Valeriy V Krivetskiy

List of Publications by Year
in descending order

29	513	687363 13	677142 22
papers	citations	h-index	g-index

30	30	30	576
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chemical modification of nanocrystalline tin dioxide for selective gas sensors. Russian Chemical Reviews, 2013, 82, 917-941.	6.5	72
2	Selective detection of individual gases and CO/H2 mixture at low concentrations in air by single semiconductor metal oxide sensors working in dynamic temperature mode. Sensors and Actuators B: Chemical, 2018, 254, 502-513.	7.8	61
3	Selectivity Modification of SnO₂â€Based Materials for Gas Sensor Arrays. Electroanalysis, 2010, 22, 2809-2816.	2.9	53
4	Co3O4 as p-Type Material for CO Sensing in Humid Air. Sensors, 2017, 17, 2216.	3.8	51
5	Statistical shape analysis pre-processing of temperature modulated metal oxide gas sensor response for machine learning improved selectivity of gases detection in real atmospheric conditions. Sensors and Actuators B: Chemical, 2021, 329, 129187.	7.8	43
6	Effect of AuPd Bimetal Sensitization on Gas Sensing Performance of Nanocrystalline SnO2 Obtained by Single Step Flame Spray Pyrolysis. Nanomaterials, 2019, 9, 728.	4.1	31
7	Chemically modified nanocrystalline SnO2-based materials for nitrogen-containing gases detection using gas sensor array. Journal of Alloys and Compounds, 2017, 691, 514-523.	5.5	27
8	A simple method of growth and lithiation of Ba6Mn24O48 whiskers. Journal of Materials Chemistry, 2005, 15, 1614.	6.7	25
9	Catalytic impact of RuOx clusters to high ammonia sensitivity of tin dioxide. Sensors and Actuators B: Chemical, 2012, 175, 186-193.	7.8	24
10	Influence of Mono- and Bimetallic PtOx, PdOx, PtPdOx Clusters on CO Sensing by SnO2 Based Gas Sensors. Nanomaterials, 2018, 8, 917.	4.1	22
11	Nanocomposites SnO2/SiO2 for CO Gas Sensors: Microstructure and Reactivity in the Interaction with the Gas Phase. Materials, 2019, 12, 1096.	2.9	22
12	Selective modified SnO2-based materials for gas sensors arrays. Procedia Chemistry, 2009, 1, 204-207.	0.7	19
13	Microhotplates based on Pt and Pt-Rh films: The impact of composition, structure, and thermal treatment on functional properties. Sensors and Actuators A: Physical, 2021, 317, 112457.	4.1	15
14	Materials based on modified SnO2 for selective gas sensors. Inorganic Materials, 2010, 46, 1100-1105.	0.8	14
15	Design, Synthesis and Application of Metal Oxide-Based Sensing Elements: A Chemical Principles Approach. , 2013, , 69-115.		9
16	Enhancement of Lewis Acidity of Crâ€Doped Nanocrystalline SnO₂: Effect on Surface NH₃ Oxidation and Sensory Detection Pattern. ChemPhysChem, 2019, 20, 1985-1996.	2.1	9
17	Catalytic impact of RuOx clusters to high NH3 sensitivity of tin dioxide. Procedia Engineering, 2011, 25, 227-230.	1.2	3
18	Semiconductor gas sensing coupled with presampling system for toxic compounds and chemical threat agents detection. , 2013, , .		3

#	Article	IF	Citations
19	Catalytic oxidation of unsymmetrical dimethylhydrazine on Pt/SiO2. Russian Journal of Applied Chemistry, 2016, 89, 1109-1118.	0.5	3
20	Flame-Made La2O3-Based Nanocomposite CO2 Sensors as Perspective Part of GHG Monitoring System. Sensors, 2021, 21, 7297.	3.8	2
21	Influence of La(III) on the reactivity and sensor properties of nanocrystalline SnO2. Russian Journal of Inorganic Chemistry, 2016, 61, 1368-1373.	1.3	1
22	Lightâ€"Assisted Low Temperature Formaldehyde Detection at Sub-ppm Level Using Metal Oxide Semiconductor Gas Sensors. Proceedings (mdpi), 2019, 14, 37.	0.2	1
23	Selective Detection of Hydrocarbons in Real Atmospheric Conditions by Single MOX Sensor in Temperature Modulation Mode. Proceedings (mdpi), 2019, 14, .	0.2	1
24	Study of the Chromium Distribution in New Materials Based on Tin Dioxide by Inductively Coupled Plasmaâ€"Mass Spectrometry. Moscow University Chemistry Bulletin, 2019, 74, 10-13.	0.6	1
25	Metal Oxide Gas Sensors Signal Shape Processing for Selective Detection of Hydrocarbons in Realistic Air Conditions. ECS Meeting Abstracts, 2020, MA2020-01, 1860-1860.	0.0	1
26	Combination of tailored acid-base and red/ox properties of nanocrystalline SnO<inf>2</inf> for optimal gas sensor performance: Principle applicability study on NH<inf>3</inf> and H<inf>2</inf>S examples. , 2013, , .		0
27	Synergistic Effect of Nanocrystalline SnO2 Sensitization by Bimetallic Au and Pd Modification via Ingle Step Flame Spray Pyrolysis Technique. Proceedings (mdpi), 2019, 14, 46.	0.2	0
28	Enhanced VOCs Detection By the Co3O4/ZnO Nanocomposites, Obtained By Single Step Flame Spray Pyrolysis. ECS Meeting Abstracts, 2020, MA2020-01, 2191-2191.	0.0	0
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