

Adil Raza

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Systems Evaluation through New Grey Relational Analysis Approach: An Application on Thermal Conductivityâ€™Petrophysical Parametersâ€™ Relationships. Processes, 2019, 7, 348.	1.3	24
6	Solvothermal Synthesis of p-type Cu ₂ ZnSnS ₄ -Based Nanocrystals and Photocatalytic Properties for Degradation of Methylene Blue. Catalysis Letters, 2017, 147, 1844-1850.	1.4	22
7	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
8	The visible light-driven highly efficient photocatalytic properties of Cu ₂ ZnSnS ₄ nanoparticles synthesized by a hydrothermal method. New Journal of Chemistry, 2021, 45, 1743-1752.	1.4	19
9	Effect of selenization temperature on the properties of Sb ₂ Se ₃ thin films and solar cells by two-step method. Journal of Materials Science: Materials in Electronics, 2019, 30, 19871-19879.	1.1	18
10	Improvement of CZTSSe thin film solar cell by introducing a three-layer structure precursor. Materials Letters, 2016, 172, 90-93.	1.3	17
11	Influence of Ge layer location on performance of flexible CZTSSe thin film solar cell. Vacuum, 2019, 165, 186-192.	1.6	16
12	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
13	Effect of evaporated Sb layer on performance of flexible CZTSSe thin film solar cell. Solar Energy, 2019, 193, 267-274.	2.9	15
14	Flexible CZTSSe thin film solar cells fabricated at low temperature with relieved residual stress by Sb incorporation. Ceramics International, 2020, 46, 1982-1989.	2.3	14
15	In-situ synthesis of Cu ₂ ZnSnS ₄ /g-C ₃ N ₄ heterojunction for superior visible light-driven CO ₂ reduction. Journal of Physics and Chemistry of Solids, 2022, 165, 110694.	1.9	11
16	Polymer Microfibers Incorporated with Silver Nanoparticles: a New Platform for Optical Sensing. Nanoscale Research Letters, 2019, 14, 270.	3.1	9
17	Effect of TiN diffusion barrier layer on residual stress and carrier transport in flexible CZTSSe solar cells. Ceramics International, 2022, 48, 19891-19899.	2.3	9
18	Effects of ethyl acetate additive on Cu ₂ ZnSnS ₄ solar cells fabricated with a facile dimethylformamide-based solution coating process. Ceramics International, 2021, 47, 6262-6269.	2.3	6

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19	Construction of Fe ₃ O ₄ bridged Pt/g-C ₃ N ₄ heterostructure with enhanced solar to fuel conversion. Applied Surface Science, 2022, 592, 153159.	3.1	6
20	Passivation properties of alumina for multicrystalline silicon nanostructure prepared by spin-coating method. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	5
21	Adsorption kinetics and photocatalytic properties of Cu ₂ ZnSnS ₄ @porous g-C ₃ N ₄ for contaminant removal. Materials Science in Semiconductor Processing, 2022, 150, 106912.	1.9	5
22	Formation of Inverted Pyramid-Like Submicron Structures on Multicrystalline Silicon Using Nitric Acid as Oxidant in Metal Assisted Chemical Etching Process. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800636.	0.8	3
23	Improvement of conduction band offset and efficiency of Cu ₂ ZnSn(S,Se) ₄ thin film solar cells by Cd alloying. Materials Science in Semiconductor Processing, 2020, 120, 105356.	1.9	3
24	Investigation on optical temperature sensing behaviour <i>via</i> Ag island-enhanced luminescence doped I ² -NaGdF ₄ :Yb ³⁺ /Tm ³⁺ films/microfibers. RSC Advances, 2021, 11, 36569-36576.	1.7	3
25	Performance enhancement of Cu ₂ ZnSn(S,Se) ₄ solar cell by inserting Sb and Sb ₂ Se ₃ doping layer at the bottom of CZTS precursor. Materials Research Express, 2019, 6, 125920.	0.8	2
26	IR filtering properties of TiAlN/Cu/TiAlN coatings. Materials Research Express, 2019, 6, 055511.	0.8	2
27	Performance enhancement of flexible CZTSSe solar cells on optimized roughness substrate. Optical Engineering, 2018, 57, 1.	0.5	2
28	Effect of selenium partial pressure on the performance of Cu ₂ ZnSn(S, Se) ₄ solar cells. Journal of Materials Science: Materials in Electronics, 2020, 31, 8662-8669.	1.1	1