

Fișă de Autoevaluare

privind standarde minimale pe domenii ale Universității
(Anexa 2 - Metodologie Proprie)

Facultatea	Funcția de cercetare: Cercetător Științific III
Departamentul de Cercetare Interdisciplinar- Domeniul Științe	minim trei articole în domeniul postului, publicate în calitate de autor principal, cu AIS \geq 1 sau minim șase articole în domeniul postului, publicate în calitate de autor principal, citate în reviste cu AIS \geq 0,5
	suma AIS din toate publicațiile în calitate de autor principal ale candidatului și a publicațiilor cu AIS \geq 0,5 care citează articole publicate în calitate de autor principal de către candidat să fie \geq 5

Criteriul 1: minim șase articole în domeniul postului, publicate în calitate de autor principal, citate în reviste cu AIS \geq 0,5.

Criteriul 1 este îndeplinit: candidata are 13 articole publicate în calitate de autor principal, citate în reviste cu AIS \geq 0,5.

Tabel 1

Tabel 1		
Articol 1	A.P. Rambu , N. Iftimie, V. Nica, M. Dobromir, S. Tascu, <i>Efficient methane detection by Co doping of ZnO thin films</i> , Superlattices and Microstructures, 78 (2014) 61-70	
Citat de		
1	D Sudha, P Sivakumar, Review on the photocatalytic activity of various composite catalysts, Chemical Engineering and Processing 97 (2015) 112-133	AIS=0,587
2	S Shalini, D Balamurugan, Ambient temperature operated acetaldehyde vapour detection of spray deposited cobalt doped zinc oxide thin film, Journal of Colloid and Interface Science, 466 (2016) 352-359	AIS=0,827
Articol 2	A.P.Rambu , L.Ursu, N.Iftimie, V.Nica, M.Dobromir, F.Iacomi, <i>Study on Ni-doped ZnO films as gas sensors</i> , Applied Surface Science, 280 (2013) 598-604	
Citat de		
1	ZY Pang, ZP Yang, Y Chen, JM Zhang, QQ Wang, FL Huang, QF Wei, A room temperature ammonia gas sensor based on cellulose/TiO2/PANI composite nanofibers, Colloids and Surfaces A-Physicochemical and Engineering Aspects, 494 (2016) 248-255	AIS=0,607
2	V.V. Ganbavle, S.I. Inamdar, G.L. Agawane, J.H. Kim, K.Y. Rajpure, Synthesis of fast response, highly sensitive and selective Ni:ZNO based NO ₂ sensor, Chemical Engineering Journal, 286 (2016) 36-47	AIS=0,945
3	P. Prepelita, V. Craciun, F. Garoi, A.Staicu, Effect of annealing treatment on the structural and optical properties of AZO samples, Applied Surface Science 352 (2015) 23-27	AIS=0,549
4	S. Bai, H. Liu, J. Sun, Y.Tian, R. Luo, D. Li, A. Chen, Mechanism of enhancing the formaldehyde sensing properties of Co3O4 via Ag modification, RSC Advances, 5(60) (2015) 48619-48625	AIS=0,747
5	Q.Yin, R. Qiao, Z. Li, X.L. Zhang, L. Zhu, Hierarchical nanostructures of nickel-doped zinc oxide: Morphology controlled synthesis and enhanced visible-light photocatalytic activity, Journal of Alloys and Compounds, 618(2015) 318-325	AIS=0,557
6	C. Shao, Y. Chang, Y. Long, High performance of nanostructured ZnO film gas sensor at room temperature, Sensors and Actuators, B: Chemical, 204 (2014) 666-672	AIS=0,754

7	G.K. Mani, J.B.B. Rayappan, Selective detection of ammonia using spray pyrolysis deposited pure and nickel doped ZnO thin films, Applied Surface Science, 311 (2014) 405-412	AIS=0,549
8	P. Prepelita, V. Craciun, G. Sbarcea, F. Garoi, Relevance of annealing on the stoichiometry and morphology of transparent thin films, Applied Surface Science, 306 (2014) 47-51	AIS=0,549
9	K.G. Saw, S.S. Tneh, G.L. Tan, F.K. Yam, S.S. Ng, Z. Hassan, Ohmic-Rectifying Conversion of Ni Contacts on ZnO and the Possible Determination of ZnO Thin Film Surface Polarity, PLOS ONE, 9(1) (2014) art. no. e86544	AIS=1,209
10	Y.C. Liang, W.K. Liao, X.S. Deng, Synthesis and substantially enhanced gas sensing sensitivity of homogeneously nanoscale Pd- and Au-particle decorated ZnO nanostructures, Journal of Alloys and Compounds, 599(2014) 87-92	AIS=0,557
Articol 3	A.P. Rambu , C.Doroftei, L.Ursu, F.Iacomì, <i>Structure and gas sensing properties of nanocrystalline Fe-doped ZnO films prepared by spin coating method</i> , Journal of Materials Science, 48(12) (2013) 4305-4312.	
Citat de		
1	G. Li, H. Wang, Y. Zhao, Q. Wang, K. Wang, Z. Wang, Effect of oxidation temperature and high magnetic field on the structure and optical properties of Co-doped ZnO prepared by oxidizing Zn/Co bilayer thin films, Materials Chemistry and Physics, 162 (2015) art. no. 18107, 88-93	AIS=0,543
2	R. Knut, U. Lagerqvist, P. Palmgren, P. Pal, P. Svedlindh, A. Pohl, O. Karis, Photoinduced reduction of surface states in Fe:ZnO, Journal of Chemical Physics, 142(20) (2015) 204703	AIS=0,916
3	M.M. Hassan, W. Khan, A.H. Naqvi, P. Mishra, S.S. Islam, Fe dopants enhancing ethanol sensitivity of ZnO thin film deposited by RF magnetron sputtering, Journal of Materials Science, 49(18) (2014) 6248-6256,	AIS=0,592
4	C. Shao, Y. Chang, Y. Long, High performance of nanostructured ZnO film gas sensor at room temperature, Sensors and Actuators, B: Chemical, 204 (2014) 666-672,	AIS=0,754
Articol 4	A.P Rambu , V.Nica, M.Dobromir, <i>Influence of Fe-doping on the optical and electrical properties of ZnO films</i> , Superlattices and Microstructures, 59 (2013) 87-96.	
Citat de		
1	D. Wang, D. Su, M.Zhong, Chromatic and near-infrared reflective properties of Fe ³⁺ doped KZnPO ₄ , Solar Energy, 110 (2014) 1-6,	AIS=0,859
Articol 5	A.P.Rambu , V.Tiron, V.Nica, N.Iftimie, <i>Functional properties of ZnO films prepared by thermal oxidation of metallic films</i> , Journal of Applied Physics, 113 (23) (2013) art. no. 234506	
Citat de		
1	Y.Chen, Z.Shen, Q.Jia, J.Zhao, Z.Zhao, H.Ji, A CuO-ZnO nanostructured p-n junction sensor for enhanced N-butanol detection, RSC Advances, 6(3) (2016) 2504-2511	AIS=0,747
Articol 6	A.P.Rambu , N.Iftimie, V.Nica, <i>Effect of In incorporation on the structural, electrical and gas sensing properties of ZnO Films</i> , Journal of Materials Science, 47(19) (2012) 6979-6985.	
Citat de		
1	W. Li, X. Wu, H. Liu, J. Chen, W. Tang, Y. Chen, Hierarchical hollow ZnO cubes constructed using self-sacrificial ZIF-8 frameworks and their enhanced benzene gas-sensing properties, New Journal of Chemistry, 39(9) (2015) 7060-7065	AIS=0,623
2	M.Thambidurai, J.Y.Kim, C.-M. Kang, N. Muthukumarasamy, H.-J. Song, J. Song, Y.Ko, D. Velauthapillai, C.Lee, Enhanced photovoltaic performance of inverted organic solar cells with In-doped ZnO as an electron extraction layer, Renewable Energy, 66 (2014) 433-442	AIS=0,884
3	Y.-H. Choi, D.-H. Kim, S.-H. Hong, K.S. Hong, H ₂ and C ₂ H ₅ OH sensing characteristics of mesoporous p-type CuO films prepared via a novel precursor-based ink solution route, Sensors and Actuators, B: Chemical, 178 (2013) 395-403,	AIS=0,742
4	C.-S. Lee, I.-D. Kim, J. H. Lee, Selective and sensitive detection of trimethylamine using ZnO-In ₂ O ₃ composite nanofibers, Sensors and Actuators, B: Chemical, 181 (2013) 463-470	AIS=0,742
5	X. Fu, J.Liu, T.Han, X. Zhang, F. Meng, J. Liu, A three-dimensional hierarchical CdO nanostructure: Preparation and its improved gas-diffusing performance in gas sensor, Sensors and Actuators, B: Chemical 184 (2013) 260-267	AIS=0,742
6	X. Shen, J. Sun, G. Zhu, Z. Ji, Z. Chen, N.Li, Morphological syntheses of ZnO nanostructures under microwave irradiation, Journal of Materials Science, 48(6) (2013) 2358-2364	AIS=0,601

Articol 7	A.P Rambu , The influence of oxidation time on the properties of oxidized zinc films, Superlattices and Microstructures, 52(3) (2012) 577-584.	
Citat de		
1	G. Li, H. Wang, Q. Wang, Y. Zhao, Z. Wang, J. Du, Y. Ma, Structure and properties of Co-doped ZnO films prepared by thermal oxidation under a high magnetic field, Nanoscale Research Letters, 10(1) (2015) 1-8	AIS=0,677
2	G. Li, H. Wang, Y. Zhao, Q. Wang, K. Wang, Z.Wang, Effect of oxidation temperature and high magnetic field on the structure and optical properties of Co-doped ZnO prepared by oxidizing Zn/Co bilayer thin films, Materials Chemistry and Physics, 162 (2015) art. no. 18107, 88-93	AIS=0,543
Articol 8	A.P.Rambu , N.Iftimie, G.I.Rusu, <i>Influence of the substrate nature on the properties of ZnO thin films</i> , Materials Scince and Engineering B, 177 (2012) 157– 163.	
Citat de		
1	P.Pascariu, A.Airinei, M.Grigoras, L.Vacareanu, F.Iacom, Metal-polymer nanocomposites based on Ni nanoparticles and polythiophene obtained by electrochemical method, Applied Surface Science 352 (2015) 95-102	AIS=0,549
2	P. Prepelita, V. Craciun, G. Sbarcea, F Garoi, Relevance of annealing on the stoichiometry and morphology of transparent thin films, Applied Surface Science 306 (2014) 47-51	AIS=0,549
3	R.S. Gaikwad, G.R. Patil, B.N. Pawar, R.S. Mane, S.-H. Han, Liquefied petroleum gas sensing properties of sprayed nanocrystalline zinc oxide thin films, Sensors and Actuators, A: Physical 189 (2013) 339-343	AIS=0,581
Articol 9	S. Condurache-Bota, N. Tigau, A. P. Rambu , G. G. Rusu, G. I. Rusu, <i>Optical and Electrical Properties of Thermally-Oxidized Bismuth Thin Films</i> , Applied Surface Science, 257(24) (2011) 10545-10550. (Corresponding Autor)	
Citat de		
1	Y. Wang, Y. Li, Metastable γ -Bi ₂ O ₃ tetrahedra: Phase-transition dominated by polyethylene glycol, photoluminescence and implications for internal structure by etch, Journal of Colloid and Interface Science, 454 (2015) 238-244	AIS=0,827
2	K Sadecka, J Toudert, HB Surma, DA Pawlak, Temperature and atmosphere tunability of the nanoplasmonic resonance of a volumetric eutectic-based Bi ₂ O ₃ -Ag metamaterial, Optics Express, 23 (15) (2015) 19098-19111	AIS=1,052
3	Y. Wang, J. Zhao, B. Zhou, X. Zhao, Z. Wang, Y. Zhu, Three-dimensional hierarchical flowerlike microstructures of α -Bi ₂ O ₃ constructed of decahedrons and rods, Journal of Alloys and Compounds, 592 (2014) 296-300	AIS=0,557
4	Y. Wang, J. Zhao, B. Zhou, X. Zhao, Z. Wang, Y. Zhu, Three-dimensional hierarchical flowerlike microstructures of α -Bi ₂ O ₃ constructed of decahedrons and rods, Journal of Alloys and Compounds, 592 (2014) 296-300	AIS=0,521
5	Y. Wang, J. Zhao, Y. Zhu, B.Zhou, X.Zhao, Z.Wang, Controlled fabrication and optical properties of 3D hierarchical α -Bi ₂ O ₃ siamesed microflowers, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 434 (2013) 296-302	AIS=0,555
Articol 10	A.P. Rambu , D. Sirbu, M. Dobromir, G. G. Rusu, <i>Electronic transport and optical properties of indium oxide thin films prepared by thermal oxidation</i> , Solid State Sciences, 14(10) (2012) 1543-1549.	
Citat de		
1	T. Georgakopoulos, M.V. Sofianou, K.Pomoni, C Trapalis, Journal of Alloys and Compounds, 586 (2014) 52-58,	AIS=0,557
Articol 11	A.P. Rambu , D. Sirbu, N. Iftimie, G.I. Rusu, <i>Polycrystalline ZnO–In₂O₃ thin films as gas sensors</i> , Thin Solid Films, 520 (2011) 1303–1307	
	Citat de	
1	L. Zhang, W. Jiao, The effect of microstructure on the gas properties of NiFe ₂ O ₄ sensors: Nanotube and nanoparticle, Sensors and Actuators B: Chemical 216 (2015) 293-297	AIS=0,742
2	Y.-J. Lee, J.-H. Kim, J.Kang, Characteristics of Y ₂ O ₃ -doped indium zinc oxide films grown by radio frequency magnetron co-sputtering system, Thin Solid Films 534 (2013) 599-602	AIS=0,510
Articol 12	A. P. Rambu , D. Sirbu, G. I. Rusu, <i>Influence of the oxidation conditions on the structural characteristics and optical properties of zinc oxide thin films</i> , Journal of Vacuum Science and Technology A 28 (2010) 1344 – 1348.	

Citat de		
1	H.-H. Park, X. Zhang, K.W. Lee, K.H.Kim, S.H. Jung, D.S. Park, Y.S. Choi, H.-B. Shin, H.K Sung, K.H. Park, H.K. Kang, H.-H Park, C.K. Ko, Position-controlled hydrothermal growth of ZnO nanorods on arbitrary substrates with a patterned seed layer via ultraviolet-assisted nanoimprint lithography, CrystEngComm, 15(17) (2013) 3463-3469	AIS=0,691
2	C.-H. Lee, J.H. Han, S.C. Schneider, F. Josse, Suspended and localized single nanostructure growth across a nanogap by an electric field Nanotechnology, 22(40) (2011) art.no 405301	AIS=1,236
3	J.H. Han, N. Yoshimizu, C. Jiang, A. Lal, C.H Lee, Electroluminescence from a suspended tip-synthesized nano ZnO dot, Applied Physics Letters, 98(12) (2011) Article number121113	AIS=1,387
Articol 13	A.P. Rambu , G.I. Rusu, <i>Effect of Preparation Conditions on the Microstructural Characteristics and Optical Properties of Oxidized Zinc Films</i> , Superlattices and Microstructures 47 (2010) 300 – 307	
Citat de		
1	G. Li, H. Wang, Y. Zhao, Q. Wang, K. Wang, Z. Wang, Effect of oxidation temperature and high magnetic field on the structure and optical properties of Co-doped ZnO prepared by oxidizing Zn/Co bilayer thin films, Materials Chemistry and Physics, 162(2015) art.no. 18107, 88-93	AIS=0,543
2	L. Yang, B. Duponchel, R. Cousin, C. Gennequin, G. Leroy, J. Gest, J.-C. Carru, Structure, morphology and electrical characterizations of direct current sputtered ZnO thin films, Thin Solid Films. 520(14) (2012) 4712-4716	AIS=0,551

Criteriul 2: suma AIS din toate publicațiile în calitate de autor principal ale candidatului și a publicațiilor cu AIS≥0,5 care citează articole publicate în calitate de autor principal de către candidat să fie ≥ 5

Criteriul 2 este îndeplinit: suma AIS din toate publicațiile în calitate de autor principal ale candidatului și a publicațiilor cu AIS≥0,5 care citează articole publicate în calitate de autor principal de către candidat este **37,062**.

i) Suma AIS din toate publicațiile în calitate de autor principal ale candidatului

1	A.P. Rambu , F. Tudorache, I. Petrila, G. G. Rusu, V. Nica, M. Dobromir, S. Tascu "Combined effects of p–n heterojunctions and active surface areas in a composite material dedicated to gas sensing applications" Journal of Materials Science: Materials in Electronics, 26 (2015) 9837-9844.	AIS=0,248
2	A.P. Rambu , N. Iftimie, V. Nica, M. Dobromir, S. Tascu, <i>Efficient methane detection by Co doping of ZnO thin films</i> , Superlattices and Microstructures, 78 (2014) 61-70	AIS=0,371
3	G.G.Rusu, A.Airinei, V.Hamciuc, A.P.Rambu , I.Caplanus, G.I.Rusu, On the Mechanism of Electrical Conduction in Thin Films of Some PolysulfonePoly(alkyleneoxide)Poly(dimethylsiloxane)Block Copolymers, Superlattices and Microstructures 65 (2014) 91–105 (Corresponding Autor)	AIS=0,371
4	A.P.Rambu , L.Ursu, N.Iftimie, V.Nica, M.Dobromir, F.Iacomi, <i>Study on Ni-doped ZnO films as gas sensors</i> , Applied Surface Science, 280 (2013) 598-604	AIS=0,550
5	A.P. Rambu , C.Doroftei, L.Ursu, F.Iacomi, <i>Structure and gas sensing properties of nanocrystalline Fe-doped ZnO films prepared by spin coating method</i> , Journal of Materials Science, 48(12) (2013) 4305-4312.	AIS=0,601
6	A.P Rambu , V.Nica, M.Dobromir, <i>Influence of Fe-doping on the optical and electrical properties of ZnO films</i> , Superlattices and Microstructures, 59 (2013) 87-96.	AIS=0,385
7	A.P.Rambu , V.Tiron, V.Nica, N.Iftimie, <i>Functional properties of ZnO films prepared by thermal oxidation of metallic films</i> , Journal of Applied Physics, 113 (23) (2013) art. no. 234506	AIS=0,724
8	A.P.Rambu , N.Iftimie, V.Nica, <i>Effect of In incorporation on the structural, electrical and gas sensing properties of ZnO Films</i> , Journal of Materials Science, 47(19) (2012) 6979-6985.	AIS=0,590
9	A.P Rambu , V.Nica, M.Dobromir, <i>Influence of Fe-doping on the optical and electrical</i>	AIS=0,385

	<i>properties of ZnO films</i> , Superlattices and Microstructures, 59 (2013) 87-96.	
10	S. Condurache-Bota, N. Tigau, A. P. Rambu , G. G. Rusu, G. I. Rusu, <i>Optical and Electrical Properties of Thermally-Oxidized Bismuth Thin Films</i> , Applied Surface Science, 257(24) (2011) 10545-10550. (Corresponding Autor)	AIS=0,550
11	A.P.Rambu , N.Iftimie, G.I.Rusu, <i>Influence of the substrate nature on the properties of ZnO thin films</i> , Materials Science and Engineering B, 177 (2012) 157– 163.	AIS=0,535
12	A.P. Rambu , D. Sirbu, M. Dobromir, G. G. Rusu, <i>Electronic transport and optical properties of indium oxide thin films prepared by thermal oxidation</i> , Solid State Sciences, 14(10) (2012) 1543-1549.	AIS=0,496
13	A.P. Rambu , D. Sirbu, N. Iftimie, G.I. Rusu, <i>Polycrystalline ZnO–In₂O₃ thin films as gas sensors</i> , Thin Solid Films, 520 (2011) 1303–1307	AIS=0,546
14	A. P. Rambu , D. Sirbu, G. I. Rusu, <i>Influence of the oxidation conditions on the structural characteristics and optical properties of zinc oxide thin films</i> , Journal of Vacuum Science and Technology A 28 (2010) 1344 – 1348.	AIS=0,452
15	A.P. Rambu , G.I. Rusu, <i>Effect of Preparation Conditions on the Microstructural Characteristics and Optical Properties of Oxidized Zinc Films</i> , Superlattices and Microstructures 47 (2010) 300 – 307	AIS=0,457
AIS		7,261

ii) Suma AIS a publicațiilor cu AIS≥0,5 care citează articole publicate în calitate de autor principal de către candidat (conform cu Tabelul 1)

1	D Sudha, P Sivakumar, Review on the photocatalytic activity of various composite catalysts, Chemical Engineering and Processing 97 (2015) 112-133	AIS=0,587
2	S Shalini, D Balamurugan, Ambient temperature operated acetaldehyde vapour detection of spray deposited cobalt doped zinc oxide thin film, Journal of Colloid and Interface Science, 466 (2016) 352-359	AIS=0,827
3	ZY Pang, ZP Yang, Y Chen, JM Zhang, QQ Wang, FL Huang, QF Wei, A room temperature ammonia gas sensor based on cellulose/TiO ₂ /PANI composite nanofibers, Colloids and Surfaces A-Physicochemical and Engineering Aspects, 494 (2016) 248-255	AIS=0,607
4	V.V. Ganbavle, S.I. Inamdar, G.L. Agawane, J.H. Kim, K.Y. Rajpure, Synthesis of fast response, highly sensitive and selective Ni:ZNO based NO ₂ sensor, Chemical Engineering Journal, 286 (2016) 36-47	AIS=0,945
5	P. Prepelita, V. Craciun, F. Garoi, A.Staicu, Effect of annealing treatment on the structural and optical properties of AZO samples, Applied Surface Science 352 (2015) 23-27	AIS=0,549
6	S. Bai, H. Liu, J. Sun, Y.Tian, R. Luo, D. Li, A. Chen, Mechanism of enhancing the formaldehyde sensing properties of Co ₃ O ₄ via Ag modification, RSC Advances, 5(60) (2015) 48619-48625	AIS=0,747
7	Q.Yin, R. Qiao, Z. Li, X.L. Zhang, L. Zhu, Hierarchical nanostructures of nickel-doped zinc oxide: Morphology controlled synthesis and enhanced visible-light photocatalytic activity, Journal of Alloys and Compounds, 618(2015) 318-325	AIS=0,557
8	C. Shao, Y. Chang, Y. Long, High performance of nanostructured ZnO film gas sensor at room temperature, Sensors and Actuators, B: Chemical, 204 (2014) 666-672	AIS=0,754
9	G.K. Mani, J.B.B. Rayappan, Selective detection of ammonia using spray pyrolysis deposited pure and nickel doped ZnO thin films, Applied Surface Science, 311 (2014) 405-412	AIS=0,549
10	P. Prepelita, V. Craciun, G. Sbarcea, F. Garoi, Relevance of annealing on the stoichiometry and morphology of transparent thin films, Applied Surface Science, 306 (2014) 47-51	AIS=0,549
11	K.G. Saw, S.S. Tneh, G.L. Tan, F.K. Yam, S.S. Ng, Z. Hassan, Ohmic-Rectifying Conversion of Ni Contacts on ZnO and the Possible Determination of ZnO Thin Film Surface Polarity, PLOS ONE, 9(1) (2014) art. no. e86544	AIS=1,209
12	Y.C. Liang, W.K. Liao, X.S. Deng, Synthesis and substantially enhanced gas sensing sensitivity of homogeneously nanoscale Pd- and Au-particle decorated ZnO nanostructures, Journal of Alloys and Compounds, 599(2014) 87-92	AIS=0,557

13	G. Li, H. Wang, Y. Zhao, Q. Wang, K. Wang, Z. Wang, Effect of oxidation temperature and high magnetic field on the structure and optical properties of Co-doped ZnO prepared by oxidizing Zn/Co bilayer thin films, Materials Chemistry and Physics, 162 (2015) art. no. 18107, 88-93	AIS=0,543
14	R. Knut, U. Lagerqvist, P. Palmgren, P. Pal, P. Svedlindh, A. Pohl, O. Karis, Photoinduced reduction of surface states in Fe:ZnO, Journal of Chemical Physics, 142(20) (2015) 204703	AIS=0,916
15	M.M. Hassan, W. Khan, A.H. Naqvi, P. Mishra, S.S. Islam, Fe dopants enhancing ethanol sensitivity of ZnO thin film deposited by RF magnetron sputtering, Journal of Materials Science, 49(18) (2014) 6248-6256,	AIS=0,592
16	C. Shao, Y. Chang, Y. Long, High performance of nanostructured ZnO film gas sensor at room temperature, Sensors and Actuators, B: Chemical, 204 (2014) 666-672,	AIS=0,754
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18	Y.Chen, Z.Shen, Q.Jia, J.Zhao, Z.Zhao, H.Ji, A CuO-ZnO nanostructured p-n junction sensor for enhanced N-butanol detection, RSC Advances, 6(3) (2016) 2504-2511	AIS=0,747
19	W. Li, X. Wu, H. Liu, J. Chen, W. Tang, Y. Chen, Hierarchical hollow ZnO cubes constructed using self-sacrificial ZIF-8 frameworks and their enhanced benzene gas-sensing properties, New Journal of Chemistry, 39(9) (2015) 7060-7065	AIS=0,623
20	M.Thambidurai, J.Y.Kim, C.-M. Kang, N. Muthukumarasamy, H.-J. Song, J. Song, Y.Ko, D. Velauthapillai, C.Lee, Enhanced photovoltaic performance of inverted organic solar cells with In-doped ZnO as an electron extraction layer, Renewable Energy, 66 (2014) 433-442	AIS=0,884
21	Y.-H. Choi, D.-H. Kim, S.-H. Hong, K.S. Hong, H ₂ and C ₂ H ₅ OH sensing characteristics of mesoporous p-type CuO films prepared via a novel precursor-based ink solution route, Sensors and Actuators, B: Chemical, 178 (2013)395-403,	AIS=0,742
22	C.-S. Lee, I.-D. Kim, J. H. Lee, Selective and sensitive detection of trimethylamine using ZnO-In ₂ O ₃ composite nanofibers, Sensors and Actuators, B: Chemical, 181 (2013) 463-470	AIS=0,742
23	X. Fu, J.Liu, T.Han, X. Zhang, F. Meng, J. Liu, A three-dimensional hierarchical CdO nanostructure: Preparation and its improved gas-diffusing performance in gas sensor, Sensors and Actuators, B: Chemical 184 (2013)260-267	AIS=0,742
24	X. Shen, J. Sun, G. Zhu, Z. Ji, Z. Chen, N.Li, Morphological syntheses of ZnO nanostructures under microwave irradiation, Journal of Materials Science, 48(6) (2013) 2358-2364	AIS=0,601
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26	G. Li, H. Wang, Y. Zhao, Q. Wang, K. Wang, Z.Wang, Effect of oxidation temperature and high magnetic field on the structure and optical properties of Co-doped ZnO prepared by oxidizing Zn/Co bilayer thin films, Materials Chemistry and Physics, 162 (2015) art. no. 18107, 88-93	AIS=0,543
27	P.Pascariu, A.Airinei, M.Grigoras, L.Vacareanu, F.Iacomi, Metal-polymer nanocomposites based on Ni nanoparticles and polythiophene obtained by electrochemical method, Applied Surface Science 352 (2015) 95-102	AIS=0,549
28	P. Prepelita, V. Craciun, G. Sbarcea, F Garoi, Relevance of annealing on the stoichiometry and morphology of transparent thin films, Applied Surface Science 306 (2014) 47-51	AIS=0,549
29	R.S. Gaikwad, G.R. Patil, B.N. Pawar, R.S. Mane, S.-H. Han, Liquefied petroleum gas sensing properties of sprayed nanocrystalline zinc oxide thin films, Sensors and Actuators, A: Physical 189 (2013) 339-343	AIS=0,581
30	Y. Wang, Y. Li, Metastable γ -Bi ₂ O ₃ tetrahedra: Phase-transition dominated by polyethylene glycol, photoluminescence and implications for internal structure by etch, Journal of Colloid and Interface Science, 454 (2015) 238-244	AIS=0,827
31	K Sadecka, J Toudert, HB Surma, DA Pawlak, Temperature and atmosphere tunability of the nanoplasmonic resonance of a volumetric eutectic-based Bi ₂ O ₃ -Ag metamaterial, Optics Express, 23 (15) (2015) 19098-19111	AIS=1,052
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