

Global Semiconductor Gas Sensors Market – Sensing Materials and Applications

“The report reviews, analyzes and projects the global market for Semiconductor Gas Sensors for the period 2018-2027. Global Semiconductor Gas Sensors market is analyzed in this study by the sensing materials used comprising 2D Materials, Carbon Nanotubes, Conducting Polymers, Metal Oxide (MOx) Semiconductors. The study also analyzes the global Semiconductor Gas Sensors market by applications consisting of Air Quality & Environmental Monitoring, Automotive, Electronic Nose, Industrial, Medical & Healthcare and Safety & Security.”

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Report Synopsis

The use of Semiconductor Gas Sensors has gained popularity for detecting flammable, toxic or explosive gases at low concentrations in a range of industrial and other settings, as well as for monitoring environmental pollution. While the properties of any sensing material, such as high sensitivity, rapid response/recovery and good selectivity, play a crucial role in determining their scope of operation, it is a challenging prospect to develop cost-effective and reliable sensing devices that can detect gases, particularly at room temperature.

Safety & Security applications account for the largest share of the global demand for Semiconductor Gas Sensors, which is estimated to account for 23.4% share in 2022. Overall global market for Semiconductor Gas Sensors is estimated to reach US\$1.1 billion in 2022.

- Semiconductor Gas Sensors market size is estimated/projected in this report by sensing material type/sub-type and by application across all major countries
- Future of Chemoresistive-Based Heterostructure Gas Sensors Bright
- Series of Studies on Tin Oxide Result in Enhancing Gas Sensing Performance
- Copper Oxide Nanomaterial-Based Gas Sensors Gaining Wider Adoption
- SnO₂-Based Sensor Technology Advanced for Detecting VOCs
- Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments
- Major companies profiled – 37
- The industry guide includes the contact details for 55 companies

Product Outline

The market for Semiconductor Gas Sensors market studied in this report by sensing material types/sub-types used comprise:

- N2D Materials
- Carbon Nanotubes
- Conducting Polymers
- Metal Oxide (MOx) Semiconductors

The report analyzes the market for the following applications Semiconductor Gas Sensors:

- Air Quality & Environmental Monitoring
- Automotive
- Electronic Nose
- Industrial
- Medical & Healthcare
- Safety & Security

Analysis Period, Units and Growth Rates

- The report reviews, analyzes and projects the global Semiconductor Gas Sensors market for the period 2018-2027 in terms of value in US\$; and the compound annual growth rates (CAGRs) projected from 2022 through 2027.

Geographic Coverage

- **North America** (The United States and Mexico)
- **Europe** (France, Germany, Italy, the United Kingdom and Rest of Europe)
- **Asia-Pacific** (China, India, Japan, South Korea and Rest of Asia-Pacific)
- **South America** (Argentina, Brazil and Rest of South America)
- **Middle East & Africa**

Global Semiconductor Gas Sensors Market by Application 2019-2027



Source: Industry Experts, Inc. <https://industry-experts.com>

Research Findings & Coverage

- This global market research report on Semiconductor Gas Sensors analyzes the market with respect to sensing material types/sub-types and applications

SAMPLE COMPANY PROFILE

INVEST ELECTRONICS LTD (BULGARIA)

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Email: info@investelectronics.com
www.gassense.eu

Business Overview

Incorporated in 1990 and based in Plovdiv, Bulgaria, Invest Electronics Ltd is a producer and provider of gas detection systems under the GAS SENSE brand name, which are used for controlling combustible and toxic gases. The company's offerings under this label include addressable gas detectors, analogue gas detectors, portable gas detectors, domestic gas detectors, gas controllers and other gas detectors & equipment.

Product Portfolio

- Addressable gas detectors for combustible, toxic and refrigerant gases, including Gas Sense GS-300.N and Gas Sense GS-ADR.BC.V. Can detect explosive & toxic gases, hydrogen (H₂), sulfur dioxide (SO₂), methane (CH₄), hydrogen sulfide (H₂S), carbon monoxide (CO), chlorine (Cl₂), oxygen (O₂) and nitrogen dioxide (NO₂), among others.
- Analogue gas detectors for combustible, toxic and refrigerant gases, including Gas Sense GS-300.A and Gas Sense GS-220.BC.V. Can detect explosive & toxic gases, hydrogen (H₂), sulfur dioxide (SO₂), methane (CH₄), hydrogen sulfide (H₂S), carbon monoxide (CO), chlorine (Cl₂), oxygen (O₂) and nitrogen dioxide (NO₂), among others.
- Portable gas detectors for combustible and toxic gases, including GS-500.EX, GS-500.CO, GS-500.L, GasSense-1000.L.EX and GasSense-1000.L.RF. Can detect methane (CH₄), liquefied petroleum gas (LPG), carbon monoxide (CO), hydrogen (H₂), ethanol (C₂H₅OH) and refrigerant gases, including freons, such as chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs) and ammonia (NH₃), among others
- Domestic gas detectors for methane (CH₄), liquefied petroleum gas (LPG), carbon monoxide (CO) and air quality, including H-220-CH4, H-220-LPG, H-220-IAQ and H-220-CO
- Other gas detectors for combustible, toxic and refrigerant gases, including Gas Sense GS-300.L and GS-220.B.V. Can detect explosive & toxic gases, hydrogen (H₂), sulfur dioxide (SO₂), methane (CH₄), hydrogen sulfide (H₂S), carbon monoxide (CO), chlorine (Cl₂), oxygen (O₂) and nitrogen dioxide (NO₂), among others.
- Gas controllers, including GA-220.LI.01/02, GA-220.LI.03/04/06, GA-220.EI.01/02/03/04, GA-ADR.E1 and GA-300. Can detect explosive & toxic gases, hydrogen (H₂), sulfur dioxide (SO₂), methane (CH₄), hydrogen sulfide (H₂S), carbon monoxide (CO), chlorine (Cl₂), oxygen (O₂) and nitrogen dioxide (NO₂), among others.
- Other equipment that comprises RM-ADR.4 (addressable controller with 4 relay outputs, working voltage 12-30VDC, normally open and normally closed contacts, DIN rail mounting) and UGC-01 (nozzle with magnetic key for automatic calibration of gas sensors without opening the sensors enclosure)

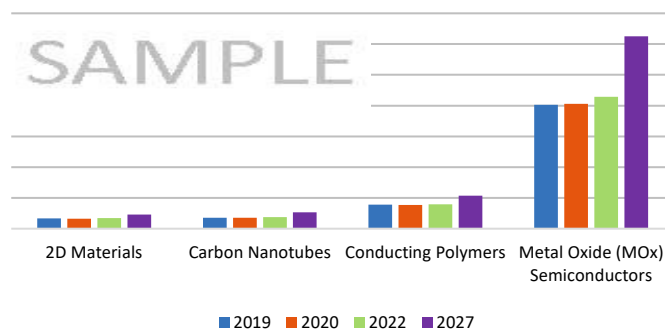
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SAMPLE TABLE/CHART

Glance at 2022 Global Semiconductor Gas Sensors Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World



Asia-Pacific Semiconductor Gas Sensors Market Analysis (2018-2027) by Sensing Material – 2D Materials, Carbon Nanotubes, Conducting Polymers and Metal Oxide (MOx) Semiconductors in USD Million



KEY PLAYERS PROFILED

- Aeroqual
- Alphasense Sensors
- Angst + Pfister AG
- Carel Industries SpA
- Cubic Sensor and Instrument Co Ltd
- Dracal Technologies, Inc.
- E+E Elektronik Ges.M.B.H
- Edinburgh Sensors Ltd
- Figaro Engineering, Inc.
- Gas Sensing Solutions Ltd
- Honeywell Analytics, Inc. (Industrial Division)
- Invest Electronics Ltd
- Ion Science Ltd
- Micro-Hybrid Electronic GmbH
- MSA Safety, Inc,
- Nissha FIS, Inc.
- OGAM Technology Co Ltd
- Riken Keiki Co Ltd
- Seitron S.p.A.
- Sensidyne LP
- Sensirion AG
- SGX Sensortech
- Shenzhen Daweilai Sensing Technology Development Co Ltd
- Siemens AG
- smartGAS Mikrosensorik GmbH
- Teledyne API

.....more

TABLE OF CONTENTS

PART A: GLOBAL MARKET PERSPECTIVE..... 1

1. INTRODUCTION1

1.1 Product Outline.....	4
1.1.1 Primary Causes of Atmospheric Pollution.....	4
1.1.2 The Rationale Behind Using Gas Sensors.....	4
1.1.3 Semiconductor Gas Sensors: A Brief Overview .	5
1.1.3.1 Semiconductor Sensing Materials.....	6
1.1.3.1.1 Some History & Something Current.....	6
1.1.3.1.2 Metal Oxide Semiconductors.....	7
1.1.3.1.2.1 Tin Oxide (SnO ₂).....	8
1.1.3.1.2.2 Zinc Oxide (ZnO).....	8
1.1.3.1.2.3 Copper Oxide (CuO).....	9
1.1.3.1.2.4 Nickel Oxide (NiO).....	9
1.1.3.1.2.5 Chromium Oxide (Cr ₂ O ₃).....	10
1.1.3.1.2.6 Zinc Stannate (ZnSnO ₃ & Zn ₂ SnO ₄).....	10
1.1.3.1.2.7 Heterostructures.....	10
1.1.3.1.3 Conducting Polymers.....	11
1.1.3.1.4 Carbon Nanotubes.....	12
1.1.3.1.5 2D Materials.....	13
1.1.3.2 What the Future Holds.....	14
1.1.3.3 Fabrication Methods of Semiconductor Gas Sensors..	14
1.1.3.4 Components and Design of Sensor Devices.....	16
1.1.3.4.1 Signal Conditioning and Interfaces for Gas Sensors.....	17
1.1.3.4.1.1 Hybrid.....	17
1.1.3.4.1.2 Monolithic.....	17
1.1.3.4.2 Circuitry for Driving, Sensing and Control.....	18
1.1.3.4.2.1 Heater Driver.....	18
1.1.3.4.2.2 Temperature Sensor.....	18
1.1.3.4.2.3 Controller.....	18
1.1.3.4.3 Measuring Sensing Material and Readout Interface.....	19

2. SEMICONDUCTOR GAS SENSORS APPLICATIONS - A MARKET SNAPSHOT20

2.1 Air Quality & Environmental Monitoring.....	20
2.2 Automotive.....	22
2.3 Electronic Nose (e-Nose or eNose).....	23
2.4 Industrial.....	25
2.5 Medical & Healthcare.....	27
2.6 Safety & Security.....	29

3. KEY MARKET TRENDS.....31

3.1 Future of Chemoresistive-Based Heterostructure Gas Sensors Bright.....	31
3.2 Series of Studies on Tin Oxide Result in Enhancing Gas Sensing Performance.....	32
3.3 Copper Oxide Nanomaterial-Based Gas Sensors Gaining Wider Adoption.....	33
3.4 SnO ₂ -Based Sensor Technology Advanced for Detecting VOCs.....	34

4. KEY GLOBAL PLAYERS.....36

Aeroqual (New Zealand).....	36
Alphasense Sensors (United Kingdom).....	37
Angst + Pfister AG (Switzerland).....	38
Carel Industries SpA (Italy).....	39
Cubic Sensor and Instrument Co Ltd (China).....	40
Dracal Technologies, Inc. (Canada).....	42
E+E Elektronik Ges.M.B.H (Austria).....	42
Edinburgh Sensors Ltd (United Kingdom).....	43
Figaro Engineering, Inc. (Japan).....	44
Gas Sensing Solutions Ltd (United Kingdom).....	46
Honeywell Analytics, Inc. (Industrial Division) (US).....	47
Invest Electronics Ltd (Bulgaria).....	48
Ion Science Ltd (United Kingdom).....	49
Micro-Hybrid Electronic GmbH (Germany).....	50
MSA Safety, Inc. (United States).....	51
Nissha FIS, Inc. (Japan).....	53
OGAM Technology Co Ltd (South Korea).....	54
Riken Keiki Co Ltd (Japan).....	55
Seitron S.p.A. (Italy).....	56

Sensidyne LP (United States).....	57
Sensirion AG (Switzerland).....	58
SGX Sensortech (Switzerland).....	58
Shenzhen Daweilai Sensing Technology Development Co Ltd (China).....	59
Siemens AG (Germany).....	60
smartGAS Mikrosensorik GmbH (Germany).....	60
Teledyne API (United States).....	61

5. KEY BUSINESS & PRODUCT TRENDS.....62

6. GLOBAL MARKET OVERVIEW.....65

6.1 Global Semiconductor Gas Sensors Market Overview by Sensing Material.....	66
6.1.1 Global Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment.....	68
6.1.2 Semiconductor Gas Sensors' Sensing Material Market Overview by Global Region.....	70
6.1.2.1 2D Materials.....	70
6.1.2.2 Carbon Nanotubes.....	72
6.1.2.3 Conducting Polymers.....	74
6.1.2.4 Metal Oxide (MOx) Semiconductors.....	76
6.1.2.4.1 Metal Oxide (MOx) Semiconductor Gas Sensors Sub-Type Market Overview by Global Region.....	78
6.1.2.4.1.1 Chromium Oxide (Cr ₂ O ₃).....	78
6.1.2.4.1.2 Copper Oxide (CuO).....	80
6.1.2.4.1.3 Heterostructures.....	82
6.1.2.4.1.4 Nickel Oxide (NiO).....	84
6.1.2.4.1.5 Tin Oxide (SnO ₂).....	86
6.1.2.4.1.6 Zinc Oxide (ZnO).....	88
6.1.2.4.1.7 Zinc Stannate (ZnSnO ₃ & Zn ₂ SnO ₄).....	90
6.2 Global Semiconductor Gas Sensors Market Overview by Application.....	92
6.2.1 Semiconductor Gas Sensors Application Market Overview by Global Region.....	94
6.2.1.1 Air Quality & Environmental Monitoring.....	94
6.2.1.2 Automotive.....	96
6.2.1.3 Electronic Nose (eNose or e-Nose).....	98
6.2.1.4 Industrial.....	100
6.2.1.5 Medical & Healthcare.....	102
6.2.1.6 Safety & Security.....	104

PART B: REGIONAL MARKET PERSPECTIVE ..106

REGIONAL MARKET OVERVIEW..... 108

7. NORTH AMERICA108

7.1 North American Semiconductor Gas Sensors Market Overview by Geographic Region.....	109
7.2 North American Semiconductor Gas Sensors Market Overview by Sensing Material.....	111
7.2.1 North American Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment.....	113
7.3 North American Semiconductor Gas Sensors Market Overview by Application.....	115
7.4 Major Market Players.....	117
Building Automation Products, Inc. (BAPI) (US).....	117
Dracal Technologies, Inc. (Canada).....	118
ESP Safety, Inc (United States).....	118
Honeywell Analytics, Inc. (Industrial Division) (US).....	119
MSA Safety, Inc. (United States).....	120
Sensidyne LP (United States).....	122
Teledyne API (United States).....	123

7.5 Country-wise Analysis of North American Semiconductor Gas Sensors Market..... 124

7.5.1 The United States.....	124
7.5.1.1 United States' Semiconductor Gas Sensors Market Overview by Sensing Material.....	125
7.5.1.1.1 United States' Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment.....	127

7.5.1.2 United States' Semiconductor Gas Sensors Market Overview by Application..... 129

7.5.2 Canada.....131

7.5.2.1 Canadian Semiconductor Gas Sensors Market Overview by Sensing Material.....	132
7.5.2.1.1 Canadian Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment.....	134
7.5.2.2 Canadian Semiconductor Gas Sensors Market Overview by Application.....	136

7.5.3 Mexico.....138

7.5.3.1 Mexican Semiconductor Gas Sensors Market Overview by Sensing Material.....	139
7.5.3.1.1 Mexican Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment.....	141
7.5.3.2 Mexican Semiconductor Gas Sensors Market Overview by Application.....	143

8. EUROPE145

8.1 European Semiconductor Gas Sensors Market Overview by Geographic Region.....	146
8.2 European Semiconductor Gas Sensors Market Overview by Sensing Material.....	148
8.2.1 European Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment.....	150
8.3 European Semiconductor Gas Sensors Market Overview by Application.....	152
8.4 Major Market Players.....	154
Alphasense Sensors (United Kingdom).....	154
Angst + Pfister AG (Switzerland).....	155
Cambridge Sensortech Limited (United Kingdom).....	156
Carel Industries SpA (Italy).....	157
E+E Elektronik Ges.M.B.H (Austria).....	158
Edinburgh Sensors Ltd (United Kingdom).....	159
Gas Sensing Solutions Ltd (United Kingdom).....	160
Invest Electronics Ltd (Bulgaria).....	161
Ion Science Ltd (United Kingdom).....	162
Micro-Hybrid Electronic GmbH (Germany).....	163
Nanoz (France).....	164
Seitron S.p.A. (Italy).....	165
Sensirion AG (Switzerland).....	165
SGX Sensortech (Switzerland).....	166
Siemens AG (Germany).....	167
smartGAS Mikrosensorik GmbH (Germany).....	167

8.5 Country-wise Analysis of European Semiconductor Gas Sensors Market..... 168

8.5.1 France.....168

8.5.1.1 French Semiconductor Gas Sensors Market Overview by Sensing Material.....	169
8.5.1.1.1 French Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment.....	171
8.5.1.2 French Semiconductor Gas Sensors Market Overview by Application.....	173

8.5.2 Germany.....175

8.5.2.1 German Semiconductor Gas Sensors Market Overview by Sensing Material.....	176
8.5.2.1.1 German Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment.....	178
8.5.2.2 German Semiconductor Gas Sensors Market Overview by Application.....	180

8.5.3 Italy.....182

8.5.3.1 Italian Semiconductor Gas Sensors Market Overview by Sensing Material.....	183
8.5.3.1.1 Italian Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment.....	185
8.5.3.2 Italian Semiconductor Gas Sensors Market Overview by Application.....	187

8.5.4 The United Kingdom 189	9.5.1.1.1 Chinese Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 229	10.3 South American Semiconductor Gas Sensors Market Overview by Application 268
8.5.4.1 United Kingdom Semiconductor Gas Sensors Market Overview by Sensing Material 190	9.5.1.2 Chinese Semiconductor Gas Sensors Market Overview by Application 231	10.4 Country-wise Analysis of South American Semiconductor Gas Sensors Market 270
8.5.4.1.1 United Kingdom Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 192	9.5.2 India 233	10.4.1 Argentina 270
8.5.4.2 United Kingdom Semiconductor Gas Sensors Market Overview by Application 194	9.5.2.1 Indian Semiconductor Gas Sensors Market Overview by Sensing Material 234	10.4.1.1 Argentine Semiconductor Gas Sensors Market Overview by Sensing Material 271
8.5.5 Rest of Europe 196	9.5.2.1.1 Indian Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 236	10.4.1.1.1 Argentine Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 273
8.5.5.1 Rest of Europe Semiconductor Gas Sensors Market Overview by Sensing Material 197	9.5.2.2 Indian Semiconductor Gas Sensors Market Overview by Application 238	10.4.1.2 Argentine Semiconductor Gas Sensors Market Overview by Application 275
8.5.5.1.1 Rest of Europe Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 199	9.5.3 Japan 240	10.4.2 Brazil 277
8.5.5.2 Rest of Europe Semiconductor Gas Sensors Market Overview by Application 201	9.5.3.1 Japanese Semiconductor Gas Sensors Market Overview by Sensing Material 241	10.4.2.1 Brazilian Semiconductor Gas Sensors Market Overview by Sensing Material 278
9. ASIA-PACIFIC 203	9.5.3.1.1 Japanese Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 243	10.4.2.1.1 Brazilian Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 280
9.1 Asia-Pacific Semiconductor Gas Sensors Market Overview by Geographic Region 204	9.5.3.2 Japanese Semiconductor Gas Sensors Market Overview by Application 245	10.4.2.2 Brazilian Semiconductor Gas Sensors Market Overview by Application 282
9.2 Asia-Pacific Semiconductor Gas Sensors Market Overview by Sensing Material 206	9.5.4 South Korea 247	10.4.3 Rest of South America 284
9.2.1 Asia-Pacific Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 208	9.5.4.1 South Korean Semiconductor Gas Sensors Market Overview by Sensing Material 248	10.4.3.1 Rest of South American Semiconductor Gas Sensors Market Overview by Sensing Material 285
9.3 Asia-Pacific Semiconductor Gas Sensors Market Overview by Application 210	9.5.4.1.1 South Korean Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 250	10.4.3.1.1 Rest of South American Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 287
9.4 Major Market Players 212	9.5.4.2 South Korean Semiconductor Gas Sensors Market Overview by Application 252	10.4.3.2 Rest of South American Semiconductor Gas Sensors Market Overview by Application 289
Aeroqual (New Zealand) 212	9.5.5 Rest of Asia-Pacific 254	11. REST OF WORLD 291
Chemtrols Industries Pvt Ltd (India) 213	9.5.5.1 Rest of Asia-Pacific Semiconductor Gas Sensors Market Overview by Sensing Material 255	11.1 Rest of World Semiconductor Gas Sensors Market Overview by Sensing Material 292
Cubic Sensor and Instrument Co Ltd (China) 214	9.5.5.1.1 Rest of Asia-Pacific Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 257	11.1.1 Rest of World Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 294
Hubei Cubic-Ruiyi Instrument Co Ltd (China) 215	9.5.5.2 Rest of Asia-Pacific Semiconductor Gas Sensors Market Overview by Application 259	11.2 Rest of World Semiconductor Gas Sensors Market Overview by Application 296
Figaro Engineering, Inc. (Japan) 216	10. SOUTH AMERICA 261	PART C: GUIDE TO THE INDUSTRY 298
Foshan Chuandong Magnetolectric Co Ltd (China) 218	10.1 South American Semiconductor Gas Sensors Market Overview by Geographic Region 262	1. NORTH AMERICA 298
Hubei Cubic-Ruiyi Instrument Co Ltd (China) 219	10.2 South American Semiconductor Gas Sensors Market Overview by Sensing Material 264	2. EUROPE 298
Macro Technology Instruments Co Ltd (Taiwan) 220	10.2.1 South American Metal Oxide (MOx) Semiconductor Gas Sensors Market Overview by Sub-Segment 266	3. ASIA-PACIFIC 299
Nissha FIS, Inc. (Japan) 220		PART D: ANNEXURE 301
OGAM Technology Co Ltd (South Korea) 221		1. RESEARCH METHODOLOGY 301
Riken Keiki Co Ltd (Japan) 222		2. FEEDBACK 303
Shanghai Boqu Instrument Co Ltd (China) 223		
Shenzhen Daweilai Sensing Technology Development Co Ltd (China) 224		
Zhengzhou Winsen Electronics Technology Co Ltd (China) 225		
9.5 Country-wise Analysis of Asia-Pacific Semiconductor Gas Sensors Market 226		
9.5.1 China 226		
9.5.1.1 Chinese Semiconductor Gas Sensors Market Overview by Sensing Material 227		

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