Wooyoung Lee

List of Publications by Year in descending order

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173 papers	4,977 citations	81743 39 h-index	118652 62 g-index
181 all docs	181 docs citations	181 times ranked	5785 citing authors

#	Article	IF	Citations
1	Revealing Pt-seed-induced structural effects to tribological/electrical/thermoelectric modulations in two-dimensional PtSe2 using scanning probe microscopy. Nano Energy, 2022, 91, 106693.	8.2	9
2	Strong enhancement of room-temperature thermoelectric properties of Cu-doped Bi2Te2.7Se0.3. Applied Physics Letters, 2022, 120, .	1.5	6
3	Experimental verification of semi-metallic band structure in PtSe2 via thermoelectric power measurements. Applied Physics Letters, 2022, 120, 043103.	1.5	2
4	Highly Sensitive and Selective Detection of Hydrogen Using Pd-Coated SnO2 Nanorod Arrays for Breath-Analyzer Applications. Sensors, 2022, 22, 2056.	2.1	6
5	Selective detection of sub-1-ppb level isoprene using Pd-coated In2O3 thin film integrated in portable gas chromatography. Applied Surface Science, 2022, 586, 152827.	3.1	12
6	Precise control of surface oxygen vacancies in ZnO nanoparticles for extremely high acetone sensing response. Journal of Advanced Ceramics, 2022, 11, 769-783.	8.9	33
7	Enhanced Thermoelectric Power Factor in Carrierâ€Typeâ€Controlled Platinum Diselenide Nanosheets by Molecular Chargeâ€Transfer Doping. Small, 2022, , 2200818.	5.2	1
8	Composition and property optimization of rare-earth-free Mn-Al-C magnet by phase stability and magnetic behavior analysis. Journal of Alloys and Compounds, 2022, 919, 165773.	2.8	4
9	A Review on Silicide-Based Materials: Thermoelectric and Mechanical Properties. Metals and Materials International, 2021, 27, 2205.	1.8	21
10	Soft-lithographically line-patterned In-doped ZnO quantum dots with hydrothermally grown ZnO nanocolumns for acetone detection. Sensors and Actuators B: Chemical, 2021, 329, 129131.	4.0	7
11	Excellent isoprene-sensing performance of In2O3 nanoparticles for breath analyzer applications. Sensors and Actuators B: Chemical, 2021, 327, 128892.	4.0	27
12	Enhancement of thermal stability of Ndâ€“Feâ€“B sintered magnets with tuned Tb-diffused microstructures via temperature control. Journal of Alloys and Compounds, 2021, 855, 157478.	2.8	25
13	Isovalent sulfur substitution to induce a simultaneous increase in the effective mass and weighted mobility of a p-type Bi-Sb-Te alloy: an approach to enhance the thermoelectric performance over a wide temperature range. Acta Materialia, 2021, 205, 116578.	3.8	9
14	Hydrogen Gas Sensors Using Palladium Nanogaps on an Elastomeric Substrate. Advanced Materials, 2021, 33, e2005929.	11.1	33
15	Modulation of Conductivity and Contact Resistance of RuO2 Nanosheets via Metal Nano-Particles Surface Decoration. Nanomaterials, 2021, 11, 2444.	1.9	3
16	Sensing performance of Pd nanogap supported on an elastomeric substrate in a wide temperature range of â€“40 to 70ÂÂ°C. Sensors and Actuators B: Chemical, 2021, 348, 130716.	4.0	0
17	Semimetal to semiconductor transition in Bi/TiO₂ core/shell nanowires. Nanoscale Advances, 2021, 3, 263-271.	2.2	3
18	Hydrogen Gas Sensors Using Palladium Nanogaps on an Elastomeric Substrate (Adv. Mater. 47/2021). Advanced Materials, 2021, 33, .	11.1	1

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19	Book-Shaped All-in-One Piezo-Triboelectric Energy Harvester Module with Enhanced Current Characteristics As an Eco-Friendly Energy Source. Journal of the European Ceramic Society, 2021, 42, 1414-1414.	2.8	2
20	Radial heterostructure and interface effects on thermoelectric transport properties of Bi/Sn and Bi/Sb core/shell nanowires. Current Applied Physics, 2020, 20, 43-48.	1.1	2
21	Intercorrelated Relationship Between the Thermoelectric Performance and Mechanical Reliability of Mg2Si-Reduced Graphene Oxide Nanocomposites. Electronic Materials Letters, 2020, 16, 174-179.	1.0	5
22	Selective C2H2 detection with high sensitivity using SnO2 nanorod based gas sensors integrated with a gas chromatography. Sensors and Actuators B: Chemical, 2020, 307, 127598.	4.0	43
23	Breath Acetone Measurement-Based Prediction of Exercise-Induced Energy and Substrate Expenditure. Sensors, 2020, 20, 6878.	2.1	3
24	Semimetallic features in thermoelectric transport properties of 2Hâ€“3R phase niobium diselenide. Nano Energy, 2020, 78, 105197.	8.2	5
25	Synchronized enhancement of thermoelectric properties of higher manganese silicide by introducing Fe and Co nanoparticles. Nano Energy, 2020, 72, 104698.	8.2	24
26	Near-field sub-diffraction photolithography with an elastomeric photomask. Nature Communications, 2020, 11, 805.	5.8	36
27	Untethered Soft Robotics with Fully Integrated Wireless Sensing and Actuating Systems for Somatosensory and Respiratory Functions. Soft Robotics, 2020, 7, 564-573.	4.6	39
28	All-in-One Piezo-Triboelectric Energy Harvester Module Based on Piezoceramic Nanofibers for Wearable Devices. ACS Applied Materials & Interfaces, 2020, 12, 18609-18616.	4.0	31
29	Reliability Test of Pd Nanogap-Based Hydrogen Sensors. Journal of Sensor Science and Technology, 2020, 29, 399-406.	0.1	0
30	Suppressed secondary phase generation in thermoelectric higher manganese silicide by fabrication process optimization. Ceramics International, 2019, 45, 19538-19541.	2.3	12
31	Acetone-sensing properties of doped ZnO nanoparticles for breath-analyzer applications. Journal of Alloys and Compounds, 2019, 803, 135-144.	2.8	33
32	Strong Thermopower Enhancement and Tunable Power Factor via Semimetal to Semiconductor Transition in a Transition-Metal Dichalcogenide. ACS Nano, 2019, 13, 13317-13324.	7.3	33
33	Selective Detection of Nitrogen-Containing Compound Gases. Sensors, 2019, 19, 3565.	2.1	7
34	Doping effects of ZnO quantum dots on the sensitive and selective detection of acetylene for dissolved-gas analysis applications of transformer oil. Sensors and Actuators B: Chemical, 2019, 299, 126992.	4.0	34
35	Enhanced hydrogen sensing properties of Pd-coated SnO2 nanorod arrays in nitrogen and transformer oil. Sensors and Actuators B: Chemical, 2019, 283, 890-896.	4.0	28
36	Real-time selective detection of 2-chloroethyl ethyl sulfide (2-CEES) using an Al-doped ZnO quantum dot sensor coupled with a packed column for gas chromatography. Sensors and Actuators B: Chemical, 2019, 284, 444-450.	4.0	32

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37	Mg2Si-based thermoelectric compounds with enhanced fracture toughness by introduction of dual nanoinclusions. Journal of Alloys and Compounds, 2019, 801, 234-238.	2.8	9
38	Highly sensitive and selective isoprene sensing performance of ZnO quantum dots for a breath analyzer. Sensors and Actuators B: Chemical, 2019, 290, 258-266.	4.0	54
39	Reinterpretation of Single-Wall Carbon Nanotubes by Raman Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 14003-14009.	1.5	25
40	Clarification of electronic and thermal transport properties of Pb-, Ag-, and Cu-doped p-type Bi0.52Sb1.48Te3. Journal of Alloys and Compounds, 2019, 772, 593-602.	2.8	34
41	Bismuth Islands for Low-Temperature Sodium-Beta Alumina Batteries. ACS Applied Materials & Interfaces, 2019, 11, 2917-2924.	4.0	31
42	Improved trade-off between thermoelectric performance and mechanical reliability of Mg2Si by hybridization of few-layered reduced graphene oxides. Scripta Materialia, 2019, 162, 402-407.	2.6	15
43	Enhancing the coercivity of Nd-Fe-B sintered magnets by consecutive heat treatmentâ€“induced formation of Tb-diffused microstructures. Journal of Alloys and Compounds, 2019, 780, 574-580.	2.8	24
44	Sensing of acetone by Al-doped ZnO. Sensors and Actuators B: Chemical, 2019, 283, 107-115.	4.0	78
45	Enhanced acetone-sensing properties of pt-decorated al-doped ZnO nanoparticles. Sensors and Actuators B: Chemical, 2019, 280, 109-119.	4.0	95
46	Fabrication of Silicide-based Thermoelectric Nanocomposites: A Review. Journal of the Korean Ceramic Society, 2019, 56, 435-442.	1.1	5
47	Compressive creep behavior of hot-pressed Mg1.96Al0.04Si0.97Bi0.03. Scripta Materialia, 2018, 148, 10-14.	2.6	10
48	Understanding the structural, electrical, and optical properties of monolayer h-phase RuO2 nanosheets: a combined experimental and computational study. NPG Asia Materials, 2018, 10, 266-276.	3.8	34
49	Ambipolar thermoelectric power of chemically-exfoliated RuO2 nanosheets. Nanotechnology, 2018, 29, 015404.	1.3	7
50	High sensitivity in Al-doped ZnO nanoparticles for detection of acetaldehyde. Sensors and Actuators B: Chemical, 2018, 266, 883-888.	4.0	41
51	Doping effect on the sensing properties of ZnO nanoparticles for detection of 2-chloroethyl ethylsulfide as a mustard simulant. Sensors and Actuators B: Chemical, 2018, 254, 1242-1248.	4.0	28
52	High-performance hydrogen sensing properties and sensing mechanism in Pd-coated p-type Si nanowire arrays. Sensors and Actuators B: Chemical, 2018, 256, 465-471.	4.0	22
53	Band engineering and tuning thermoelectric transport properties of p-type Bi0.52Sb1.48Te3 by Pb doping for low-temperature power generation. Scripta Materialia, 2018, 145, 41-44.	2.6	49
54	Nanogap-controlled Pd coating for hydrogen sensitive switches and hydrogen sensors. Sensors and Actuators B: Chemical, 2018, 255, 1841-1848.	4.0	42

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55	Strain-engineered allotrope-like bismuth nanowires for enhanced thermoelectric performance. Acta Materialia, 2018, 144, 145-153.	3.8	7
56	Composite Cathode Material Using Spark Plasma Sintering for Bulk-Type Hybrid Solid-State Batteries. Journal of the Korean Physical Society, 2018, 73, 1019-1024.	0.3	2
57	Dependence of mechanical and thermoelectric properties of Mg2Si-Sn nanocomposites on interface density. Journal of Alloys and Compounds, 2018, 769, 53-58.	2.8	17
58	Fabrication of reinforced Î±+Î² titanium alloys by infiltration of Al into porous Ti-V compacts. Journal of Alloys and Compounds, 2018, 768, 775-781.	2.8	2
59	Highly selective real-time detection of breath acetone by using ZnO quantum dots with a miniaturized gas chromatographic column. Sensors and Actuators B: Chemical, 2018, 274, 527-532.	4.0	29
60	Highly sensitive hydrogen sensors: Pd-coated Si nanowire arrays for detection of dissolved hydrogen in oil. Sensors and Actuators B: Chemical, 2018, 273, 809-814.	4.0	17
61	Sensing Properties of ZnO Nanoparticles for Detection of 2-Chloroethyl Ethyl Sulfide as a Mustard Simulant. Journal of Nanoscience and Nanotechnology, 2018, 18, 1232-1236.	0.9	10
62	Influence of Cooling Condition of Casted Strips on Magnetic Properties of Ndâ€“Feâ€“B Sintered Magnets. Metals and Materials International, 2018, 24, 1422-1431.	1.8	6
63	Enhanced thermoelectric properties in Bi/Te core/shell heterostructure nanowires through strain and interface engineering. Nano Energy, 2017, 32, 520-525.	8.2	12
64	Magnetic properties of large-scaled MnBi bulk magnets. Journal of Alloys and Compounds, 2017, 708, 1245-1249.	2.8	47
65	Phase Formation and Thermoelectric Properties of Doped Higher Manganese Silicides (Mn15Si26). Journal of Electronic Materials, 2017, 46, 3242-3248.	1.0	13
66	A novel method to fabricate reinforced Ti composites by infiltration of Al (Mg) into porous titanium. Journal of Alloys and Compounds, 2017, 715, 404-412.	2.8	8
67	Strong enhancement of electrical conductivity in two-dimensional micrometer-sized RuO₂ nanosheets for flexible transparent electrodes. Nanoscale, 2017, 9, 7104-7113.	2.8	22
68	Roughâ€Surfaceâ€Enabled Capacitive Pressure Sensors with 3D Touch Capability. Small, 2017, 13, 1700368.	5.2	142
69	Enhanced fracture toughness of Al and Bi co-doped Mg2Si by metal nanoparticle decoration. Ceramics International, 2017, 43, 12979-12982.	2.3	13
70	Raman Radial Mode Revealed from Curved Graphene. Journal of Physical Chemistry Letters, 2017, 8, 2597-2601.	2.1	8
71	Magnetically separable sulfur-doped SnFe 2 O 4 /graphene nanohybrids for effective photocatalytic purification of wastewater under visible light. Journal of Hazardous Materials, 2017, 338, 447-457.	6.5	76
72	Effect of Si content on the thermoelectric transport properties of Ge-doped higher manganese silicides. Scripta Materialia, 2017, 135, 72-75.	2.6	27

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73	Semimetal to semiconductor transition and polymer electrolyte gate modulation in single-crystalline bismuth nanowires. Nanoscale, 2017, 9, 923-929.	2.8	6
74	Extreme reduction of thermal conductivity by embedding Al 2 O 3 nanoparticles into single-crystalline Bi nanowires. Acta Materialia, 2017, 136, 315-322.	3.8	5
75	Observation of anisotropy in thermoelectric properties of individual single-crystalline bismuth nanowires. Journal of Applied Physics, 2017, 122, .	1.1	12
76	Up-scaled solid state reaction for synthesis of doped Mg2Si. Scripta Materialia, 2017, 128, 53-56.	2.6	23
77	Thermal stability of the sensing properties in H2 sensors composed of Pd nanogaps on an Elastomeric Substrate. Sensors and Actuators B: Chemical, 2017, 240, 186-192.	4.0	29
78	Highly selective detection of dimethyl methylphosphonate (DMMP) using CuO nanoparticles /ZnO flowers heterojunction. Sensors and Actuators B: Chemical, 2017, 240, 1099-1105.	4.0	68
79	The Nature of Metastable AAâ€™ Graphite: Low Dimensional Nano- and Single-Crystalline Forms. Scientific Reports, 2016, 6, 39624.	1.6	34
80	Co-doping of Al and Bi to control the transport properties for improving thermoelectric performance of Mg2Si. Scripta Materialia, 2016, 116, 11-15.	2.6	20
81	Strain-controlled nanocrack formation in a Pd film on polydimethylsiloxane for the detection of low H2 concentrations. Journal of Materials Science, 2016, 51, 4530-4537.	1.7	8
82	Enhanced thermoelectric properties of Au nanodot-included Bi₂Te₃ nanotube composites. Journal of Materials Chemistry C, 2016, 4, 1313-1319.	2.7	50
83	Kinetic control of nanocrack formation in a palladium thin film on an elastomeric substrate for hydrogen gas sensing in air. Sensors and Actuators B: Chemical, 2016, 230, 367-373.	4.0	8
84	Hollow Nanobarrels of Î±-Fe₂O₃ on Reduced Graphene Oxide as High-Performance Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 2027-2034.	4.0	84
85	Reliability and selectivity of H2 sensors composed of Pd Film nanogaps on an elastomeric substrate. Sensors and Actuators B: Chemical, 2016, 224, 547-551.	4.0	43
86	Proton irradiation effects on the thermoelectric properties in single-crystalline Bi nanowires. AIP Advances, 2015, 5, 057101.	0.6	5
87	Sensitivity Enhancement in Nickel Hydroxide/3Dâ€Graphene as Enzymeless Glucose Detection. Electroanalysis, 2015, 27, 2363-2370.	1.5	16
88	Effect of Zr thin film on Zr foil as a FCCI barrier between lanthanide (La-Ce) and clad material. Metals and Materials International, 2015, 21, 498-503.	1.8	10
89	Individual thermoelectric properties of electrodeposited bismuth telluride nanowires in polycarbonate membranes. Electrochimica Acta, 2015, 161, 403-407.	2.6	14
90	Diameter-dependent thermoelectric figure of merit in single-crystalline Bi nanowires. Nanoscale, 2015, 7, 5053-5059.	2.8	55

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91	A catalytic effect on hydrogen absorption kinetics in Pd/Ti/Mg/Ti multilayer thin films. Journal of Alloys and Compounds, 2015, 635, 203-206.	2.8	18
92	Palladium nanogap-based H2 sensors on a patterned elastomeric substrate using nanoimprint lithography. Sensors and Actuators B: Chemical, 2015, 221, 593-598.	4.0	18
93	Highly sensitive gas sensor based on Al-doped ZnO nanoparticles for detection of dimethyl methylphosphonate as a chemical warfare agent simulant. Sensors and Actuators B: Chemical, 2015, 221, 217-223.	4.0	111
94	Bismuth nanowire thermoelectrics. Journal of Materials Chemistry C, 2015, 3, 11999-12013.	2.7	46
95	Enhanced hydrogen storage properties of Pd/Ti/Mg/Ti multilayer films using the catalytic effects of Pd. Applied Physics Letters, 2015, 106, .	1.5	12
96	Nano-composite sensors composed of single-walled carbon nanotubes and polyaniline for the detection of a nerve agent simulant gas. Sensors and Actuators B: Chemical, 2015, 209, 444-448.	4.0	50
97	Quantum size effect on Shubnikov-de Haas oscillations in 100â€‰nm diameter single-crystalline bismuth nanowire. Applied Physics Letters, 2014, 105, 123107.	1.5	20
98	Weak antilocalization and conductance fluctuation in a single crystalline Bi nanowire. Applied Physics Letters, 2014, 104, .	1.5	27
99	Highly sensitive and selective H2 and NO2 gas sensors based on surface-decorated WO3 nanoigloos. Sensors and Actuators B: Chemical, 2014, 198, 294-301.	4.0	99
100	The effects of diffusion barrier layers on the microstructural and electrical properties in CoSb 3 thermoelectric modules. Journal of Alloys and Compounds, 2014, 617, 160-162.	2.8	18
101	Enhanced thermoelectric properties of germanium powder/poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonate) composites. Thin Solid Films, 2014, 566, 14-18.	0.8	30
102	Nanogap-based electrical hydrogen sensors fabricated from Pd-PMMA hybrid thin films. Sensors and Actuators B: Chemical, 2014, 193, 530-535.	4.0	39
103	Effects of Ti interlayers on microstructures and hydrogen storage capacity in Mg/Pd multilayer thin films. Journal of Alloys and Compounds, 2014, 601, 63-66.	2.8	23
104	Ultra-sensitive, One-time Use Hydrogen Sensors Based on Sub-10 nm Nanogaps on an Elastomeric Substrate. Sensors and Actuators B: Chemical, 2013, 178, 689-693.	4.0	21
105	The Optoelectronic Properties of PbS Nanowire Field-Effect Transistors. IEEE Nanotechnology Magazine, 2013, 12, 1135-1138.	1.1	2
106	Two-step fabrication of ZnO nanosheets for high-performance VOCs gas sensor. Current Applied Physics, 2013, 13, S156-S161.	1.1	67
107	Thermodynamic-enabled synthesis of Bi/Bi14Te6 axial heterostructure nanowires. Journal of Materials Chemistry A, 2013, 1, 2395.	5.2	9
108	Sensing extremely limited H2 contents by Pd nanogap connected to an amorphous InGaZnO thin-film transistor. Nanoscale, 2013, 5, 8915.	2.8	14

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109	Novel surfactant-free multi-branched gold stars characterized by inverse photocurrent. Journal of Materials Chemistry A, 2013, 1, 13890.	5.2	11
110	Asymmetric electron hole distribution in single-layer graphene for use in hydrogen gas detection. Carbon, 2013, 63, 3-8.	5.4	12
111	Nanogaps controlled by liquid nitrogen freezing and the effects on hydrogen gas sensor performance. Sensors and Actuators A: Physical, 2013, 192, 140-144.	2.0	11
112	Bi nanowire-based thermal biosensor for the detection of salivary cortisol using the Thomson effect. Applied Physics Letters, 2013, 103, 143114.	1.5	6
113	Morphology Control of Bi₂S₃ Nanostructures and the Formation Mechanism. Chinese Journal of Chemistry, 2013, 31, 752-756.	2.6	11
114	Proton irradiation effects on thermal transport in individual single-crystalline Bi nanowires. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1438-1441.	0.8	9
115	Detection of toxic gases using a composite of single-walled carbon nanotubes with polyaniline. International Journal of Nanotechnology, 2013, 10, 749.	0.1	2
116	Effects of Bi2Se3 Nanoparticle Inclusions on the Microstructure and Thermoelectric Properties of Bi2Te3-Based Nanocomposites. Journal of Electronic Materials, 2012, 41, 3411-3416.	1.0	18
117	Controlled Synthesis of ZnO Nanostructures for Sub-ppm-Level VOC Detection. IEEE Sensors Journal, 2012, 12, 3149-3155.	2.4	14
118	Selective Growth of ZnO Nanorods and Its Gas Sensor Application. IEEE Sensors Journal, 2012, 12, 3143-3148.	2.4	14
119	Pdâ€“Ni hydrogen sponge for highly sensitive nanogap-based hydrogen sensors. International Journal of Hydrogen Energy, 2012, 37, 14702-14706.	3.8	46
120	Design Rules for Nanogapâ€Based Hydrogen Gas Sensors. ChemPhysChem, 2012, 13, 1395-1403.	1.0	58
121	Cracked palladium films on an elastomeric substrate for use as hydrogen sensors. International Journal of Hydrogen Energy, 2012, 37, 7934-7939.	3.8	43
122	Gas Sensing performance of composite materials using conducting polymer/single-walled carbon nanotubes. Macromolecular Research, 2012, 20, 143-146.	1.0	36
123	Perpendicular Magnetic Anisotropy in FePt Patterned Media Employing a CrV Seed Layer. Nanoscale Research Letters, 2011, 6, 13.	3.1	17
124	Low-Dimensional Palladium Nanostructures for Fast and Reliable Hydrogen Gas Detection. Sensors, 2011, 11, 825-851.	2.1	139
125	Effects of Surface Roughness on Hydrogen Gas Sensing Properties of Single Pd Nanowires. Journal of Nanoscience and Nanotechnology, 2011, 11, 2151-2154.	0.9	14
126	Hyperfine FePt patterned media for terabit data storage. Current Applied Physics, 2011, 11, S33-S35.	1.1	6

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127	Observation of Anisotropy in Thermal Conductivity of Individual Single-Crystalline Bismuth Nanowires. ACS Nano, 2011, 5, 3954-3960.	7.3	68
128	High-performance vertical hydrogen sensors using Pd-coated rough Si nanowires. Journal of Materials Chemistry, 2011, 21, 15935.	6.7	65
129	Suppression of phase transitions in Pd thin films by insertion of a Ti buffer layer. Journal of Materials Science, 2011, 46, 1597-1601.	1.7	36
130	Hydrogen permeability of glass-forming Ni-Nb-Zr-Ta crystalline membranes. Metals and Materials International, 2011, 17, 541-545.	1.8	8
131	Structure-dependent growth control in nanowire synthesis via on-film formation of nanowires. Nanoscale Research Letters, 2011, 6, 196.	3.1	2
132	Simple two-step fabrication method of Bi2Te3 nanowires. Nanoscale Research Letters, 2011, 6, 277.	3.1	9
133	Co nanoparticle hybridization with single-crystalline Bi nanowires. Nanoscale Research Letters, 2011, 6, 598.	3.1	3
134	Noxious gas detection using carbon nanotubes with Pd nanoparticles. Nanoscale Research Letters, 2011, 6, 605.	3.1	11
135	Reduction of Lattice Thermal Conductivity in Single Bi–Te Core/Shell Nanowires with Rough Interface. Advanced Materials, 2011, 23, 3414-3419.	11.1	76
136	Titelbild: Highly Mobile Palladium Thin Films on an Elastomeric Substrate: Nanogap-Based Hydrogen Gas Sensors (Angew. Chem. 23/2011). Angewandte Chemie, 2011, 123, 5335-5335.	1.6	0
137	Highly Mobile Palladium Thin Films on an Elastomeric Substrate: Nanogap–Based Hydrogen Gas Sensors. Angewandte Chemie - International Edition, 2011, 50, 5301-5305.	7.2	116
138	Cover Picture: Highly Mobile Palladium Thin Films on an Elastomeric Substrate: Nanogap-Based Hydrogen Gas Sensors (Angew. Chem. Int. Ed. 23/2011). Angewandte Chemie - International Edition, 2011, 50, 5227-5227.	7.2	0
139	Promoted Growth of Bi Single-Crystalline Nanowires by Sidewall-Induced Compressive Stress in On-Film Formation of Nanowires. Journal of Nanoscience and Nanotechnology, 2011, 11, 2047-2051.	0.9	3
140	Watching bismuth nanowires grow. Applied Physics Letters, 2011, 98, 043102.	1.5	17
141	Fabrication of a hydrogen sensor using palladium-coated silver dendrites formed electrochemically. Metals and Materials International, 2010, 16, 789-792.	1.8	8
142	Hysteresis behavior of electrical resistance in Pd thin films during the process of absorption and desorption of hydrogen gas. International Journal of Hydrogen Energy, 2010, 35, 6984-6991.	3.8	170
143	Ultra-sensitive hydrogen gas sensors based on Pd-decorated tin dioxide nanostructures: Room temperature operating sensors. International Journal of Hydrogen Energy, 2010, 35, 12568-12573.	3.8	100
144	Hydrogen gas sensing performance of Pd–Ni alloy thin films. Thin Solid Films, 2010, 519, 880-884.	0.8	109

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145	Highly sensitive hydrogen gas sensors using single-walled carbon nanotubes grafted with Pd nanoparticles. Sensors and Actuators B: Chemical, 2010, 146, 122-128.	4.0	54
146	Thermoelectric properties of individual single-crystalline PbTe nanowires. , 2010, , .		0
147	Patterned Co/Pd multilayer structure for high-density magnetic recording media. , 2010, , .		0
148	Highly sensitive Si nanowire-based gas sensors for detection of a nerve agent. , 2010, , .		0
149	Thermal conductivity reduction in an individual single crystalline Bi nanowire by size effect. , 2010, , .		2
150	Hydrogen sensors based on Pd-functionalized Single-walled carbon nanotubes. , 2010, , .		0
151	Spin polarization decay in magnetic tunnel junctions with semimetal-inserted layers. Journal of Applied Physics, 2010, 107, 093913.	1.1	1
152	Electron and hole mobilities in semimetallic bismuth nanowires. Physical Review B, 2010, 82, .	1.1	15
153	Size-dependent thermal conductivity of individual single-crystalline PbTe nanowires. Applied Physics Letters, 2010, 96, 103101.	1.5	60
154	Self-assembled Bi interconnections produced by on-film formation of nanowires forin situdevice fabrication. Nanotechnology, 2010, 21, 165302.	1.3	4
155	Direct observation of the semimetal-to-semiconductor transition of individual single-crystal bismuth nanowires grown by on-film formation of nanowires. Nanotechnology, 2010, 21, 405701.	1.3	38
156	Interface effects on thermal conductivity of Bi/Te core-shell nanowires. , 2010, , .		0
157	Detection of a nerve agent simulant using single-walled carbon nanotube networks: dimethyl-methyl-phosphonate. Nanotechnology, 2010, 21, 495501.	1.3	22
158	Shubnikovâ€“de Haas oscillations in an individual single-crystalline bismuth nanowire grown by on-film formation of nanowires. Applied Physics Letters, 2009, 95, 232107.	1.5	38
159	Electrical spin injection and detection in semimetallic Bi and Bi-Pb films. Physical Review B, 2009, 79, .	1.1	11
160	Reliable resistive switching device based on bi-layers of ZrO<inf>x</inf>/HfO<inf>x</inf> films. , 2009, , .		0
161	Highly sensitive spinâ€valve devices for chipâ€cytometers. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1636-1640.	0.8	4
162	On-Film Formation of Bi Nanowires with Extraordinary Electron Mobility. Nano Letters, 2009, 9, 18-22.	4.5	137

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163	Direct Growth of Compound Semiconductor Nanowires by On-Film Formation of Nanowires: Bismuth Telluride. Nano Letters, 2009, 9, 2867-2872.	4.5	67
164	Individual Pd nanowire hydrogen sensors fabricated by electron-beam lithography. Nanotechnology, 2009, 20, 135502.	1.3	102
165	First principles calculations of the magnetic properties of Feâ€“N systems. Physica Status Solidi (B): Basic Research, 2008, 245, 2581-2585.	0.7	10
166	Finite size effect on hydrogen gas sensing performance in single Pd nanowires. Nanotechnology, 2008, 19, 495501.	1.3	40
167	Dendritic palladium-silver nano-structure grown by electrochemical migration method for hydrogen sensing device. , 2008, , .		3
168	Magnetotransport properties of an individual single-crystalline Bi nanowire grown by a stress induced method. Journal of Applied Physics, 2008, 104, 073715.	1.1	12
169	Highly Oriented Thin-Film Microdomain Patterns of Ultrahigh Molecular Weight Block Copolymers via Directional Solidification of a Solvent. Advanced Materials, 2006, 18, 2691-2694.	11.1	47
170	Blueshifts of emission energy from InAs quantum dots in GaAs matrix due to narrowed interdot spacing: a token of the integrity of a nanostructure. Applied Physics A: Materials Science and Processing, 2005, 81, 715-719.	1.1	13
171	Multi-Photon Polymerization of Waveguide Structures Within Three-Dimensional Photonic Crystals. Advanced Materials, 2002, 14, 271-274.	11.1	242
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