

Sang Sub Kim

List of Publications by Year in descending order

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204
papers

9,867
citations

24978

57
h-index

49773

87
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205
all docs

205
docs citations

205
times ranked

7217
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly conjugated three-dimensional van der Waals heterostructure-based nanocomposite films for ultrahigh-responsive TEA gas sensors at room temperature. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2995-3008.	5.2	20
2	Counter-Intuitive Magneto-Water-Wetting Effect to CO ₂ Adsorption at Room Temperature Using MgO/Mg(OH) ₂ Nanocomposites. <i>Materials</i> , 2022, 15, 983.	1.3	2
3	Gate-controlled gas sensor utilizing 1Dâ€“2D hybrid nanowires network. <i>IScience</i> , 2022, 25, 103660.	1.9	4
4	Room temperature NO ₂ sensing performance of a-C-decorated TeO ₂ nanowires. <i>Sensors and Actuators B: Chemical</i> , 2022, 363, 131853.	4.0	12
5	State-of-the-Art Research on Chemiresistive Gas Sensors in Korea: Emphasis on the Achievements of the Research Labs of Professors Hyoun Woo Kim and Sang Sub Kim. <i>Sensors</i> , 2022, 22, 61.	2.1	5
6	Resistive-Based Gas Sensors Using Quantum Dots: A Review. <i>Sensors</i> , 2022, 22, 4369.	2.1	20
7	Fracture Behavior of Ion-Nitrided AISI 4140 Steel in accordance with Variable Applied Current Density. <i>Advances in Materials Science and Engineering</i> , 2022, 2022, 1-10.	1.0	1
8	Hydrogen sensing characteristics of Pd-decorated ultrathin ZnO nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129222.	4.0	35
9	SnO ₂ nanowires decorated by insulating amorphous carbon layers for improved room-temperature NO ₂ sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128801.	4.0	32
10	Functionalization of zirconium-based metalâ€“organic frameworks for gas sensing applications. <i>Journal of Hazardous Materials</i> , 2021, 403, 124104.	6.5	42
11	Recent advances in energy-saving chemiresistive gas sensors: A review. <i>Nano Energy</i> , 2021, 79, 105369.	8.2	282
12	Boosting the sensing properties of resistive-based gas sensors by irradiation techniques: a review. <i>Nanoscale</i> , 2021, 13, 4728-4757.	2.8	33
13	Reduced Graphene Oxide (rGO)-Loaded Metal-Oxide Nanofiber Gas Sensors: An Overview. <i>Sensors</i> , 2021, 21, 1352.	2.1	60
14	CsPbI ₃ /NC-Sensitized SnO ₂ /Multiple-Walled Carbon Nanotube Self-Assembled Nanomaterials with Highly Selective and Sensitive NH ₃ Sensing Performance at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14447-14457.	4.0	15
15	Synergistic effects of SnO ₂ and Au nanoparticles decorated on WS ₂ nanosheets for flexible, room-temperature CO gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129493.	4.0	79
16	Selective gas detection and quantification using a resistive sensor based on Pd-decorated soda-lime glass. <i>Sensors and Actuators B: Chemical</i> , 2021, 335, 129714.	4.0	10
17	Cu _x O Nanostructure-Based Gas Sensors for H ₂ S Detection: An Overview. <i>Chemosensors</i> , 2021, 9, 127.	1.8	23
18	Achievement of self-heated sensing of hazardous gases by WS ₂ (core)â€“SnO ₂ (shell) nanosheets. <i>Journal of Hazardous Materials</i> , 2021, 412, 125196.	6.5	17

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19	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 303001.	0.7	49
20	Proton-beam engineered surface-point defects for highly sensitive and reliable NO ₂ sensing under humid environments. <i>Journal of Hazardous Materials</i> , 2021, 416, 125841.	6.5	34
21	Effect of Ag Addition on the Gas-Sensing Properties of Nanostructured Resistive-Based Gas Sensors: An Overview. <i>Sensors</i> , 2021, 21, 6454.	2.1	30
22	How femtosecond laser irradiation can affect the gas sensing behavior of SnO ₂ nanowires toward reducing and oxidizing gases. <i>Sensors and Actuators B: Chemical</i> , 2021, 342, 130036.	4.0	8
23	Humidity-resistant gas sensors based on SnO ₂ nanowires coated with a porous alumina nanomembrane by molecular layer deposition. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130302.	4.0	32
24	Chemical-recognition-driven selectivity of SnO ₂ -nanowire-based gas sensors. <i>Nano Today</i> , 2021, 40, 101265.	6.2	25
25	Decoration of multi-walled carbon nanotubes with CuO/Cu ₂ O nanoparticles for selective sensing of H ₂ S gas. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130176.	4.0	41
26	Electrowetting-on-dielectric behavior of micro-nano hierarchical SiO ₂ layers decorated with noble metals. <i>Ceramics International</i> , 2021, 47, 28312-28320.	2.3	5
27	Facile synthesis of metal-organic framework-derived ZnO/CuO nanocomposites for highly sensitive and selective H ₂ S gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130741.	4.0	47
28	Preparation of n-ZnO/p-Co ₃ O ₄ heterojunctions from zeolitic imidazolate frameworks (ZIF-8/ZIF-67) for sensing low ethanol concentrations. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130684.	4.0	40
29	Porous Si/SnO ₂ nanowires heterostructures for H ₂ S gas sensing. <i>Ceramics International</i> , 2020, 46, 604-611.	2.3	61
30	Optimization of the surface coverage of metal nanoparticles on nanowires gas sensors to achieve the optimal sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127196.	4.0	44
31	Enhancement of gas sensing by implantation of Sb-ions in SnO ₂ nanowires. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127307.	4.0	52
32	Variation of shell thickness in ZnO-SnO ₂ core-shell nanowires for optimizing sensing behaviors to CO, C ₆ H ₆ , and C ₇ H ₈ gases. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127150.	4.0	56
33	Electrowetting-on-dielectric characteristics of ZnO nanorods. <i>Scientific Reports</i> , 2020, 10, 14194.	1.6	15
34	ZnO Nanosheets Modified with Graphene Quantum Dots and SnO ₂ Quantum Nanoparticles for Room-Temperature H ₂ S Sensing. <i>ACS Applied Nano Materials</i> , 2020, 3, 5220-5230.	2.4	53
35	Changes in characteristics of Pt-functionalized RGO nanocomposites by electron beam irradiation for room temperature NO ₂ sensing. <i>Ceramics International</i> , 2020, 46, 21638-21646.	2.3	19
36	Hybridization of silicon nanowires with TeO ₂ branch structures and Pt nanoparticles for highly sensitive and selective toluene sensing. <i>Applied Surface Science</i> , 2020, 525, 146620.	3.1	14

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37	Realization of selective CO detection by Ni-incorporated metal-organic frameworks. <i>Sensors and Actuators B: Chemical</i> , 2020, 315, 128110.	4.0	30
38	Indium-implantation-induced enhancement of gas sensing behaviors of SnO ₂ nanowires by the formation of homo-core-shell structure. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128475.	4.0	29
39	Interface treatment using amorphous-carbon and its applications. <i>Scientific Reports</i> , 2020, 10, 4093.	1.6	3
40	Pd-decorated Si nano-horns as sensitive and selective hydrogen gas sensors. <i>Materials Research Bulletin</i> , 2020, 132, 110985.	2.7	14
41	Gas-sensing behaviors of TiO ₂ -layer-modified SnO ₂ quantum dots in self-heating mode and effects of the TiO ₂ layer. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127870.	4.0	26
42	Synthesis of Au/SnO ₂ nanostructures allowing process variable control. <i>Scientific Reports</i> , 2020, 10, 346.	1.6	2
43	Flexible and low power CO gas sensor with Au-functionalized 2D WS ₂ nanoflakes. <i>Sensors and Actuators B: Chemical</i> , 2020, 313, 128040.	4.0	80
44	Pd-functionalized core-shell composite nanowires for self-heating, sensitive, and benzene-selective gas sensors. <i>Sensors and Actuators A: Physical</i> , 2020, 308, 112011.	2.0	15
45	Enhanced humidity sensing properties of Fe-doped CeO ₂ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 8815-8824.	1.1	4
46	Exploration of ZrO ₂ -shelled nanowires for chemiresistive detection of NO ₂ gas. <i>Sensors and Actuators B: Chemical</i> , 2020, 319, 128309.	4.0	23
47	Effect of Noble Metals on Hydrogen Sensing Properties of Metal Oxide-based Gas Sensors. <i>Journal of Sensor Science and Technology</i> , 2020, 29, 365-368.	0.1	8
48	Atomic-layered Tungsten Diselenide-based Porous 3D Architecturing for Highly Sensitive Chemical Sensors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900340.	1.2	11
49	Dimethylenebis-(tetra-decyldimethylammonium Bromide)-Driven Metal Nanoparticles: Hg ²⁺ Sensing a Competency. <i>ACS Omega</i> , 2019, 4, 13782-13789.	1.6	2
50	Role of Ruthenium in the Dielectric, Magnetic Properties of Nickel Ferrite (Ru ²⁺ NiFe ₂ O ₄) Nanoparticles and Their Application in Hydrogen Sensors. <i>ACS Omega</i> , 2019, 4, 12919-12926.	1.6	26
51	Improvement of NO ₂ Sensing Properties in Pd Functionalized Reduced Graphene Oxides by Electron-Beam Irradiation. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	18
52	Fast Semiconductor-Metal Bidirectional Transition by Flame Chemical Vapor Deposition. <i>ACS Omega</i> , 2019, 4, 11824-11831.	1.6	3
53	Incorporation of metal nanoparticles in soda-lime glass sensors for enhancing selective sensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126673.	4.0	11
54	Sub-ppm Formaldehyde Detection by n-n TiO ₂ @SnO ₂ Nanocomposites. <i>Sensors</i> , 2019, 19, 3182.	2.1	32

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55	Atomic layer deposition (ALD) on inorganic or polymeric membranes. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	36
56	Gas Sensing Properties of Mg-Incorporated Metal-Organic Frameworks. <i>Sensors</i> , 2019, 19, 3323.	2.1	20
57	New type of doping effect via metallization of surface reduction in SnO ₂ . <i>Scientific Reports</i> , 2019, 9, 8129.	1.6	3
58	ppb-Level Selective Hydrogen Gas Detection of Pd-Functionalized In ₂ O ₃ -Loaded ZnO Nanofiber Gas Sensors. <i>Sensors</i> , 2019, 19, 4276.	2.1	39
59	Realization of H ₂ S sensing by Pd-functionalized networked CuO nanowires in self-heating mode. <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126965.	4.0	54
60	Room-temperature NO ₂ sensor based on electrochemically etched porous silicon. <i>Journal of Alloys and Compounds</i> , 2019, 811, 151975.	2.8	26
61	Co ₃ O ₄ -loaded ZnO nanofibers for excellent hydrogen sensing. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27499-27510.	3.8	44
62	Selective H ₂ S sensing without external heat by a synergy effect in self-heated CuO-functionalized SnO ₂ -ZnO core-shell nanowires. <i>Sensors and Actuators B: Chemical</i> , 2019, 300, 126981.	4.0	42
63	Promotional effects of ZnO-branching and Au-functionalization on the surface of SnO ₂ nanowires for NO ₂ sensing. <i>Journal of Alloys and Compounds</i> , 2019, 786, 27-39.	2.8	56
64	An overview on how Pd on resistive-based nanomaterial gas sensors can enhance response toward hydrogen gas. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20552-20571.	3.8	91
65	Low-Voltage-Driven Sensors Based on ZnO Nanowires for Room-Temperature Detection of NO ₂ and CO Gases. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24172-24183.	4.0	74
66	Realization of Au-decorated WS ₂ nanosheets as low power-consumption and selective gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126659.	4.0	81
67	Incorporation of Pt Nanoparticles on the Surface of TeO ₂ -Branched Porous Si Nanowire Structures for Enhanced Room-Temperature Gas Sensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6647-6655.	0.9	3
68	Pd functionalization on ZnO nanowires for enhanced sensitivity and selectivity to hydrogen gas. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126693.	4.0	70
69	Enhancement of CO and NO ₂ sensing in n-SnO ₂ -p-Cu ₂ O core-shell nanofibers by shell optimization. <i>Journal of Hazardous Materials</i> , 2019, 376, 68-82.	6.5	59
70	Gasochromic WO ₃ Nanostructures for the Detection of Hydrogen Gas: An Overview. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1775.	1.3	49
71	Toluene- and benzene-selective gas sensors based on Pt- and Pd-functionalized ZnO nanowires in self-heating mode. <i>Sensors and Actuators B: Chemical</i> , 2019, 294, 78-88.	4.0	107
72	Design of supersensitive and selective ZnO-nanofiber-based sensors for H ₂ gas sensing by electron-beam irradiation. <i>Sensors and Actuators B: Chemical</i> , 2019, 293, 210-223.	4.0	103

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73	Selective H ₂ S-sensing performance of Si nanowires through the formation of ZnO shells with Au functionalization. <i>Sensors and Actuators B: Chemical</i> , 2019, 289, 1-14.	4.0	35
74	Highly efficient hydrogen sensors based on Pd nanoparticles supported on boron nitride coated ZnO nanowires. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8107-8116.	5.2	114
75	Enhanced Hydrogen Detection in ppb-Level by Electrospun SnO ₂ -Loaded ZnO Nanofibers. <i>Sensors</i> , 2019, 19, 726.	2.1	27
76	Nanostructured Semiconducting Metal Oxide Gas Sensors for Acetaldehyde Detection. <i>Chemosensors</i> , 2019, 7, 56.	1.8	26
77	Resistive gas sensors based on metal-oxide nanowires. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	148
78	A Novel X-Ray Radiation Sensor Based on Networked SnO ₂ Nanowires. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4878.	1.3	10
79	Improving the hydrogen sensing properties of SnO ₂ nanowire-based conductometric sensors by Pd-decoration. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 358-367.	4.0	93
80	Combination of Pd loading and electron beam irradiation for superior hydrogen sensing of electrospun ZnO nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 628-637.	4.0	56
81	Predictive gas sensor based on thermal fingerprints from Pt-SnO ₂ nanowires. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 670-678.	4.0	63
82	Enhancement of H ₂ S sensing performance of p-CuO nanofibers by loading p-reduced graphene oxide nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 453-461.	4.0	71
83	Synthesis, Characterization and Gas-Sensing Properties of Pristine and SnS ₂ Functionalized TeO ₂ Nanowires. <i>Metals and Materials International</i> , 2019, 25, 805-813.	1.8	15
84	Design and fabrication of highly selective H ₂ sensors based on SIM-1 nanomembrane-coated ZnO nanowires. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 410-418.	4.0	37
85	Super anticorrosion of aluminized steel by a controlled Mg supply. <i>Scientific Reports</i> , 2018, 8, 3760.	1.6	3
86	Dual sensitization of MWCNTs by co-decoration with p- and n-type metal oxide nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 150-163.	4.0	23
87	CuO@TiO ₂ core-shell nanowires: Sensing mechanism and p/n sensing-type transition. <i>Applied Surface Science</i> , 2018, 448, 489-497.	3.1	44
88	Low power-consumption CO gas sensors based on Au-functionalized SnO ₂ -ZnO core-shell nanowires. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 597-607.	4.0	118
89	Superhydrophobic and oleophilic micro-nano hierarchical Pd-decorated SiO ₂ layers. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3817-3829.	1.9	5
90	Converting the Conducting Behavior of Graphene Oxides from n-Type to p-Type via Electron-Beam Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7324-7333.	4.0	18

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91	Porous Si nanowires for highly selective room-temperature NO ₂ gas sensing. <i>Nanotechnology</i> , 2018, 29, 294001.	1.3	23
92	Gas sensing properties of standard soda-lime glass. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 344-353.	4.0	12
93	Resistive-based gas sensors for detection of benzene, toluene and xylene (BTX) gases: a review. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4342-4370.	2.7	255
94	Room Temperature Hard Radiation Detectors Based on Solid State Compound Semiconductors: An Overview. <i>Electronic Materials Letters</i> , 2018, 14, 261-287.	1.0	44
95	Sensing behavior to ppm-level gases and synergistic sensing mechanism in metal-functionalized rGO-loaded ZnO nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1884-1896.	4.0	100
96	Fabrication and gas sensing properties of vertically aligned Si nanowires. <i>Applied Surface Science</i> , 2018, 427, 215-226.	3.1	41
97	SnO ₂ (n)-NiO (p) composite nanowebbs: Gas sensing properties and sensing mechanisms. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 204-214.	4.0	115
98	How shell thickness can affect the gas sensing properties of nanostructured materials: Survey of literature. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 270-294.	4.0	117
99	Significant Enhancement of Hydrogen-Sensing Properties of ZnO Nanofibers through NiO Loading. <i>Nanomaterials</i> , 2018, 8, 902.	1.9	41
100	High-Performance Nanowire Hydrogen Sensors by Exploiting the Synergistic Effect of Pd Nanoparticles and Metal-Organic Framework Membranes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34765-34773.	4.0	135
101	Selective NO ₂ sensor based on Bi ₂ O ₃ branched SnO ₂ nanowires. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 356-369.	4.0	75
102	Resistance-based H ₂ S gas sensors using metal oxide nanostructures: A review of recent advances. <i>Journal of Hazardous Materials</i> , 2018, 357, 314-331.	6.5	298
103	Electrowetting on dielectric (EWOD) properties of Teflon-coated electrosprayed silica layers in air and oil media and the influence of electric leakage. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6808-6815.	2.7	19
104	Enhancement of the benzene-sensing performance of Si nanowires through the incorporation of TeO ₂ heterointerfaces and Pd-sensitization. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 1085-1097.	4.0	35
105	Synthesis and Selective Sensing Properties of rGO/Metal-Coloaded SnO ₂ Nanofibers. <i>Journal of Electronic Materials</i> , 2017, 46, 3531-3541.	1.0	30
106	Enhancement of gas sensing properties by the functionalization of ZnO-branched SnO ₂ nanowires with Cr ₂ O ₃ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 656-666.	4.0	56
107	Extremely sensitive and selective sub-ppm CO detection by the synergistic effect of Au nanoparticles and core-shell nanowires. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 177-188.	4.0	63
108	Self-heating effects on the toluene sensing of Pt-functionalized SnO ₂ @ZnO core-shell nanowires. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 781-794.	4.0	41

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109	Synthesis, characterization and gas sensing properties of ZnO-decorated MWCNTs. Applied Surface Science, 2017, 413, 242-252.	3.1	86
110	Optimization and gas sensing mechanism of n-SnO ₂ -p-Co ₃ O ₄ composite nanofibers. Sensors and Actuators B: Chemical, 2017, 248, 500-511.	4.0	116
111	Synthesis of zinc oxide semiconductors-graphene nanocomposites by microwave irradiation for application to gas sensors. Sensors and Actuators B: Chemical, 2017, 249, 590-601.	4.0	142
112	Microwave-Assisted Synthesis of Graphene-SnO ₂ Nanocomposites and Their Applications in Gas Sensors. ACS Applied Materials & Interfaces, 2017, 9, 31667-31682.	4.0	149
113	Ultra-sensitive benzene detection by a novel approach: Core-shell nanowires combined with the Pd-functionalization. Sensors and Actuators B: Chemical, 2017, 239, 578-585.	4.0	43
114	Optimization of metal nanoparticle amount on SnO ₂ nanowires to achieve superior gas sensing properties. Sensors and Actuators B: Chemical, 2017, 238, 374-380.	4.0	30
115	Modification of SnO ₂ Nanowires with TeO ₂ Branches and Their Enhanced Gas Sensing. Proceedings (mdpi), 2017, 1, 404.	0.2	3
116	Synthesis and gas sensing properties of membrane template-grown hollow ZnO nanowires. Nano Convergence, 2017, 4, 27.	6.3	17
117	Electrospun Metal Oxide Composite Nanofibers Gas Sensors: A Review. Journal of the Korean Ceramic Society, 2017, 54, 366-379.	1.1	90
118	Growth of Networked TiO ₂ Nanowires for Gas-Sensing Applications. Journal of Nanoscience and Nanotechnology, 2016, 16, 11580-11585.	0.9	10
119	Improvement of Toluene-Sensing Performance of SnO ₂ Nanofibers by Pt Functionalization. Sensors, 2016, 16, 1857.	2.1	21
120	Selective Improvement of NO ₂ Gas Sensing Behavior in SnO ₂ Nanowires by Ion-Beam Irradiation. ACS Applied Materials & Interfaces, 2016, 8, 13646-13658.	4.0	110
121	Crystallinity dependent gas-sensing abilities of ZnO hollow fibers. Metals and Materials International, 2016, 22, 942-946.	1.8	11
122	Grain-Size-Tuned Highly H ₂ -Selective Chemiresistive Sensors Based on ZnO-SnO ₂ Composite Nanofibers. ACS Applied Materials & Interfaces, 2016, 8, 2486-2494.	4.0	83
123	Highly Selective Sensing of CO, C ₆ H ₆ , and C ₇ H ₈ Gases by Catalytic Functionalization with Metal Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 7173-7183.	4.0	75
124	MOF-Based Membrane Encapsulated ZnO Nanowires for Enhanced Gas Sensor Selectivity. ACS Applied Materials & Interfaces, 2016, 8, 8323-8328.	4.0	346
125	Realization of ppm-level CO detection with exceptionally high sensitivity using reduced graphene oxide-loaded SnO ₂ nanofibers with simultaneous Au functionalization. Chemical Communications, 2016, 52, 3832-3835.	2.2	40
126	Selective detection of low concentration toluene gas using Pt-decorated carbon nanotubes sensors. Sensors and Actuators B: Chemical, 2016, 227, 157-168.	4.0	82

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127	Optimum shell thickness and underlying sensing mechanism in p-n CuO-ZnO core-shell nanowires. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 249-256.	4.0	64
128	Excellent Carbon Monoxide Sensing Performance of Au-Decorated SnO ₂ Nanofibers. <i>Korean Journal of Materials Research</i> , 2016, 26, 741-750.	0.1	19
129	Low Temperature Sensing Properties of Pt Nanoparticle-Functionalized Networked ZnO Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 330-333.	0.9	14
130	Growth and sensing properties of networked p-CuO nanowires. <i>Sensors and Actuators B: Chemical</i> , 2015, 212, 190-195.	4.0	76
131	Highly sensitive and selective H ₂ sensing by ZnO nanofibers and the underlying sensing mechanism. <i>Journal of Hazardous Materials</i> , 2015, 286, 229-235.	6.5	104
132	Extraordinary Improvement of Gas-Sensing Performances in SnO ₂ Nanofibers Due to Creation of Local p-n Heterojunctions by Loading Reduced Graphene Oxide Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3101-3109.	4.0	143
133	Striking sensing improvement of n-type oxide nanowires by electronic sensitization based on work function difference. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1521-1527.	2.7	57
134	Realization of ppb-Scale Toluene-Sensing Abilities with Pt-Functionalized SnO ₂ -ZnO Core-Shell Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17199-17208.	4.0	87
135	Excellent gas detection of ZnO nanofibers by loading with reduced graphene oxide nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1499-1507.	4.0	112
136	Chemiresistive Sensing Behavior of SnO ₂ (n)-Cu ₂ O (p) Core-Shell Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15351-15358.	4.0	74
137	Promotion of acceptor formation in SnO ₂ nanowires by e-beam bombardment and impacts to sensor application. <i>Scientific Reports</i> , 2015, 5, 10723.	1.6	33
138	Nanograins in electrospun oxide nanofibers. <i>Metals and Materials International</i> , 2015, 21, 213-221.	1.8	15
139	Bifunctional Sensing Mechanism of SnO ₂ -ZnO Composite Nanofibers for Drastically Enhancing the Sensing Behavior in H ₂ Gas. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11351-11358.	4.0	143
140	Synthesis and room-temperature NO ₂ sensing properties of Sb ₂ O ₅ nanowires. <i>Metals and Materials International</i> , 2015, 21, 415-421.	1.8	13
141	An ultra-sensitive hydrogen gas sensor using reduced graphene oxide-loaded ZnO nanofibers. <i>Chemical Communications</i> , 2015, 51, 15418-15421.	2.2	81
142	Growth and structure of Mg-Al spinel nanodonut-decorated MgO nanowires. <i>Metals and Materials International</i> , 2015, 21, 956-961.	1.8	2
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