

Jong-Heun Lee

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351
papers

19,216
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78
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124
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375
ext. papers

21,500
ext. citations

6.7
avg, IF

7.37
L-index

#	Paper	IF	Citations
351	Highly sensitive and selective gas sensors using p-type oxide semiconductors: Overview. <i>Sensors and Actuators B: Chemical</i> , 2014 , 192, 607-627	8.5	1309
350	Gas sensors using hierarchical and hollow oxide nanostructures: Overview. <i>Sensors and Actuators B: Chemical</i> , 2009 , 140, 319-336	8.5	1217
349	Gas sensing properties of defect-controlled ZnO-nanowire gas sensor. <i>Applied Physics Letters</i> , 2008 , 93, 263103	3.4	565
348	Novel fabrication of an SnO(2) nanowire gas sensor with high sensitivity. <i>Nanotechnology</i> , 2008 , 19, 095508	3.4	301
347	Co-precipitation synthesis and sintering of yttrium aluminum garnet (YAG) powders: the effect of precipitant. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 2395-2405	6	280
346	Thin-Wall Assembled SnO ₂ Fibers Functionalized by Catalytic Pt Nanoparticles and their Superior Exhaled-Breath-Sensing Properties for the Diagnosis of Diabetes. <i>Advanced Functional Materials</i> , 2013 , 23, 2357-2367	15.6	276
345	CuO nanowire gas sensors for air quality control in automotive cabin. <i>Sensors and Actuators B: Chemical</i> , 2008 , 135, 298-303	8.5	269
344	The Role of NiO Doping in Reducing the Impact of Humidity on the Performance of SnO ₂ -Based Gas Sensors: Synthesis Strategies, and Phenomenological and Spectroscopic Studies. <i>Advanced Functional Materials</i> , 2011 , 21, 4456-4463	15.6	262
343	Selective detection of NO ₂ and C ₂ H ₅ OH using a Co ₃ O ₄ -decorated ZnO nanowire network sensor. <i>Chemical Communications</i> , 2011 , 47, 5148-50	5.8	254
342	Facile control of C ₂ H ₅ OH sensing characteristics by decorating discrete Ag nanoclusters on SnO ₂ nanowire networks. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3140-5	9.5	238
341	Microstructure and piezoelectric properties of 0.95(Na _{0.5} K _{0.5})NbO ₃ 0.05BaTiO ₃ ceramics. <i>Applied Physics Letters</i> , 2006 , 89, 062906	3.4	210
340	The selective detection of C ₂ H ₅ OH using SnO ₂ /SnO thin film gas sensors prepared by combinatorial solution deposition. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 318-324	8.5	205
339	Design of selective gas sensors using electrospun Pd-doped SnO ₂ hollow nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2010 , 150, 191-199	8.5	200
338	Ultraselective and sensitive detection of xylene and toluene for monitoring indoor air pollution using Cr-doped NiO hierarchical nanostructures. <i>Nanoscale</i> , 2013 , 5, 7066-73	7.7	196
337	Oxide ionic conductivity and microstructures of Sm- or La-doped CeO ₂ -based systems. <i>Solid State Ionics</i> , 2002 , 154-155, 461-466	3.3	168
336	Enhanced H ₂ S sensing characteristics of SnO ₂ nanowires functionalized with CuO. <i>Sensors and Actuators B: Chemical</i> , 2009 , 142, 105-110	8.5	164
335	Synthesis and gas sensing characteristics of highly crystalline ZnO/SnO ₂ core-shell nanowires. <i>Sensors and Actuators B: Chemical</i> , 2010 , 148, 595-600	8.5	164

334	C ₂ H ₅ OH sensing characteristics of various Co ₃ O ₄ nanostructures prepared by solvothermal reaction. <i>Sensors and Actuators B: Chemical</i> , 2010 , 146, 183-189	8.5	152
333	Ultra-fast responding and recovering C ₂ H ₅ OH sensors using SnO ₂ hollow spheres prepared and activated by Ni templates. <i>Chemical Communications</i> , 2010 , 46, 5061-3	5.8	150
332	Highly sensitive and selective trimethylamine sensor using one-dimensional ZnO-Cr ₂ O ₃ hetero-nanostructures. <i>Nanotechnology</i> , 2012 , 23, 245501	3.4	149
331	Noble metal@metal oxide semiconductor core@shell nano-architectures as a new platform for gas sensor applications. <i>RSC Advances</i> , 2015 , 5, 76229-76248	3.7	148
330	Design of highly sensitive and selective Au@NiO yolk-shell nanoreactors for gas sensor applications. <i>Nanoscale</i> , 2014 , 6, 8292-9	7.7	148
329	Fast responding exhaled-breath sensors using WO ₃ hemitubes functionalized by graphene-based electronic sensitizers for diagnosis of diseases. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9061-70	9.5	141
328	Highly sensitive and fast responding CO sensor using SnO ₂ nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2008 , 131, 556-564	8.5	140
327	Role of oxygen functional groups in graphene oxide for reversible room-temperature NO ₂ sensing. <i>Carbon</i> , 2015 , 91, 178-187	10.4	138
326	Highly reversible switching from P- to N-type NO ₂ sensing in a monolayer Fe ₂ O ₃ inverse opal film and the associated P-N transition phase diagram. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3372-3381	13	136
325	Ultrasensitive and ultrasensitive detection of H ₂ S in highly humid atmosphere using CuO-loaded SnO ₂ hollow spheres for real-time diagnosis of halitosis. <i>Sensors and Actuators B: Chemical</i> , 2014 , 194, 371-376	8.5	133
324	Design of a highly sensitive and selective C ₂ H ₅ OH sensor using p-type Co ₃ O ₄ nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2012 , 161, 570-577	8.5	131
323	Co ₃ O ₄ -SnO ₂ Hollow Heteronanostructures: Facile Control of Gas Selectivity by Compositional Tuning of Sensing Materials via Galvanic Replacement. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7877-83	9.5	129
322	Enhanced ethanol sensing characteristics of In ₂ O ₃ -decorated NiO hollow nanostructures via modulation of hole accumulation layers. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18197-204	9.5	129
321	Thin-walled NiO tubes functionalized with catalytic Pt for highly selective C ₂ H ₅ OH sensors using electrospun fibers as a sacrificial template. <i>Chemical Communications</i> , 2011 , 47, 11300-2	5.8	129
320	A New Strategy for Humidity Independent Oxide Chemiresistors: Dynamic Self-Refreshing of In ₂ O ₃ Sensing Surface Assisted by Layer-by-Layer Coated CeO ₂ Nanoclusters. <i>Small</i> , 2016 , 12, 4229-40	11	128
319	Highly sensitive and ultra-fast responding gas sensors using self-assembled hierarchical SnO ₂ spheres. <i>Sensors and Actuators B: Chemical</i> , 2009 , 136, 138-143	8.5	127
318	Template-free solvothermal synthesis of hollow hematite spheres and their applications in gas sensors and Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6549		122
317	Toward breath analysis on a chip for disease diagnosis using semiconductor-based chemiresistors: recent progress and future perspectives. <i>Lab on A Chip</i> , 2017 , 17, 3537-3557	7.2	121

316	Honeycomb-like periodic porous LaFeO ₃ thin film chemiresistors with enhanced gas-sensing performances. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16217-26	9.5	121
315	Enhanced CO sensing characteristics of hierarchical and hollow In ₂ O ₃ microspheres. <i>Sensors and Actuators B: Chemical</i> , 2009 , 138, 497-503	8.5	118
314	Enhanced performance of SnO ₂ nanowires ethanol sensor by functionalizing with La ₂ O ₃ . <i>Sensors and Actuators B: Chemical</i> , 2008 , 133, 228-234	8.5	117
313	Gas sensing properties of p-type hollow NiO hemispheres prepared by polymeric colloidal templating method. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 366-371	8.5	113
312	Flexible Room-Temperature NH ₃ Sensor for Ultrasensitive, Selective, and Humidity-Independent Gas Detection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27858-27867	9.5	110
311	Low-Temperature Fabrication of Transparent Yttrium Aluminum Garnet (YAG) Ceramics without Additives. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 961-963	3.8	107
310	NO ₂ sensing characteristics of ZnO nanorods prepared by hydrothermal method. <i>Journal of Electroceramics</i> , 2006 , 17, 975-978	1.5	106
309	Ultrasensitive and ultrasensitive detection of H ₂ S using electrospun CuO-loaded In ₂ O ₃ nanofiber sensors assisted by pulse heating. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 934-942	8.5	105
308	Highly sensitive C ₂ H ₅ OH sensors using Fe-doped NiO hollow spheres. <i>Sensors and Actuators B: Chemical</i> , 2012 , 171-172, 1029-1037	8.5	100
307	One-pot hydrothermal synthesis of CuO/ZnO composite hollow spheres for selective H ₂ S detection. <i>Sensors and Actuators B: Chemical</i> , 2012 , 168, 83-89	8.5	99
306	Self-activated ultrahigh chemosensitivity of oxide thin film nanostructures for transparent sensors. <i>Scientific Reports</i> , 2012 , 2, 588	4.9	97
305	Metal-Organic Framework-Derived Hollow Hierarchical CoO Nanocages with Tunable Size and Morphology: Ultrasensitive and Highly Selective Detection of Methylbenzenes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8860-8868	9.5	96
304	Enhanced H ₂ S sensing characteristics of Pt doped SnO ₂ nanofibers sensors with micro heater. <i>Sensors and Actuators B: Chemical</i> , 2011 , 157, 154-161	8.5	96
303	Coating BaTiO ₃ Nanolayers on Spherical Ni Powders for Multilayer Ceramic Capacitors. <i>Advanced Materials</i> , 2003 , 15, 1655-1658	24	96
302	Glucose-mediated hydrothermal synthesis and gas sensing characteristics of WO ₃ hollow microspheres. <i>Sensors and Actuators B: Chemical</i> , 2009 , 142, 236-242	8.5	94
301	Ultrasensitive and selective C ₂ H ₅ OH sensors using Rh-loaded In ₂ O ₃ hollow spheres. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18560		92
300	Characterization and sintering of nanocrystalline CeO ₂ powders synthesized by a mimic alkoxide method. <i>Acta Materialia</i> , 2001 , 49, 419-426	8.4	92
299	Synthesis of MgAl spinel powder via precipitation using ammonium bicarbonate as the precipitant. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 139-148	6	91

298	Ultra-selective detection of sub-ppm-level benzene using Pd@In ₂ O ₃ yolk-shell micro-reactors with a catalytic Co ₃ O ₄ overlayer for monitoring air quality. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1446-1454	13	90
297	Ultrasensitive and ultrasensitive detection of trimethylamine using MoO ₃ nanoplates prepared by ultrasonic spray pyrolysis. <i>Sensors and Actuators B: Chemical</i> , 2014 , 195, 189-196	8.5	90
296	Rational Design of Semiconductor-Based Chemiresistors and their Libraries for Next-Generation Artificial Olfaction. <i>Advanced Materials</i> , 2020 , 32, e2002075	24	90
295	Highly Selective Xylene Sensor Based on NiO/NiMoO Nanocomposite Hierarchical Spheres for Indoor Air Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34603-34611	9.5	90
294	Highly selective and sensitive detection of trimethylamine using WO ₃ hollow spheres prepared by ultrasonic spray pyrolysis. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 971-977	8.5	87
293	Transformation of ZnO nanobelts into single-crystalline Mn ₃ O ₄ nanowires. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6565-72	9.5	86
292	A binder-free Ge-nanoparticle anode assembled on multiwalled carbon nanotube networks for Li-ion batteries. <i>Chemical Communications</i> , 2012 , 48, 7061-3	5.8	86
291	Selective and sensitive detection of trimethylamine using ZnO@ZnO composite nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2013 , 181, 463-470	8.5	85
290	Perforated Metal Oxide-Carbon Nanotube Composite Microspheres with Enhanced Lithium-Ion Storage Properties. <i>ACS Nano</i> , 2015 , 9, 10173-85	16.7	84
289	Highly selective and sensitive chemoresistive humidity sensors based on rGO/MoS ₂ van der Waals composites. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5016-5024	13	84
288	Role of Pd nanoparticles in gas sensing behaviour of Pd@In ₂ O ₃ yolk-shell nanoreactors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 264-269	13	84
287	Extremely sensitive and selective NO probe based on villi-like WO ₃ nanostructures for application to exhaled breath analyzers. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10591-6	9.5	84
286	Design of highly sensitive volatile organic compound sensors by controlling NiO loading on ZnO nanowire networks. <i>RSC Advances</i> , 2012 , 2, 414-417	3.7	84
285	Development of highly sensitive and selective ethanol sensor based on lance-shaped CuO nanostructures. <i>Materials and Design</i> , 2016 , 105, 16-24	8.1	84
284	A wet-chemical process yielding reactive magnesium aluminate spinel (MgAl ₂ O ₄) powder. <i>Ceramics International</i> , 2001 , 27, 481-489	5.1	83
283	NH ₂ -MIL-125(Ti)/TiO ₂ nanorod heterojunction photoanodes for efficient photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 511-518	21.8	83
282	Co-doped branched ZnO nanowires for ultrasensitive and sensitive detection of xylene. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22553-60	9.5	82
281	Necked ZnO nanoparticle-based NO ₂ sensors with high and fast response. <i>Sensors and Actuators B: Chemical</i> , 2009 , 140, 412-417	8.5	82

280	Enhanced C ₂ H ₅ OH sensing characteristics of nano-porous In ₂ O ₃ hollow spheres prepared by sucrose-mediated hydrothermal reaction. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 512-518	8.5	82
279	Review on zirconia air-fuel ratio sensors for automotive applications. <i>Journal of Materials Science</i> , 2003 , 38, 4247-4257	4.3	82
278	One-pot synthesis of Pd-loaded SnO(2) yolk-shell nanostructures for ultrasensitive methyl benzene sensors. <i>Chemistry - A European Journal</i> , 2014 , 20, 2737-41	4.8	81
277	Selective, sensitive, and reversible detection of H ₂ S using Mo-doped ZnO nanowire network sensors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6412-6418	13	81
276	Micromachined catalytic combustible hydrogen gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2011 , 153, 392-397	8.5	80
275	Solvent-free infiltration method for mesoporous SnO ₂ using mesoporous silica templates. <i>Microporous and Mesoporous Materials</i> , 2009 , 120, 441-446	5.3	78
274	Highly selective and sensitive xylene sensors using Ni-doped branched ZnO nanowire networks. <i>Sensors and Actuators B: Chemical</i> , 2015 , 216, 358-366	8.5	75
273	Selective trimethylamine sensors using Cr ₂ O ₃ -decorated SnO ₂ nanowires. <i>Sensors and Actuators B: Chemical</i> , 2014 , 204, 231-238	8.5	74
272	Preparation of nanostructured TiO ₂ ceramics by spark plasma sintering. <i>Materials Research Bulletin</i> , 2003 , 38, 925-930	5.1	74
271	Dual Role of Multiroom-Structured Sn-Doped NiO Microspheres for Ultrasensitive and Highly Selective Detection of Xylene. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16605-16612	9.5	73
270	Phase evolution of perovskite LaNiO ₃ nanofibers for supercapacitor application and p-type gas sensing properties of LaOCl/NiO composite nanofibers. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1959-1965		73
269	Improvement of Grain-Boundary Conductivity of 8 mol % Yttria-Stabilized Zirconia by Precursor Scavenging of Siliceous Phase. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 2822	3.9	71
268	Electronic sensitization of the response to C ₂ H ₅ OH of p-type NiO nanofibers by Fe doping. <i>Nanotechnology</i> , 2013 , 24, 444005	3.4	70
267	Spark Plasma Sintering (SPS) of NASICON Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 305-307	3.8	69
266	Ultrasensitive detection of trimethylamine using Rh-doped SnO ₂ hollow spheres prepared by ultrasonic spray pyrolysis. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 330-337	8.5	68
265	Highly sensitive and selective detection of ppb-level NO ₂ using multi-shelled WO ₃ yolk-shell spheres. <i>Sensors and Actuators B: Chemical</i> , 2016 , 229, 561-569	8.5	68
264	Extremely sensitive ethanol sensor using Pt-doped SnO ₂ hollow nanospheres prepared by Kirkendall diffusion. <i>Sensors and Actuators B: Chemical</i> , 2016 , 234, 353-360	8.5	68
263	Characteristics of Li ₃ V ₂ (PO ₄) ₃ /C powders prepared by ultrasonic spray pyrolysis. <i>Journal of Power Sources</i> , 2011 , 196, 6682-6687	8.9	67

262	Humidity-Independent Oxide Semiconductor Chemiresistors Using Terbium-Doped SnO Yolk-Shell Spheres for Real-Time Breath Analysis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18886-18894	9.5	67
261	Cr-doped Co ₃ O ₄ nanorods as chemiresistor for ultrasensitive monitoring of methyl benzene. <i>Sensors and Actuators B: Chemical</i> , 2014 , 201, 482-489	8.5	66
260	NiO/NiWO Composite Yolk-Shell Spheres with Nanoscale NiO Outer Layer for Ultrasensitive and Selective Detection of Subppm-level p-Xylene. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32034-32043	8.5	66
259	Gas sensing characteristics of p-type Cr ₂ O ₃ and Co ₃ O ₄ nanofibers depending on inter-particle connectivity. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 263-271	8.5	65
258	Enhancement of grain-boundary conduction in gadolinia-doped ceria by the scavenging of highly resistive siliceous phase. <i>Acta Materialia</i> , 2007 , 55, 4807-4815	8.4	65
257	Trimodally porous SnO ₂ nanospheres with three-dimensional interconnectivity and size tunability: a one-pot synthetic route and potential application as an extremely sensitive ethanol detector. <i>NPG Asia Materials</i> , 2016 , 8, e244-e244	10.3	64
256	Vertically ordered hematite nanotube array as an ultrasensitive and rapid response acetone sensor. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14779-84	9.5	63
255	Microstructural control and selective C ₂ H ₅ OH sensing properties of Zn ₂ SnO ₄ nanofibers prepared by electrospinning. <i>Chemical Communications</i> , 2011 , 47, 9315-7	5.8	63
254	Rh-catalyzed WO ₃ with anomalous humidity dependence of gas sensing characteristics. <i>RSC Advances</i> , 2014 , 4, 53130-53136	3.7	62
253	Ultrasensitive reversible oxygen sensing by using liquid-exfoliated MoS ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6070-6076	13	61
252	Fabrication of Translucent Magnesium Aluminum Spinel Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2866-2868	3.8	61
251	Highly sensitive and selective trimethylamine sensors using Ru-doped SnO ₂ hollow spheres. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 733-738	8.5	60
250	Synthesis and electrochemical properties of spherical and hollow-structured NiO aggregates created by combining the Kirkendall effect and Ostwald ripening. <i>Nanoscale</i> , 2015 , 7, 19620-6	7.7	59
249	Selective detection of NO ₂ using Cr-doped CuO nanorods. <i>Sensors</i> , 2012 , 12, 8013-25	3.8	59
248	Gas sensors using ordered macroporous oxide nanostructures. <i>Nanoscale Advances</i> , 2019 , 1, 1626-1639	5.1	59
247	Chemically fluorinated graphene oxide for room temperature ammonia detection at ppb levels. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19116-19125	13	58
246	High H ₂ sensing behavior of TiO ₂ films formed by thermal oxidation. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 264-270	8.5	58
245	Well-sinterable Y ₃ Al ₅ O ₁₂ Powder from Carbonate Precursor. <i>Journal of Materials Research</i> , 2000 , 15, 1514-1523	2.5	58

244	Effect of CaO concentration on enhancement of grain-boundary conduction in gadolinia-doped ceria. <i>Journal of Power Sources</i> , 2008 , 183, 518-523	8.9	57
243	Humidity-Independent Gas Sensors Using Pr-Doped InO Macroporous Spheres: Role of Cyclic Pr/Pr Redox Reactions in Suppression of Water-Poisoning Effect. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25322-25329	9.5	56
242	A new concept for obtaining SnO ₂ fiber-in-tube nanostructures with superior electrochemical properties. <i>Chemistry - A European Journal</i> , 2015 , 21, 371-6	4.8	55
241	ZnO hierarchical nanostructures grown at room temperature and their C ₂ H ₅ OH sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 745-751	8.5	55
240	Superior Na-ion storage properties of high aspect ratio SnSe nanoplates prepared by a spray pyrolysis process. <i>Nanoscale</i> , 2016 , 8, 11889-96	7.7	55
239	Design and synthesis of micron-sized spherical aggregates composed of hollow Fe ₂ O ₃ nanospheres for use in lithium-ion batteries. <i>Nanoscale</i> , 2015 , 7, 8361-7	7.7	54
238	High performance chemiresistive H ₂ S sensors using Ag-loaded SnO ₂ yolk-shell nanostructures. <i>RSC Advances</i> , 2014 , 4, 16067-16074	3.7	54
237	Design of Highly Selective Gas Sensors via Physicochemical Modification of Oxide Nanowires: Overview. <i>Sensors</i> , 2016 , 16,	3.8	54
236	Dual-mode gas sensor for ultrasensitive and highly selective detection of xylene and toluene using Nb-doped NiO hollow spheres. <i>Sensors and Actuators B: Chemical</i> , 2019 , 301, 127140	8.5	51
235	Performance enhancement through post-treatments of CdS-sensitized solar cells fabricated by spray pyrolysis deposition. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1648-52	9.5	51
234	Development of WC/ZrO ₂ Nanocomposites by Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 317-319	3.8	51
233	Reactions and mass transport in high temperature co-electrolysis of steam/CO ₂ mixtures for syngas production. <i>Journal of Power Sources</i> , 2015 , 280, 630-639	8.9	50
232	Development of Nanocrystalline Wear-Resistant Y-TZP Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1771-1774	3.8	50
231	Visible light assisted NO ₂ sensing at room temperature by CdS nanoflake array. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 2963-2970	8.5	49
230	Highly selective and sensitive xylene sensors using Cr ₂ O ₃ -ZnCr ₂ O ₄ hetero-nanostructures prepared by galvanic replacement. <i>Sensors and Actuators B: Chemical</i> , 2016 , 235, 498-506	8.5	49
229	Pure and palladium-loaded Co ₃ O ₄ hollow hierarchical nanostructures with giant and ultrasensitive chemiresistivity to xylene and toluene. <i>Chemistry - A European Journal</i> , 2015 , 21, 5872-8	4.8	48
228	Metal Oxide Gas Sensors with Au Nanocluster Catalytic Overlayer: Toward Tuning Gas Selectivity and Response Using a Novel Bilayer Sensor Design. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32169-32177	9.5	48
227	CO sensing performance in micro-arc oxidized TiO ₂ films for air quality control. <i>Sensors and Actuators B: Chemical</i> , 2006 , 120, 69-73	8.5	47

226	Highly selective and sensitive detection of NO ₂ using rGO-In ₂ O ₃ structure on flexible substrate at low temperature. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1671-1679	8.5	46
225	Phase-pure δ -NiMoO ₄ yolk-shell spheres for high-performance anode materials in lithium-ion batteries. <i>Electrochimica Acta</i> , 2015 , 174, 102-110	6.7	46
224	Kilogram-scale synthesis of Pd-loaded quintuple-shelled Co ₃ O ₄ microreactors and their application to ultrasensitive and ultraspecific detection of methylbenzenes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7717-23	9.5	45
223	Large-scale fabrication of highly sensitive SnO ₂ nanowire network gas sensors by single step vapor phase growth. <i>Sensors and Actuators B: Chemical</i> , 2012 , 165, 97-103	8.5	45
222	Punched ZnO nanobelt networks for highly sensitive gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2012 , 174, 495-499	8.5	45
221	Effect of esterification reaction of citric acid and ethylene glycol on the formation of multi-shelled cobalt oxide powders with superior electrochemical properties. <i>Nano Research</i> , 2014 , 7, 1738-1748	10	44
220	Functionalization of ZnO nanorods by CuO nanospikes for gas sensor applications. <i>RSC Advances</i> , 2014 , 4, 23604	3.7	44
219	In-situ nano-alloying Pd-Ni for economical control of syngas production from high-temperature thermo-electrochemical reduction of steam/CO ₂ . <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 265-273 ^{21.8}		44
218	Improvement of translucency in Al ₂ O ₃ ceramics by two-step sintering technique. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3629-3632	6	44
217	Electrolytic Properties and Nanostructural Features in the La ₂ O ₃ -CeO ₂ System. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A665	3.9	44
216	Discriminative detection of indoor volatile organic compounds using a sensor array based on pure and Fe-doped In ₂ O ₃ nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2019 , 285, 193-200	8.5	44
215	A strategy for ultrasensitive and selective detection of methylamine using p-type Cr ₂ O ₃ : Morphological design of sensing materials, control of charge carrier concentrations, and configurational tuning of Au catalysts. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 1049-1057	8.5	42
214	Vapor-phase growth of urchin-like Mg-doped ZnO nanowire networks and their application to highly sensitive and selective detection of ethanol. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 527-534 ^{8.5}		40
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