

Azhar Ali Haidry

List of Publications by Year in descending order

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61
papers

2,027
citations

218381

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243296

44
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62
all docs

62
docs citations

62
times ranked

2259
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Resistive-type hydrogen gas sensor based on TiO ₂ : A review. International Journal of Hydrogen Energy, 2018, 43, 21114-21132. | 3.8 | 213 |
| 2 | Two-Dimensional Materials in Large-Areas: Synthesis, Properties and Applications. Nano-Micro Letters, 2020, 12, 66. | 14.4 | 172 |
| 3 | The influence of Nd substitution in Ni-Zn ferrites for the improved microwave absorption properties. Ceramics International, 2020, 46, 227-235. | 2.3 | 110 |
| 4 | Nanotubular Cr-doped TiO ₂ for use as high-temperature NO ₂ gas sensor. Sensors and Actuators B: Chemical, 2015, 217, 78-87. | 4.0 | 87 |
| 5 | Novel Cu ₂ ZnSnS ₄ /Pt/g-C ₃ N ₄ heterojunction photocatalyst with straddling band configuration for enhanced solar to fuel conversion. Applied Catalysis B: Environmental, 2020, 277, 119239. | 10.8 | 79 |
| 6 | Hydrothermal synthesis of Fe ₃ O ₄ /TiO ₂ /g-C ₃ N ₄ : Advanced photocatalytic application. Applied Surface Science, 2019, 488, 887-895. | 3.1 | 67 |
| 7 | Fast highly-sensitive room-temperature semiconductor gas sensor based on the nanoscale Pt-TiO ₂ -Pt sandwich. Sensors and Actuators B: Chemical, 2015, 207, 351-361. | 4.0 | 64 |
| 8 | Broadband high-performance electromagnetic wave absorption of Co-doped NiZn ferrite/polyaniline on MXenes. Ceramics International, 2020, 46, 10006-10015. | 2.3 | 64 |
| 9 | Excellent microwave absorption property of nano-Ni coated hollow silicon carbide core-shell spheres. Applied Surface Science, 2020, 508, 145261. | 3.1 | 61 |
| 10 | Studies of Z-scheme WO ₃ -TiO ₂ /Cu ₂ ZnSnS ₄ ternary nanocomposite with enhanced CO ₂ photoreduction under visible light irradiation. Journal of CO ₂ Utilization, 2020, 37, 260-271. | 3.3 | 61 |
| 11 | Effect of Pt/TiO ₂ interface on room temperature hydrogen sensing performance of memristor type Pt/TiO ₂ /Pt structure. Sensors and Actuators B: Chemical, 2017, 253, 1043-1054. | 4.0 | 59 |
| 12 | Characterization and hydrogen gas sensing properties of TiO ₂ thin films prepared by sol-gel method. Applied Surface Science, 2012, 259, 270-275. | 3.1 | 58 |
| 13 | The effect of Ag nanoparticles content on dielectric and microwave absorption properties of β -SiC. Ceramics International, 2020, 46, 5788-5798. | 2.3 | 57 |
| 14 | The effect of Co-doping on the humidity sensing properties of ordered mesoporous TiO ₂ . Applied Surface Science, 2017, 412, 638-647. | 3.1 | 56 |
| 15 | Acetone sensing applications of Ag modified TiO ₂ porous nanoparticles synthesized via facile hydrothermal method. Applied Surface Science, 2020, 533, 147383. | 3.1 | 52 |
| 16 | Trends in sputter deposited tungsten oxide structures for electrochromic applications: A review. Ceramics International, 2020, 46, 23295-23313. | 2.3 | 50 |
| 17 | Recent advances in the fabrication of 2D metal oxides. IScience, 2022, 25, 103598. | 1.9 | 45 |
| 18 | The effect of polymerization temperature and reaction time on microwave absorption properties of Co-doped ZnNi ferrite/polyaniline composites. RSC Advances, 2018, 8, 29344-29355. | 1.7 | 41 |

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|----|--|-----|-----------|
| 19 | Recent advances of atomically thin 2D heterostructures in sensing applications. Nano Today, 2021, 40, 101287. | 6.2 | 41 |
| 20 | Synthesis and high-performance microwave absorption of reduced graphene oxide/Co-doped ZnNi ferrite/polyaniline composites. Materials Letters, 2019, 236, 456-459. | 1.3 | 36 |
| 21 | Improving the humidity sensing below 30% RH of TiO ₂ with GO modification. Materials Research Bulletin, 2018, 99, 124-131. | 2.7 | 34 |
| 22 | The critical role of hydroxyl groups in water vapor sensing of graphene oxide. Nanoscale Advances, 2019, 1, 1319-1330. | 2.2 | 34 |
| 23 | Hydrogen gas sensors based on nanocrystalline TiO ₂ thin films. Open Physics, 2011, 9, . | 0.8 | 33 |
| 24 | Remarkable Improvement in Hydrogen Sensing Characteristics with Pt/TiO ₂ Interface Control. ACS Sensors, 2019, 4, 2997-3006. | 4.0 | 31 |
| 25 | Low dimensional materials for glucose sensing. Nanoscale, 2021, 13, 11017-11040. | 2.8 | 30 |
| 26 | Cost-effective fabrication of polycrystalline TiO ₂ with tunable n/p response for selective hydrogen monitoring. Sensors and Actuators B: Chemical, 2018, 274, 10-21. | 4.0 | 29 |
| 27 | The effect of Nb doping on hydrogen gas sensing properties of capacitor-like Pt/Nb-TiO ₂ /Pt hydrogen gas sensors. Journal of Alloys and Compounds, 2019, 806, 1052-1059. | 2.8 | 27 |
| 28 | Improved acetone sensing characteristics of TiO ₂ nanobelts with Ag modification. Journal of Alloys and Compounds, 2021, 887, 161312. | 2.8 | 27 |
| 29 | Hydrogen sensing and adsorption kinetics on ordered mesoporous anatase TiO ₂ surface. Applied Surface Science, 2020, 500, 144219. | 3.1 | 22 |
| 30 | Investigating the influence of Al-doping and background humidity on NO ₂ sensing characteristics of magnetron-sputtered SnO ₂ sensors. Journal of Sensors and Sensor Systems, 2015, 4, 271-280. | 0.6 | 21 |
| 31 | Facile one-step synthesis of TiO ₂ microrods surface modified with Cr ₂ O ₃ nanoparticles for acetone sensor applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 14546-14556. | 1.1 | 20 |
| 32 | Facile in-situ fabrication of TiO ₂ -Cu ₂ ZnSnS ₄ hybrid nanocomposites and their photoreduction of CO ₂ to CO/CH ₄ generation. Applied Surface Science, 2020, 529, 147005. | 3.1 | 19 |
| 33 | Facile synthesis of nitrogen doped ordered mesoporous TiO ₂ with improved humidity sensing properties. Journal of Alloys and Compounds, 2018, 742, 814-821. | 2.8 | 18 |
| 34 | Strong biaxial texture and polymorph nature in TiO ₂ thin film formed by ex-situ annealing on c-plane Al ₂ O ₃ surface. Journal of Crystal Growth, 2012, 338, 118-124. | 0.7 | 17 |
| 35 | In-situ synthesis of mesoporous TiO ₂ -Cu ₂ ZnSnS ₄ heterostructured nanocomposite for enhanced photocatalytic degradation. Applied Surface Science, 2020, 505, 144540. | 3.1 | 16 |
| 36 | Sensing mechanism of low temperature NO ₂ sensing with top-bottom electrode (TBE) geometry. Sensors and Actuators B: Chemical, 2016, 236, 874-884. | 4.0 | 14 |

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|----|--|-----|-----------|
| 37 | Influence of applied voltage on optimal performance and durability of tungsten and vanadium oxide co-sputtered thin films for electrochromic applications. <i>Applied Surface Science</i> , 2021, 536, 147873. | 3.1 | 14 |
| 38 | Strongly coupled Ag/TiO ₂ heterojunction: from one-step facile synthesis to effective and stable ethanol sensing performances. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 19219-19227. | 1.1 | 13 |
| 39 | Effect of Post-Deposition Annealing Treatment on the Structural, Optical and Gas Sensing Properties of TiO ₂ Thin Films. <i>Key Engineering Materials</i> , 0, 510-511, 467-474. | 0.4 | 12 |
| 40 | Sol-gel Synthesis of TiO ₂ With p-Type Response to Hydrogen Gas at Elevated Temperature. <i>Frontiers in Materials</i> , 2019, 6, . | 1.2 | 12 |
| 41 | Thermally reduced graphene oxide showing n- to p-type electrical response inversion with water adsorption. <i>Applied Surface Science</i> , 2020, 531, 147285. | 3.1 | 12 |
| 42 | Low-cost fabrication of highly sensitive room temperature hydrogen sensor based on ordered mesoporous Co-doped TiO ₂ structure. <i>Applied Physics Letters</i> , 2017, 111, . | 1.5 | 11 |
| 43 | In-situ synthesis of Cu ₂ ZnSnS ₄ /g-C ₃ N ₄ heterojunction for superior visible light-driven CO ₂ reduction. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 165, 110694. | 1.9 | 11 |
| 44 | Integrated Performance Monitoring of Three-Way Catalytic Converters by Self-Regenerative and Adaptive High-Temperature Catalyst and Sensors. <i>Advanced Engineering Materials</i> , 2016, 18, 728-738. | 1.6 | 9 |
| 45 | Influence of nanoscale TiO ₂ film thickness on gas sensing properties of capacitor-like Pt/TiO ₂ /Pt sensing structure. <i>Applied Surface Science</i> , 2020, 499, 143909. | 3.1 | 9 |
| 46 | Highly Sensitive Hydrogen Semiconductor Gas Sensor Operating at Room Temperature. <i>Procedia Engineering</i> , 2015, 120, 618-622. | 1.2 | 7 |
| 47 | A Double Layer Sensing Electrode of BaTi(1-x)Rh _x O ₃ /Al-Doped TiO ₂ for NO ₂ Detection above 600 °C. <i>Chemosensors</i> , 2016, 4, 8. | 1.8 | 6 |
| 48 | Effective use of biomass ash as an ultra-high humidity sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18502-18510. | 1.1 | 6 |
| 49 | Adsorption Kinetics of NO ₂ Gas on Pt/Cr-TiO ₂ /Pt-Based Sensors. <i>Chemosensors</i> , 2022, 10, 11. | 1.8 | 6 |
| 50 | Structure of Hydrogen Gas Sensing TiO ₂ Thin Films Prepared by Sol-Gel Method and their Comparison with Magnetron Sputtered Films. <i>Key Engineering Materials</i> , 2013, 543, 293-296. | 0.4 | 5 |
| 51 | Study on mechanical properties and X-band microwave absorption properties of ER/SiCp/SiCf ternary composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 540, 168450. | 1.0 | 5 |
| 52 | Adsorption kinetics and photocatalytic properties of Cu ₂ ZnSnS ₄ @porous g-C ₃ N ₄ for contaminant removal. <i>Materials Science in Semiconductor Processing</i> , 2022, 150, 106912. | 1.9 | 5 |
| 53 | Electromagnetic and microwave absorption performance of Ni _{0.4} Zn _{0.4} Co _{0.2} Fe ₂ O ₄ /polymethacrylimide foam synthesized via polymerization. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 16991-17002. | 1.1 | 4 |
| 54 | Investigations on niobium tungsten oxide thin films for optical modulation. <i>Journal of Materials Science</i> , 2022, 57, 5361-5373. | 1.7 | 3 |

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|----|---|-----|-----------|
| 55 | Low Temperature Gas Sensing with Novel Top-bottom Electrode Configuration. Procedia Engineering, 2015, 120, 245-248. | 1.2 | 2 |
| 56 | IR filtering properties of TiAlN/Cu/TiAlN coatings. Materials Research Express, 2019, 6, 055511. | 0.8 | 2 |
| 57 | Properties of Metal Oxide Gas Sensors with Electrodes Placed below the Sensing Layer. Key Engineering Materials, 2014, 605, 527-530. | 0.4 | 1 |
| 58 | Structure and Epitaxial Behavior of Rutile TiO ₂ Thin Films Prepared by DC Magnetron Sputtering and Ex-Situ Annealing. Key Engineering Materials, 0, 605, 487-490. | 0.4 | 1 |
| 59 | P2.0.5 Studies of Hydrogen Gas Sensing Properties of Anatase TiO ₂ Thin Films Prepared by Magnetron Sputtering. , 2012, , . | | 1 |
| 60 | GO-modified P(VDF-TrFE) fibrous membrane for humidity sensing applications in vacuum insulation panels. Materials Letters, 2022, 313, 131773. | 1.3 | 1 |
| 61 | Metal oxide gas sensors on the nanoscale. , 2014, , . | | 0 |