

# Venkata Krishna Karthik Tangirala

List of Publications by Year  
in descending order

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37  
papers

454  
citations

933447  
10  
h-index

713466  
21  
g-index

40  
all docs

40  
docs citations

40  
times ranked

554  
citing authors

#	ARTICLE	IF	CITATIONS
1	CO2 sensing performance enhanced by Pt-catalyzed SnO2/porous-silicon hybrid structures. Sensors International, 2022, 3, 100165.	8.4	3
2	Synthesis of Hydronium-Potassium Jarosites: The Effect of pH and Aging Time on Their Structural, Morphological, and Electrical Properties. Minerals (Basel, Switzerland), 2021, 11, 80.	2.0	9
3	One dimensional Au-ZnO hybrid nanostructures based CO2 detection: Growth mechanism and role of the seed layer on sensing performance. Sensors and Actuators B: Chemical, 2021, 337, 129765.	7.8	68
4	High CO2 sensing responses of Câ€“H functionalized graphene oxide. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	1
5	ZnO Films Incorporation Study on Macroporous Silicon Structure. Materials, 2021, 14, 3697.	2.9	7
6	Copper-Doped ZnO Thin Films Deposited by Spray Pyrolysis: Effect of Water Content in Starting Solution on Methylene Blue Degradation by Photocatalysis. Journal of Electronic Materials, 2021, 50, 5542-5552.	2.2	7
7	Paracetamol-Assisted Self-Assembled ZnO Porous Microstructures for Enhanced CO2 Detection. Journal of Electronic Materials, 2021, 50, 2057-2065.	2.2	1
8	CO2 sensing properties of WO3 powder: experimental and theoretical studies. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	7
9	Undoped and Nickel-Doped Zinc Oxide Thin Films Deposited by Dip Coating and Ultrasonic Spray Pyrolysis Methods for Propane and Carbon Monoxide Sensing Applications. Sensors, 2020, 20, 6879.	3.8	4
10	Effect of Au and Ag contacts on the CO sensitivity of SnO2 thick films. Journal of Materials Science: Materials in Electronics, 2020, 31, 7481-7489.	2.2	2
11	Sprayed ZnO thin films for gas sensing: effect of substrate temperature, molarity and precursor solution. Journal of Materials Science: Materials in Electronics, 2020, 31, 7470-7480.	2.2	15
12	Nitrogen-Doped Carbon Dots Induced Enhancement in CO2 Sensing Response From ZnOâ€“Porous Silicon Hybrid Structure. Frontiers in Chemistry, 2020, 8, 291.	3.6	18
13	PelÃculas de ZnO para sensado de gas CO2. TEPEXI BoletÃn CientÃfico De La Escuela Superior Tepeji Del RÃo, 2020, 7, 5-8.	0.0	0
14	Low temperature facile synthesis of ZnO nuts and needle like microstructures. Materials Letters, 2019, 246, 56-59.	2.6	10
15	Optimization of Ge substrates for ZnO deposition and their application for CO2 detection. Journal of Materials Science: Materials in Electronics, 2019, 30, 6660-6668.	2.2	7
16	DiseÃ±o y fabricaciÃ³n del equipo de rocÃe quÃmico asistido por ultra sonicaciÃ³n. TEPEXI BoletÃn CientÃfico De La Escuela Superior Tepeji Del RÃo, 2019, 6, 14-19.	0.0	1
17	The role of Eu on the thermoluminescence induced by gamma radiation in nano hydroxyapatite. Journal of Materials Science: Materials in Electronics, 2018, 29, 15579-15586.	2.2	6
18	Porous silicon ZnO/SnO2 structures for CO2 detection. Journal of Alloys and Compounds, 2018, 731, 853-863.	5.5	55

#	ARTICLE	IF	CITATIONS
19	Effect of Solvent on the Structural Properties of Iron and Cobalt Oxides. , 2018, , .		0
20	Wet chemical synthesis of nanocrystalline hydroxyapatite flakes: effect of pH and sintering temperature on structural and morphological properties. Royal Society Open Science, 2018, 5, 180962.	2.4	77
21	Effect of doping concentration, solvent proportions and solution aging on the figure of merit of chemically sprayed ZnO:F thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 15821-15828.	2.2	7
22	ZnO thin films as propane sensors: Band structure models to explicate the dependence between the structural and morphological properties on gas sensitivity. Journal of Physics and Chemistry of Solids, 2017, 106, 16-28.	4.0	6
23	Hydrothermal synthesis and characterization of hydroxyapatite microstructures. , 2017, , .		4
24	Structural and morphological analysis of laminated graphene oxide by Modified-Hummers method. , 2017, , .		0
25	Influence of PVP on the optical and morphological properties of silver nano particles. , 2017, , .		1
26	A Study of the CO Sensing Responses of Cu-, Pt- and Pd-Activated SnO <sub>2</sub> Sensors: Effect of Precipitation Agents, Dopants and Doping Methods. Sensors, 2017, 17, 1011.	3.8	33
27	CO Gas Sensing Properties of Pure and Cu-Incorporated SnO <sub>2</sub> Nanoparticles: A Study of Cu-Induced Modifications. Sensors, 2016, 16, 1283.	3.8	32
28	Effect of Al <sub>2</sub> O <sub>3</sub> on the morphological and gas sensing properties of SnO <sub>2</sub> pellets. , 2016, , .		0
29	Sputtering temperature dependent growth kinetics and CO <sub>2</sub> sensing properties of ZnO deposited over porous silicon. Superlattices and Microstructures, 2016, 98, 8-17.	3.1	15
30	Green synthesis of S-doped rod shaped anatase TiO <sub>2</sub> microstructures. Materials Letters, 2016, 183, 211-214.	2.6	15
31	Effect of doping method on the morphological and gas sensing properties of Pt:SnO <sub>2</sub> pellets. , 2015, , .		1
32	Sensing properties of undoped and Pt-doped SnO <sub>2</sub> thin films deposited by chemical spray. Materials Science in Semiconductor Processing, 2015, 37, 143-150.	4.0	10
33	Low-Temperature Synthesis and Gas Sensitivity of Perovskite-Type LaCoO <sub>3</sub> Nanoparticles. Journal of Nanomaterials, 2014, 2014, 1-8.	2.7	21
34	Surface modified tin oxide pellets for CO gas sensing. , 2014, , .		2
35	Sensors Based on Tin Oxide Pellets. Sensor Letters, 2014, 12, 1513-1518.	0.4	1
36	Manufacturing of tin oxide pellets and their application for CO and C <sub>3</sub> H <sub>8</sub> gas sensors. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
37	Synthesis of tin oxide powders by homogeneous precipitation. Structural and morphological characterization. , 2012, , .		5