

Abhishek Ghosh

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,082
citations

430874

18
h-index

454955

30
g-index

56
all docs

56
docs citations

56
times ranked

971
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of analytical hierarchy process (AHP) for flood risk assessment: a case study in Malda district of West Bengal, India. <i>Natural Hazards</i> , 2018, 94, 349-368.	3.4	160
2	High temperature CO ₂ sensing and its cross-sensitivity towards H ₂ and CO gas using calcium doped ZnO thin film coated langasite SAW sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 126958.	7.8	71
3	Volatile organic compound sensing using copper oxide thin films: Addressing the cross sensitivity issue. <i>Journal of Alloys and Compounds</i> , 2017, 692, 108-118.	5.5	60
4	On the role of precipitates in controlling microstructure and mechanical properties of Ag and Sn added 7075 alloys during artificial ageing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 738, 399-411.	5.6	55
5	Soil erosion susceptibility assessment using logistic regression, decision tree and random forest: study on the Mayurakshi river basin of Eastern India. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	50
6	Influence of homogenisation time on evolution of eutectic phases, dispersoid behaviour and crystallographic texture for Al–Zn–Mg–Cu–Ag alloy. <i>Journal of Alloys and Compounds</i> , 2019, 802, 276-289.	5.5	42
7	Modeling the sensing characteristics of chemi-resistive thin film semi-conducting gas sensors. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23431-23443.	2.8	41
8	Microstructure and texture development of 7075 alloy during homogenisation. <i>Philosophical Magazine</i> , 2018, 98, 1470-1490.	1.6	40
9	Phase transformation and dispersoid evolution for Al-Zn-Mg-Cu alloy containing Sn during homogenisation. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1-12.	5.8	40
10	High-Temperature Gas Sensors for Harsh Environment Applications: A Review. <i>Clean - Soil, Air, Water</i> , 2019, 47, 1800491.	1.1	39
11	Sensitive and selective CO ₂ gas sensor based on CuO/ZnO bilayer thin-film architecture. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163871.	5.5	39
12	Engineered spinel–perovskite composite sensor for selective carbon monoxide gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 128-140.	7.8	32
13	High-Sensitivity Micro-Gas Chromatograph–Photoionization Detector for Trace Vapor Detection. <i>ACS Sensors</i> , 2021, 6, 2348-2355.	7.8	30
14	CO ₂ Sensing Behavior of Calcium-Doped ZnO Thin Film: A Study To Address the Cross-Sensitivity of CO ₂ in H ₂ and CO Environment. <i>Langmuir</i> , 2019, 35, 10267-10275.	3.5	27
15	Understanding on the selective carbon monoxide sensing characteristics of copper oxide-zinc oxide composite thin films. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 685-696.	7.8	26
16	Development of ultrafine grained Al–Zn–Mg–Cu alloy by equal channel angular pressing: microstructure, texture and mechanical properties. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	3.8	25
17	Tensile and impact behaviour of thermo mechanically treated and micro-alloyed medium carbon steel bar. <i>Construction and Building Materials</i> , 2018, 192, 657-670.	7.2	24
18	Flood Severity assessment of the coastal tract situated between Muriganga and Saptamukhi estuaries of Sundarban delta of India using Frequency Ratio (FR), Fuzzy Logic (FL), Logistic Regression (LR) and Random Forest (RF) models. <i>Regional Studies in Marine Science</i> , 2021, 42, 101624.	0.7	20

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19	Quantitative approach on erosion hazard, vulnerability and risk assessment: case study of Murigangaâ€“Saptamukhi interfluve, Sundarban, India. <i>Natural Hazards</i> , 2017, 87, 1709-1729.	3.4	19
20	Deformation and annealing behaviour of dual phase TWIP steel from the perspective of residual stress, faults, microstructures and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 733, 43-58.	5.6	16
21	Addressing the selectivity issue of cobalt doped zinc oxide thin film iso-butane sensors: Conductance transients and principal component analyses. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	14
22	3D FEM simulation of Al-Zn-Mg-Cu alloy during multi-pass ECAP with varying processing routes. <i>Materials Today Communications</i> , 2021, 26, 102112.	1.9	13
23	Integration of RS-GIS with Frequency Ratio, Fuzzy Logic, Logistic Regression and Decision Tree Models for Flood Susceptibility Prediction in Lower Gangetic Plain: A Study on Malda District of West Bengal, India. <i>Journal of the Indian Society of Remote Sensing</i> , 2022, 50, 1725-1745.	2.4	13
24	Miniaturized langasite MEMS micro-cantilever beam structured resonator for high temperature gas sensing. <i>Smart Materials and Structures</i> , 2020, 29, 055002.	3.5	12
25	Understanding the evolution of microstructural features in the in-situ intermetallic phase reinforced Al/Al ₃ Ti nanocomposite. <i>Materials Today: Proceedings</i> , 2018, 5, 10118-10130.	1.8	11
26	Langasite-based surface acoustic wave resonator for acetone vapor sensing. <i>Smart Materials and Structures</i> , 2020, 29, 015039.	3.5	11
27	Understanding the anomalous conduction behavior in n ⁺ type tungsten oxide thin film during hydrogen gas sensing: Kinetic analyses of conductance transients. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 949-957.	7.8	10
28	Hematite iron oxide nano-particles: facile synthesis and their chemi-resistive response towards hydrogen. <i>Materials Research Express</i> , 2015, 2, 055901.	1.6	10
29	Multi-layered zinc oxide-graphene composite thin films for selective nitrogen dioxide sensing. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	10
30	Effect of beam current on the microstructure, crystallographic texture and mechanical properties of electron beam welded high purity niobium. <i>Materials Characterization</i> , 2021, 179, 111318.	4.4	10
31	Selective H ₂ sensing using lanthanum doped zinc oxide thin film: A study of temperature dependence H ₂ sensing effect on carrier reversal activity. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	9
32	Integrated microfluidic helium discharge photoionization detectors. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129504.	7.8	9
33	Vulnerability assessment through index modeling: a case study in Murigangaâ€“Saptamukhi estuarine interfluve, Sundarban, India. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	1.3	9
34	Catalytic oxidation and selective sensing of carbon monoxide for sense and shoot device using ZnOâ€“CuO hybrids. <i>Materialia</i> , 2019, 5, 100177.	2.7	8
35	Experimental Coupling of a MEMS Gas Chromatograph and a Mass Spectrometer for Organic Analysis in Space Environments. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1718-1729.	2.7	8
36	Investigation of phase evolution of Alâ€“Siâ€“Mg coating on hot dipped interstitial-free steel. <i>Results in Materials</i> , 2020, 6, 100078.	1.8	8

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37	Multilayered and Chemiresistive Thin and Thick Film Gas Sensors for Air Quality Monitoring. , 2020, , .		8
38	Effect of heat treatment and severe plastic deformation on microstructure and texture evolution of 7075 alloy. Materials Today: Proceedings, 2020, 33, 5239-5242.	1.8	7
39	Influence of temperature on microstructure, crystallographic texture and mechanical properties of EN AW 6016 alloy during plane strain compression. Materials Today Communications, 2021, 26, 101808.	1.9	7
40	Monitoring estuarine morphodynamics through quantitative techniques and GIS: A Case study in Sagar Island, India. Journal of Coastal Conservation, 2019, 23, 133-148.	1.6	6
41	Sensitivity analysis of multilayered C-axis inclined zigzag zinc oxide thin-film bulk acoustic resonators for CO ₂ concentration monitoring. Mechanics of Advanced Materials and Structures, 2021, 28, 699-708.	2.6	5
42	MEMS GC Column Performance for Analyzing Organics and Biological Molecules for Future Landed Planetary Missions. Frontiers in Astronomy and Space Sciences, 2022, 9, .	2.8	5
43	Flow behavior and strain rate sensitivity assessment of β^3 and β^1 phases in Co-Al-W-based superalloy using experimental and computational approaches. Journal of Materials Research and Technology, 2022, 18, 4617-4630.	5.8	5
44	Total Extraction as a Treatment for Anaemia in a Patient of Glanzmann's Thrombasthenia with Chronic Gingival Bleed: Case Report. Journal of Clinical and Diagnostic Research JCDR, 2016, 10, ZD11-2.	0.8	3
45	O to T Flap for Central Forehead Defect Reconstruction. Journal of Maxillofacial and Oral Surgery, 2020, 19, 523-526.	1.4	3
46	â€²Suturelessâ€² transconjunctival approach for infraorbital rim fractures. Contemporary Clinical Dentistry, 2015, 6, 56.	0.7	3
47	Selective hydrogen sensing by cobalt doped ZnO thin films: A study on carrier reversal conductivity. , 2015, , .		2
48	Spatiotemporal changes of geomorphic environment in the Murigangaâ€™Saptamukhi estuarine interfluvium of Indian Sundarban in the context of climate change: a case study. Environment, Development and Sustainability, 2018, 20, 1153-1172.	5.0	2
49	Parametric optimization of WEDM for EN AW 7075 alloy processed by ECAP. Materials Today: Proceedings, 2020, 33, 5279-5283.	1.8	2
50	Impact of Climatic Variations on Drug-induced Skin Reactions in Two Different Regions of India. Current Drug Safety, 2021, 16, 90-96.	0.6	2
51	Process Form Responses of Shoreline Erosion Using Geo-Spatial Techniques: Case Study in Muriganga-Saptamukhi Interfluvium, Sundarban. Earth Science India, 2017, 10, .	0.1	1
52	Accidental Ingestion of Removable Partial Denture, Leading to Tracheoesophageal Fistula. Journal of Maxillofacial and Oral Surgery, 0, , 1.	1.4	0
53	Bilateral Tunnelized FAMM Islanded Flap for Reconstruction of Composite Defect of Tongue and Floor of Mouth: A Case Report. Journal of Maxillofacial and Oral Surgery, 2024, 23, 49-52.	1.4	0
54	Phase Formation Behavior and Hydrogen Sensing Characteristics of Iron Oxide Nano-Particles Synthesized by Modified Pechini Route. Materials Focus, 2016, 5, 119-122.	0.4	0

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55	Consistent Level IIa Node as a Surgical Landmark for Identification of Spinal Accessory Nerve. Journal of Clinical and Diagnostic Research JCDR, 0, , .	0.8	0
56	CO2 sensing characteristics of SAW sensor operated at high temperature. , 2019, , .		0