

Ioannis K Kortidis

List of Publications by Year in descending order

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36
papers

999
citations

361296
20
h-index

434063
31
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36
all docs

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docs citations

36
times ranked

1186
citing authors

#	ARTICLE	IF	CITATIONS
1	Characteristics of point defects on the room temperature ferromagnetic and highly NO ₂ selectivity gas sensing of p-type Mn ₃ O ₄ nanorods. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 92-107.	4.0	82
2	Assessing the sustainability of acid mine drainage (AMD) treatment in South Africa. <i>Science of the Total Environment</i> , 2018, 635, 793-802.	3.9	68
3	Mechanical properties of ZnO thin films deposited on polyester substrates used in flexible device applications. <i>Thin Solid Films</i> , 2010, 519, 325-330.	0.8	63
4	Ultra-sensitive and selective p-xylene gas sensor at low operating temperature utilizing Zn doped CuO nanoplatelets: Insignificant vestiges of oxygen vacancies. <i>Journal of Colloid and Interface Science</i> , 2020, 576, 364-375.	5.0	51
5	Designing SnO ₂ Nanostructure-Based Sensors with Tailored Selectivity toward Propanol and Ethanol Vapors. <i>ACS Omega</i> , 2019, 4, 13696-13709.	1.6	50
6	Advocating circular economy in wastewater treatment: Struvite formation and drinking water reclamation from real municipal effluents. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103957.	3.3	46
7	Correlating the magnetism and gas sensing properties of Mn-doped ZnO films enhanced by UV irradiation. <i>RSC Advances</i> , 2016, 6, 26227-26238.	1.7	45
8	Defect-induced magnetism in undoped and Mn-doped wide band gap zinc oxide grown by aerosol spray pyrolysis. <i>Applied Surface Science</i> , 2014, 311, 14-26.	3.1	43
9	Photocatalytic facile ZnO nanostructures for the elimination of the antibiotic sulfamethoxazole in water. <i>Journal of Water Process Engineering</i> , 2020, 36, 101299.	2.6	39
10	Study of low temperature rf-sputtered Mg-doped vanadium dioxide thermochromic films deposited on low-emissivity substrates. <i>Thin Solid Films</i> , 2016, 601, 99-105.	0.8	37
11	Temperature-dependent response to C ₃ H ₇ OH and C ₂ H ₅ OH vapors induced by deposition of Au nanoparticles on SnO ₂ /NiO hollow sphere-based conductometric sensors. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128041.	4.0	36
12	Structural and optical properties of ZnO nanostructures grown by aerosol spray pyrolysis: Candidates for room temperature methane and hydrogen gas sensing. <i>Applied Surface Science</i> , 2013, 279, 142-149.	3.1	35
13	Environmental sustainability of municipal wastewater treatment through struvite precipitation: Influence of operational parameters. <i>Journal of Cleaner Production</i> , 2021, 285, 124856.	4.6	35
14	Ultra-low gas sensing utilizing metal oxide thin films. <i>Vacuum</i> , 2012, 86, 495-506.	1.6	33
15	Structural analysis of aerosol spray pyrolysis ZnO films exhibiting ultra low ozone detection limits at room temperature. <i>Thin Solid Films</i> , 2009, 518, 1208-1213.	0.8	26
16	The effect of stabilized ZnO nanostructures green luminescence towards LPG sensing capabilities. <i>Materials Chemistry and Physics</i> , 2020, 242, 122452.	2.0	26
17	Facile control of room temperature nitrogen dioxide gas selectivity induced by copper oxide nanoplatelets. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 755-768.	5.0	26
18	Electronic and Simple Oscillatory Conduction in Ferrite Gas Sensors: Gas-Sensing Mechanisms, Long-Term Gas Monitoring, Heat Transfer, and Other Anomalies. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43231-43249.	4.0	26

#	ARTICLE	IF	CITATIONS
19	Insightful acetone gas sensing behaviour of Ce substituted MgFe ₂ O ₄ spinel nano-ferrites. Journal of Materials Research and Technology, 2020, 9, 16252-16269.	2.6	23
20	Detailed understanding on the relation of various pH and synthesis reaction times towards a prominent low temperature H ₂ S gas sensor based on ZnO nanoplatelets. Results in Physics, 2019, 12, 2189-2201.	2.0	22
21	Wastewater treatment valorisation by simultaneously removing and recovering phosphate and ammonia from municipal effluents using a mechano-thermo activated magnesite technology. Journal of Environmental Management, 2019, 250, 109493.	3.8	21
22	A study on the sensing of NO ₂ and O ₂ utilizing ZnO films grown by aerosol spray pyrolysis. Materials Chemistry and Physics, 2015, 162, 628-639.	2.0	20
23	Orientation-dependent low field magnetic anomalies and room-temperature spintronic material " Mn doped ZnO films by aerosol spray pyrolysis. Journal of Alloys and Compounds, 2013, 579, 485-494.	2.8	19
24	Selective detection of propanol vapour at low operating temperature utilizing ZnO nanostructures. Ceramics International, 2019, 45, 16417-16423.	2.3	19
25	Low temperature rf-sputtered thermochromic VO ₂ films on flexible glass substrates. Advanced Materials Letters, 2017, 8, 757-761.	0.3	16
26	Highly Sensitive InO _x /Ozone Sensing Films on Flexible Substrates. Journal of Sensors, 2009, 2009, 1-5.	0.6	12
27	Structure-property relationship of the laser clad medium carbon steel: The use of butter layer between the substrate and the top clad layer. Surfaces and Interfaces, 2019, 14, 296-304.	1.5	12
28	Extremely sensitive and selective flammable liquefied hydrocarbon gas sensing and inter-dependence of fluctuating operating temperature and resistance: Perspective of rare-earth doped cobalt nanoferrites. Journal of Alloys and Compounds, 2021, 859, 157846.	2.8	12
29	An instant photo-excited electrons relaxation on the photo-degradation properties of TiO _{2-x} films. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 293, 72-80.	2.0	11
30	Room temperature ferromagnetism and CH ₄ gas sensing of titanium oxynitride induced by milling and annealing. Materials Chemistry and Physics, 2017, 193, 512-523.	2.0	8
31	Ageing Resistant Indium Oxide Ozone Sensing Films. Sensor Letters, 2016, 14, 563-566.	0.4	8
32	On the growth of transparent conductive oxide ternary alloys Zn _{1-x} Ir _x O (ZIRO) by the means of rf magnetron co-sputtering. Thin Solid Films, 2016, 617, 3-8.	0.8	7
33	Optical constants correlated electrons-spin of micro doughnuts of Mn-doped ZnO films. Applied Surface Science, 2013, 280, 79-88.	3.1	6
34	Tribological investigation of piezoelectric ZnO films for rolling contact-based energy harvesting and sensing applications. Thin Solid Films, 2014, 555, 68-75.	0.8	6
35	On the Road to Inexpensive, sub-ppb, Room Temperature Ozone Detectors. Sensor Letters, 2008, 6, 812-816.	0.4	6
36	Effect of Gold Doping on the Structural, Electrical and Volatile Sensitivity of Spray Pyrolysis ZnO Thin Films. Sensor Letters, 2011, 9, 1712-1717.	0.4	4