyrate]*’, Materials Today Communications, 28 (2021) 102536 [WoS-indexed]
- (179) Saif Wakeel, A. S. M. A. Haseeb, M.A. Afifi, Sedat Bingol, Khoo Ly Hoon, ‘*Constituents and Performance of No-Clean Flux for Electronic Solder*’, Microelectronic Reliability 123 (2021) 114177, <https://doi.org/10.1016/j.microrel.2021.114177> [WoS-indexed]
- (178) N. A. M. Zahri, F. Yusof, Y. Miyashita, T. Ariga, A. S. M. A. Haseeb, N. L. Sukiman, ‘*Effect of Porous Copper Pore Density on Joint Interface: Microstructure and Mechanical Analysis*’. Journal of Harbin Institute of Technology (New series). 2021, doi: 10.11916/j.ssn.1005-9113.2020056
- (177) N. A. M. Zahri, N.E.S. Shafee, F. Yusof, S.N. Musa, N. L. Sukiman, A.S.M.A. Haseeb, Y. Miyashita, T. Ariga, ‘*Interfacial Microstructure and Strength of Brazed Copper/Porous Copper Foam towards the Effect of Porous Copper Foam Pore Density and Brazing Holding Time*’, Material Science and Engineering Technology, 52 (6) (2021) 655-663 [WoS-indexed]
- (176) N. A. M Zahri, F. Yusof, Y. Miyashita, T. Ariga, A. S. M. A. Haseeb, N. L. Sukiman, ‘*Deformation and Fracture Behaviour of Sandwiched Copper Foam Brazed Joint Interface using Amorphous Copper-Tin-Nickel-Phosphorus Filler*’, Frontiers in Materials, 8 (2021) 665219, 8:665219. doi: 10.3389/fmats.2021.665219
- (175) Yi Sing Goh, Yingxin Goh, Pay Ying Chia & A. S. M. A. Haseeb, ‘*Formation and Nanomechanical Properties of Intermetallic Compounds in Electrodeposited Cu–Sn–Co Multilayers*’, Journal of Materials Science: Materials in Electronics, 32 (2021) 9490–9499 [WoS-indexed]
- (174) D. Zhou, A. Andriyana, A.S.M.A. Haseeb, Y.H. Wong, M.F.M. Sabri, B. Y. Low, X. S. Pang, P.L. Eu, L.C. Tan, ‘*A Parametric Study of Thermal Stress and Analysis of Creep Strain under Thermal Cyclic Loading in a Hybrid Quad Flat Package*’, IEEE Transactions on Components, Packaging and Manufacturing Technology, 11 (30) (2021) 435-443 [WoS-indexed]
- (173) Bushra Naureen, A. S. M. A. Haseeb, W.J. Basirun, Farina Muhamad, ‘*Recent Advances in Tissue Engineering Scaffolds Based on Polyurethane and Modified Polyurethane*’, Materials Science & Engineering C, C 118 (2021) 111228 [WoS-indexed]
- (172) G. Zamiri, A. S. M. A. Haseeb, ‘*Recent Trends and Developments in Graphene/Conducting Polymer Nanocomposites Chemiresistive Sensors*’, Materials, 13 (15) (2020) 3311
- (171) D. Zhou, A.S.M.A. Haseeb, A. Andriyana, Y.H. Wong, M.F.M. Sabri, B. Y. Low, S. Pang, P.L. Eu, L.C. Tan, ‘*Performance of a Hybrid Fine Pitch Quad Flat Package Mounted with a New Flux on Printed Circuit Board in Surface Insulation Resistance Test*’, Material Science and Engineering Technology, 51 (2020) 1353-1363 [WoS-indexed]
- (170) V Inderan, MM Arafat, A. S. M. A. Haseeb, S Kumar, HL Lee, ‘*Electrospun (Nickel and Palladium) Tin (IV) Oxide/Polyaniline/Polyhydroxy-3-Butyrate Biodegradable Nanocomposite Fibers for Low Temperature Ethanol Gas Sensing*’, Nanotechnology, 31 (2020) 425503(1-12) [WoS-indexed]
- (169) E. L. Lee, Y Goh, A. S. M. A. Haseeb, ‘*Growth and Mechanical Properties of Intermetallic Compound between*

- Solid Cobalt and Molten Tin*, Journal of Materials Science: Materials in Electronics, , 31(6) (2020) 4554-4562 [WoS-indexed]
- (168) M M Arafat, S Rozali, A. S. M. A. Haseeb and S Ibrahim, '*Direct and Catalyst-Free Synthesis of ZnO Nanowires on Brass by Thermal Oxidation*', Nanotechnology, 31 (2020) 175603 [WoS-indexed]
- (167) M.Z. Quadir, G. Singh, W.D.A. Rickard, A. S. M. A. Haseeb, '*Substructural Phenomena in Cu Wire Bond After Laser Assisted Manufacturing in Electronic Packaging*', Materials Letters, 259 (2020) 126833 [WoS-indexed]
- (166) Nur Amirah Mohd Zahri, Farazila Yusof, Yukio Miyashita, Tadashi Ariga, A. S. M. A. Haseeb, Nashrah Hani Jamadon, Nazatul Liana Sukiman, '*Brazing of Porous Copper Foam/Copper with Amorphous Cu-9.7Sn-5.7Ni-7.0P (wt%) Filler Metal: Interfacial Microstructure and Diffusion Behaviour*', Welding in the World, 64 (2020) 209–217 [WoS-indexed]
- (165) Yung Cheng Wong, Bee Chin Ang, A. S. M. A. Haseeb, Aainaa Aqilah Baharuddin, and Yew Hoong Wong, '*Conducting Polymers as Chemiresistive Gas Sensing Materials: A Review*', Journal of The Electrochemical Society, 167 (2019) 037503 [WoS-indexed]
- (164) Aainaa Aqilah Baharuddin, Bee Chin Ang, A. S. M. A. Haseeb, Yung Cheng Wong, Yew Hoong Wong, '*Advances in Chemiresistive Sensors for Acetone Gas Detection*', Materials Science in Semiconductor Processing 103 (2019) 104616 [WoS-indexed]
- (163) T. Tharsika, M. Thanishaichelvan, A.S.M.A. Haseeb, S.A. Akbar, '*Highly Sensitive and Selective Ethanol Sensor Based on ZnO Nanorod on SnO<sub>2</sub> Thin Film Fabricated by Spray Pyrolysis*', Frontiers in Materials, section Functional Ceramics, 6 (2019) 122, doi: 10.3389/fmats.2019.00122 [WoS-indexed]
- (162) Y. M. Leong, A. S. M. A. Haseeb, Hiroshi Nishikawa and Omid Mokhtari, '*Microstructure and Mechanical Properties of Sn-1.0Ag-0.5Cu Solder with Minor Zn Additions*', Journal of Materials Science: Materials in Electronics, 30 (2019) 11914-11922 [WoS-indexed]
- (161) Vicinivarri Inderan, M. M. Arafat, A. S. M. A. Haseeb, Kumar Sudesh and Hooi Ling Lee, '*A Comparative Study of Structural and Ethanol Gas Sensing Properties of Pure, Nickel and Palladium Doped SnO<sub>2</sub> Nanorods Synthesised by the Hydrothermal Method*', Journal of Physical Science, 30 (2019) 127–143.
- (160) Gurbinder Singh, A.S.M.A. Haseeb, '*Influence of Laser Power on Bonding Strength for Low Purity Copper Wire Bonding Technology*', Microelectronic Engineering, 211 (2019) 1-4.
- (159) N. K. Liyana, M. A. Fazal, A. S. M. A. Haseeb, Saeed Rubaiee, '*Effect of Zn Incorporation on the Electrochemical Corrosion Properties of SAC105 Solder Alloys*', Journal of Materials Science: Materials in Electronics (2019). <https://doi.org/10.1007/s10854-019-01055-z> [WoS-indexed]
- (158) Sadeem Abbas Fadhil, Mohsen A Hassan, A. S. M. A. Haseeb, Harith I Jaafar, Ekram Atta Al-Ajaj, Aoday Hashim Alrawi and Ibrahim Maher, '*Manufacturing of Porous Aluminum 2024 Alloy Samples with Impressive Compression Properties*', Materials Research Express, 6 (2019) 076509. <https://doi.org/10.1088/2053-1591/ab10af>
- (157) Nur Amirah Mohd Zahri, Farazila Yusof, Tadashi Ariga, A. S. Md. Abdul Haseeb, Muhammad Adil Mansoor and Nazatul Liana Sukiman, '*Open-Cell Copper Foam Joining: Joint Strength and Interfacial Behaviour*', Materials Science and Technology, 35 (16) (2019) 2004-2012 [WoS-indexed]
- (156) A. F. Khan, A. S. M. A. Haseeb, '*Study of Co/Sn Multilayer System with Various Tin Layer Thickness and Reflow Temperatures*', Surface Review and Letters, 26 (2019) 1850153 [WoS-indexed]
- (155) Gurbinder Singh, A. S. M. A. Haseeb, '*Application of Laser Heating and its Effects on Bonding Strengths for Varied Copper Wire Purity Levels*', Journal of Laser Applications, 30 (2018) 022004(1-5) [WoS-indexed]
- (154) M. A. Fazal, N. R. Suhaila, A. S. M. A. Haseeb, S. Rubaiee, '*Sustainability of Additive-Doped Biodiesel: Analysis of its Aggressiveness toward Metal Corrosion*', Journal of Cleaner Production, 181 (2018) 508-516 [WoS-indexed]
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- (152) M. N. Bashir, A. S. M. A. Haseeb, '*Improving Mechanical and Electrical Properties of Cu/SAC305/Cu Solder Joints under Electromigration by using Ni Nanoparticles Doped Flux*', Journal of Materials Science: Materials in Electronics, 29 (2018) 3182-3188 [WoS-indexed]
- (151) M. A. Fazal, N. R. Suhaila, A. S. M. A. Haseeb, S. Rubaiee, A. Al-Zahrani, '*Influence of Copper on the Instability and Corrosiveness of Palm Biodiesel and its Blends: An Assessment on Biodiesel Sustainability*', Journal of Cleaner Production, 171 (2018) 1407-1414 [WoS-indexed]
- (150) Y. Goh, Y. S. Goh, E. L. Lee, M. T. Ong, A. S. M. A. Haseeb, '*Formation and Characterization of Intermetallic Compounds in Electroplated Cobalt–Tin Multilayers*', Journal of Materials Science: Materials in Electronics, 29 (2018) 5791–5798 [WoS-indexed]
- (149) A. S. M. A. Haseeb, Abu Zayed Mohammad Saliquir Rahman, Pay Ying Chia, '*Nanoindentation Creep on Cu<sub>3</sub>Sn, Cu<sub>6</sub>Sn<sub>5</sub> and (Cu, Ni)<sub>6</sub>Sn<sub>5</sub> Intermetallic Compounds Grown in Electrodeposited Multilayered Thin Film*', Journal of Materials Science: Materials in Electronics, 29 (2018), 1258-1263 [WoS-indexed]
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- (143) A. S. M. A. Haseeb, M. M. Arafat, S. L. Tay, Y. M. Leong, 'Effects of Metallic Nanoparticles on Interfacial Intermetallic Compounds in Tin-Based Solders for Microelectronic Packaging', Journal of Electronic Materials, 46 (2017) 5503-5518 [WoS-indexed]
- (142) Vicinisvarri Inderan, M. Arafat, Sudesh Kumar, A. S. M. A. Haseeb, Zhong-Tao Jiang, Mohammednoor Altarawneh, Hooi-Ling Lee, 'Study of Structural Properties and Defects of Ni Doped SnO<sub>2</sub> Nanorods as Ethanol Gas Sensors', Nanotechnology, 28 (2017) 265702 (11pp) [WoS-indexed]
- (141) Kian Heng Goh, A. S. M. A. Haseeb, Yew Hoong Wong, 'Trap-assisted Tunneling, Capacitance-Voltage Characteristics, and Surface Properties of Sm<sub>2</sub>O<sub>3</sub> Thin Film on Si Substrate', Journal of Materials Science: Materials in Electronics, 28 (2017), 4725-4731 [WoS-indexed]
- (140) M. Fayeka, A. S. M. A. Haseeb, M. A. Fazal, 'Electrochemical Corrosion Behaviour of Pb-free SAC 105 and SAC 305 Solder Alloys: A Comparative Study' Sains Malaysiana, 46 (2017), 295-302 [WoS-indexed]
- (139) Y. Goh, A. S. M. A. Haseeb, 'Composition Estimation of Sn-Bi Alloy Electrodeposition using Polarization Curve', Journal of Materials Science: Materials in Electronics, 28 (2017) 11186-11191 [WoS-indexed]
- (138) M. M. Quazi, M. A. Fazal, A. S. M. A. Haseeb, Farazila Yusof, H. H. Masjuki, A. Arslan, 'Laser Composite Surfacing of Ni-WC Coating on AA5083 for Enhancing Tribo-Mechanical Properties', Tribology Transactions, 60 (2017) 249-259 [WoS-indexed]
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- (133) Pay Ying Chia, A. S. M. A. Haseeb, Samjid Hassan Mannan, 'Reactions in Electrodeposited Cu/Sn and Cu/Ni/Sn Nanoscale Multilayers for Interconnects', Materials, 9 (2016) pp. 1-14, Article Number: 430 [WoS-indexed]
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- (126) Kian Heng Goh, A.S.M.A. Haseeb, Yew Hoong Wong, 'Physical and Electrical Properties of Thermal Oxidized Sm<sub>2</sub>O<sub>3</sub> Gate Oxide Thin Film on Si Substrate: Influence of Oxidation Durations', Thin Solid Films, 606 (2016) 80-

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