Necmettin Kilinc

List of Publications by Year
in descending order

52 papers	1,759 citations	236912 25 h-index	265191 42 g-index
53 all docs	53 docs citations	53 times ranked	2461 citing authors

#	Article	IF	Citations
1	Synthesis of highly-ordered TiO2 nanotubes for a hydrogen sensor. International Journal of Hydrogen Energy, 2010, 35, 4420-4427.	7.1	216
2	Electrochemically growth of Pd doped ZnO nanorods on QCM for room temperature VOC sensors. Sensors and Actuators B: Chemical, 2016, 222, 280-289.	7.8	96
3	Fabrication of ZnO nanorods for NO2 sensor applications: Effect of dimensions and electrode position. Journal of Alloys and Compounds, 2013, 581, 196-201.	5.5	88
4	Structure and electrical properties of Mgâ€doped ZnO nanoparticles. Crystal Research and Technology, 2010, 45, 529-538.	1.3	85
5	A comparative study on the NO2 gas sensing properties of ZnO thin films, nanowires and nanorods. Thin Solid Films, 2011, 520, 932-938.	1.8	84
6	Fabrication of 1D ZnO nanostructures on MEMS cantilever for VOC sensor application. Sensors and Actuators B: Chemical, 2014, 202, 357-364.	7.8	83
7	Structural, electrical transport and NO2 sensing properties of Y-doped ZnO thin films. Journal of Alloys and Compounds, 2012, 536, 138-144.	5.5	70
8	Pd thin films on flexible substrate for hydrogen sensor. Journal of Alloys and Compounds, 2016, 674, 179-184.	5.5	66
9	Electrical and VOC sensing properties of anatase and rutile TiO2 nanotubes. Journal of Alloys and Compounds, 2014, 616, 89-96.	5.5	61
10	Electrical conduction and NO2 gas sensing properties of ZnO nanorods. Applied Surface Science, 2014, 303, 90-96.	6.1	54
11	Recent studies chemical sensors based on phthalocyanines. Journal of Porphyrins and Phthalocyanines, 2009, 13, 1179-1187.	0.8	51
12	Fabrication of TiO2 nanotubes by anodization of Ti thin films for VOC sensing. Thin Solid Films, 2011, 520, 953-958.	1.8	51
13	Precision density and viscosity measurement using two cantilevers with different widths. Sensors and Actuators A: Physical, 2015, 232, 141-147.	4.1	51
14	Hydrogen sensing properties of ZnO nanorods: Effects of annealing, temperature and electrode structure. International Journal of Hydrogen Energy, 2014, 39, 5194-5201.	7.1	48
15	A cartridge based sensor array platform for multiple coagulation measurements from plasma. Lab on A Chip, 2015, 15, 113-120.	6.0	48
16	Optical sensor for hydrogen gas based on a palladium-coated polymer microresonator. Sensors and Actuators B: Chemical, 2015, 212, 78-83.	7.8	44
17	Simple fabrication of hexagonally well-ordered AAO template onÂsilicon substrate in two dimensions. Applied Physics A: Materials Science and Processing, 2009, 95, 781-787.	2.3	39
18	Gas Sensor Application of Hydrothermally Growth TiO 2 Nanorods. Procedia Engineering, 2015, 120, 1162-1165.	1.2	39

#	Article	IF	Citations
19	Fabrication of vertically aligned Pd nanowire array in AAO template by electrodeposition using neutral electrolyte. Nanoscale Research Letters, 2010, 5, 1137-1143.	5.7	38
20	Fabrication of ZnO nanowires and nanorods. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1062-1065.	2.7	35
21	Electrical and NO2 sensing properties of liquid crystalline phthalocyanine thin films. Sensors and Actuators B: Chemical, 2012, 173, 203-210.	7.8	33
22	Temperature dependence of a nanoporous Pd film hydrogen sensor based on an AAO template on Si. Applied Physics A: Materials Science and Processing, 2009, 97, 745-750.	2.3	30
23	Synthesis, characterization, mesomorphic and electrical properties of tetrakis(alkylthio)-substituted lutetium(III) bisphthalocyanines. Synthetic Metals, 2009, 159, 13-21.	3.9	28
24	Fabrication and gas sensing properties of C-doped and un-doped TiO2 nanotubes. Ceramics International, 2014, 40, 109-115.	4.8	28
25	Sputtered platinum thin films for resistive hydrogen sensor application. Materials Letters, 2016, 177, 104-107.	2.6	28
26	Poly(3-Methylthiophene) Thin Films Deposited Electrochemically on QCMs for the Sensing of Volatile Organic Compounds. Sensors, 2016, 16, 423.	3.8	26
27	Investigation of the hydrogen gas sensing properties of nanoporous Pd alloy films based on AAO templates. Journal of Alloys and Compounds, 2011, 509, 4701-4706.	5.5	25
28	Tetrakis(alkylthio)-substituted lutetium bisphthalocyanines for sensing NO2 and O3. Sensors and Actuators B: Chemical, 2009, 142, 73-81.	7.8	20
29	Fabrication of Pdâ€“Fe nanowires with a high aspect ratio by AAO template-assisted electrodeposition. Journal of Alloys and Compounds, 2011, 509, 3894-3898.	5.5	20
30	Oxidizing gas sensing properties of mesogenic copper octakisalkylthiophthalocyanine chemoresistive sensors. Thin Solid Films, 2009, 517, 6206-6210.	1.8	18
31	Volatile organic compounds sensing properties of tetrakis(alkylthio)-substituted lutetium(III) bisphthalocyanines thin films. Talanta, 2009, 80, 263-268.	5.5	17
32	Structural, electrical and H2 sensing properties of copper oxide nanowires on glass substrate by anodization. Sensors and Actuators B: Chemical, 2016, 236, 1118-1125.	7.8	17
33	Fabrication of ZnO nanowires at room temperature byÂcathodically induced solâ€“gel method. Applied Physics A: Materials Science and Processing, 2010, 99, 73-78.	2.3	15
34	Temperature-dependent H2 gas-sensing properties of fabricated Pd nanowires using highly oriented pyrolytic graphite. Journal of Applied Physics, 2010, 108, 054317.	2.5	15
35	Resistive Hydrogen Sensors Based on Nanostructured Metals and Metal Alloys. Nanoscience and Nanotechnology Letters, 2013, 5, 825-841.	0.4	13
36	Synthesis and analysis of TiO2 nanotubes by electrochemical anodization and machine learning method for hydrogen sensors. Microelectronic Engineering, 2022, 262, 111834.	2.4	13

#	Article	IF	Citations
37	Palladium and platinum thin films for low-concentration resistive hydrogen sensor: a comparative study. Journal of Materials Science: Materials in Electronics, 2021, 32, 5567-5578.	2.2	11
38	Platinum-Nickel alloy thin films for low concentration hydrogen sensor application. Journal of Alloys and Compounds, 2022, 892, 162237.	5.5	9
39	Electrochemical Growth of Pd Doped ZnO Nanorods. Journal of the Electrochemical Society, 2015, 162, D142-D146.	2.9	8
40	Hybrid liquid crystalline zinc phthalocyanine@Cu2O nanowires for NO2 sensor application. Sensors and Actuators B: Chemical, 2021, 345, 130431.	7.8	8
41	MEMS based blood plasma viscosity sensor without electrical connections. , 2013, , .		7
42	The Effects of Annealing on Gas Sensing Properties of ZnO Nanorod Sensors Coated with Pd and Pt. Procedia Engineering, 2012, 47, 434-437.	1.2	6
43	LoC sensor array platform for real-time coagulation measurements. , 2014, , .		3
44	Adsorption of Phthalocyanines on Stoichiometric and Reduced Rutile TiO2 (110). ECS Journal of Solid State Science and Technology, 2020, 9, 061021.	1.8	3
45	Effect of Ambient Atmosphere on Photoconductivity of TiO₂ Nanotube-CuPc Heterojunction. Science of Advanced Materials, 2013, 5, 373-379.	0.7	3
46	Electrical Properties of Mesomorphic Phthalocyanine-Carbon Nanotube Composites. Sensor Letters, 2008, 6, 607-612.	0.4	3
47	Electrical and NO‹sub›2‹/sub› Sensing Properties of a Series of Liquid Crystalline Porphyrins. ECS Journal of Solid State Science and Technology, 2020, 9, 061027.	1.8	3
48	‹i›Î±‹/i›â€Thiophene endâ€capped styrene copolymer containing fullerene pendant moieties: Synthesis, characterization, and gas sensing properties. Journal of Applied Polymer Science, 2016, 133, .	2.6	1
49	P2.4.1 Effect of ZnO nanorods density on NO2 sensing. , 2012, , .		1
50	Two cantilever based sytem for viscosity and density monitoring. , 2015, , .		0
51	Hydrogen gas sensing using palladium-coated microdisk microresonators. Proceedings of SPIE, 2015, , .	0.8	0
52	V2O5 Thin Film Coated QCM for Amine Sensing in Liquid Media. ECS Meeting Abstracts, 2021, MA2021-02, 1601-1601.	0.0	0