Matteo Ferroni

List of Publications by Citations

163 papers	5,315 citations	43 h-index	67 g-index
181 ext. papers	5,768 ext. citations	5.3 avg, IF	5.15 L-index

#	Paper	IF	Citations
163	Quasi-one dimensional metal oxide semiconductors: Preparation, characterization and application as chemical sensors. *Progress in Materials Science*, **2009**, 54, 1-67	42.2	509
162	Screen-printed perovskite-type thick films as gas sensors for environmental monitoring. *Sensors and Actuators B: Chemical*, **1999**, 55, 99-110	8.5	204
161	The CHORUS experiment to search for □b oscillation. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1997**, 401, 7-44	1.2	166
160	Synthesis and characterization of semiconducting nanowires for gas sensing. *Sensors and Actuators B: Chemical*, **2007**, 121, 208-213	8.5	145
159	Nanostructured pure and Nb-doped TiO2 as thick film gas sensors for environmental monitoring. *Sensors and Actuators B: Chemical*, **1999**, 58, 310-317	8.5	139
158	Metal oxide nanoscience and nanotechnology for chemical sensors. *Sensors and Actuators B: Chemical*, **2013**, 179, 3-20	8.5	129
157	Nanostructured WO3 deposited by modified thermal evaporation for gas-sensing applications. *Thin Solid Films*, **2005**, 490, 81-85	2.2	120
156	Controlled Growth and Sensing Properties of In2O3 Nanowires. *Crystal Growth and Design*, **2007**, 7, 2500-2504	3.5	117
155	MoO3-based sputtered thin films for fast NO2 detection. *Sensors and Actuators B: Chemical*, **1998**, 48, 285-288	8.5	107
154	Characterization of a nanosized TiO2 gas sensor. *Scripta Materialia*, **1996**, 7, 709-718		104
153	Characterization of a molybdenum oxide sputtered thin film as a gas sensor. *Thin Solid Films*, **1997**, 307, 148-151	2.2	94
152	Nanostructured mixed oxides compounds for gas sensing applications. *Sensors and Actuators B: Chemical*, **2002**, 84, 26-32	8.5	90
151	Branch-like NiO/ZnO heterostructures for VOC sensing. *Sensors and Actuators B: Chemical*, **2018**, 262, 477-485	8.5	84
150	Near-infrared photoluminescence in titania: Evidence for phonon-replica effect. *Journal of Applied Physics*, **2003**, 94, 1501-1505	2.5	84
149	New label free CA125 detection based on gold nanostructured screen-printed electrode. *Sensors and Actuators B: Chemical*, **2013**, 179, 194-200	8.5	80
148	Single crystal ZnO nanowires as optical and conductometric chemical sensor. *Journal Physics D: Applied Physics*, **2007**, 40, 7255-7259	3	77
147	In2O3 nanowires for gas sensors: morphology and sensing characterisation. *Thin Solid Films*, **2007**, 515, 8356-8359	2.2	75

146	Preparation of nanosized titania thick and thin films as gas-sensors. *Sensors and Actuators B: Chemical*, **1999**, 57, 197-200	8.5	74
145	Preparation and Characterization of Nanostructured Titania Thick Films. *Advanced Materials*, **1999**, 11, 943-946	24	72
144	Preparation and characterization of nanosized titania sensing film. *Sensors and Actuators B: Chemical*, **2001**, 77, 163-166	8.5	70
143	Reversed bias Pt/nanostructured ZnO Schottky diode with enhanced electric field for hydrogen sensing. *Sensors and Actuators B: Chemical*, **2010**, 146, 507-512	8.5	69
142	. *IEEE Transactions on Electron Devices*, **2011**, 58, 2610-2619	2.9	68
141	Quasi-monodimensional polyaniline nanostructures for enhanced molecularly imprinted polymer-based sensing. *Biosensors and Bioelectronics*, **2010**, 26, 497-503	11.8	67
140	Au/TiO2Nanosystems:A Combined RF-Sputtering/SolGel Approach. *Chemistry of Materials*, **2004**, 16, 3331-3338	9.6	66
139	Synthesis of different ZnO nanostructures by modified PVD process and potential use for dye-sensitized solar cells. *Materials Chemistry and Physics*, **2010**, 124, 694-698	4.4	63
138	Effect of Dopants on Grain Coalescence and Oxygen Mobility in Nanostructured Titania Anatase and Rutile. *Journal of Physical Chemistry B*, **2003**, 107, 120-124	3.4	62
137	Gas sensing through thick film technology. *Sensors and Actuators B: Chemical*, **2002**, 84, 72-77	8.5	61
136	Structural characterization of NbTiO2 nanosized thick-films for gas sensing application. *Sensors and Actuators B: Chemical*, **2000**, 68, 140-145	8.5	61
135	A novel method for the preparation of nanosized tio2 thin films. *Advanced Materials*, **1996**, 8, 334-337	24	61
134	Synthesis and integration of tin oxide nanowires into an electronic nose. *Vacuum*, **2012**, 86, 532-535	3.7	58
133	Tailoring the pore size and architecture of CeO2/TiO2 core/shell inverse opals by atomic layer deposition. *Small*, **2009**, 5, 336-40	11	56
132	Preparation of Radial and Longitudinal Nanosized Heterostructures of In2O3 and SnO2. *Nano Letters*, **2007**, 7, 3553-3558	11.5	55
131	Thin-film gas sensor implemented on a low-power-consumption micromachined silicon structure. *Sensors and Actuators B: Chemical*, **1998**, 49, 88-92	8.5	54
130	Sub-ppm NO2 sensors based on nanosized thin films of titanium-tungsten oxides. *Sensors and Actuators B: Chemical*, **1996**, 31, 89-92	8.5	53
129	Nanostructured metal oxide gas sensors, a survey of applications carried out at SENSOR lab, Brescia (Italy) in the security and food quality fields. *Sensors*, **2012**, 12, 17023-45	3.8	52

128	Metal oxide nanowires: Preparation and application in gas sensing. *Journal of Molecular Catalysis A*, **2009**, 305, 170-177		51
127	Shaping of silicon crystals for channelling experiments through anisotropic chemical etching. *Journal Physics D: Applied Physics*, **2008**, 41, 245501	3	51
126	Structural and gas-sensing characterization of tungsten oxide nanorods and nanoparticles. *Sensors and Actuators B: Chemical*, **2011**, 153, 340-346	8.5	49
125	Indium oxide quasi-monodimensional low temperature gas sensor. *Sensors and Actuators B: Chemical*, **2006**, 118, 204-207	8.5	48
124	Gas-sensing applications of WTiO-based nanosized thin films prepared by r.f. reactive sputtering. *Sensors and Actuators B: Chemical*, **1997**, 44, 499-502	8.5	47
123	Preparation and micro-structural characterization of nanosized thin film of TiO2?WO3 as a novel material with high sensitivity towards NO2. *Sensors and Actuators B: Chemical*, **1996**, 36, 381-383	8.5	47
122	. *IEEE Sensors Journal*, **2008**, 8, 735-742	4	44
121	XAS investigation of tantalum and niobium in nanostructured TiO2 anatase. *Journal of Solid State Chemistry*, **2004**, 177, 1781-1788	3.3	44
120	Microstructural characterization of a titanium-tungsten oxide gas sensor. *Journal of Materials Research*, **1997**, 12, 793-798	2.5	43
119	Semiconducting tin oxide nanowires and thin films for Chemical Warfare Agents detection. *Thin Solid Films*, **2009**, 517, 6156-6160	2.2	42
118	Synthesis of Cu2O bi-pyramids by reduction of Cu(OH)2 in solution. *Materials Letters*, **2010**, 64, 469-471	3.3	39
117	ZnO/TiO2 nanonetwork as efficient photoanode in excitonic solar cells. *Applied Physics Letters*, **2009**, 95, 193104	3.4	37
116	Inverse opal gas sensors: Zn(II)-doped tin dioxide systems for low temperature detection of pollutant gases. *Sensors and Actuators B: Chemical*, **2008**, 130, 567-573	8.5	37
115	One-dimensional nanostructured oxides for thermoelectric applications and excitonic solar cells. *Nano Energy*, **2012**, 1, 372-390	17.1	36
114	Construction and test of calorimeter modules for the CHORUS experiment. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1994**, 349, 70-80	1.2	36
113	Embodied energy as key parameter for sustainable materials selection: The case of reusing coal fly ash for removing anionic surfactants. *Journal of Cleaner Production*, **2017**, 141, 230-236	10.3	35
112	Nanosized thin films of tungsten-titanium mixed oxides as gas sensors. *Sensors and Actuators B: Chemical*, **1999**, 58, 289-294	8.5	32
111	Probing the spatial extension of light trapping-induced enhanced Raman scattering in high-density Si nanowire arrays. *Nanotechnology*, **2014**, 25, 465705	3.4	31

110	Direct integration of metal oxide nanowires into an effective gas sensing device. *Nanotechnology*, **2010**, 21, 145502	3.4	29
109	Insight into the Formation Mechanism of One-Dimensional Indium Oxide Wires. *Crystal Growth and Design*, **2010**, 10, 140-145	3.5	29
108	In situ plasmon-heating-induced generation of Au/TiO2 "hot spots" on colloidal crystals. *ChemPhysChem*, **2009**, 10, 1017-22	3.2	29
107	Nanowires of metal oxides for gas sensing applications. *Surface and Interface Analysis*, **2008**, 40, 575-578	1.5	29
106	Effects of Ta/Nb-doping on titania-based thin films for gas-sensing. *Sensors and Actuators B: Chemical*, **2005**, 108, 21-28	8.5	29
105	Gas sensing properties of zinc oxide nanostructures prepared by thermal evaporation. *Applied Physics A: Materials Science and Processing*, **2007**, 88, 45-48	2.6	26
104	Plasma-induced enhancement of UV photoluminescence in ZnO nanowires. *CrystEngComm*, **2013**, 15, 7981	3.3	25
103	Nanosized Ti-doped MoO3 thin films for gas-sensing application. *Sensors and Actuators B: Chemical*, **2001**, 77, 555-560	8.5	25
102	Exploiting optothermal conversion for nanofabrication: site-selective generation of Au/TiO2 inverse opals. *Journal of Materials Chemistry*, **2009**, 19, 7990		24
101	Large surface area biphase titania for chemical sensing. *Sensors and Actuators B: Chemical*, **2015**, 209, 1091-1096	8.5	23
100	Structural investigation of Ce2Zr2O8 after redox treatments which lead to low temperature reduction. *Topics in Catalysis*, **2006**, 41, 35-42	2.3	23
99	Thick-film gas sensors based on vanadium□itanium oxide powders prepared by sol-gel synthesis. *Journal of the European Ceramic Society*, **2004**, 24, 1409-1413	6	22
98	Innovative Approaches to Oxide Nanosystems: CeO2-ZrO2 Nanocomposites by a Combined PE-CVD/Sol□el Route. *Chemical Vapor Deposition*, **2004**, 10, 257-264		22
97	Response to electrons and pions of the calorimeter for the CHORUS experiment. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1996**, 378, 221-232	1.2	22
96	Plasmonic Heating-Assisted Transformation of SiO2/Au Core/Shell Nanospheres (Au Nanoshells): Caveats and Opportunities for SERS and Direct Laser Writing. *Plasmonics*, **2013**, 8, 129-132	2.4	21
95	Growing ZnO Nanocrystals on Polystyrene Nanospheres by Extra-Low-Temperature Atomic Layer Deposition. *Crystal Growth and Design*, **2009**, 9, 1258-1259	3.5	21
94	Effect of different heat-treatment routes on the impact properties of an additively manufactured AlSi10Mg alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 802, 140671	5.3	21
93	Tin Oxide Nanowires Decorated with Ag Nanoparticles for Visible Light-Enhanced Hydrogen Sensing at Room Temperature: Bridging Conductometric Gas Sensing and Plasmon-Driven Catalysis. *Journal of Physical Chemistry C*, **2018**, 122, 5026-5031	3.8	20

92	Preparation and characterisation of titaniumtungsten sensors. *Sensors and Actuators B: Chemical*, **2000**, 65, 264-266	8.5	20
91	Experimental apparatus for annihilation cross-section measurements of low energy antiprotons. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2013**, 711, 12-20	1.2	19
90	Electron microscopy and Rutherford backscattering study of nucleation and growth in nanosized WTiO thin films. *Journal of Applied Physics*, **2000**, 88, 1097-1103	2.5	19
89	Quantification of H2S and NO2 using gas sensor arrays and an artificial neural network. *Sensors and Actuators B: Chemical*, **1997**, 43, 235-238	8.5	18
88	Iron-doped indium oxide by modified RGTO deposition for ozone sensing. *Sensors and Actuators B: Chemical*, **2006**, 118, 221-225	8.5	18
87	Preparation and microstructural characterization of nanosized MoTiO2 and MoWO thin films by sputtering: tailoring of composition and porosity by thermal treatment. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2003**, 101, 216-221	3.1	18
86	Selective sublimation processing of a molybdenumtungsten mixed oxide thin film. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2003**, 21, 1442		18
85	NO2 monitoring with a novel p-type material: TiO. *Sensors and Actuators B: Chemical*, **2000**, 68, 175-183	8.5	18
84	Integration of ZnO and CuO nanowires into a thermoelectric module. *Beilstein Journal of Nanotechnology*, **2014**, 5, 927-36	3	17
83	Metal oxide nanowire chemical and biochemical sensors. *Journal of Materials Research*, **2013**, 28, 2911-2931	2.5	17
82	Effects of aluminium sulphate in the mouse liver: similarities to the aging process. *Experimental Gerontology*, **2008**, 43, 330-8	4.5	17
81	Metal Oxide Nanowire Preparation and Their Integration into Chemical Sensing Devices at the SENSOR Lab in Brescia. *Sensors*, **2017**, 17,	3.8	16
80	Taurine rescues cisplatin-induced muscle atrophy in vitro: a morphological study. *Oxidative Medicine and Cellular Longevity*, **2014**, 2014, 840951	6.7	16
79	Plasmon-Assisted, Spatially Resolved Laser Generation of Transition Metal Oxides from Liquid Precursors. *Journal of Physical Chemistry C*, **2011**, 115, 5174-5180	3.8	16
78	Structural and physical properties of cobalt nanocluster composite glasses. *Journal of Non-Crystalline Solids*, **2004**, 336, 148-152	3.9	16
77	Coalescence inhibition in nanosized titania films and related effects on chemoresistive properties towards ethanol. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2002**, 20, 523		16
76	Functional nanowires of tin oxide. *Applied Physics A: Materials Science and Processing*, **2007**, 89, 73-76	2.6	15
75	Detection of landfill gases by chemoresistive sensors based on titanium, molybdenum, tungsten oxides. *IEEE Sensors Journal*, **2005**, 5, 4-11	4	15

74	Non-Plasmonic SERS with Silicon: Is It Really Safe? New Insights into the Optothermal Properties of Core/Shell Microbeads. *Journal of Physical Chemistry Letters*, **2018**, 9, 2127-2132	6.4	14
73	Adaptive and Flexible Smartphone Power Modeling. *Mobile Networks and Applications*, **2013**, 18, 600-609	2.9	14
72	Template controlled synthesis of monometallic zerovalent metal nanoclusters inside cross-linked polymer frameworks: the effect of a single matrix on the size of different metal nanoparticles. *New Journal of Chemistry*, **2010**, 34, 2956	3.6	14
71	TiO2:Mo, MoO3:Ti, TiO+WO3 and TiO:W layer for landfill produced gases sensing. *Sensors and Actuators B: Chemical*, **2004**, 100, 41-46	8.5	14
70	Pulverisation method for active layer coating on microsystems. *Sensors and Actuators B: Chemical*, **2002**, 84, 78-82	8.5	14
69	Production and characterization of titanium and iron oxide nano-sized thin films. *Journal of Materials Research*, **2001**, 16, 1559-1564	2.5	14
68	Alginate-Derived Active Blend Enhances Adsorption and Photocatalytic Removal of Organic Pollutants in Water. *Advanced Sustainable Systems*, **2020**, 4, 1900112	5.9	13
67	High degree of polarization of the near-band-edge photoluminescence in ZnO nanowires. *Nanoscale Research Letters*, **2011**, 6, 501	5	13
66	Response to ethanol of thin films based on Mo and Ti oxides deposited by sputtering. *Sensors and Actuators B: Chemical*, **2003**, 93, 409-415	8.5	13
65	HYDROGEN GAS SENSING PERFORMANCE OF Pt/SnO2 NANOWIRES/SiC MOS DEVICES. *International Journal on Smart Sensing and Intelligent Systems*, **2008**, 1, 771-783	0.4	13
64	Seebeck effect in ZnO nanowires for micropower generation. *Procedia Engineering*, **2011**, 25, 1481-1484		12
63	A carnosine analog with therapeutic potentials in the treatment of disorders related to oxidative stress. *PLoS ONE*, **2019**, 14, e0215170	3.7	11
62	Sputtering deposition of amorphous cadmium stannate as transparent conducting oxide. *Thin Solid Films*, **2012**, 520, 2739-2744	2.2	11
61	MPower **2013**,		11
60	Scanning electron microscopy of dopant distribution in semiconductors. *Applied Physics Letters*, **2005**, 86, 101916	3.4	11
59	WTiO layers for gas-sensing applications: Structure, morphology, and electrical properties. *Journal of Materials Research*, **1998**, 13, 1568-1575	2.5	11
58	Magnetic gas sensing exploiting the magneto-optical Kerr effect on ZnO nanorods/Co layer system. *RSC Advances*, **2016**, 6, 42517-42521	3.7	11
57	Radiofrequency magnetron co-sputtering deposition synthesis of Co-based nanocomposite glasses for optical and magnetic applications. *Applied Surface Science*, **2004**, 226, 62-67	6.7	10

56	Ge growth on porous silicon: The effect of buffer porosity on the epilayer crystalline quality. *Applied Physics Letters*, **2014**, 105, 122104	3.4	9
55	CdSe spherical quantum dots stabilised by thiomalic acid: biphasic wet synthesis and characterisation. *ChemPhysChem*, **2011**, 12, 863-70	3.2	9
54	Dopant regions imaging in scanning electron microscopy. *Journal of Applied Physics*, **2006**, 99, 043512	2.5	8
53	Study on nanosized TiO/ WO3 thin films achieved by radio frequency sputtering. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2000**, 18, 509-514	2.9	8
52	Bottle-brush-shaped heterostructures of NiO-ZnO nanowires: growth study and sensing properties. *Nanotechnology*, **2017**, 28, 465502	3.4	7
51	Two-phase Titania Nanotubes for Gas Sensing. *Procedia Engineering*, **2014**, 87, 176-179		7
50	Single Metal Oxide Nanowire devices for Ammonia and Other Gases Detection in Humid Atmosphere. *Procedia Engineering*, **2016**, 168, 1052-1055		7
49	Vertically Coupling ZnO Nanorods onto MoS2 Flakes for Optical Gas Sensing. *Chemosensors*, **2020**, 8, 19	4	6
48	Biological application of Compressed Sensing Tomography in the Scanning Electron Microscope. *Scientific Reports*, **2016**, 6, 33354	4.9	6
47	Sequential physical vapor deposition and chemical vapor deposition for the growth of In2O3SnO2 radial and longitudinal heterojunctions. *Applied Surface Science*, **2014**, 323, 59-64	6.7	6
46	Planar Thermoelectric Generator based on Metal-Oxide Nanowires for Powering Autonomous Microsystems. *Procedia Engineering*, **2012**, 47, 346-349		6
45	High-precision neural pre-processing for signal analysis of a sensor array. *Sensors and Actuators B: Chemical*, **1998**, 47, 77-83	8.5	6
44	Vapour phase nucleation of ZnO nanowires on GaN: growth habit, interface study and optical properties. *RSC Advances*, **2016**, 6, 15087-15093	3.7	5
43	Metal Oxides Mono-Dimensional Nanostructures for Gas Sensing and Light Emission. *Journal of the American Ceramic Society*, **2012**, 95, n/a-n/a	3.8	5
42	CO sensing properties of WMo and tin oxide RGTO multiple layers structures. *Sensors and Actuators B: Chemical*, **2003**, 95, 157-161	8.5	5
41	Electrical and holographic characterization of gold catalyzed titania-based layers. *Journal of the European Ceramic Society*, **2007**, 27, 4131-4134	6	4
40	Diffusion-equation approach to describe ionic mobility in nanostructured titania. *Physical Review B*, **2005**, 72,	3.3	4
39	Visible light photodegradation of dyes and paracetamol by direct sensitization mechanism onto metallic MoO2 nanocrystals. *Journal of Photochemistry and Photobiology A: Chemistry*, **2021**, 413, 113258	4.7	4

38	Synthesis, morphological and raman spectroscopic characterization of partially graphitized ordered mesoporous carbons. *Studies in Surface Science and Catalysis*, **2005**, 158, 509-516	1.8	3
37	Pt/Nanostructured RuO2/SiC Schottky Diode Based Hydrogen Gas Sensors. *Sensor Letters*, **2011**, 9, 797-800	0.9	3
36	One-Dimensional Polyaniline Nanotubes for Enhanced Chemical and Biochemical Sensing. *Lecture Notes in Electrical Engineering*, **2011**, 311-315	0.2	3
35	Bioinspired self-similar all-dielectric antennas: probing the effect of secondary scattering centres by Raman spectroscopy. *Materials Advances*, **2020**, 1, 2443-2449	3.3	3
34	Experimental Evaluation and Modeling of Thermal Phenomena on Mobile Devices **2015**,		2
33	Reverse Biased Schottky Contact Hydrogen Sensors Based on Pt/nanostructured ZnO/SiC **2009**,		2
32	One pot synthesis of bi-linker stabilised CdSe quantum dots. *Journal of Physics: Conference Series*, **2010**, 245, 012067	0.3	2
31	Physical Vapor Deposition of Copper Oxide Nanowires. *Procedia Engineering*, **2010**, 5, 1051-1054		2
30	Selective sublimation processing of thin films for gas sensing. *Sensors and Actuators B: Chemical*, **2005**, 108, 15-20	8.5	2
29	Fabrication of single-nanowire sensing devices by electron beam lithography **2015**,		1
28	Room temperature trimethylamine gas sensor based on aqueous dispersed graphene **2015**,		1
27	STEM electron tomography in the Scanning Electron Microscope. *Journal of Physics: Conference Series*, **2015**, 644, 012012	0.3	1
26	SnO2 nanowires for optical and optoelectronic gas sensing **2009**,		1
25	Performance of the CHORUS lead-scintillating fiber calorimeter. *Nuclear Physics, Section B, Proceedings Supplements*, **1997**, 54, 198-203		1
24	High Temperature Phases of Nanostructured Tungsten Oxide for Gas Sensing Applications. *Materials Research Society Symposia Proceedings*, **2006**, 915, 1		1
23	SnO2 nanowire bio-transistor for electrical DNA sensing **2007**,		1
22	Preparation and Characterization of Tin Oxide Nanowires on SIC **2007**,		1
21	Structural and electrical characterization of cobalt oxide p-type gas sensor		1

20	The CHORUS calorimeter: test results. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1995**, 360, 197-200	1.2	1
19	Calibration and performance of the CHORUS calorimeter. *Nuclear Physics, Section B, Proceedings Supplements*, **1995**, 44, 45-50		1
18	Cyclodextrins enable indirect ultrasensitive Raman detection of polychlorinated biphenyls captured by plasmonic bubbles. *Chemical Physics Letters*, **2021**, 775, 138674	2.5	1
17	Enhanced reduction in threading dislocation density in Ge grown on porous silicon during annealing due to porous buffer reconstruction. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 96-101	1.6	0
16	On the Anisotropic Impact Behavior of an Additively Manufactured AlSi10Mg Alloy in Different Heat Treatment Conditions. *Journal of Materials Engineering and Performance*,1	1.6	0
15	Investigation of Seebeck Effect in ZnO Nanowires for Micropower Generation in Autonomous Sensor Systems. *Lecture Notes in Electrical Engineering*, **2014**, 245-249	0.2	
14	SEM tomography for the investigation of hybrid structures. *Journal of Physics: Conference Series*, **2017**, 902, 012031	0.3	
13	Transparent Metal Oxide Semiconductors as Gas Sensors **2010**, 417-442		
12	Helium purity control by thin film gas sensors at the NA-48 experiment at CERN. *Sensors and Actuators B: Chemical*, **1998**, 47, 54-58	8.5	
11	Inverse Opal Nanoassemblies: Novel Architectures for Gas Sensors The SnO2:Zn Case. *Materials Research Society Symposia Proceedings*, **2006**, 915, 1		
10	Metal oxide nanowires for optical gas sensing **2007**, 6474, 212		
9	Application of ion beam analysis to the selective sublimation processing of thin films for gas sensing. *Nuclear Instruments & Methods in Physics Research B*, **2006**, 249, 302-305	1.2	
8	Mo-W-O thin films for CO sensing. *Materials Research Society Symposia Proceedings*, **2000**, 638, 1		
7	On the Spatial Resolution and Nanoscale Features Visibility in Scanning Electron Microscopy and Low-Energy Scanning Transmission Electron Microscopy **2008**, 521-522		
6	Size Effect in Gold Nanoparticles Investigated by Electron Holography and STEM **2008**, 247-248		
5	Nanowires of Semiconducting Metal-oxides and their Functional Properties **2008**, 127-128		
4	The effects of boundary conditions on dopant region imaging in scanning electron microscopy. *Springer Proceedings in Physics*, **2005**, 475-478	0.2	
3	Optical Gas Sensing Properties of ZnO Nanowires. *Lecture Notes in Electrical Engineering*, **2010**, 173-176	0.2	

List of Publications

2	Gas Influence on Photocurrent Generation in Metal Oxide Nanowires. *Lecture Notes in Electrical Engineering*, **2011**, 93-97	0.2
1	Investigation of Seebeck Effect in Metal Oxide Nanowires for Powering Autonomous Microsystems. *Lecture Notes in Electrical Engineering*, **2014**, 3-7	0.2