# Muhamad Faiz Md Din

List of Publications by Year
in descending order



| 40 | 781 | 516710<br>16 | 526287<br>27 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 41 | 41 | 41 | 789 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Nanoflakes MgNiO2 synthesised via a simple hydrothermal method and its catalytic roles on the hydrogen sorption performance of MgH2. Journal of Alloys and Compounds, 2019, 796, 279-286. | 5.5 | 90 |
| 2 | Synthesis of BaFe12O19 by solid state method and its effect on hydrogen storage properties of MgH2. International Journal of Hydrogen Energy, 2018, 43, 20853-20860. | 7.1 | 74 |
| 3 | Nanolayer-like-shaped MgFe<sub>2</sub>O<sub>4</sub> synthesised via a simple hydrothermal method and its catalytic effect on the hydrogen storage properties of MgH<sub>2</sub>. RSC Advances, 2018, 8, 15667-15674. | 3.6 | 56 |
| 4 | Driving Magnetostructural Transitions in Layered Intermetallic Compounds. Physical Review Letters, 2013, 110, 217211. | 7.8 | 48 |
| 5 | A Review on Oil-Based Nanofluid as Next-Generation Insulation for Transformer Application. Journal of Nanomaterials, 2020, 2020, 1-17. | 2.7 | 40 |
| 6 | In-situ encapsulation of nickel nanoparticles in polypyrrole nanofibres with enhanced performance for supercapacitor. Electrochimica Acta, 2017, 249, 9-15. | 5.2 | 37 |
| 7 | Tuneable Magnetic Phase Transitions in Layered CeMn2Ge2-xSix Compounds. Scientific Reports, 2015, 5, 11288. | 3.3 | 34 |
| 8 | Desorption properties of LiAlH4 doped with LaFeO3 catalyst. International Journal of Hydrogen Energy, 2019, 44, 11953-11960. | 7.1 | 31 |
| 9 | The magnetocaloric effect and critical behaviour of the Mn<sub>0.94</sub>Ti<sub>0.06</sub>CoGe alloy. Journal of Physics Condensed Matter, 2013, 25, 056001. | 1.8 | 28 |
| 10 | The magneto-structural transition in Mn<sub>1â^'x</sub>Fe<sub>x</sub>CoGe. Journal Physics D: Applied Physics, 2016, 49, 175003. | 2.8 | 28 |
| 11 | Disordered spinel LiNi0.5Mn1.5O4 cathode with improved rate performance for lithium-ion batteries. Electrochimica Acta, 2016, 206, 374-380. | 5.2 | 28 |
| 12 | A critical review of the effects of fluid dynamics on graphene growth in atmospheric pressure chemical vapor deposition. Journal of Materials Research, 2018, 33, 1088-1108. | 2.6 | 28 |
| 13 | Effects of Cu substitution on structural and magnetic properties of La0.7Pr0.3Fe11.4Si1.6 compounds. Intermetallics, 2013, 36, 1-7. | 3.9 | 23 |
| 14 | Magnetic phase transitions and entropy change in layered NdMn1.7Cr0.3Si2. Applied Physics Letters, 2014, 104, 042401. | 3.3 | 23 |
| 15 | Ti substitution for Mn in MnCoGe â€“ The magnetism of Mn0.9Ti0.1CoGe. Journal of Alloys and Compounds, 2013, 577, 475-479. | 5.5 | 20 |
| 16 | Tuning the magnetic and structural transitions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>TbC</mml:mi><mml:msub><mml:mi mathvariant="normal">o</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math> compounds. Physical Review B, 2017, 96, . | 3.2 | 20 |
| 17 | Magnetic properties and magnetocaloric effect of NdMn2â^'xCuxSi2 compounds. Journal of Applied Physics, 2014, 115, 17A921. | 2.5 | 18 |
| 18 | Magnetic properties and magnetocaloric effect of NdMn<sub>2â^'x</sub>Ti<sub>x</sub>Si<sub>2</sub>compounds. Journal Physics D: Applied Physics, 2013, 46, 445002. | 2.8 | 17 |

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|---|---|---|---|
| 19 | Electrochemical Sodiation/Desodiation into Mn<sub>3</sub>O<sub>4</sub> Nanoparticles. ACS Omega, 2020, 5, 29158-29167. | 3.5 | 16 |
| 20 | Optimum Electrical and Dielectric Performance of Multi-Walled Carbon Nanotubes Doped Disposed Transformer Oil. Energies, 2020, 13, 3181. | 3.1 | 16 |
| 21 | The role of gas-phase dynamics in interfacial phenomena during few-layer graphene growth through atmospheric pressure chemical vapour deposition. Physical Chemistry Chemical Physics, 2020, 22, 3481-3489. | 2.8 | 14 |
| 22 | Study on Vanadium Substitution to Iron in Li2FeP2O7 as Cathode Material for Lithium-ion Batteries. Electrochimica Acta, 2014, 141, 195-202. | 5.2 | 12 |
| 23 | Magnetism and magnetic structures of PrMn<sub>2</sub>Ge<sub>2â^'x</sub>Si<sub>x</sub>. Journal of Physics Condensed Matter, 2013, 25, 386003. | 1.8 | 9 |
| 24 | Magnetocaloric effect and magnetostructural coupling in Mn0.92Fe0.08CoGe compound. Journal of Applied Physics, 2015, 117, 17D103. | 2.5 | 8 |
| 25 | Effects of Cr substitution on structural and magnetic properties in La0.7Pr0.3Fe11.4Si1.6 compound. Journal of Applied Physics, 2014, 115, 17A942. | 2.5 | 7 |
| 26 | Magnetism and Thermomechanical Properties in Si Substituted MnCoGe Compounds. Crystals, 2021, 11, 694. | 2.2 | 7 |
| 27 | Neutron diffraction study of MnNiGa2â€”Structural and magnetic behaviour. Journal of Applied Physics, 2014, 115, 17A904. | 2.5 | 6 |
| 28 | Kinetic studies of few-layer graphene grown by flame deposition from the perspective of gas composition and temperature. RSC Advances, 2019, 9, 21000-21008. | 3.6 | 6 |
| 29 | Magnetic transitions and the magnetocaloric effect in the Pr<sub>1â^'x</sub>Y<sub>x</sub>Mn<sub>2</sub>Ge<sub>2</sub> system. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1092-1100. | 1.8 | 5 |
| 30 | Anomalies in magnetoelastic properties of DyFe11.2Nb0.8 compound. Journal of Applied Physics, 2015, 117, . | 2.5 | 5 |
| 31 | Substitution of Y for Pr in PrMn2Ge2â€”The magnetism of Pr0.8Y0.2Mn2Ge2. Journal of Applied Physics, 2013, 113, 17E147. | 2.5 | 4 |
| 32 | Magnetic Properties and Magnetocaloric Effect in Layered NdMn<sub>1.9</sub>V<sub>0.1</sub>Si<sub>2</sub>. EPJ Web of Conferences, 2014, 75, 04001. | 0.3 | 4 |
| 33 | Effects of hydrogen during annealing process of graphene synthesis via chemical vapor deposition. Materials Today: Proceedings, 2019, 7, 675-685. | 1.8 | 4 |
| 34 | A comparative study of magnetic behaviors in TbNi2, TbMn2 and TbNi2Mn. Journal of Applied Physics, 2014, 115, 17E135. | 2.5 | 3 |
| 35 | Study of Heat Treatment Effect in MnCoGe Compound on Stucture and Electric Properties. Materials Science Forum, 0, 1010, 86-91. | 0.3 | 3 |
| 36 | Raman Spectroscopy Characterization of Mineral Oil and Palm Oil with Added Multi-Walled Carbon Nanotube for Application in Oil-Filled Transformers. Energies, 2022, 15, 1534. | 3.1 | 3 |

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|---|---|---|---|
| 37 | 57 Fe MÃ¶ssbauer and magnetic studies of Nd3Fe24.5Cr4.5. Hyperfine Interactions, 2015, 231, 65-74. | 0.5 | 2 |
| 38 | The Critical Behaviour and Magnetism of MnCoGe0.97Al0.03 Compounds. Crystals, 2022, 12, 205. | 2.2 | 2 |
| 39 | Publisherâ€™s Note: Driving Magnetostructural Transitions in Layered Intermetallic Compounds [Phys. Rev. Lett.110, 217211 (2013)]. Physical Review Letters, 2013, 110, . | 7.8 | 1 |
| 40 | Magnetoelastic coupling in DyFe11.4Nb0.6. Intermetallics, 2020, 125, 106864. | 3.9 | 0 |