## Cristian Eugen Simion

List of Publications by Year in descending order

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516710 395702 1,601 35 16 33 citations g-index h-index papers 35 35 35 2111 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Influence of humidity on CO sensing with p-type CuO thick film gas sensors. Sensors and Actuators B: Chemical, 2011, 153, 347-353.	7.8	471
2	Modeling of sensing and transduction for p-type semiconducting metal oxide based gas sensors. Journal of Electroceramics, 2010, 25, 11-19.	2.0	340
3	CO sensing mechanism with WO3 based gas sensors. Sensors and Actuators B: Chemical, 2010, 151, 103-106.	7.8	134
4	Investigations of conduction mechanism in Cr2O3 gas sensing thick films by ac impedance spectroscopy and work function changes measurements. Sensors and Actuators B: Chemical, 2008, 133, 78-83.	7.8	121
5	Synthesis, Mechanism, and Gasâ€Sensing Application of Surfactant Tailored Tungsten Oxide Nanostructures. Advanced Functional Materials, 2009, 19, 1767-1774.	14.9	101
6	The Effect of Film Thickness on the Gas Sensing Properties of Ultra-Thin TiO2 Films Deposited by Atomic Layer Deposition. Sensors, 2018, 18, 735.	3.8	49
7	NO2 sensing mechanism of ZnO–Eu2O3 binary oxide under humid air conditions. Sensors and Actuators B: Chemical, 2013, 186, 687-694.	7.8	38
8	Humidity-Tolerant Ultrathin NiO Gas-Sensing Films. ACS Sensors, 2020, 5, 1389-1397.	7.8	38
9	Low level NO 2 detection under humid background and associated sensing mechanism for mesoporous SnO 2. Sensors and Actuators B: Chemical, 2016, 231, 166-174.	7.8	32
10	Structure, properties and gas sensing effect of SnSe2 films prepared by pulsed laser deposition method. Journal of Non-Crystalline Solids, 2007, 353, 1865-1869.	3.1	29
11	Sensors based on mesoporous SnO 2 -CuWO 4 with high selective sensitivity to H 2 S at low operating temperature. Journal of Hazardous Materials, 2017, 331, 150-160.	12.4	27
12	Nanoclustered Pd decorated nanocrystalline Zn doped SnO2 for ppb NO2 detection at low temperature. Sensors and Actuators B: Chemical, 2019, 294, 148-156.	7.8	25
13	Structure and properties of silver doped SnSe <sub>2</sub> and Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> thin films prepared by pulsed laser deposition. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 516-520.	1.8	21
14	NO2 sensing properties of Cr2O3 highlighted by work function investigations. Thin Solid Films, 2012, 522, 395-400.	1.8	19
15	Hydrothermal synthesis of ZnO–Eu2O3 binary oxide with straight strips morphology and sensitivity to NO2 gas. Materials Letters, 2012, 89, 219-222.	2.6	17
16	Conductance Model for Single-Crystalline/Compact Metal Oxide Gas-Sensing Layers in the Nondegenerate Limit: Example of Epitaxial SnO <sub>2</sub> (101). ACS Sensors, 2019, 4, 2420-2428.	7.8	17
17	H2S sensing mechanism of SnO2-CuWO4 operated under pulsed temperature modulation. Sensors and Actuators B: Chemical, 2018, 259, 258-268.	7.8	15
18	Room temperature ammonia sensing with barium strontium titanate under humid air background. Sensors and Actuators B: Chemical, 2015, 220, 1241-1246.	7.8	12

#	Article	IF	Citations
19	Insights about CO Gas-Sensing Mechanism with NiO-Based Gas Sensors—The Influence of Humidity. Chemosensors, 2021, 9, 244.	3.6	12
20	H2S selective sensitivity of Cu doped BaSrTiO3 under operando conditions and the associated sensing mechanism. Sensors and Actuators B: Chemical, 2018, 264, 327-336.	7.8	10
21	Direct Production of a Novel Iron-Based Nanocomposite from the Laser Pyrolysis of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mtext>Fe Structural and Sens. Journal of Nanomaterials, 2010, 2010, 1-12.</mml:mtext></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:math>	عما:mte	ext&mml:msi
22	Mesopororous Sn0.9â^'xln0.1Cux(I)O2â^'Î' gas sensors with selectivity to H2S working under humid air conditions. Microporous and Mesoporous Materials, 2014, 197, 63-71.	4.4	8
23	Nanostructured Cobalt Doped Barium Strontium Titanate Thin Films with Potential in CO2 Detection. Materials, 2020, 13, 4797.	2.9	8
24	Influence of relative humidity on CO2 interaction mechanism for Gd-doped SnO2 with respect to pure SnO2 and Gd2O3. Sensors and Actuators B: Chemical, 2022, 368, 132130.	7.8	8
25	Networked mesoporous SnO2 nanostructures templated by Brij $\hat{A}^{\text{@}}$ 35 with enhanced H2S selective performance. Microporous and Mesoporous Materials, 2018, 270, 93-101.	4.4	7
26	Low temperature CO sensing under infield conditions with in doped Pd/SnO2. Sensors and Actuators B: Chemical, 2020, 308, 127717.	7.8	7
27	Bulk Versus Surface Modification of Alumina with Mn and Ce Based Oxides for CH4 Catalytic Combustion. Materials, 2019, 12, 1771.	2.9	5
28	CeO2:Mn3O4 Catalytic Micro-Converters Tuned for CH4 Detection Based on Catalytic Combustion under Real Operating Conditions. Materials, 2020, 13, 2196.	2.9	5
29	CuWO4 with CuO and Cu(OH)2 Native Surface Layers for H2S Detection under in-Field Conditions. Materials, 2021, 14, 465.	2.9	5
30	Sensing Properties of NiO Loaded SnO2 Nanoparticlesâ€"Specific Selectivity to H2S. Chemosensors, 2021, 9, 125.	3.6	4
31	Effects of Calcination Temperature on CO-Sensing Mechanism for NiO-Based Gas Sensors. Chemosensors, 2022, 10, 191.	3.6	4
32	Tuned sensitivity towards H2S and NH3 with Cu doped barium strontium titanate materials. AlP Conference Proceedings, 2014, , .	0.4	3
33	Methane Combustion Using Pd Deposited on CeOx-MnOx/La-Al2O3 Pellistors. Materials, 2020, 13, 4888.	2.9	1
34	Gas sensing properties of NiO/mesoporous SnO <inf>2</inf> ., 2017,,.		0
35	Special Issue "Advanced Materials for Gas Sensors― Materials, 2021, 14, 6765.	2.9	0